

International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure



International Federation of Surveyors

General Assembly

AGENDA AND APPENDICES

16 and 21 June 2014

**Kuala Lumpur Convention Centre
Kuala Lumpur, Malaysia**

INTERNATIONAL FEDERATION OF SURVEYORS**FIG 37th GENERAL ASSEMBLY****16 and 21 June 2014****Kuala Lumpur Convention Centre - Kuala Lumpur, Malaysia****PROGRAMME**

Monday, 16 June 2014		
Kuala Lumpur Convention Centre (KLCC) - Kuala Lumpur, Malaysia		
Monday 16 June	09:00-13:00 14:00-17:00	General Assembly, First Session Conference Hall 2
Tuesday, 17 June – Friday, 20 June 2014		
FIG 2014 Congress		
Kuala Lumpur Convention Centre (and Impiana Hotel), Kuala Lumpur, Malaysia		
www.fig.net/fig2014		
Tuesday 17 June – Thursday 19 June 2014		
FIG 2014 Congress Exhibition		
Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia		
www.fig.net/fig2014		
Tuesday– Wednesday 17-18 June	08:00-09:00 KLCC (See programme for individual rooms)	Annual Meetings of FIG Commissions and Networks
Tuesday 17 June	09:00-10:45 and 11:30 – 13:00 Tbc, KLCC, Kuala Lumpur	FIG Member Associations Forum These two sessions are reserved for Presidents or Heads of delegation (or their representatives) of member associations to discuss issue of their common interest. President of PEJUTA chairs the meeting. By invitation only
Wednesday 18 June 11.00–14.00 (including lunch on site)	08:30-10:00 Forest Research Institute of Malaysia (FRIM), Kepong, Kuala Lumpur. Meeting point at KLCC	Carbon Offset Programme – Let's Meet & Green Special This event is reserved for Presidents or Heads of delegation (or their representative) to plant trees in order to offset the price of progress by giving back to the environment. Complimentary participation. Registration is necessary. Contact Louise Friis-Hansen louise.friis-hansen@fig.net More information: www.fig.net/fig2014/tours_carbon_offset.htm By invitation only
Friday 20 June	Presidents' Meeting 16:30-19:00 Tbc	FIG Presidents' Meeting This event is convened by the FIG President and is reserved for Presidents or Heads of delegation of

Member Associations (or their representatives) By invitation only		
Saturday, 21 June 2014 KLCC, Kuala Lumpur, Malaysia		
Saturday 21 June	09:00–13:00 14:00-16:00 Ballroom 1, KLCC	General Assembly, Second Session including Closing Ceremony. Closing ceremony will start immediately after the conclusion of the General Assembly and will be followed by the Farewell Reception hosted by the Chamber of Graduated Surveyors, Bulgaria, host of FIG Working Week 2015.

FIG 37th GENERAL ASSEMBLY

List of Agenda Items

Monday, 16 June, 09:00-13:00 and 14:00-17:00

1. OPENING PROCEEDINGS
2. ROLL CALL
3. APPOINTMENT OF TELLERS
4. ADOPTION OF THE AGENDA
5. ADOPTION OF THE MINUTES OF THE 36th GENERAL ASSEMBLY
6. MEMBERSHIP
7. APPOINTMENT OF HONORARY MEMBERS
8. PRESIDENT'S REPORT
9. FIG ACCOUNTS FOR 2013 AND AUDITOR'S REPORT AND BUDGETS 2014-2017
10. SUBSCRIPTION RATES FOR 2016
11. AMENDMENT TO STATUTES AND INTERNAL RULES
12. REPORTS FROM FIG COMMISSIONS AND FIG NETWORKS 2013-2014
13. REPORTS OF TASK FORCES 2013-2014
14. REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS 2013-2014
15. REPORT OF THE PRESIDENT OF THE FIG FOUNDATION 2013-2014
16. CO-OPERATION WITH THE UNITED NATIONS AND THE WORLD BANK
17. LIAISON WITH INTERNATIONAL PROFESSIONAL ORGANISATIONS
18. ELECTION OF PRESIDENT FOR 2015-2018 – PRESENTATION BY CANDIDATE
19. ELECTION OF TWO VICE PRESIDENTS FOR 2015-2018 – PRESENTATION BY CANDIDATES
20. DECISION ON THE VENUE FOR 2017 FIG WORKING WEEK – PRESENTATION BY CANDIDATES
21. DECISION ON THE VENUE FOR 2018 FIG CONGRESS – PRESENTATION BY CANDIDATE

Friday, 20 June, 16:30-19:00

22. FIG PRESIDENT'S MEETING

Saturday, 21 June, 09:00–13:00 and 14:00-16:00

23. ROLL CALL
24. MEMBERSHIP
25. DECISION ON THE VENUE FOR 2017 FIG WORKING WEEK
26. DECISION ON THE VENUE FOR 2018 FIG CONGRESS
27. APPOINTMENTS OF COMMISSION CHAIRS 2015-2018
28. ELECTION OF TWO VICE PRESIDENTS FOR 2015-2018
29. ELECTION OF PRESIDENT 2015-2018

30. REPORTS FROM AFFILIATE, ACADEMIC AND CORPORATE MEMBERS FORUM (IF ANY)
31. REPORTS FROM COMMISSIONS, NETWORKS (by Chairs Elects), AND TASK FORCES (IF ANY)
32. REPORTS FROM PERMANENT INSTITUTIONS (IF ANY)
33. REPORT FROM FIG FOUNDATION (IF ANY)
34. REPORT ON THE WORKING WEEK 2016 IN CHRISTCHURCH, NEW ZEALAND
35. REPORT ON THE FIG WORKING WEEK 2015, SOFIA, BULGARIA
36. OTHER MATTERS (WITH PRIOR NOTICE GIVEN TO COUNCIL)
37. PRESENTATION OF CERTIFICATES OF APPRECIATION

CLOSING CEREMONY

FIG 37th GENERAL ASSEMBLY

AGENDA

for the meetings to be held on Monday 16 June 2014 in Conference Hall 2 and on Saturday 21 June 2014 in Ballroom 1 at the Kuala Lumpur Convention Center, Kuala Lumpur, Malaysia

MONDAY, 16 JUNE

Monday, 16 June, 09:00-13:00 and 14:00-17:00
Conference Hall 2, Kuala Lumpur Convention Center
General Assembly, First Session

1 OPENING PROCEEDINGS

President CheeHai Teo to open the 37th General Assembly.

2 ROLL CALL

Vice President Rudolf Staiger to take the roll call.

Please note: The roll call will be done for member associations and affiliate members only. Delegates representing academic members, corporate members and correspondents as well as honorary presidents and honorary members will be entered in the records but they shall register before the meeting starts at the meeting venue to the staff of FIG Office. Member associations are asked to inform the FIG Office by **12 May 2014** about their attendance, at the same time to submit the names of their delegate(s) and to inform who their Head of the delegation is, if it is not the President or Chair. Please use this special link below to inform us about your delegation. You can also register for the special Carbon Offset Programme that the local association PEJUTA has organised especially for Presidents and Heads of delegations.

To register:

https://docs.google.com/forms/d/1o8XhniEfMe8FlnoPRHMmDFqyBFZNshv98nF0OXcA_AM/viewform

Information on the Carbon Offset Programme:

http://www.fig.net/fig2014/tours_carbon_offset.htm

Since only member associations that have paid all their membership fees to the end of 2013 are allowed to vote at the meeting, a list of member associations that are not allowed to vote will be published and posted on the FIG web site **15 May 2014**.

Appendix to items 2 & 23: Roll Call

Appendix to items 2 & 23: List of member associations that are not allowed to vote at the General Assembly because of unpaid membership fees for 2013 and earlier. To be posted 15 May 2014.

Motion: Those members present are recorded in the minutes.

Decision:

3 APPOINTMENT OF TELLERS

The General Assembly shall appoint two persons as tellers for the entire General Assembly. The tellers will represent member association that hosted the preceding (Nigerian Institution of Surveyors, NIS, Nigeria) and the host of the proceeding following General Assembly (Chamber of Graduated Surveyors, CGS, Bulgaria).

Motion: That the General Assembly appoints Bern. Omo Akhigbe from NIS and Angel Yanakiev from CGS as tellers for this General Assembly.

Decision:

4 ADOPTION OF THE AGENDA

The Agenda for the General Assembly was issued as mandated, on 16 April 2014.

Motion: That the agenda be adopted.

Decision:

5 ADOPTION OF THE MINUTES OF THE 36th GENERAL ASSEMBLY

Minutes have been circulated previously.

Appendix to item 5: Minutes of the General Assembly in Abuja, Nigeria, May 2013, without appendices.

Motion: That the minutes be adopted as recorded.

Decision:

6 MEMBERSHIP

6.1. Admittance of new member associations

6.1.1 The Institute of Surveyors, St. Lucia, Inc. ISSL (MA-10123)

The Institute of Surveyors (St. Lucia) Inc. ISSL has applied for membership. ISSL was established in 2003. Their total membership (all categories) is 85 and qualified and full members numbered 66. The application meets the criteria for membership in FIG as a

member association. The Council has considered the application and believes that the association meets criteria for membership of FIG as a member association.

Appendix to item 6.1.1: Membership application from The Institute of Surveyors, St. Lucia, Inc. ISSL

Motion: That the General Assembly admits The Institute of Surveyors, St. Lucia, Inc. ISSL to become a member association of FIG.

Decision:

6.2 Resignation by member association

6.2.1 Hong Kong Institute of Surveyors

Hong Kong Institute of Surveyors has regrettably decided to resign from FIG. FIG Council is thankful that HKIS has cleared all arrears and there are no outstanding dues. FIG looks forward to a time where HKIS will find it fit to rejoin our global community.

Motion: That the General Assembly notes the resignation of HKIS

Decision:

6.3 Expulsion of member associations

Subscriptions of following member associations are more than three years in arrears:

- Federación Argentina de Agrimensores FADA, Argentina (MA-10002)
- Colegio de Ingenieros y Agrimensores de Puerto Rico (MA-10069)
- Geodetic Engineers of the Philippines, Inc. (MA-10107)

The General Assembly has powers to expel from the Federation any member association whose fees are in arrears and shall under normal circumstances expel any member association whose fees are three years in arrears. (Article 4.3 of the Statutes). The FIG office has sent a letter to these associations informing that if their membership fees are still in arrears at the time of the General Assembly the General Assembly shall expel the above member associations in Kuala Lumpur.

In accordance with its administrative measures, FIG Council, has deferred the issuance of a membership subscription invoice to the Order of Syrian Engineers and Architects, OSEA as all efforts to maintain contact with them has not yielded results, will deem their membership in suspension giving due consideration to its internal situation. As reported in previous General Assembly, there remain existing sanctions on Iran and Denmark cannot receive payments from Iranian Professional Society of Surveying Engineers (ISS). Again in accordance with its administrative measures, FIG Council deem their membership to be in

suspension. The situation with these associations will be reconsidered by Council again in 2015.

After acceptance of new member associations and expulsions the number of FIG member associations is 102 from 86 countries.

Motion: That the General Assembly expels the

- Federación Argentina de Agrimensores FADA, Argentina (MA-10002)
- Colegio de Ingenieros y Agrimensores de Puerto Rico (MA-10069)
- Geodetic Engineers of the Philippines, Inc. (MA-10107)

Decision:

6.4 Other membership issues

6.4.1 Affiliate members

The Council has admitted the following national agencies to become affiliate members:

- State Committee for Land and Cartography, State Aerogeodesy Corporation, Azerbaijan
- Central Office of Immovable Property Registration – IPRO Albania
- General Commission for Survey (GCS), General Directorate of Geodesy and Land Survey (GLS), Saudi Arabia.

The council has expelled the following affiliate members because of unpaid membership subscriptions.

- Afghan Land Consulting Org. (AF20034)

After these changes the number of affiliate members is now 43.

6.4.2 Corporate members

The Council has admitted the following companies as Corporate Members of FIG after the General Assembly in 2013:

- MundoGEO, Brazil, (category F, regional level)
- The State Enterprise “State Land Cadastre Centre”, Ukraine (Category C, silver level)
- JKO Surveyors & Consultants (Pvt) Ltd, Sri Lanka (category F, regional level)

Thomson Reuters has revised their membership category from category E – basic level to category C silver level.

Following corporate members have resigned from their membership from 1.1.2014:

- FARO, Germany (category C –silver level)

After these changes the number of corporate members is now 23.

6.4.3 Academic members

The Council has expelled following universities because of unpaid membership subscriptions:

- Zonguldak Karaelmas Univ. Turkey (AC-40111)

The following academic members have resigned their membership:

- Fachhochschule Trier, Germany
- National University of Singapore

The number of Academic Members after these changes is 89 from 56 countries.

6.4.4 Correspondents

Council has not made any changes in Correspondent members since General Assembly 2013 and the number of correspondents remains at 3.

Motion: That the General Assembly notes the actions that the Council has taken with other membership matters.

Decision:

7 APPOINTMENT OF HONORARY MEMBERS

Mr. John Hohol

NSPS (formerly ACSM) National Office, United States has sent a nomination letter in which it proposes that FIG appoints Mr John Hohol as an Honorary Member of FIG.

Mr. Iain Greenway

Chartered Institution of Civil Engineering Surveyors ICES, United Kingdom, has sent a nomination letter in which it proposes that FIG appoints Mr. Iain Greenway as an Honorary Member of FIG.

FIG Council has considered these nominations and considers that it fulfils the criteria (see criteria at: <http://www.fig.net/pub/figpub/pub40/figpub40.htm#Criteria>) for an Honorary Member and therefore proposes to the General Assembly that it appoints Mr John Hohol and Mr Iain Greenway as an Honorary Members of the Federation for the outstanding services both has provided to the Federation.

Appendix to item 7: The nomination letter from NSPS National Office, United States and from ICES, United Kingdom

Motion: That the General Assembly appoints Mr. John Hohol and Mr. Iain Greenway as Honorary Members of FIG.

Decision:

8 PRESIDENT'S REPORT

President CheeHai Teo has prepared the President's report on the activities of the Federation since the General Assembly in Abuja in May 2013.

Appendix to item 8: President's report

Motion: That the General Assembly accepts the President's report.

Decision:

9 FIG ACCOUNTS FOR 2013, AUDITOR'S REPORT AND BUDGETS 2014-2017

Vice President Bruno Razza will present the report to the General Assembly. This report includes the auditors report from 2013, official accounts (income statement 2013) and balance sheet 31 December 2013, a summary of 2013 accounts, an updated budget for 2014 and proposals for budgets 2015-2017 with notes and proposal for membership fees for member associations in 2016.

Appendix to item 09: Report on Financial Issues (including 2013 accounts and budgets 2014-2017)

Annexes:

- **9A** Auditor's Report, Income Statement for 2013 and Balance Sheet at 31 December 2013.
- **9B** FIG Result 2013
- **9C** FIG Budgets 2014-2017
- **9D** List of member associations whose membership fees are in arrears for 2013 and earlier and that are not allowed to vote - to be published on the FIG web site **15 May 2014**.

Motion: That the General Assembly

- adopts the audited accounts for 2013,
- adopts the Finance Report, and
- adopts budgets for 2014–2017

Decision:

10 SUBSCRIPTION RATES FOR 2016

The General Assembly has to set levels of fees for member associations two years in advance of the year in which they become payable. Fees are payable in respect of each individual member up to a maximum of 5,500 members. Membership fee structure was changed in 2009. Membership fees have been discussed as part of the finance report, **appendix to item 9**.

The 2013 General Assembly approved membership fees for 2015 as follows:

<u>Year</u>	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2015	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 per member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

The World Bank lists of the low-income economies and the lower-middle-income economies are available at: <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>

Recognising that the level of the 2016 subscription fees is dependent on the strategies of the new council, this Council remains responsible to propose to the General Assembly the level of subscription for 2016. Council has considered that a small rise in subscription might be appropriate given FIG's financial challenges expected over the coming years. Council is however also conscious of the economic condition that members are operating under and in particular member's challenges with their national membership and budgets. Council wishes to respect this as well and believes that the incoming Council and FIG Office will continue to be prudent in its financial management. Council therefore proposes the level of subscription for member associations for 2016 be at the same level as 2015. However, the incoming Council may review its subscription fees strategies for other categories of membership, in the future.

Motion: That the General Assembly adopts following membership fees payable by member associations in 2016:

<u>Year</u>	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2016	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 per member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

Decision:

11 AMENDMENT TO STATUTES AND INTERNAL RULES

Amendments proposed by FIG Council

FIG Council proposes three amendments to the Statutes and Internal Rules for the consideration of the General Assembly. General Assembly is to note that any decision at this first session of the General Assembly to the Statutes and Internal Rules, when adopted, will be implemented at the second session of the General Assembly

FIG Statutes 6.6.

FIG Council proposes to amend item 6.6 of the statutes as follows:

Existing Provisions	Proposed Amendments	Rationale
6.6 A member association may only cast one vote on each issue.	6.6 A member association may: a) cast one vote on each issue provided the member association had in the most recent subscription period an individual membership of 999 or fewer; b) cast up to three votes on each issue provided the member association had in the most recent subscription period an individual membership of 5,500 or more, and subjected to the maximum subscription for a member association set by the General Assembly ; c) otherwise cast up to two votes on each issue.	<p>The 2012 General Assembly in Rome unanimously adopted the recommendations from the Working Group on Voting Rights that was convened by the 2011 General Assembly in Marrakech that the voting system be changed; that the right to vote remains with members associations; and that a sliding scale of voting, relative to association's membership numbers, be adopted; and that Council prepare and table a proposal (after consultation with the members) to amend Article 6.6 of the FIG Statutes no later than at the 1st session and to be implemented at the 2nd session of the 2014 General Assembly in Kuala Lumpur, Malaysia</p> <p>In early 2013, Council prepared and sent out a one-page consultation paper that set out the essentials of Council's recommendation that is reflected in the proposed amendment to Article 6.6 of FIG Statutes. The one-page consultation paper is attached.</p>

Motion: That FIG General Assembly agree to amend FIG Statutes item 6.6 to:

6.6 A member association may:

- a) cast one vote on each issue provided the member association had in the most recent subscription period an individual membership of 999 or fewer;
- b) cast up to three votes on each issue provided the member association had in the most recent subscription period an individual membership of 5,500 or more, and subjected to the maximum subscription for a member association set by the General Assembly ;
- c) otherwise cast up to two votes on each issue.

Decision:

FIG Statutes 8

FIG Council proposes to amend item 8 of the statutes as follows:

Existing Provisions	Proposed Amendments	Rationale
<p>8 Force majeure</p> <p>8.1 In the event of force majeure rendering liaison with the majority of members of the Federation impossible, the Council shall take all measures necessary for the safety of the Federation’s funds and its archives and for the custodianship of the Federation; but otherwise all activity of the Federation shall cease until conditions permit activities to be resumed.</p>	<p>8 Force majeure</p> <p>8.1 If the Council determines that circumstances at the designated venue do not allow the convening of a General Assembly in conformance with these Statutes, the Council will take the steps it considers necessary to continue the work of the Federation, including communicating with the Federation’s members. This may include: using postal voting for matters requiring urgent decision (except that of election to office); deferring the business of a General Assembly to the following year’s General Assembly; or convening a rearranged meeting of the General Assembly. A rearranged meeting will always be arranged if there is an election to office to be determined. If the Council decides to convene a rearranged meeting of the General Assembly in these circumstances, the timetabling provisions of Statutes 6.1 and 6.2 may be waived.</p> <p>8.2</p>	<p>The General Assembly decides four years out the venue of FIG’s future General Assembly that is attached to FIG’s Working Week and Congress. Council recognized that circumstances at the chosen venue might be impacted by subsequent events and occurrences that do not allow the convening of a General Assembly in a safe and sure circumstances.</p> <p>The new provision under Item 8.1 allows Council to take the necessary steps to continue the work of the Federation and may include postal voting, deferring the business to the following year or convening a rearranged meeting of the General Assembly. Any election to office must be at a rearranged meeting of the General Assembly and not deferred nor decided by postal vote.</p> <p>The existing Item 8.1 be renumbered as 8.2</p>

Existing Provisions	Proposed Amendments	Rationale
	In the event of force majeure rendering liaison with the majority of members of the Federation impossible, the Council shall take all measures necessary for the safety of the Federation's funds and its archives and for the custodianship of the Federation; but otherwise all activity of the Federation shall cease until conditions permit activities to be resumed.	

Motion: That FIG General assembly agree to amend FIG Statutes item 8 to:

8 Force majeure

8.1

If the Council determines that circumstances at the designated venue do not allow the convening of a General Assembly in conformance with these Statutes, the Council will take the steps it considers necessary to continue the work of the Federation, including communicating with the Federation's members. This may include: using postal voting for matters requiring urgent decision (except that of election to office); deferring the business of a General Assembly to the following year's General Assembly; or convening a rearranged meeting of the General Assembly. A rearranged meeting will always be arranged if there is an election to office to be determined. If the Council decides to convene a rearranged meeting of the General Assembly in these circumstances, the timetabling provisions of Statutes 6.1 and 6.2 may be waived.

8.2

In the event of force majeure rendering liaison with the majority of members of the Federation impossible, the Council shall take all measures necessary for the safety of the Federation's funds and its archives and for the custodianship of the Federation; but otherwise all activity of the Federation shall cease until conditions permit activities to be resumed.

Decision:

FIG Internal Rules 13 and 14

FIG Council proposes to amend item 13 and 14 of Internal Rules as follows:

Existing Provisions	Proposed Amendments	Rationale
13 Ad Hoc Commissions 13.1 In addition to the	13 (Blank)	This amendment reflects the fact that recent and current task forces were established to

Existing Provisions	Proposed Amendments	Rationale
<p>commissions, ad hoc commissions may be established by a vote of the General Assembly to carry out special technical assignments, projects or studies, including cross-commission activities. Ad hoc commissions will normally be established for a specified period and disbanded following the acceptance of their reports by the General Assembly. Their composition, chairs, terms of reference and work plans shall be approved by the Council.</p> <p>14 Task forces</p> <p>14.1 Task forces may be established by the Council to research and to advise on matters of an administrative or of a general policy nature. They will normally be of short duration and will be concluded on the presentation and acceptance of their reports by the Council and, where necessary, the General Assembly. Their composition, chairs, terms of reference and work plans shall be approved by the Council.</p>	<p>14. Task Forces</p> <p>14.1 Task Forces may be established by the Council to carry out special technical assignments, projects or studies, or to advise on matters of an administrative or general policy nature. They will normally be established for a specified period and disbanded following the acceptance of their reports by the Council and, where necessary, the General Assembly. Their composition, chairs, terms of reference and work plans shall be approved by the Council.</p>	<p>address matters that are more than just administrative or of a general policy nature.</p> <p>Task forces have been established to consider, research and report on matters that are technical, that are cross cutting as well as emerging issues that are of interest to the profession. They have therefore taken the place of ad hoc commissions, and the proposed deleting of internal rule 13 and amendment of internal rule 14 reflects this.</p>

Motion: That FIG General Assembly agree to amend FIG Internal Rule item no 13 and 14 to:

13 (Blank)

14. Task Forces

14.1

Task Forces may be established by the Council to carry out special technical assignments, projects or studies, or to advise on matters of an administrative or general policy nature. They will normally be established for a specified period and disbanded following the acceptance of their reports by the Council and, where necessary, the General Assembly. Their composition, chairs, terms of reference and work plans shall be approved by the Council.

Decision:

FIG Council has received two suggestions to review and amend FIG Statutes and Internal Rules. The first is from Geosuisse and the second from DdL. The suggestions are as follows

a) Geosuisse, Switzerland – change in the nomination process:

That the nomination process be changed in the following sense:

- No longer the member associations nominate a candidate directly. They can propose candidates to a respective nominating body;
- For Vice-presidents a regional body formed by the regional associations will have the right to nominate candidates. This makes it necessary that a candidate is better known and that every region has a representative. The regional bodies have to check if a candidate is eligible and has sufficient support, also in financial terms;
- For Commission Chairs Elect, the right to nominate should be with the Commissions themselves. They have to evaluate the candidates and to make sure that she/he is able to fulfil the responsibility. The Commissions are the only bodies that have sufficient knowledge of their national delegates and who are able to judge their eligibility. Commissions will discuss with the national association the candidate they wish to nominate.

b) DdL - Denmark – Term of Office

The term of office, as provided for under FIG Statutes 5.5, for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council and the term of office of the president is limited to one period of four years. *The term of office for the President, Vice Presidents and the ACCO representative starts immediately following their election* instead of the current provision, that's on 1st January in the year following their election.

Council has decided to invite Geosuisse and DdL to present their suggestions to the General Assembly, the presentation should not be more than 10 minutes with a period, no longer than 10 minutes, for general discussion and deliberations. FIG Council seeks guidance from the General Assembly on these suggested amendments.

Appendix to item 11:

Letter from Geosuisse, Switzerland and DdL, Denmark

Motion: That General Assembly provides guidance to the FIG Council on the suggestions forwarded by GeoSuisse and DdL.

Decision:

12 REPORTS FROM FIG COMMISSIONS AND FIG NETWORKS 2013-2014

Commission Chair, 2011-2014, is required to submit a written report on the Commission activities covering period from Working Week in Abuja to the General Assembly. These reports include reports of the Commission chair and Commission working groups. The reports include also the two FIG networks: Standards Network and Young Surveyors Network.

Each Commission and Network Chair will give a short report on Commission activities to the General Assembly.

Appendices to item 12: Commission reports:

- 12.01** Commission 1
- 12.02** Commission 2
- 12.03** Commission 3
- 12.04** Commission 4
- 12.05** Commission 5
- 12.06** Commission 6
- 12.07** Commission 7
- 12.08** Commission 8
- 12.09** Commission 9
- 12.10** Commission 10
- 12.11** Standards Network
- 12.12** Young Surveyors Network

Motion: That the General Assembly adopts the tabled reports of the Commission and Network Chairs and records its thanks to the chairs and other officers of the Commissions and Networks for their on going contributions.

Decision:

13 REPORTS OF TASK FORCES 2013-2014

FIG has currently three Task Forces: 1) FIG Africa Task Force (2009 – 2014), chaired by Dr. Diane Dumashie (RICS); 2) Task Force on Surveyors and the Climate Change (2011-2014) chaired by Prof. John Hannah (NZIS); and 3) Task Force on Property and Housing (2011-2014) chaired by Prof. Chryssy Potsiou (TCG/HARSE).

Each Chair will give a short report on activities of the Task Force to the General Assembly.

Appendices to item 13: Task Force reports:

- **13.1** FIG Africa Task Force
- **13.2** Task Force on Surveyors and the Climate Change
- **13.3** Task Force on Property and Housing

Motion: That the General Assembly adopts the tabled reports and records its thanks to the Chairs of the Task Forces and their members for their work and contributions.

Decision:

14 REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS 2013-2014

14.1 International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF

Mr. Christiaan Lemmen, Director of OICRF has prepared a report on the OICRF activities since the General Assembly in Marrakech. He will make a short report to the General Assembly.

Appendix to item 14.1: Report from the International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF.

Motion: That the General Assembly adopts the report and records its thanks to the members of OICRF for their past year's work and contribution.

Decision:

14.2 International Institution for the History of Surveying and Measurement, Permanent Institution of FIG

Mr. Jan de Graeve, Director of the IIHSM has prepared a report on the IIHSM activities since the General Assembly in Marrakech. IIHSM will make a short report to the General Assembly.

Appendix to item 14.2: Report from the International Institution for the History of Surveying and Measurement, Permanent Institution of FIG.

Motion: That the General Assembly adopts the report and records its thanks to the Director and the members of the permanent institution for their past year's work and contribution.

Decision:

15 REPORT OF THE PRESIDENT OF THE FIG FOUNDATION 2013-2014

Mr. John Hohol, President of the FIG Foundation has prepared a report on the FIG Foundation activities from May 2013 to April 2014. He will make a short report to the General Assembly.

Appendix to item 15: Report of the FIG Foundation activities 2013-2014

Motion: That the General Assembly adopts the report of the President of the FIG Foundation and records its thanks to the President and members of the Board of Directors of the FIG Foundation for their past year's work.

Decision:

16 CO-OPERATION WITH THE UNITED NATIONS AND THE WORLD BANK

Since the 36th General Assembly, FIG has continued to collaborate with the World Bank and various agencies and structures within the United Nations. The activities with these bodies are in the President's report, **appendix to item 8**.

Motion: That the General Assembly adopts the report on the co-operation between FIG and the United Nations, its agencies and the World Bank and records its thanks to all those who have contributed to this co-operation.

Decision:

17 LIAISON WITH INTERNATIONAL PROFESSIONAL ORGANISATIONS

The Joint Board of Spatial Information Societies JB-GIS was formally established during the FIG Working Week in Cairo in 2005 and meets annually during a major conference. The meeting of JB-GIS in 2013 was held in August 2013 where Prof. William Cartwright was retained as Chair for one further year. FIG has collaborative MoUs with a number of the organizations who are part of JB-GIS.

FIG has further bilateral agreements of co-operation with several other international associations like ISM, IFHP, CIB, ION, ICEC, FIABCI, IFHS, PAIGH and PAQS.

FIG is a member of the International Council for Science (ICSU) and working together with ISO and International Valuation Standards Committee (IVSC) on standards. FIG also joined the IPMS (International Property Measurement Standards) Coalition.

Co-operation with international and regional organisations are in President's report, **appendix to item 8**.

Motion: That the General Assembly records the report on the liaison with other international associations.

Decision:

18 ELECTION OF PRESIDENT FOR 2015-2018 – PRESENTATION OF CANDIDATE

The Council has received one nomination for the post of FIG President: Chryssy Potsiou, Technical Chamber of Greece. The profile template of the candidate is attached to this agenda. In the first session of the General Assembly the candidate will be given time (not more than 5 minutes) to introduce herself and make a presentation focussing on her ideas, goals and agenda for furthering FIG's objects and global stature.

The election, notwithstanding that there is only one candidate, will take place at the second session of the General Assembly by blind votes on Saturday 21 June. 2014

Appendices to item 18 and 29: Nomination templates of candidate to FIG President 1.1.2015-31.12.2018: Ms Chryssy Potsiou, TCG, Greece

Motion: That the General Assembly notes the presentation of the candidate, make its careful consideration at the election during the second session of the General Assembly on the 21 June.

Decision:

19 ELECTION OF TWO VICE PRESIDENTS FOR 2015-2018 – PRESENTATION OF CANDIDATES

The Council has received six nominations for the two posts of FIG Vice President:

- a) Yerach Doytsher, The Association of Licensed Surveyors in Israel;
- b) Diane Dumashie, RICS, United Kingdom;
- c) Kate Fairlie, SSSI, Australia;
- d) John Hannah, NZIS, New Zealand;
- e) Mikael Lilje, Swedish Professionals for the Built Environment, Sweden; and
- f) Rudolf Staiger, DVW, Germany

The profile templates of each candidate are attached to this agenda. In the first session of the General Assembly each candidate will be given equal time (not more than 5 minutes) to introduce her/him and make a presentation focussing on his/her ideas and goals for developing the FIG agenda to the General Assembly.

The elections will take place at the second session of the General Assembly by blind votes in on Saturday 21 June. The elections will take place one position at a time. If there will be no absolute majority in the first voting, second vote will be organised between those two candidates that have most votes.

Appendix to item 19 and 28: Profiles of the candidates for FIG Vice President 1.1.2015-31.12.2018:

- Yerach Doytsher, The Association of Licensed Surveyors in Israel;
- Diane Dumashie, RICS, United Kingdom;
- Kate Fairlie, SSSI, Australia;
- John Hannah, NZIS, New Zealand;
- Mikael Lilje, Swedish Professionals for the Built Environment, Sweden;
- Rudolf Staiger, DVW, Germany

Motion: That the General Assembly notes the presentations of the candidates, makes its careful consideration at the elections during the second session of the General Assembly on the 21 June.

Decision:

20 DECISION OF THE VENUE FOR FIG WORKING WEEK 2017 – PRESENTATION OF CANDIDATES

The FIG Working Weeks are organised by FIG together with the local member association. FIG will together with the local member association have full responsibility of the arrangements and of the financial result. This offers FIG better opportunities in terms of organising events and generating revenue. Therefore the Council has to ensure that all candidates are aware of the role of FIG and split of responsibilities for organising the Working Week. This General Assembly will decide on the host for the 2017 Working Week.

The FIG Council has received three bids to host the FIG Working Week 2017:

- Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI) with the National Land Survey of Finland (NLS) as partner in Helsinki
- Nepal Institution of Chartered Surveyors (NICS) in Kathmandu,
- Vietnam Association of Geodesy, Cartography and Remote Sensing (VGCR) in Hanoi

The Council has prepared a desktop summary on the bids and has also carried out an evaluation together with the FIG Office that will be presented at the General Assembly. In the summary report the following considerations, as laid out in the invitation documentation, are described for comparison:

1. Rotation of the conferences (region);
2. Country (hosting of earlier FIG events, experience);
3. Member association (its activeness, commitment to FIG and to FIG 2017, execution ability for local association);
4. Supporting organisations (local support to the Working Week, governmental support, financial support, general support);
5. Host city (characteristics and interest from congress programme point of view, host city attractiveness, host city offerings);
6. Venue (price/affordability, location of venue, internet availability suitability of rooms, size of venue, structure and layout of the venue, catering, value for money, hotels nearby facilities for exhibition);
7. Accessibility (flight connections, several access possibilities, security, visa issues, air fare to destination);
8. Safety and security (political stability, airport safety, city safety, political stability in the country - rating must be 3 or higher);
9. Proposed dates (must meet FIG requirements, Following FIG statutes, practical dates, availability of venue, other conferences at the same time)
10. Technical programme (coverage of all FIG Commissions, potential partners, originality, special ideas);
11. Technical tours (coverage of all FIG Commissions, originality, ideas proposed);
12. Social programme (attractiveness and variety, proposals for dinners, attractiveness of offered dinners, proposals for tours, is the programme following the overall FIG concept);

13. Attendance (expectation of international, regional and local attendance, realistic number of international and national participants);
14. Finances (estimate of surplus and financial risks, realistic fees proposed, fees in an acceptable price range, difference between international and national fees, realistic budget, estimated revenue);
15. Sponsorship (estimate sponsorship and exhibition income, proposed income, how realistic is proposed income, local sponsor offerings, sponsor interest to conference);
16. Why host (reason for hosting);
17. Objectives and outcomes (thought through why conference should be held at destination, difference to other destinations, short term outcome, long term outcome);
18. Suggested theme (thought of possible theme that fits to local/regional situation);
19. Events organised in the past three years (how experienced is the host in organising events)
20. Major events planned in the proposed city in 2017 (many events might affect the price level):
21. Initiatives for sustainable conference environment (is host city, venue and local host paying attention to environmental issues);
22. New initiatives or activities (originality – but within the overall FIG concept)
23. What legacy to leave locally from the Working Week (with host, hosting city, for the surveying community)

The summary report will not give a recommendation or a preference to any candidate but it will provide useful information on each items listed above and summarise the pros and cons of each candidate to assist the member association in making their decision. General Assembly must note that, especially in these past years, the issue of security and financial viability has come to the fore. The purpose of the evaluation process is to maintain the continued viability, high standard and quality of the FIG Working Week.

The Council has considered the bids and decided to present all submitted bids to the General Assembly for its decision. The General Assembly is recommended to read the summaries and the bids carefully.

Appendix to item 20 and 25:

Summary Report on the Bids for FIG 2017 Working Week

Bidding documents for FIG 2017 Working Week:

- Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI) with the National Land Survey of Finland (NLS) as partner in Helsinki
- Nepal Institution of Chartered Surveyors (NICS) in Kathmandu,
- Vietnam Association of Geodesy, Cartography and Remote Sensing (VGCR) in Hanoi

At the session each candidate will be given the same time (not more than 10 minutes) to make a presentation of their proposal and framework of the Working Week and their bid. FIG Council will present its evaluation and the impact on FIG on the various bids.

Decision on the venue of FIG 2017 Working Week will be made at the second session of the General Assembly on 21 June. The voting will be made by blind votes. If there will be no absolute majority in the first voting for any of the proposals, a second vote will be organised between those two candidates that have most votes.

Motion: That the General Assembly notes the submission, the summary report, the presentations and FIG's evaluation of the candidates, makes its careful consideration and decision during the second session of the General Assembly on 21 June.

Decision:

21 DECISION OF THE VENUE FOR FIG CONGRESS 2018 – PRESENTATION OF CANDIDATE

The FIG Congresses are organised by FIG together with the local member association. FIG will together with the local member association have full responsibility of the arrangements and of the financial result. This offers FIG better opportunities in terms of organising events and generating funds. Therefore the Council has to ensure that any candidates are aware of the role of FIG and split of responsibilities for organising the Congress. This General Assembly will decide on the host for the 2018 Congress.

The FIG Council has received one bid to host the FIG 2018 Congress:

- Turkish Chamber of Survey and Cadastre Engineers in Istanbul, Turkey

The Council has prepared a desktop summary on the bids and has also carried out an evaluation together with the FIG Office that will be presented at the General Assembly. In the summary report the considerations, as laid out in the invitation documentation, are described for comparison:

The summary report will not give a recommendation but it will provide useful information to assist the member association in making their decision. General Assembly must note that, especially in these past years, the issue of security and financial viability has come to the fore. The purpose of the evaluation process is to maintain the continued viability, high standard and quality of the FIG Congress.

The Council has considered and decided to present this submitted bids to the General Assembly for its decision, notwithstanding that there is only one candidate. The General Assembly is recommended to read the summary and the bid carefully.

Appendix to item 21 and 26:

Summary Report on the Bid for FIG 2018 Congress

Bidding document for FIG 2018 Congress by the Turkish Chamber of Survey and Cadastre Engineers in Istanbul, Turkey

The candidate will be given not more than 10 minutes to make a presentation of their proposal and framework of the Congress and their bid. FIG Council will present its evaluation and the impact on FIG. Decision on the venue of FIG 2018 Congress will be made at the second session of the General Assembly on 21 June.

Motion: That the General Assembly notes the submission, the summary report, the presentation and FIG's evaluation of the proposal, makes its careful consideration and decision during the second session of the General Assembly on 21 June.

Decision:

FRIDAY 20 JUNE, 2014

Friday, 20 June, 16:30-19:00
Tbc, Kuala Lumpur Convention Centre
Presidents' Meeting (by invitation only)

22 FIG PRESIDENT'S MEETING

Separate invitation to Presidents of the Member Associations.

SATURDAY 21 JUNE, 2014

Saturday, 21 June, 09:00–13:00 and 14:00-16:00
Ballroom 1, Kuala Lumpur Convention Centre
General Assembly, Second Session and Closing Ceremony

23 ROLL CALL

Vice President Rudolf Staiger to take the roll call.

Please note: The roll call will be done for member associations and affiliate members only. Delegates representing academic members, corporate members and correspondents as well as honorary presidents and honorary members will be entered in the records but they shall register before the meeting starts at the meeting venue to the staff of FIG Office. Since only member associations that have paid all their membership fees to the end of 2013 are allowed to vote at the meeting, a list of member associations that are not allowed to vote will be published on the FIG web site **15 May 2014**. Members who paid their arrears at the General Assembly will also be allowed to vote.

To be noted that the General Assembly has appointed Bern. Omo Akhigbe from NIS from NIS and Angel Yanakiev from CGS as tellers to this session of the General Assembly.

Appendix to items 2 & 23: Roll Call

Appendix to items 2 & 23: List of member associations that are not allowed to vote at the General Assembly because of unpaid membership fees for 2013 and earlier – will be posted 15 May 2014.

Motion: Those members present are recorded in the minutes.

Decision:

24 MEMBERSHIP

The Council will decide on other membership issues, if any, considered in Kuala Lumpur and bring them for the General Assembly for decision or information as necessary.

Motion: That the General Assembly decides on the membership issues based on the proposal of the Council.

Decision:

25 DECISION ON THE VENUE FOR 2017 FIG WORKING WEEK

Candidates for FIG 2017 Congress have made their presentations in the first session of the General Assembly and FIG Council has presented its evaluation. The decision will be made between:

- Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI) with the National Land Survey of Finland (NLS) as partner in Helsinki;
- Nepal Institution of Chartered Surveyors (NICS) in Kathmandu,
- Vietnam Association of Geodesy, Cartography and Remote Sensing (VGCR) in Hanoi.

The decision will take place by blind votes following the FIG statutes and internal rules. If there will be no absolute majority in the first round of voting, a second vote will be organised between those two candidates that have most votes.

Motion: This General Assembly decides the host and venue for FIG 2017 Working Week.

Decision:

26 DECISION ON THE VENUE FOR 2018 FIG CONGRESS

The sole candidate, Turkish Chamber of Survey and Cadastre Engineers, for hosting the FIG 2018 Congress in Istanbul, Turkey has made their presentation in the first session of the General Assembly. This General Assembly to affirm the sole candidate by voting to host the FIG 2018 Congress in Istanbul, Turkey.

Motion: That the General Assembly decides on the host and venue of FIG 2018 Congress

Decision:

27 APPOINTMENTS OF COMMISSION CHAIRS 2015-2018

According to the FIG Statutes and Internal Rules the General Assembly elected Commission Chairs Elect at its General Assembly in 2012 in Rome, Italy. These Chairs Elect will then

become Chairs of the Commissions for the next term of office, 2015-2018. Thus the General Assembly shall appoint at this meeting Commission Chairs for the term of office 1.1.2015-31.12.2018. Their respective nominating member associations have reconfirmed all nominated Chairs 2015-2018.

Appendix: Nomination form from 2012 and reconfirmation by association:

Commission 1:	Mr. Brian J. Coutts, NZIS, New Zealand
Commission 2:	Ms. Liza Groenendijk, GIN, Netherlands
Commission 3:	Mr. Enrico Rispoli, CNGeGL, Italy
Commission 4:	Ms. Angela Kesiena Etuonovbe, NIS, Nigeria
Commission 5:	Prof. Volker Schwieger, DVW, Germany
Commission 6:	Dr. Ivo Milev, USLMB, Bulgaria
Commission 7:	Ms. Gerda Schennach, OVG, Austria
Commission 8:	Mr. Kwame Tenadu, GhIS, Ghana
Commission 9:	Prof. Liao Jinping (Patrick), CIREA, China PR
Commission 10:	Mr See Lian Ong, RICS, United Kingdom

Young Surveyors Network: Ms. Eva-Maria Unger, OVG, Austria

Motion: That General Assembly unanimously appoints for term of office 1.1.2015-31.12.2018 as follows:

Commission 1:	Mr. Brian J. Coutts, NZIS, New Zealand
Commission 2:	Ms. Liza Groenendijk, GIN, Netherlands
Commission 3:	Mr. Enrico Rispoli, CNGeGL, Italy
Commission 4:	Ms. Angela Kesiena Etuonovbe, NIS, Nigeria
Commission 5:	Prof. Volker Schwieger, DVW, Germany
Commission 6:	Dr. Ivo Milev, USLMB, Bulgaria
Commission 7:	Ms. Gerda Schennach, OVG, Austria
Commission 8:	Mr. Kwame Tenadu, GhIS, Ghana
Commission 9:	Prof. Liao Jinping (Patrick), CIREA, China PR
Commission 10:	Mr See Lian Ong, RICS, United Kingdom
Young Surveyors Network: Ms. Eva-Maria Unger, OVG, Austria	

Decision:

28 ELECTION OF TWO VICE PRESIDENTS FOR 2015-2018

This General Assembly will elect two Vice Presidents for the term of office 1.1.2015-31.12.2018. The election will take place between: Yerach Doytsher, The Association of Licensed Surveyors in Israel; Diane Dumashie, RICS, United Kingdom; Kate Fairlie, SSSI, Australia; John Hannah, NZIS, New Zealand; Mikael Lilje, Swedish Professionals for the Built Environment, Sweden; and Rudolf Staiger, DVW, Germany.

The elections will take place by blind votes following the FIG statutes and internal rules. The elections will take place one position at a time. If there will be no absolute majority in the first voting, second vote will be organised between those two candidates that have most votes.

Motion: This General Assembly elects two Vice Presidents for the term 2015-2018.

Decision:

29 ELECTION OF PRESIDENT 2015-2018

General Assembly to affirm the sole candidate, Ms Chryssy Potsiou, by voting, as the President for the term of office 1.1.2015-31.12.2018.

Motion: This General Assembly elects a president for the term 2015 – 2018.

Decision:

30 REPORTS FROM ASSOCIATION, AFFILIATE, ACADEMIC AND CORPORATE MEMBERS FORUM (IF ANY)

During the congress there will be Member Association Forum, the Director General's/Affiliate Members Forum (in cooperation with UN-HABITAT/GLTN), Academic Members Forum (in cooperation with FAO) and Corporate Members Meeting. They may report back to the General Assembly on any issues that may need the endorsement of or are of general interest to the General Assembly.

Motion: That the General Assembly records the report(s)

Decision:

31 REPORTS FROM COMMISSIONS, NETWORKS AND TASK FORCES (IF ANY)

Commission Officers (ACCO), Commissions, Networks and Task forces will have their annual and other administrative meetings in Kuala Lumpur. They may report back to the General Assembly on any issues that may need the endorsement of or are of general interest to the General Assembly.

Motion: That the General Assembly records the report(s).

Decision:

32 REPORTS FROM PERMANENT INSTITUTIONS (IF ANY)

The permanent institutions will have various activities during the congress. They may report back to the General Assembly on any matters of general interest.

Motion: That the General Assembly records the report(s).

Decision:

33 REPORT FROM FIG FOUNDATION (IF ANY)

A meeting for FIG Foundation is organised in Kuala Lumpur and various activities are taking place during the Congress. They may report back to the General Assembly on any matters of general interest.

Motion: That the General Assembly records the report.

Decision:

34 REPORT ON THE FIG WORKING WEEK 2016 IN CHRISTCHURCH, NEW ZEALAND

Representatives from the Local Organising Committee from New Zealand Institute of Surveyors will give a presentation on preparations of FIG Working Week 2016.

Motion: That the General Assembly records the report.

Decision:

35 REPORT ON THE FIG WORKING WEEK 2015 IN SOFIA, BULGARIA

President Yanakiev Angel Krumov and Co-Conference Director Zlatan Zlatanov from the Chamber of Graduated Surveyors in Bulgaria will give a presentation on preparations of FIG Working Week 2015.

Motion: That the General Assembly records the report.

Decision:

36 OTHER MATTERS (WITH PRIOR NOTICE GIVEN TO COUNCIL)

FIG Council has received requests to table matters that may be of general interest to the General Assembly and has agreed to invite the following to address the General Assembly, the presentation should not be more than 10 minutes with a period, no longer than 10 minutes, for general discussion on the following –

- a) “World Hydrography Day”, Mustafa Iptes, International Hydrographic Organization

- b) Proposal for “International Day of the Surveyor”, Jean-Yves Pirlot and John Hohol, CLGE and NSPS
- c) “Geodesists and the Energy Turnaround”, Karl Friedrich Thoene, DVW

Motion: That the General Assembly records the reports for information.

Decision:

37 PRESENTATION OF CERTIFICATES OF APPRECIATION

CLOSING CEREMONY

**Member associations having unpaid membership fees for 2013 and earlier
and that are not allowed to vote at the General Assembly in Kuala Lumpur, Malaysia
June 2014 unless these arrears will be paid**

Situation 02 June 2014

Country	Acc. no.	Member associations	2013	2012	2011	Total arrears
Algeria	10001	Ordre des Géomètres-Experts Fonciers				0,00
Argentina	10002	Federación Argentina de Agrimensores FADA	537,60	537,60	302,52	1.377,72
Benin	10113	Ordre Des Geometres Experts Du Benin	127,68	134,40		262,08
Burkina Faso	10014	Association des Géomètres et Topographes du Burk	50,00			50,00
Cameroon	10015	Ordre National des Géomètres du Cameroun (OGEC	73,92	73,92		147,84
China	10120	China Land Science Society - CLSS	5.062,40			5.062,40
Costa Rica	10019	Colegio de Ingenieros Topógrafos de Costa Rica	2.132,48			2.132,48
Croatia	10020	Croatian Geodetic Society	2.472,96			2.472,96
Cyprus	10022	Cyprus Association of Rural and Surveying Engineer	324,80			324,80
Egypt	10026	Egyptian Comittee of Surveying and Mapping	448,00			448,00
Fiji	10028	Fiji Institute of Surveyors	56,00			56,00
Ghana	10034	Ghana Institution of Surveyors	2.009,28	1.276,80		3.286,08
Greece	10036	Hellenic Association of Rural and Surveying Engineer	2.105,60	1.521,00		3.626,60
Indonesia	10039	Ikatan Surveyor Indonesia	539,22			539,22
Iran	10040	Iranian Society of Surveyors (ISS)		4.480,00	6.425,00	10.905,00
Liberia	10119	Cadastral Surveyors Associatio	156,80			156,80
Lithuania	10053	Lithuanian Association of Surveyors LMA	448,00			448,00
Nigeria	10063	The Nigerian Institute of Quantity Surveyors	770,56			770,56
Palestina	10065	Licensed Surveyors Association in Palestine	50,00			50,00
Phillippines	10107	Geodetic Engineers of the Philippines, Inc.	1.120,00	1.120,00	1.100,36	3.340,36
Puerto Rico	10069	Colegio de Ingenieros y Agrimensores de Puerto Ric	2.329,60	2.329,60	2.198,96	6.858,16
Spain	10078	Colegio Oficial de Ingenieros Técnicos en Topografía	6.692,68			6.692,68
Syria	10082	Order of Syrian Engineers and Architects / OSEA	448,00	448,00	430,00	1.326,00
Tunisia	10086	Tunisian Association of Chartered Surveyors	443,52	443,52		887,04
Ukraine	10088	Ukrainian Society of Geodesy and Cartography	449,35			449,35

	Members in suspension - are allowed to vote
	Expelled but are trying to pay membership fee
	In danger of being expelled at GA 2014

**37th General Assembly
Kuala Lumpur 16 and 21 June 2014**

Roll Call

	<u>MEMBER ASSOCIATIONS</u>	16 June	21 June
1.	Algeria, People's Democratic Republic of Order of Land Surveyors Expert. (O.G.E.F), MA-10001 –In principle expelled but waiting for payment		
2.	*) Argentina Federación Argentina de Agrimensores FADA, MA-10002		
3.	Australia Surveying and Spatial Sciences Institute SSSI, MA-10004		
4.	Austria Österreichische Gesellschaft für Vermessung und Geoinformation (Austrian Society for Surveying and Geoinformation) OVG, MA-10005		
5.	Bahamas Bahamas Association of Land Surveyors, BALS, MA-10006		
6.	Belarus Land Reform Association, MA-10007		
7.	Belgium Union Belge des Géomètres-Experts Immobiliers, MA-10008		
8.	Benin Ordre des Géomètres Experts du Benin, MA-10113		
9.	Bosnia-Herzegovina Geodetic Association of Herceg-Bosnia, MA-10112		
10.	Brazil Sociedade Brasileira de Cartografia, Geodésia, Fotogrametria e Sensoriamento Remoto, MA-10011		
11.	Brunei Darussalam Brunei Institution of Geomatics, BIC, MA-10012		
12.	Bulgaria Union of Surveyors and Land Managers in Bulgaria, MA-10013		
13.	Bulgaria Chamber of Graduate Surveyors, MA-10108		
14.	Burkina Faso Association des Géomètres et Topographes du Burkina AGT-B, MA-10014		
15.	Cameroon Ordre National des Geometres du Cameroun OGEC (National Order of Cameroon Surveyors NOCS), MA-10015		
16.	Canada Canadian Institute of Geomatics CIG, MA-10016		
17.	China P.R. Chinese Society of Geodesy, Photogrammetry and Cartography, MA-10017		
18.	China P. R. China Institute of Real Estate Appraisers and Agents CIREA, MA-10102		
19.	China P. R. China Land Science Society CLSS, MA-10120		
20.	Costa Rica Colegio de Ingenieros Topógrafos de Costa Rica CFIA, MA-10019		
21.	Croatia Croatian Geodetic Society HGD, MA-10020		
22.	Congo, Democratic Republic of Federation of Geometers and		

	Surveyors – Congo, MA-10101		
23.	Cyprus Association of Rural Surveying Engineers of Cyprus, MA-10022		
24.	Cyprus Cyprus Association of Property Valuers, MA-10111		
25.	Czech Republic Czech Association of Certified Property Appraisers CSCOM, MA-10023		
26.	Czech Republic Czech Union of Surveyors and Cartographers CSVTS, MA-10024		
27.	Denmark Den danske Landinspektørforening DdL, MA-10025		
28.	Egypt Egyptian Committee of Surveying and Mapping ECSM, MA-10026		
29.	Estonia Eesti Geodeetide Ühing EGÜ (Association of Estonian Surveyors), MA-10027		
30.	Ethiopia Ethiopian Surveying Professionals Association (ESPA), MA-10115		
31.	Fiji Fiji Institute of Surveyors, MA-10028		
32.	Finland Suomen Maanmittausinsinöörien Liitto MIL (The Finnish Association of Surveyors), MA-10029		
33.	Finland Maanmittausalan ammattikorkeakoulu- ja opistoteknisten Liitto MAKLI ry, MA-10030		
34.	France Ordre des Géomètres-Experts OGE, MA-10031		
35.	France Association Française de Topographie AFT, MA-10032		
36.	Gabon Association des Professionnels de l'Ingenierie Topographique du Gabon, APIT-Gabon, MA-10122		
37.	Georgia Society of Professionals of Land Information Technologies SPLIT, MA-10099		
38.	Germany DVW – Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement, MA-10033		
39.	Ghana Ghana Institution of Surveyors GhIS, MA-10034		
40.	Greece Technical Chamber of Greece TEE, MA-10035		
41.	Greece Hellenic Association of Rural and Surveying Engineers HARSE, MA-10036		
42.	Hong Kong SAR, China The Hong Kong Institution of Engineering Surveyors HKInstES, MA-10100		
43.	Hungary Hungarian Society of Surveying, Mapping and Remote Sensing MFTTT, MA-10038		
44.	Indonesia Ikatan Surveyor Indonesia ISI, MA-10039		
45.	Iran, Islamic Republic of Iranian Professional Society of Surveying Engineers (ISS), MA-10040 SUSPENDED		
46.	Ireland The Irish Institution of Surveyors IIS, MA-10042		
47.	Israel Association of Licensed Surveyors in Israel ALSI, MA-10043		
48.	Italy Consiglio Nazionale Geometri e Geometri Laureati CNGeGL, MA-10044		
49.	Jamaica The Land Surveyors Association of Jamaica LSAJ, MA-10045		
50.	Japan Nippon Sokuryosha Renmei		

	(Japan Federation of Surveyors JFS), MA-10046		
51.	Kenya Institution of Surveyors of Kenya ISK, MA-10047		
52.	Korea, Republic of Korea Cadastre Survey Corporation, MA-10048		
53.	Kosovo Kosova Association of Surveyors, MA-10049		
54.	Latvia Latvian Associations of Surveyors LMB, MA-10050		
55.	Lebanon Ordre des Géomètres-Topographes du Liban, MA-10051		
56.	Liberia Cadastral Surveyors Association of Liberia CASUAL, MA-10119		
57.	Lithuania Lithuanian Association of Surveyors LMA , MA-10053		
58.	Lithuania Lithuanian Association of Property Valuers LTVA, MA-10052		
59.	Luxembourg Ordre Luxembourg des Géomètres OLG, MA-10054		
60.	Malaysia Association of Authorised Land Surveyors Malaysia AALSM, MA-10055		
61.	Mali Ordre des Geometres Experts du Mali OGE, MA-10117		
62.	Malta The Malta Institution of Surveyors, MA-10056		
63.	Mongolia Mongolian Association of Geodesy and Cartography MAGaC, MA-10098		
64.	Morocco Ordre National des Ingénieurs Géometres-Topographes ONIGT, MA-10059		
65.	Nepal Nepal Institution of Chartered Surveyors, MA-10110		
66.	Netherlands, The Geo-Information Netherlands, MA-10060		
67.	New Zealand New Zealand Institute of Surveyors NZIS, MA-10061		
68.	Nigeria Nigerian Institution of Surveyors NIS, MA-10062		
69.	Nigeria The Nigerian Institute of Quantity Surveyors NIQS, MA-10063		
70.	Nigeria Nigerian Institution of Estate Surveyors and Valuers NIESV, MA-10118		
71.	Norway Norges Jordskifte kandidatforening NJKF, faglig gruppe af Tekna and GeoForum, MA-10064		
72.	Palestinian Authority Licensed Surveyors Association in Palestine, MA-10065		
73.	Papua New Guinea Association of Surveyors of Papua New Guinea ASPGN, MA-10066		
74.	*) Philippines , Geodetic Engineers of the Philippines, Inc., MA-10107		
75.	Poland Stowarzyszenie Geodetow Polskich SGP Association of Polish Surveyors, MA-10067		
76.	Portugal Ordem dos Engenheiros, Colégio de Engenharia Geografica ORDENG Order of Engineers - College of Geographical Engineering, MA-10068		
77.	*) Puerto Rico, USA Colegio de Ingenieros y Agrimensores de Puerto Rico CIAPR College of Engineers and Land Surveyors of Puerto Rico, MA-10069		
78.	Romania Union of Romanian Geodesy, MA-10070		

79.	Romania Romanian Association of Private Surveyors APCGCR, MA-10105		
80.	Russian Federation Federal Service of State Registration, Cadastre and Cartography (Rosreestr), MA-10071		
81.	Russian Federation None commercial partnership “Self-regulated organization of activity of cadastral engineers”, MA-10121		
82.	Senegal Ordre National des Geomètres Experts du Senegal (ONGES), MA-10116		
83.	Serbia, Republic of Union of Surveying Engineers of Serbia, MA-10072		
84.	Slovak Republic Slovak Union of Surveyors and Cartographers, MA-10074		
85.	Slovak Republic Chamber of Surveyors and Cartographers KGK, MA-10075		
86.	Slovenia Association of Surveyors of Slovenia ZGS, MA-10076		
87.	South Africa, Republic of South African Council for Professional and Technical Surveyors PLATO, MA-10077		
88.	Spain Colegio Oficial de Ingenieros Técnicos en Topografía, MA-10078		
89.	Sri Lanka Surveyors’ Institute of Sri Lanka, MA-10079		
90.	**) St. Lucia The Institute of Surveyors, St. Lucia, Inc. ISSL (MA-10123)		
91.	Sweden Swedish professionals for the built environment, MA-10080		
92.	Switzerland geosuisse - Swiss Society of Geomatics and Landmanagement, MA-10081		
93.	Syria Order of Syrian Engineers and Architects OSEA, MA-10082		
94.	Togo Ordre des Géomètres du Togo OGT, MA-10084		
95.	Trinidad and Tobago Institute of Surveyors of Trinidad and Tobago, MA-10085		
96.	Tunisia Association Nationale des Ingenieurs Géomètres-Experts Tunisiens ANIGET, MA-10086		
97.	Turkey TMMOB Chamber of Surveying Engineers of Turkey, MA-10087		
98.	Ukraine Ukrainian Society of Geodesy and Cartography, MA-10088		
99.	United Kingdom Chartered Institution of Civil Engineering Surveyors ICES, MA-10090		
100.	United Kingdom The Royal Institution of Chartered Surveyors RICS, MA-10091		
101.	United States of America National Society of Professional Surveyors (NSPS), MA-10092		
102.	Uruguay Asociacion de Agrimensores del Uruguay, MA-10094		
103.	Vietnam Association of Geodesy, Cartography and Remote Sensing VGCR, MA-10095		
104.	Zimbabwe Survey Institute of Zimbabwe SIZ, MA-10097		
	*) to be expelled 16 June 2014 **) membership to be approved 16 June 2014	/102	/

	<u>AFFILIATES</u>		
1.	Afghanistan , Afghanistan Information Management Services (AIMS), AF-20038		
2.	Albania Central Office of Immovable Property Registration – IPRO AF- 20049		
3.	Argentina (Consejo Federal De Catastro De La Republica Argentina (C.F.C)), AF-20047		
4.	Azerbaijan , State Committee for Land and Cartography, State Aerogeodesy Corporation, AF-20048		
5.	Australia and New Zealand (ANZLIC), AF-20001		
6.	Belgium (General Administration of the Patrimonial Documentation), AF-20002		
7.	Brunei Darussalam (Survey Department) AF-20003		
8.	Cambodia, Kingdom of (Ministry of Land Management, Urban Planning and Construction), AF-20004		
9.	Chile (Servicio Hidrográfico y Oceanográfico de la Armada de Chile), AF-20005		
10.	China P. R. (China Land Surveying and Planning Institute), AF-20043		
11.	Colombia (Instituto Geográfico Agustín Codazzi, IGAC), AF-20006		
12.	Colombia (Alcaldía Mayor de Bogotá DC), AF-20046		
13.	Croatia (State Geodetic Administration of Republic of Croatia, DGU), AF-20042		
14.	Cyprus (Lands and Surveys Department), AF-20045		
15.	Denmark (Danish Geodata Agency), AF-20026		
16.	Fiji (Ministry of Lands and Mineral Resources), AF-20039		
17.	Finland (National Land Survey of Finland), AF-20030		
18.	Hungary (Institute of Geodesy, Cartography and Remote Sensing, FÖMI), AF-20009		
19.	Iceland (The Land Registry of Iceland), AF-20010		
20.	Iran, Islamic Republic of (National Cartographic Center)		
21.	Iraq, Republic of (General Directorate for Surveying, Ministry of Water Resources), AF-20031		
22.	Israel (Survey of Israel), AF-20040		
23.	Italy (Italian Society of Photogrammetry and Topography, SIFET), AF-20035		
24.	Jordan (Department of Lands & Survey), AF-20011		
25.	Lao People's Democratic Republic (National Geographic Department), AF-20028		
26.	Macedonia, FYROM (State Authority for Geodetic Works), AF-20019		
27.	Mexico (National Institute of Statistics, Geography and Informatics, INEGI), AF-20012		
28.	Moldova, Republic of (Agency for Land Administration and Cadastre of Republic of Moldova), AF-20041		
29.	Mongolia (Administration of Land Affairs, Geodesy & Cartography),		

	AF-20018		
30.	Namibia (Office of the Surveyor General), AF-20013		
31.	Nepal (Survey Department, Government of Nepal), AF-20021		
32.	Netherlands, The (Cadastre, Land Registry and Mapping Agency), AF-20025		
33.	Norway (Norwegian Mapping and Cadastre Authority), AF-20023		
34.	Romania (National Agency for Cadastre and Land Administration), AF-20020		
35.	Russian Federation (Siberian State Academy of Geodesy), AF-20029		
36.	Rwanda, Republic of (Ministry of Lands, Resettlement and Environment), AF-20016		
37.	Saudi Arabia, Kingdom of (Ministry of Municipal and Rural Affairs), AF-20017		
38.	Saudi Arabia General Commission for Survey (GCS), General Director for General Directorate of Geodesy and Land Survey (GLS)		
39.	Sri Lanka (Survey Department, Sri Lanka), AF-20044		
40.	Sweden (Lantmäteriet), AF-20027		
41.	Switzerland (Swiss Federal Office of Topography, swisstopo), AF-20033		
42.	USA (NOAA, National Geodetic Survey), AF-20024		
43.	USA (Cadastral Survey Bureau of Land Management, Dept. of the Interior, BLM), AF-20037		
		/43	/
	<u>CORRESPONDENTS</u>		
1.	Madagascar		
2.	Thailand		
3.	Tonga		
		/3	/
	<u>ACADEMIC MEMBERS</u>		
1.	Australia The University of Melbourne, AC-40002		
2.	Australia RMIT University, AC-40003		
3.	Australia University of New South Wales, AC-40004		
4.	Australia University of Southern Queensland, AC-40005		
5.	Australia University of Technology Sydney, AC-40006		
6.	Austria BOKU, Vienna, AC-40007		
7.	Belgium University of Applied Sciences Kaho Sint-Lieven, AC-40009		
8.	Belgium ECAM - Haute Ecole Leonard de Vinci, Département Construction, AC-40093		
9.	Belgium University of Liege, Unit of Geomatics, AC-40096		
10.	Belgium Antwerp Maritime Academy, AC-40123		
11.	Botswana University of Botswana, AC-40010		
12.	Brazil UNISINOS, AC-40011		
13.	Canada University of Calgary, AC-40012		
14.	Canada University of New Brunswick, AC-40013		
15.	Canada Université Laval, AC-40092		
16.	China P. R. School of Public Administration, AC-40091		

17.	China P. R. The University of Nottingham Ningbo China, AC-10126		
18.	Colombia Universidad Distrital, Facultad de Ingenieria, AC-40016		
19.	Colombia Universidad Distrital, Facultad del Medio Ambiente y Recursos Naturales, AC-40017		
20.	Colombia Universidad de los Andes, AC-40128		
21.	Croatia University of Zagreb, AC-40020		
22.	Cyprus Neapolis University Pafos, AC-40114		
23.	Czech Republic Brno University of Technology, AC-40107		
24.	Denmark Aalborg University, AC-40021		
25.	Ethiopia Institute of Land Administration, Bahir Dar University, AC-40103		
26.	Fiji/Oceania University of the South Pacific, AC-40053		
27.	Finland Aalto University School of Science and Technology, AC-40022		
28.	Finland Helsinki Metropolia University of Applied Sciences, AC-20023		
29.	Finland Rovaniemi University of Applied Sciences, AC-40129		
30.	France Ecole Supérieure des Géomètres et Topographes, AC-40024		
31.	Gabon Ecole Nationale du Cadastre et des Sciences Geographiques, ENCSG AC-40132		
32.	Germany Technische Universität München, AC-40026		
33.	Germany Anhalt University of Applied Sciences, AC-40025		
34.	Germany Technische Universität Berlin, AC-40027		
35.	Germany University of Stuttgart, AC-10127		
36.	Ghana University of Mines and Technology (UMaT), AC-40030		
37.	Greece School of Rural and Surveying Engineering, AC-40031		
38.	Hong Kong SAR, China The Hong Kong Polytechnic University, AC-40033		
39.	Hungary University of West Hungary, AC-40034		
40.	Ireland Dublin Institute of Technology, AC-40031		
41.	Israel Technion – Israel Institute of Technology, AC-40104		
42.	Jamaica University of Technology Jamaica, AC-40037		
43.	Kazakhstan East Kazakhstan State Technical University, AC-40112		
44.	Kazakhstan Kazakh National Technical University after K. I. Satpaev, AC-40125		
45.	Kosovo University of Prishtina, AC-40116		
46.	Latvia Riga Technical University, AC-40090		
47.	Lebanon Lebanese Canadian University, AC-40130		
48.	Lebanon Lebanese International University, LIU, AC-40130		
49.	Malaysia Universiti Teknologi Malaysia, Department of Geomatics Engineering, AC-40041		
50.	Mexico Universidad Autónoma de Nuevo León, AC-40101		
51.	Morocco IAV, Institut Agronomique et Vétérinaire Hassan II, AC-40118		
52.	Nepal Land Management Training Centre, AC-40089		
53.	Netherlands, The ITC International Institute for Geo-Information Science and Earth Observation, AC-40046		

54.	New Zealand University of Otago, AC-40047		
55.	Nigeria University of Lagos, AC-40049		
56.	Nigeria Nnamdi Azikiwe University, AC-40050		
57.	Nigeria Abia State Polytechnic, AC-40121		
58.	Norway Norwegian University of Life Sciences, Department of Mathematical Sciences and Technology, AC-40052		
59.	Norway Bergen University College, AC-40113		
60.	Palestine Authority Palestine Polytechnic University, AC40099		
61.	Poland Agricultural University of Krakow, AC-40054		
62.	Puerto Rico, USA Universidad de Puerto Rico, AC-40055		
63.	Puerto Rico, USA Polytechnic University of Puerto Rico, AC-40056		
64.	Romania 1 Decembrie 1918 University of Alba Iulia, AC-40058		
65.	Russian Federation Moscow State University of Geodesy and Cartography, Economic and Land Management, AC-40060		
66.	Russian Federation State University of Land Use Planning, AC-40061		
67.	Rwanda, Republic of INES-Ruhengeri, AC-40131		
68.	Saudi Arabia, Kingdom of "TECRS" The Environmental Center of Remote Sensing, AC-40117		
69.	Serbia, Republic of University of Novi Sad, Faculty of Technical Sciences, AC-40097		
70.	Slovenia University of Ljubljana, AC-40062		
71.	South Africa, Republic of University of Cape Town, AC-40063		
72.	Spain Universidad Polit3cnica de Madrid, AC-40064		
73.	Spain Universidad de Jaen, AC-40122		
74.	Sweden Lund University LTH, AC-40068		
75.	Sweden Royal Institute of Technology, AC-40067		
76.	Switzerland University of Applied Sciences Northwestern Switzerland, AC-40069		
77.	Trinidad and Tobago University of the West Indies, AC-40085		
78.	Turkey Istanbul Technical University, AC-40071		
79.	Uganda Makerere University, AC-40119		
80.	United Kingdom Kingston University, AC-40073		
81.	United Kingdom The University of Nottingham, AC-40078		
82.	United Kingdom Oxford Brookes University, AC-40074		
83.	United Kingdom Reading University , AC-40110		
84.	United Kingdom Sheffield Hallam University, AC-40076		
85.	United Kingdom University of the West of England, AC-40079		
86.	USA New Mexico State University, AC-40081		
87.	USA Texas A&M University – Corpus Christi, AC-40084		
88.	USA University of Houston, AC-40108		
89.	Multinational UNIGIS International Association, AC-40120		
		/89	/
	<u>CORPORATE MEMBERS</u>		
	Category A - Platinum level		
1.	Bentley Systems, CM-30035		
2.	Environmental Systems Research Institute, Inc. (ESRI), CM-30001		

3.	Leica Geosystems AG, CM-30002		
4.	Trimble Navigation Ltd., CM-30005		
	Category C - Silver level		
5.	COWI A/S, CM-30011		
6.	Geoweb S.p.A., CM-30043		
7.	Meridian+, CM-30049		
8.	The State Enterprise “State Land Cadastre Centre”, Ukraine CM-30054		
9.	Thomson-Reuters, CM-30024		
	Category D - Bronze level		
10.	GIM International – Geomares Publishing, CM-30012		
11.	KQ Geo Technologies, CM-30050		
12.	SEPRET (Société des Etudes de Projets et Réalisation des Travaux), CM-30031		
	Category E - Basic level		
13.	Derinsu Underwater Engineering Ltd., CM-30038		
14.	Global Survey Qatar, CM-30047		
	Category F - Regional level		
15.	Cameroon Engineering, CM-30027		
16.	Concord Surveying Works Co., CM-30048		
17.	Coordinates Magazines, CM-30042		
18.	Geo:connexion, CM-30018		
19.	Institut Cartogràfic de Catalunya, CM-30023		
20.	ISQ Portugal, CM-30051		
21.	JKO Surveyors & Consultants (Pvt) Ltd, Sri Lanka CM-30053		
22.	MundoGEO, Brazil, CM-30052		
23.	ORBITS Engineering Firm, CM-30036		
		/23	/
	HONORARY PRESIDENTS		
	HONORARY MEMBERS		
	COMMISSION CHAIRS 2011-2014		
	Commission 1 – Leonie Newnham		
	Commission 2 – Steven Frank		
	Commission 3 – Yerach Doytsher		
	Commission 4 – Michael Sutherland		
	Commission 5 – Mikael Lilje		

	Commission 6 – Gethin W. Roberts		
	Commission 7 – Daniel Roberge		
	Commission 8 – Wafula Nabutola		
	Commission 9 – Frances Plimmer		
	Commission 10 – Robert Sinkner		
	Young Surveyors Network		
	Standards Network		
	PERMANENT INSTITUTIONS		
	International Office of Cadastre and Land Records (OICRF)		
	International Institution for the History of Surveying and Measurement, Permanent Institution of FIG		
	FIG FOUNDATION – President John Hohol		
	FIG COUNCIL		
	President CheeHai Teo		
	Vice President Dr. Pengfei Cheng		
	Vice President Bruno Razza		
	Vice President Chryssy A. Potsiou		
	Vice President Rudolf Staiger		

International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure



International Federation of Surveyors

General Assembly

MINUTES

6 and 10 May 2013

Nicon Luxury Hotel, Abuja, Nigeria

INTERNATIONAL FEDERATION OF SURVEYORS**FIG 36th GENERAL ASSEMBLY****6 and 10 May 2013****Conference Hall, Nicon Luxury Hotel, Abuja, Nigeria****PROGRAMME**

Monday, 6 May 2013		
Nicon Luxury Hotel, Abuja, Nigeria		
Monday 6 May	09:00-12:00 13:00-15:00 Conference Hall at Nicon Luxury Hotel	General Assembly, First Session
Monday 6 May	16:00-18:00 Nicon Luxury Hotel, Pool Side Area	Welcome Reception
Tuesday, 7 May – Thursday, 9 May 2013		
FIG Working Week 2013		
International Conference Centre and Nicon Luxury Hotel		
www.fig.net/fig2013		
Wednesday 8 May	18:00-19:00 Tbc Nicon Luxury Hotel	Reception for participants of GLTN/FIG Surveyor Generals Roundtable, Presidents or Heads of Delegation of Member Associations and main sponsors (by invitation only)
Friday, 10 May 2013		
Conference Hall, Nicon Luxury Hotel		
Friday 10 May	08:30-10:30 Tbc Nicon Luxury Hotel	FIG President's Meeting For Presidents or Heads of Delegation of Member Associations (or their representatives) By invitation only
Friday 10 May	11:00–12:30 13:30-15:00 Conference Hall, Nicon Luxury Hotel	General Assembly, Second Session
Friday 10 May	15:00-16:00 Conference Hall, Nicon Luxury Hotel	Closing Ceremony Closing ceremony will start immediately after the General Assembly and will be followed by the Farewell Reception hosted by the Association of Authorised Land Surveyors Malaysia, (PEJUTA), host of FIG 25 th Congress 2014.

FIG 36th GENERAL ASSEMBLY

List of Minutes Items

Monday, 6 May, 09:00-13:00

1. OPENING PROCEEDINGS
2. ROLL CALL
3. APPOINTMENT OF TELLERS
4. ADOPTION OF THE AGENDA
5. ADOPTION OF THE MINUTES OF THE 35th GENERAL ASSEMBLY
6. MEMBERSHIP
7. PRESIDENT'S REPORT
8. REPORTS FROM FIG COMMISSIONS AND FIG NETWORKS 2012-2013
9. REPORTS OF FIG TASK FORCES 2012-2013
10. REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS 2012-2013
11. REPORT OF THE PRESIDENT OF THE FIG FOUNDATION 2012-2013
12. CO-OPERATION WITH THE UNITED NATIONS AND THE WORLD BANK
13. LIAISON WITH INTERNATIONAL PROFESSIONAL ORGANISATIONS
14. FIG ACCOUNTS FOR 2012, AUDITOR'S REPORT AND BUDGETS 2013-2016
15. SUBSCRIPTION RATES FOR 2015
16. VENUE FOR FIG WORKING WEEK 2017
17. REPORT ON THE FIG WORKING WEEK 2016 IN CHRISTCHURCH, NEW ZEALAND
18. REPORT ON THE FIG WORKING WEEK 2015 IN SOFIA, BULGARIA

Friday, 10 May, 08:30-10:30

19. FIG PRESIDENT'S MEETING

Friday, 10 May, 11:00–12:30 and 13:30-15:00

20. ROLL CALL
21. MEMBERSHIP
22. REPORTS FROM MEMBER ASSOCIATION'S FORUM; AFFILIATE (DIRECTOR-GENERAL'S) FORUM AND ACADEMIC MEMBERS FORUM
23. CO-OPERATION WITH FIG CORPORATE MEMBERS
24. REPORTS FROM ACCO
25. REPORT ON THE FIG CONGRESS 2014 IN KUALA LUMPUR, MALAYSIA
26. CLOSING PROCEEDINGS

FIG 36th GENERAL ASSEMBLY

MINUTES

for the meetings held on Monday 6th May and on Friday 10th May in Conference Hall, Nikon Luxury Hotel, Abuja, Nigeria

MONDAY, 6 MAY

**Monday, 6 May, 09:00-12:00 and 13:00-15:00
in Conference Hall, Nikon Luxury Hotel
General Assembly, First Session**

1. OPENING PROCEEDINGS

President CheeHai Teo opened the 36th General Assembly and welcomed the members and delegates to Abuja, Nigeria and the third General Assembly of the current four-year term.

The President expressed his gratitude to members and delegates for their participation and acknowledged the efforts of NIS and the local organising committee to assure the security and safety and a successful Working Week which is the biggest ever in FIG history, with 2500 participants from around 40 countries and with a very strong Nigerian attendance.

The President expressed condolences and the general assembly observed a moment of silence for the memory of those colleagues passed away after the General Assembly in Rome: Honorary President C. H. (Charlie) Weir, Canada, Honorary President William A Radlinski U.S.A., Honorary Member John van den Berg, Finland, Honorary Member Seppo Härmälä, Finland. Finally Volker Böder, a Commission 4 Vice-Chair who died in a tragic accident when on duty in September 2012.

The President welcomed Honorary President Stig Enemark to the meeting and noted several greetings and apologies that were received from member associations and other members.

2. ROLL CALL

Vice President Rudolf Staiger took the roll call. The roll call was made only for member associations. Delegates representing affiliate members, academic members, corporate members and correspondents as well as honorary presidents and honorary members were entered based on their registrations and information given to the FIG Office.

Referring to the decision of the General Assembly in 2006 only those member associations that had paid all their membership fees to the end of 2012 were allowed to vote at the meeting. A list of member associations that were not allowed to vote was published on the FIG web site on 12 April and updated on 5 May 2013.

Appendix to items 2 & 20: Roll Call

Appendix to items 2 & 20: List of member associations that are not allowed to vote at the General Assembly because of unpaid membership fees for 2012 and earlier. Updated 10 May 2013.

37 member associations out of 103 were present at this session which is more than one third of the membership needed for a quorum for the General Assembly. 34 member associations were allowed to vote.

Motion: That members present are recorded in the minutes.

Decision: The motion was adopted.

3. APPOINTMENT OF TELLERS

The General Assembly shall appoint two persons as tellers following the principle that the tellers will represent member associations hosting the preceding and the current General Assembly. Since Italy was not present this year, tellers from the current and the future host were suggested.

Motion: That the General Assembly appoints President Bode Adeaga from NIS, Nigeria and President Mohammad Azmi Mohd Zin from Malaysia.

Decision: The motion was adopted.

4. ADOPTION OF THE AGENDA

Motion: That the agenda be adopted with the addition to add to item 6 Membership: Appointment of Honorary member and to Item 8: Appointment of Commission 10 Chair Elect.

Decision: The motion was adopted.

5. ADOPTION OF THE MINUTES OF THE 35th GENERAL ASSEMBLY

Minutes have been circulated previously.

Appendix to item 5: Minutes of the General Assembly in Rome, Italy, May 2012, without appendices.

Motion: That the minutes be adopted as recorded.

Decision: The motion was adopted.

6. MEMBERSHIP

6.1 Acceptance of new member associations

6.1.1 Association des Professionnels de l'Ingenierie Topographique du Gabon, APIT Gabon

Association des Professionnels de l'Ingenierie Topographique du Gabon, APIT Gabon (MA-10122) has submitted an application to become a member association from Gabon. The association was constituted in 2011 and currently has 40 qualified members. The application meets the criteria for membership in FIG as a member association. The Council has considered the application and believes that the association meets criteria for membership of FIG as a member association.

Appendix to item 6.1.1: Membership application from Association des Professionnels de l'Ingenierie Topographique du Gabon, APIT Gabon

Motion: That the General Assembly admits the Association des Professionnels de l'Ingenierie Topographique du Gabon, APIT Gabon to become a member association of FIG.

Decision: The motion was adopted and the FIG President presented Mr. Nguema Ondo Samuel, President of APIT the membership certificate.

6.1.2 Bahamas Association of Land Surveyors (BALS)

Bahamas Association of Land Surveyors (BALS) was member of FIG until 2007 where they were expelled at the General Assembly. In 2013 FIG received their old arrears and Bahamas Association of Land Surveyors is applying to re-enter as member association. FIG Council has considered their application and believes that the association meets the criteria to be re-admitted into FIG as a member association.

Motion: That the General Assembly restore Bahamas Association of Land Surveyors (BALS) as member association of FIG.

Decision: The motion was adopted.

6.2 Other member association issues

6.2.1 The Society of Chartered Surveyors, Ireland

The Society of Chartered Surveyors has merged with RICS, United Kingdom, and has therefore terminated its membership with FIG since they are now represented through RICS. FIG Council has agreed to move the membership to RICS.

Motion: That the General Assembly records the decision of the Council to migrate the SCS membership in FIG to RICS.

Decision: The motion was adopted.

6.2.2 The Appraisal Institute, United States

The Appraisal Institute has decided to terminate their membership with FIG.

Motion: That the General Assembly records the decision of the Appraisal Institute to terminate their membership of FIG.

Decision: The motion was adopted with regrets.

6.3 Expulsion of member associations

Subscriptions of following member associations are more than three years in arrears:

- MA-10001 Ordre des Geometres-Experts Fonciers, Algeria
- MA-10114 Albania Association of Geodesy

The General Assembly has powers to expel from the Federation any member association whose fees are in arrears and shall under normal circumstances expel any member association whose fees are three years in arrears. (Article 4.3 of the Statutes). The FIG office has sent letters to these associations informing that if their membership fees are still in arrears at the time of the General Assembly in Abuja, then the General Assembly shall expel these member associations.

Motion: That the General Assembly expels the

- MA-10001 Ordre des Geometres-Experts Fonciers, Algeria
- MA-10114 Albania Association of Geodesy

from FIG membership.

Decision: The motion was adopted.

After acceptance of new member associations and expulsions the number of FIG member associations is 103 members from 87 Countries.

6.3.1 Ethiopian Surveying Professionals Association (ESPA)

MA-10115 Ethiopian Surveying Professionals Association (ESPA) is three years in arrears and was facing expulsion. The member association is keen on staying as member and has sent an application to apply for poor membership support. The council has considered the application and believed that the association meets the criteria for poor membership support.

Motion: That the General Assembly acknowledges the Council decision to grant Ethiopian Surveying Professionals Associations poor membership support.

Decision: The motion was adopted.

6.4 Other membership issues

Corporate members

The Council has admitted the following company to become a Corporate Member of FIG after the General Assembly in 2012:

- CM 30051 - ISQ Portugal (category F – regional level)

Following corporate members have terminated their membership since May 2012:

- CM-30009 - Grontmij nv, The Netherlands (category C –silver level)
- AED-SICAD Aktiengesellschaft, Germany (Category D – Bronze level)
- Mason Land Surveys CM-10015 (Category D- Bronze level) (added 5 May 2013)

The Council has expelled the following corporate members because of unpaid membership subscriptions:

- CM-30013 IGN France International, France (Category D – Bronze level)
- CM-30045 Hi-Target Survey Instrument CO, China (Category C – Silver level)

After these changes the number of corporate members is now 21.

Affiliate members

The Council has admitted the following national agency to become an affiliate member:

- AF-20046 Consejo Federal de Catastro de la Republica Argentina (C.F.C)

The Council has expelled following affiliate member because of unpaid membership subscriptions:

- AF-20032 Surveying Department, Dubai Municipality, United Arab Emirates

The number of Affiliate Members after these changes remains at 41.

Academic members

The Council has admitted the following universities and institutions to become an academic member:

- AC-40127 University of Stuttgart, Germany
- AC-40128 Universidad de los Andes, Colombia
- AC-40129 Rovaniemi University of Applied Sciences, Finland
- AC-40130 Lebanese International University, LIU, Lebanon
- AC-40131 INES-Ruhengeri, Rwanda
- AC-40132 Ecole Nationale du Cadastre et des Sciences Geographique, ENCSG, Gabon

The Council has expelled following universities because of unpaid membership subscriptions:

- AC-40008 Arabian Gulf University, Bahrain
- AC-40014 Universidad de Concepcion, Chile
- AC-40095 National Water Research Center, Egypt
- AC-40100 The National Research Institute of Astronomy & Geophysics, Egypt

The number of Academic Members after these changes is 92

Correspondents

At its meeting 4/2011 Council has decided to terminate the appointment of correspondents from Bahrain, Bhutan, Eritrea, Gabon, India, Lesotho, Peru, Saint Lucia WI, Tanzania and Tuvalu at the end of 2012.

After these decisions the number of correspondents is 3.

Motion: That the General Assembly notes the actions that the Council has taken with other membership matters.

Decision: The motion was adopted.

6.5 Appointment of Honorary Member

The National Land Survey of Finland and the Finnish Association of Geodetic and Land Surveyors have together sent a nomination letter that proposed FIG Director Markku Villikka as an honorary member of FIG.

According to paragraph 3.1.7 in the statutes “honorary member: an individual who has materially assisted the development and promotion of the surveying profession at the international level”.

The nomination was presented to the General Assembly by Director Arvo Kokkonen, National Land Survey of Finland

Appendix to item 6.5: The nomination letter from the National Land Survey of Finland and the Finnish Association of Geodetic and Land Surveyors.

Motion: That the General Assembly approves the application to appoint FIG Director Markku Villikka Honorary Member.

Decision: The General Assembly appointed FIG Director Markku Villikka an Honorary member of FIG with a standing ovation. The badge with silver oak leaves and Certificate of Appointment as Honorary Member for his services and contribution to the Federation was presented to Markku Villikka after the Working Week in Finland by President CheeHai Teo.

7. PRESIDENT'S REPORT

President CheeHai Teo has prepared the President's report on the activities of the President and the Council since the General Assembly in Rome in May 2012. The report was presented to the General Assembly.

Appendix to item 7: Hand-outs of the presentation

Motion: That the General Assembly accepts the President's report.

Decision: The motion was adopted.

8. REPORTS FROM FIG COMMISSIONS AND FIG NETWORKS 2012-2013

Each Commission Chair, 2011-2014, has submitted a written report on the Commission activities covering period from Working Week in Rome to Working Week in Abuja. These reports include reports of the Commission chair and Commission working groups. The reports include also the two FIG networks: Standards Network and Young Surveyors Network.

Each chair or chair elect apart from Commission 9, who was not represented, gave a brief report on their respective Commission key activities at the meeting.

Appendices to item 8: Commission reports:

8.01 Commission 1

8.02 Commission 2

8.03 Commission 3

- Hand-outs of the presentation

8.04 Commission 4

- Hand-outs of the presentation

8.05 Commission 5

8.06 Commission 6

- Hand-outs of the presentation

8.07 Commission 7

8.08 Commission 8

8.09 Commission 9

8.10 Commission 10

- Hand-outs of the presentation

8.11 Young Surveyors Network

8.12 Standards Network

Motion: That the General Assembly note the reports of the Commission and Network Chairs and records its thanks to the chairs and other officers of the Commissions and Networks for their on going contributions.

Decision: The motion was adopted and the General Assembly recorded its thanks to all chairs and Commission officers for their work during the past year.

8.13 Appointment of Commission 10 Chair Elect

The selection of Commission 10 Chair Elect was deferred in Rome as there were no candidatures. FIG has received an application from RICS for **See Lian Ong**, for the position as Commission 10 Chair Elect. FIG Office has not received any other nominations. FIG Council decided at its meeting on 5 May 2013 to bring this application forward to General Assembly for approval.

Appendix to item 8.13: Application form from RICS to appoint See Lian Ong as Commission 10 Chair elect.

Motion: That the General Assembly approves the application of See Lian Ong, RICS for the position as Commission 10 Chair Elect.

Decision: The motion was adopted.

8.14 Young Surveyors Network

Having had discussion with Eva-Maria Unger (OVG, Austria), President Gert Steinkellner (OVG,- Austria) and Chair of YSN, Kate Fairlie (SSSI, Australia), Council has decided to nominate Eva-Maria Unger, the current Secretary of YSN as the chair-elect of the Young Surveyors Network (2015 – 2018).

The President suggested that in the future, the chair-elect of YSN could be selected together with the selection of chair-elects of Commissions by the General Assembly.

Motion: That the General Assembly approves the nomination.

Decision: The motion was adopted.

9. REPORTS OF FIG TASK FORCES 2012-2013

FIG has currently three Task Forces: 1) FIG Africa Task Force (2009 – 2014), chaired by Dr. Diane Dumashie (RICS, United Kingdom); 2) Task Force on Surveyors and the Climate Change (2011-2014) chaired by Prof. John Hannah (NZIS, New Zealand); and 3) Task Force on Property and Housing (2011-2014) chaired by Prof. Chryssy Potsiou (HARSE/TCG, Greece).

Appendices to item 9: Task Force reports:

- **9.1** FIG Africa Task Force
 - Handouts of PowerPoint presentation
- **9.2** Task Force on Surveyors and the Climate Change
- **9.3** Task Force on Property and Housing – to be added
 - Handouts of PowerPoint presentation

Motion: That the General Assembly records all Task Force reports and records its thanks to the Chairs of the Task Forces and their members for their work and contributions.

Decision: The motion was adopted.

10. REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS 2012-2013

10.1 International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF

Mr. Christiaan Lemmen, Director of OICRF had prepared a report on the OICRF activities since the General Assembly in Rome. He made a brief report orally at the General Assembly.

Appendix to item 10.1: Report from the International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF.

Motion: That the General Assembly adopts the report and records its thanks to the members of OICRF for their past year's work and contribution.

Decision: The motion was adopted.

10.2 International Institution for the History of Surveying and Measurement, Permanent Institution of FIG

Mr. Jan de Graeve, Director of the IIHSM had prepared a report on the IIHSM activities since the General Assembly in Rome. John Brock on behalf of IIHSM made a short oral presentation at the General Assembly.

Appendix to item 10.2:

- Report from the International Institution for the History of Surveying and Measurement, Permanent Institution of FIG.
- Hand-outs of the presentation.

Motion: That the General Assembly adopts the report and records its thanks to the Director and the members of the permanent institution for their past year's work and contribution.

Decision: The motion was adopted.

11. REPORT OF THE PRESIDENT OF THE FIG FOUNDATION 2012-2013

Mr. John Hohol, President of the FIG Foundation had prepared a report on the FIG Foundation activities from May 2012 to February 2013. He made a brief report orally at the General Assembly.

Appendix to item 11: Report of the FIG Foundation activities 2012-2013

Motion: That the General Assembly adopts the report of the President of the FIG Foundation and records its thanks to the President and members of the Board of Directors of the FIG Foundation for their past year's work.

Decision: The motion was adopted

12. CO-OPERATION WITH THE UNITED NATIONS AND THE WORLD BANK

The main partners in the co-operation with the United Nations and the World Bank since the FIG Working Week in Rome have been:

- World Bank
- United Nations Global Geospatial Information Management
- United Nations Human Settlement Programme (UN-HABITAT)
- Global Land Tool Network
- Food and Agriculture Organization (FAO)
- United Nations Group of Experts on Geographical Names (UNGEGN)
- United Nations Regional Conference for Cartography (UNRCC)
- United Nations Office for Outer Space Affairs (UNOOSA)
- United Nations Economic Commission for Africa (UNECA)
- United Nations Regional Committee on Global Geospatial Information Management for Asia and the Pacific (UN-GGIM-AP)

The activities with these bodies are described in the President's report, **appendix to item 7**.

Motion: That the General Assembly adopts the report on the co-operation between FIG and the United Nations, its agencies and the World Bank and records its thanks to all those who have contributed to this co-operation.

Decision: The motion was adopted

13. LIAISON WITH INTERNATIONAL PROFESSIONAL ORGANISATIONS

The Joint Board of Spatial Information Societies JB-GIS was formally established during the FIG Working Week in Cairo in 2005 and meets annually during a major conference. The meeting of JB-GIS in 2012 was held in Melbourne, Australia, during the ISPRS Congress where Prof. William Cartwright was retained as Chairperson for further one year.

Co-operation with international and regional organisations is described in President's report, **appendix to item 7**.

FIG has further bilateral agreements of co-operation with several other international associations; ISM, IFHP, CIB, ION, ICEC, FIABCI, IFHS and PAQS. Some of the partners are also working together within the Habitat Professionals Forum.

FIG is a member of the International Council for Science (ICSU) and is working together with ISO and International Valuation Standards Committee (IVSC) on standards.

Motion: That the General Assembly records the report on the liaison with other international associations.

Decision: The motion was adopted.

14. FIG ACCOUNTS FOR 2012 AND AUDITOR'S REPORT AND BUDGETS 2013-2016

Vice President Bruno Razza and former Vice President Iain Greenway had jointly prepared a report on the FIG Financial issues. This report includes summary of 2012 accounts, an updated budget for 2013 and proposals for budgets 2014-2016 with notes and proposal for membership fees for member associations in 2015. Vice President Rudolf Staiger presented the report at the General Assembly in the absence of Vice President Bruno Razza.

The Auditors Report includes the auditors report from 2012, official accounts (income statement 2012) and balance sheet 31 December 2012.

Appendix to item 14:

- Report on Financial Issues (including 2012 accounts and budgets 2013-2016)

Annexes:

- **14A** Auditor's Report, Income Statement for 2012 and Balance Sheet at 31 December 2012.
- **14B** FIG Result 2012
- **14C** FIG Budgets 2013-2016
- **14D** List of member associations whose membership fees are in arrears for 2012 and earlier and that are not allowed to vote, will be published on the FIG web site **10 April 2012**.
- **14E** Vice President Staiger's finance presentation at the General Assembly – handouts of the presentation

Motion: That the General Assembly

- adopts the audited accounts for 2012 and
- adopts budgets for 2013–2016

Decision: The motion was adopted

15. SUBSCRIPTION RATES FOR 2015

The General Assembly has to set levels of fees for member associations two years in advance of the year in which they become payable. Fees are payable in respect of each individual member up to a maximum of 5,500 members. Membership fee structure was changed in 2009. Membership fees have been discussed as part of the finance report, **appendix to item 14**.

The 2012 General Assembly approved membership fees for 2014 as follows:

<u>Year</u>	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2014	4.48 € per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay 2.24 € member up to a maximum of 5,500 members.	20 members or 50 € (whichever is greater)	5,500 members (24,640 €)

The World Bank lists of the low-income economies and the lower-middle-income economies are available at: <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>

The Council proposes to the General Assembly to keep the membership fees for member associations for 2015 at the same level as endorsed by the General Assembly in 2012 for 2014. In the draft budgets for 2013-2016 the membership fees are planned to be kept at the 2013 level for all membership categories for 2013-2015.

In addition, Council has looked again at the maximum fee, which is currently set at 5,500 members. Council considered holding this to a fixed monetary amount, or adjusting the number of members, and have concluded that it would be appropriate to fix it at 5,500 members or €25,000, whichever is the lower – this would be the maximum that any Member Association would pay to be a member of FIG. The current maximum is 5,500 members x €4.48 = €24,640; the cap of €25,000 would apply once the subscription rate has increased by 1.5% or more.

In the ensuing discussion, a member association opined that the level of subscription be allowed to rise but found no further support from the General Assembly.

Motion: That the General Assembly adopts following membership fees payable by member associations in 2015:

<u>Year</u>	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2015	4.48 € per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay 2.24 € member up to a maximum of 5,500 members.	20 members or 50 € (whichever is greater)	5,500 members (24,640 €)

and to fix the maximum fee payable by a member association at 5,500 members or €25,000, whichever is the lower.

Decision: The motion was adopted

16. DECISION OF THE VENUE FOR FIG WORKING WEEK 2017

The FIG Working Weeks are organised by FIG together with the local member association. FIG and the local member association will together have full responsibility of the arrangements. The Council has to ensure that all candidates are aware about the role of FIG and split of responsibilities for organising the Working Week. FIG Council has lately worked on defining the split of responsibilities between the local association and FIG, and has therefore decided to postpone the bid for 2017 by one year to allow time to evaluate the current concept. The bid material for 2017 Working Week will be published Summer 2013 and deadline for bids for 2017 will be 30 November 2013. The decision on venue for 2017 will be made at the General Assembly in Kuala Lumpur, Malaysia, June 2014.

Motion: That the General Assembly records postponement of the decision of venue for FIG Working Week 2017 until the General Assembly in Kuala Lumpur, Malaysia, June 2014.

Decision: The motion was adopted.

17. REPORT ON THE FIG WORKING WEEK 2016 REPORT ON THE FIG WORKING WEEK 2016 IN CHRISTCHURCH, NEW ZEALAND

Mr Brian Coutts of the New Zealand Institute of Surveyors, the co-organizer of FIG Working Week 2016 gave a presentation on preparations of FIG Working Week 2016.

Appendix to item 17: hand-outs of the presentation

Motion: That the General Assembly records the report for information.

Decision: The motion was adopted

18. REPORT ON THE FIG WORKING WEEK 2015 IN SOFIA, BULGARIA

President Angel Yanakiev and Co-Congress Director Zlatan Georgiev Zlatanov from the Chamber of Graduated Surveyors gave a presentation on preparations of FIG Working Week 2015 and showed a film.

Appendix to agenda item 18:

- Report for FIG Working Week 2015 in Sofia Bulgaria
- Hand outs of the presentation
- Video that was showed at the General Assembly

Motion: That the General Assembly records the report for information.

Decision: The motion was adopted.

FRIDAY 10 MAY, 2013

**Friday, 10 May, 08:30-10:30
Tbc, Nicon Luxury Hotel**

Presidents' Meeting (by invitation only)

19. FIG PRESIDENT'S MEETING

A total of 36 persons attended this Presidents' Meeting out of which 30 were Presidents or Heads of delegations. At the meeting challenges facing the member associations and relations between member associations and FIG were discussed as well as experiences from the FIG Working Week 2013. A separate memorandum of this meeting is circulated to the participants of the meeting and to the Presidents of member associations.

Appendix to item 19:

19.1: Invitation to Presidents of FIG member associations

19.2: Summary Notes of the Presidents' meeting

**Friday, 10 May, 11:00–12:30 and 13:30-15:00
Conference Hall, Nicon Luxury Hotel
General Assembly, Second Session**

20. ROLL CALL

Vice President Rudolf Staiger took the roll call.

The roll call was made only for member associations. Delegates representing affiliate members, academic members, corporate members and correspondents as well as honorary presidents and honorary members were entered in the records based on their registration and information given to the FIG Office.

Appendix to items 2 & 20: Roll Call

Appendix to items 2 & 20: List of member associations that are not allowed to vote at the General Assembly because of unpaid membership fees for 2012 and earlier.

38 member associations out of 103 were present at this session which is more than one third of the membership needed for a quorum for the General Assembly. 35 member associations were allowed to vote.

Motion: That present members are recorded in the minutes.

Decision: The motion was adopted.

21. MEMBERSHIP

There was no new items related to membership for consideration.

Motion: That the General Assembly take note of any development since the first session.

Decision: The motion was adopted

22. REPORTS FROM MEMBER ASSOCIATION'S FORUM; AFFILIATE (DIRECTOR-GENERAL'S) FORUM AND ACADEMIC MEMBERS FORUM

Member associations, Affiliate (Director Generals) and Academic members held their fora during the Working Week.

Christiaan Lemmen reported back from the Director General's forum which was extended to 4 sessions and was organised in cooperation with UN-HABITAT and GLTN.

Appendix to item 22: Hand-outs from GLTN/DG forum

Motion: That the General Assembly records the reports.

Decision: The motion was adopted

23. CO-OPERATION WITH THE FIG CORPORATE MEMBERS

A meeting for FIG Corporate Members was organised in Abuja (Thursday 9 May 09:00 - 10:30 Corporate Members' Meeting), and Brent Jones, ESRI gave a short report from the meeting.

Appendix to item 23: Hand-outs from Corporate meeting

Motion: That the General Assembly records the report.

Decision: The motion was adopted.

24. REPORTS FROM COMMISSIONS AND TASK FORCES

Commission Officers (ACCO), Commissions and Task forces had their annual and other administrative meetings in Abuja and each chair/chair elect reported back to the General Assembly on the main outcome of the meetings. None of these require an endorsement of the General Assembly at this stage..

Motion: That the General Assembly records the reports and decides on any recommendations arising from the reports.

Decision: The motion was adopted.

25. REPORT ON THE FIG CONGRESS 2014 IN KUALA LUMPUR, MALAYSIA

President Mr Mohammad Azmi Mohd Zin from the Association of Authorised Land Surveyors Malaysia and representatives of the Local Organising Committee gave a presentation on preparations of the 25th FIG Congress in Kuala Lumpur, Malaysia.

Appendix to item 25:

- Hand-outs of presentation
- Video

Motion: That the General Assembly records the report for information.

Decision: The motion was adopted.

26. CLOSING CEREMONY AND PRESENTATION OF CERTIFICATES OF APPRECIATION

President CheeHai Teo presented a summary of the main outcome and highlights of the FIG Working Week 2013 and thanked all parties, participants and accompanying persons for a memorable event.

Appendix: Handouts of the President's Closing Address.

At the Closing Ceremony certificates of appreciation were given to Bode Adeaga, President of NIS, Congress Director Barde Jatau, Secretary General of NIS Olumide Adewebi, Admin. Secretary of NIS and Conference Coordinator of FIG 2013 Olatunde O. Adejanyu, as well as other members of the organising committee and officials.

At the end of the closing ceremony the FIG banner was handed over by Bode Adeaga, President of NIS to Mr. Mohammed Azmi, President of PEJUTA. The FIG Congress will be held in Kuala Lumpur, 16-21 June 2014. President Teo formally closed the 36th General Assembly of FIG as well as the Working Week.

International Federation of Surveyors

Application form for Membership as a Member Association

1. **Name of Association**

THE INSTITUTE OF SURVEYORS (ST. LUCIA) INC.

2. **Address** . . .

P.O. BOX GM 798
GABLE WOODS MALL,
CASTRIES.
ST. LUCIA
WEST INDIES

3. **Telephone no** .

+1 758 456 0197

4. **Fax no.**

+1 758 452 6161.

5. **E-mail addresses:**

President: Mr Winsbert Felix <w.r.felix@gmail.com>
Secretary: Mr.Clive Hippolyte <clivehipp@hotmail.com>;

Home page address. . . .WWW.ISSLU.COM .

Logo



6. **Name of President** . . .Mr. Winsbert Felix, since 2011.

7. **Administration Address**

The Institute of Surveyors (St. Lucia) Inc. (hereafter ISSL or the Institute) address has always been that of the current secretary and those of his/ her staff. The Institute does not have a permanent office, nor permanent staff

8. **Date of Formation**

The Institute was registered under the Registry of Companies of St. Lucia, on September 26, 2003. The Institute's Articles of Incorporation and By-Laws were ratified on October 17,

2003. The Institute is a 'not for profit company'. It should be noted that ISSL is now 10 years old.

9. Objectives of ISSL

A summary of the ISSL objectives are

- * advance the practice of the sciences and technologies of land surveying and mapping, valuation and land economy, quantity surveying, building surveying, geomatics and the development of information systems for the proper management of the land and marine resources of Saint Lucia;
- * collect and disseminate information relating to the science of surveying and to the other sciences incidental thereto by appropriate means to the profession and the public;
- * consider all questions affecting the interests of the profession, and if necessary, to petition parliament or other bodies in relation to measures affecting the profession and promote improvements;
- * encourage and ensure that the profession of surveying shall be conducted in an honourable and becoming manner and restrain and discourage all conduct which is against these principles;
- * advertise and promote in a manner that is not injurious to the public or to the dignity of the surveying professions and report or expose without fear and favour, any illegal and unethical professional decisions or practices of members;

and

- * hold paramount ISSL obligation's towards humanity and the environment and devote themselves to high ideals of personal honour and professional integrity.

((Extracted from the Articles of Incorporation - By laws 4.1 through 4.1.7, and the Code of Conduct especially under the Summary of Rules (page 2)).:

10. Routes of entry to ISSL membership

According to the Articles of Incorporation, Section 5, there are 6 classes of membership as follows:

Fellow members; Honorary members; Ordinary members; Affiliate members;
Technical members and Student members.

For entry into ISSL an appropriate bachelors degree is required plus 2 years practice under the supervision of an approved ISSL member as a supervisor.

As suitable land survey related degree courses are not available in St.Lucia, it is usual that applicants hold degrees from the University of the West Indies (UWI) from the St. Augustine Campus, Trinidad and Tobago - such as a BSc in Geomatics or a BSc in Valuation and Land Management; or Surveying and Land Information. Applicants also come from the University of Technology, Jamaica with its BSc programmes in land surveying and GIS plus valuation and real estate management. Others are from: UK land management degrees, and RICS qualifications and membership.

New applicants require a two year professional experience programme on completion of academic training. This is done under the supervision of an approved ISSL member as supervisor, before full membership is gained.

Continuing Professional Development (CPD) - (from the Code of Conduct pages 13 through 15). The Rules state that it is mandatory or an 'Obligation' to undertake CPD. This will be strengthened under the enactment of amendments to the Surveyor's Act, 1984 as amended in 2000, in 2014.

For Technician or sub-professional members to advance to full membership requires a two year professional experience programme under the supervision of an approved ISSL member as supervisor.

11. Numbers of Members

The ISSL has the following numbers of members:

No. of full members:	qualified: 66
	qualifying: 2
No. of technician or sub-professional members	qualified: 12.
	qualifying: 5
Totals	78 and 85

12. Specialisations

Percentage of **qualified members** have principal specialisations as follows:

	#	%
• Agriculture Surveying	5	(6.5%)
• Quantity Surveying:	41	(52%)
• Land survey/ cadastre/ land management	14	.. (18%).....
• Valuation/real estate management	13	... (17%)
• Building surveying/ management	. 5	.. (.6.5%)

13. Statutory Recognition

The Institute of Surveyors (St. Lucia) Inc is registered under the Registry of Companies, St. Lucia, This was first done in September 2003.....

Those land surveyors who undertake cadastral surveys and legal boundary definition of both private and public lands, must be qualified and licensed under the St. Lucia Surveyors Act, 1984. In 2013 there are 18 such 'licensed surveyors'

In St Lucia, some Engineers perform quantity surveying and property valuation services as well as topography and engineering surveying without licenses. These grandfather

provisions are due to address those issues in the amendments to the Surveyors Act planned for 2014.

14. Employment

The percentage of qualified members engaged in various sectors are:

- self-employed and employed in private practice. 77%
- teaching. 1%
- employed by government.20%
- employed in the commercial or other sectors.2%

15. Subscriptions

The annual subscription payable to ISSL by each of grade of membership is:

Fellow member	US\$ 148
Honorary member	US\$ 0
Ordinary member	US\$ 148
Affiliate member	US\$ 74
Technician member	US\$ 74
Student member	US\$ 18.50

16. Services to members

The ISSL carries out the following services for members and interested parties:

1. It publishes a 'Directory of Members' - the latest printed version was in 2011/2012; however, it is now presented and maintained up-to-date on the above web site;
2. Related 'Career' guidance presentations are made to selected secondary schools;
3. Regular CPD sessions are conducted for ISSL members;
4. In 2011 and 2012 selected networking meetings were held with other professionals including engineers, architects and lawyers;
5. On application it may partly sponsor ISSL members to present papers at related conferences in the West Indies .
6. Regulate the conduct of members and investigate and hear client complaints concerning any member
7. Conduct advocacy on matters of interest to members and the Institute.

.....

-- end of Application --

This Application is e-mailed to FIG office: International Federation of Surveyors, Kalvebod Brygge 31-33, DK-1780 Copenhagen V, DENMARK, E-mail: FIG@fig.net, tel. + 45 3886 1081, fax + 45 3886 0252

The ISSL booklets- the Code of Conduct and the Articles of Incorporation and By-Laws - are attached as files to this e-mail.



The Code of Conduct

for

The Institute of Surveyors
(Saint Lucia) Inc.

THE CODE OF CONDUCT (DRAFT) FOR THE INSTITUTE OF SURVEYORS (ST. LUCIA) INC.

The Institute of Surveyors (Saint Lucia) Inc., rules of conduct provide a framework within which Members offer and deliver their services. They are designed to represent a transparent system of conduct and regulation and apply to all members. The same will form a platform for members to fulfil their duty to the Public, the Surveying professions and their fellow members. The Rules of Conduct shall not be construed as a denial of the existence of the other duties and rights equally imperative though not specifically mentioned.

Every Member shall conduct himself at all times in accordance with the provisions of the Rules of Conduct and Schedules in so far as the Rules do not conflict with the laws of Saint Lucia.

Members are bound by its provisions and the Bye Laws of the Institute.

The Institute of Surveyors (St. Lucia) Inc. is a registered non-profit company in St. Lucia. It was registered in the Registry of Companies of St. Lucia on the sixth day of September 2003.

Summary of Rules

Members of ISSL Inc. shall:

- Hold paramount their obligation towards humanity and the environment and devote themselves to high ideals of personal honour and professional integrity.
- Extend and enhance public knowledge and regard for the Surveying professions by expressing opinions that are founded on technical competence, adequate knowledge and honest conviction;
- Undertake only such works as they are competent to perform by virtue of their training and experience and when advisable, retain and cooperate with other members or firms to ensure the highest standard of service;
- Accept responsibility by signing and sealing only work done by themselves or under their personal and direct supervision;
- Maintain confidentiality and avoid a conflict of interest, but where such conflict arises, fully disclose the circumstances without delay to employer/client;
- Not accept an engagement to review the work of another member for the same client, except with the knowledge of that member;
- Support and defend the principle of appropriate remuneration for the performance of their work;
- Advertise or promote in a manner that is not injurious to the public or to the dignity of the Surveying professions and report or expose without fear or favour any illegal or unethical professional decisions or practices of by other members;
- Maintain proficiency and competence and contribute to the development of the profession through the exchange of knowledge and experience;
- Uphold the name and title of the Institute and protect the Institute from misrepresentation and misunderstanding.

PART I

INTERPRETATION

1. In these Rules unless the context otherwise requires:

“**client**” includes a Member’s employer;

“**carrying on practice**” and “**practise**” means acting to provide a service(s) within the range of Surveying operations and activities recognized by the Institute;

“**disclose**” means a full declaration made promptly and made or confirmed in writing at the first opportunity;

“**firm**”, means a sole principal, a partnership, a company whether incorporated with limited or unlimited liability and any other body corporate in each case whether or not offering surveying services;

“**Board**” means the executive or any constitutional body under Bye-Laws of the Institute;

“**Institute**” means the Institute of Surveyors (St Lucia) Inc.;

“**Member**” means a member of the Institute;

a “**Member’s firm**” is the firm or organisation for which the Member works or through which he practises;

“**partner**” includes a member of a partnership;

“**partnership**” includes a limited liability partnership;

“**Practice Statement**” means a statement approved by or on behalf of the Board which sets out standards and/or other guidelines relating to professional conduct or practice;

“**professional**” includes “**technical**”; and “the public” includes professional, corporate, institutional and all other clients.

2. In these Rules, a person who is not a partner or a statutory director of a firm shall nonetheless be treated as a partner or a director if:

(a) he is employed by the firm and his job title includes the word “**partner**” or “**director**”; or

(b) he performs the functions of a partner or statutory director in relation to the firm.

3. In these Rules, unless the context otherwise requires:

(a) words denoting the masculine gender include the feminine; and

(b) words in the singular include the plural and words in the plural include the singular.

Part I - General Rules of Conduct

1. Service of documents

1. Any notice or other document required by or for the purposes of these Rules to be given or sent to a Member may be given to him personally or sent to him by post to his last address recorded by the Institute.

2. To be valid a notice or other document sent by post shall be properly addressed and pre-paid.

2. Conduct befitting membership of the Institute

1. Members shall at all times conduct themselves in accordance with the core values, which means that they are expected to:

- (a) act with integrity;
- (b) always be honest;
- (c) be open and transparent in their dealings;
- (d) be accountable for all their actions;
- (e) know and act within their limitations;
- (f) be objective at all times;
- (g) treat others with respect;
- (h) set a good example; and
- (i) have the courage to make a stand.

2. In addition, in the course of carrying out any work, the Member or any person acting on his behalf or at his instruction or inducement shall not act in a manner which compromises or impairs, or is likely to compromise or impair, any of the following:

- (a) the integrity of the Member;
- (b) the reputation of the Institute, the surveying profession or other Members;
- (c) the high standards of professional conduct expected of a Member;
- (d) compliance with any code, standard or Practice Statement of the Institute or any statute in force at the time;
- (e) the Member's duty to act in the legitimate interest of his client or employer subject to legal or similar constraints;
- (f) a person's freedom to instruct a Member of his choice.

3. Standard of service

A Member shall in the performance of his professional work, the conduct of his practice and the duties of his employment provide the standard of service and competence which is legally expected and also which the Institute can reasonably expect.

Part II - Personal and professional standards

4. Advertising

A Member shall take all reasonable steps to ensure that:

- (a) any publicity, method of advertising or marketing activity for which he is responsible is not inaccurate, misleading or likely to cause public offence or annoyance;
- (b) any reference to the Institute, and the use of any logo or design belonging to it, shall be strictly in accordance with the guidelines for the use of that material;
- (c) use of any such logo or design does not adversely affect the standing of the Institute or its membership;
- (d) the authoritative standards for advertising applicable in the particular country are followed.

5. References to the Institute

A Member shall not:

- (a) claim to or impliedly represent the views of the Institute without the Institute's authorisation; or
- (b) publicise the Institute or its Members generally, contrary to material already published by the Institute or which has received its approval.

6. Status and designations

A Member shall ensure that any published or public list of partners, directors or staff of a Member's firm or any other organisation where that Member is listed does not:

- (a) misrepresent the status of any person named; and
- (b) include any designation or designatory initials whether for the firm or any individual to which that firm (or any other firm where that Member is listed) or individual is not entitled.

Part III - Conduct of professional activities and business

7. Notification of terms of engagement

1. Except where the client is the Member's employer, a Member shall provide notification to his client or prospective client of the terms on which he is to act, and shall inform his client of such terms in writing upon request.

2. The terms referred to in paragraph (1) shall include provisions relating to:

- (a) the Member's or his firm's charges;
- (b) the payment of expenses; and
- (c) the manner in which expenses and disbursements are to be calculated.

3. Where the terms on which a Member is to act are varied, the Member shall provide written notification of the variation to his client.

4. Subject to the provisions of any Practice Statement where the terms on which the Member is to act have previously been provided to a client, the Member shall confirm that these terms continue to apply unless otherwise agreed with the client.

5. Notifications under paragraphs (1) and (3) and confirmations under paragraph (4) shall be sent promptly.

8. Confidentiality

1. Except with the client's consent or if paragraph (2) applies a Member shall keep confidential:

- a) the advice he has given to his client; and
- b) information concerning his client's affairs.

2. A Member may disclose advice or information in accordance with any enactment, order of a court or in the course of giving evidence as an expert witness or under oath.

3. In this Rule "client" includes a past client and a prospective client.

9. Timeliness in handling clients' affairs

A Member shall:

- (a) act with due diligence on behalf of his clients or his firm's clients; and
- (b) reply promptly to correspondence in so far as the correspondents may reasonably expect to be entitled to such replies.

10. Complaints handling procedure

1. The Board may make Rules on the minimum requirements for complaints handling procedures applicable to Members, but absence of such Rules does not absolve Members from their obligations.

2 This Rule applies to a Member who is a sole principal, partner or director of a firm and who is offering surveying services to the public (other than only to his employer).

3. A Member shall ensure that his firm has and operates a formal procedure for dealing with complaints from a client and from any person, other than an employer, to whom, in the opinion of the Institute, a duty of care is owed.

4. Except where a statutory scheme is being operated, the procedure for dealing with complaints shall, as a minimum:

- (a) state the name of the person with whom initial contact can be made;
- (b) include a timescale both for the timely acknowledgement of the complaint and the timescale within which the outcome of the investigation will be completed;
- (c) include reference to:
 - (i) a right of the complainant to a separate review by an appropriately qualified person;
 - (ii) mediation, where both parties agree; and
 - (iii) a right of the complainant, where the complainant remains dissatisfied with the result of the internal investigation or where the separate review or mediation has proved unsuccessful, to have his complaint referred to an independent third party decision.

5. The procedure for dealing with complaints shall be in writing and shall be made available to the client and to any member of the public on request.

6. If a Member is being required to provide particulars in respect to paragraph (3) and (4), he shall do so within 28 days of this being required.

7. Where a statutory scheme is being operated, the parties may opt to refer the complaint for resolution under the Institute's complaint procedure prior to making a submission in accordance with the statutory scheme.

11. Practice through the medium of a company or a partnership

1. Every Member who is a director of a company or a member of a partnership which is offering surveying services to the public shall ensure that a clause is included in:

- (a) the Memorandum of Association or equivalent constitutional document of that company or limited liability partnership in such a manner as to qualify the powers of the company or limited liability partnership to offer surveying services, to the effect that:

“To the extent that there is no conflict with applicable law, any business of surveying for the time being carried on by the company or partnership shall at all times be conducted in accordance with the Bye-Laws, Conduct Regulations of Institute of Surveyors (St Lucia) Inc., and Practice Statements made under the Institute’s Bye-Laws.”

- (b) the Articles of Association or equivalent constitutional document of that company or limited liability partnership, to the effect that:

“It shall be the duty of the directors of the company or the members of the limited liability partnership to ensure that any business of surveying for the time being carried on by the company or partnership shall at all times be conducted in accordance with the Bye-Laws, Conduct Regulations of the ISSL and Practice Statements made under the Institute’s Bye-Laws.”

2. If the obligation laid down in paragraph (1) conflicts with the laws of the jurisdiction in which the Member’s company is incorporated or with the rules of a relevant professional society in that jurisdiction to which the Member or his firm belongs, the laws of Saint Lucia and the rules of the Institute shall take precedence.

3. Notwithstanding the inclusion of the clauses set out in paragraph [1], where the personal liability for practice is established under statute a Member will continue to be so liable.

12. Particulars of practice

1. A Member shall within 28 days of being required to do so provide to the Institute such particulars in such form as the Board requires:

- (a) of his firm if he is carrying on professional practice as a sole principal, partner or director of the firm; or
- (b) of his employment if he is employed under a contract of service or a contract for services.

2. Where a Member has so provided particulars and any change occurs in the circumstances notified in those particulars, he shall provide full particulars of the change to the Institute no later than 28 days after such change has come into effect.

3. Within 28 days of being required in writing by the Institute to do so, a Member shall supply to the Institute a certificate signed by him providing such information as the Institute has required as to whether he undertakes and/or accepts responsibility for work to which any Practice Statement applies and about the nature, purpose and extent of such work and for whom it is undertaken.

13. Co-operation

1. A Member shall co-operate with staff and any appointees of the Institute who:

- (a) are investigating a complaint or allegation made against a Member or a Member's firm; or
- (b) have sent to the Member a written enquiry relating to a Member's:
 - (i) compliance with the Bye-Laws, any Rules or undertaking which may have been given to the Institute, or
 - (ii) conviction of an offence referred to in the Bye-Laws; or
- (c) are undertaking a visit of inspection and shall provide full and prompt responses to their enquiries.

2 In order to establish whether a Member has complied with any Practice Statement the Board or its appointee may require a Member at a time and place agreed or notified by the Board or its appointee:

- (a) to produce for inspection by a person appointed by the Institute his relevant records;
- (b) to supply reproductions of any such materials as the appointed person may require, (which information shall be used solely for the purposes of the administration of the Institute's Conduct and Disciplinary Regulations); and
- (c) to supply to such person any necessary information or explanation.

3. The appointed person shall supply to the Member a written confirmation that any information obtained in the course of a compliance inspection shall be used solely for the purposes of the administration of the Institute's Conduct and Disciplinary Regulations.

Part IV Conflicts of interest, impartiality and independence

Interpretation

In this part of these Rules, unless the context otherwise requires:

- (a) a person is an associate of the Member if such a person is:
 - (i) any person or firm so associated with, dependent on or controlled by, the Member such that his or its interest may conflict with that of the client or be reasonably liable to be seen by the client as liable to interfere with the Member's independent professional judgement;
 - (ii) a member or employee of an organisation in which the Member holds public office.
- (b) **“client”** includes a past client and a prospective client;
- (c) **“conflict”** means a conflict of interest, which includes any circumstance or potential circumstance:
 - (i) where the Member's interest is or could be in conflict with that of his client; or
 - (ii) where two or more clients' interests conflict or may conflict; or
 - (iii) which is reasonably liable to be seen as interfering with the Member's objective judgement.

Group arrangement

It is not a conflict where the Member's firm is part of a group of firms and one firm in the group acts for one client and another acts for another client with conflicting interests, provided that:

- (a) the firms are separate legal entities;
- (b) there are no directors, partners or employees in common between the firms;
- (c) there is no direct or indirect fee sharing between the firms; and
- (d) there is no access to information or common internal data sharing arrangements relating to the area of conflict.

Conflict of interest and confidentiality

1. Without prejudice to any other situation where a conflict may arise, a conflict arises where a Member, the Member's firm or associate is in possession of confidential information concerning a past or existing client which may be of relevance to the interest of a new or prospective client or to another existing client.

2. Where a Member, the Member's firm or associate is in possession of confidential information concerning a client, he may not use that information against the interest of that client, except where Rule 8 (2) applies.

Conflict between a Member's interest and a client's interest

Where a conflict arises or may arise between a Member's interests or those of any associate of his and the interests of his client, a Member shall consider whether or not he or his firm is prepared to act or continue to act for that client and, if he decides to act or continue to act, he shall:

- (a) disclose to the client at the earliest opportunity the possibility and nature of the conflict, the circumstances surrounding it and any other relevant facts;
- (b) advise him in writing to seek independent advice on the conflict; and
- (c) inform the client in writing either that he and his firm are not prepared to continue to act for the client in this capacity or that he personally or his firm cannot act or continue to act for him unless thereafter:
 - (i) the client requests him to do so unconditionally; or
 - (ii) subject to specified conditions that the Member has put in place arrangements for handling the conflict which the client has approved in writing as acceptable to him.

Conflict between the interests of clients

Where a conflict arises or may arise between the interests of two or more clients of a firm, a Member shall consider whether or not he or his firm is prepared to act or continue to act for any or all of those clients and, if he decides to act or continue to act, he shall:

- (a) disclose to each client the possibility and nature of the conflict, the circumstances surrounding it and any other relevant facts;
- (b) advise them in writing to seek independent advice on the conflict; and
- (c) inform each client in writing that neither he personally nor his firm can act or continue to act for him unless thereafter either:
 - (i) the clients request him to do so unconditionally; or
 - (ii) subject to specified conditions that the Member has put in place arrangements for handling the conflict which the clients have approved in writing as acceptable to them.

Public office holders

Where a Member holds public office which might lead to a conflict with the interest of any client of the Member, the Member shall disclose the scope of:

- (a) the appointment to his client; and
- (b) the client relationship known to the Member to the public body to which he has been appointed.

Transparency of fees and benefits

A Member shall disclose to his client the nature and, where known, the basis or amount of any fee, commission or other benefit (other than that agreed with his client) that he stands to gain as a result of his appointment by the client.

1. A Member who is instructed by a client to negotiate with a third party shall not:

- (a) stipulate that he be retained by that third party in any capacity; or
- (b) recommend a transaction or course of action concerning land, property or construction or give preference to the third party solely or partly in expectation either of the procurement of future fees or other financial gain whether directly or indirectly for himself or his firm, unless:
 - (i) he has his client's consent in writing to do so, and
 - (ii) he has advised the third party promptly and in writing to obtain independent professional advice.

2. Where a Member is to be or has been appointed to act for a client in a contract in which he owes a duty of good faith to a third party, he must notify that third party promptly and in writing of any interest which he has as a result of his appointment other than his normal fee or commission.

3. A Member may pay a fee or commission or give a gift or a favour to a third party in recognition of the introduction of a client provided that he promptly discloses to the client the amount or nature of the fee, commission, gift or favour and the identity of the third party.

4. For the purposes of paragraph (3), a “**favour**” includes the provision of business.

RULES

Obligation to keep client accounts

1. A Member who receives or holds money belonging to or held in trust for others, and over which the Member has exclusive control, shall keep it separate from his own, his firm's or his company's money and it shall be clearly identifiable.

2. A Member shall ensure that money which belongs to a client is available on demand to that person, except where the client has given written instructions otherwise.

Obligation to keep accurate records

A Member shall at all times keep properly written records as are necessary:

- (a) to show his dealings with:
 - (i) all money, belonging to or held in trust for others, received, held and paid by him; and
 - (ii) any other money dealt with through any or each separate account; and
- (b) to show separately the money of each person whose money is received, held or paid by him on account; and
- (c) to enable the current balance held on behalf of each person to be identified.

Part I - Continuing Professional Development

Interpretation

1 In this part of these Rules, unless the context otherwise requires:

“Continuing Professional Development” (CPD) means the systematic maintenance, improvement and broadening of professional knowledge, understanding and skill and the development of professional and technical duties throughout the practitioner’s working life;

“qualifying activity” means the study of:

- (a) some part of the theory and practice of surveying as defined in the Bye Laws
- (b) other professional and/or technical surveying topics related to a Member’s current or potential occupations;
- (c) topics relating to the acquisition of personal, business management or consultancy skills; and/or
- (d) such other topics as may be advised or promoted as qualifying by the Institute from time to time, intended to increase a Member’s management or business efficiency and effectiveness, by one or more of the following means:
 - (i) attendance at conferences, workshops, seminars and courses and technical meetings having some formalised structure including, for example, objectives, an introductory paper or speech, video or audio cassette presentations or computer or other similar facilities and, in the case of technical meetings, there must be a competent person in charge of the proceedings and the subject must be announced in advance;

- (ii) undertaking a programme, which may include participation in distance, multi or flexible learning opportunities, or other supervised study involving a programme of reading or recorded lectures, on completion of which programme a qualification may be awarded;
- (iii) attendance at meetings, working groups and panels requiring a significant contribution from Members and based upon a paper, audio, television programmes or other presentations;
- (iv) job development and experience based learning, including through project secondments and placements, temporary job changes, exchanges and development of subordinates and trainees;
- (v) preparation for publication of technical work, research and the preparation and first delivery of presentations to colleagues and other professionals;

2. In paragraph (1), regular reading of professional journals does not normally count as “private study” although study of articles in professional journals relevant to the Member’s structured programme of study is eligible.

3. In this part of these Rules a “year” means a calendar year and “years” shall be construed accordingly.

Application

This part of these Rules applies to a Member who is a Fellow, a Professional Member or a Technical Member except when the annual subscription of such a Member is subject to a concession) of the Subscriptions, Entrance Fees and Contributions Regulations.

Obligation to undertake lifelong learning

1. A Member shall complete a minimum of 60 hours CPD comprising qualifying activity in every period of three consecutive years a minimum of 10 hours CPD shall be carried out in every year. CPD shall be computed as follows:

- (a) the maximum time attributable to any qualifying activity shall be the duration from the opening to the close of any formal event calculated to the nearest half hour or from the commencement to the completion of other informal activities;
- (b) when a Member attends for only part of a qualifying activity, only the time attended shall be counted; and
- (c) time spent in administering a qualifying activity shall not be treated as CPD.

CPD records

1. A Member shall:

- (a) record no less frequently than every 12 complete calendar months his learning objectives, the date on which they were last recorded, updated or reconfirmed, and the manner(s) in which he intends to meet those objectives. these objectives shall include business management knowledge, skills and/or understanding;
- (b) keep a written record of his participation in qualifying activities in such form as is prescribed from time to time by the Governing Council which shall include dates, subject-matters, speakers, total time computed in accordance with these Rules and, from 1 January 2004, brief evaluations of the effectiveness that his participation in such qualifying activity has had to recorded learning activities ; and c) send to the Institute within 28 days of being required by the Institute so to do a copy of his records under sub-paragraphs (a) and (b) of this paragraph in such form as the Governing Council shall, from time to time, prescribe, which in the case of Members admitted as such on or after 1 January 2004 shall be by use of ISSL on-line or other electronic recording system as the Institute may specify.

2. The record referred to in paragraph (1) of this Rule shall be kept for a period of three years after the qualifying activity has been undertaken.

3. A Member shall:

- (a) submit to the Institute within three months of the start of the first year in which the full subscription becomes payable or such longer period as the Chief Executive may allow, a three year CPD plan which provides that at least 50 per cent of the CPD obligation is met by qualifying activity which is relevant to the Member's area of professional or technical work; and
- (b) update that plan by 31 March annually in respect of each of the succeeding two years and send it to the Institute.

Waiver of CPD requirement

The Board may waive or modify in writing, with or without any conditions, any of the provisions of this part of these Rules in response to an application from a Member based on the grounds of redundancy, ill health, pregnancy or any exceptional reason.

Part II - Complaints handling procedure

1. This Rule applies to a Member who is a sole principal, partner or director of a firm and who is offering surveying services to the public (other than only to his employer).

2. A Member shall ensure that his firm has and operates a formal procedure for dealing with complaints from a client and from any person, other than an employer, to whom, in the opinion of the Institute, a duty of care is owed.

3. Except where a statutory scheme is being operated, the procedure for dealing with complaints shall, as a minimum:

- (a) state the name of the person with whom initial contact can be made;
- (b) include a timescale both for the timely acknowledgement of the complaint and the timescale within which the outcome of the investigation will be completed;
- (c) include reference to:
 - (i) a right of the complainant to a separate review by an appropriately qualified person;
 - (ii) mediation, where both parties agree, in accordance with the model mediation procedure developed by the Eastern Caribbean Supreme Court; and
 - (iii) a right of the complainant, where the complainant remains dissatisfied with the result of the internal investigation or where the separate review or mediation has proved unsuccessful, to have his complaint referred to Arbitration or to another scheme approved by the Institute.

4. The procedure for dealing with complaints shall be in writing and shall be made available to the client and to any member of the public on request.

5. Where paragraph 3(c)(iii) applies and a complaint has remained unresolved the Member shall ask the complainant in writing whether he wishes the complaint to be referred to the Surveyors Arbitration Scheme or to another scheme approved by the Institute.

6. If a Member is being required to provide particulars in respect to paragraph (2) and (3), he shall do so within 28 days of this being required.

7. A Member shall, in case of referral to Arbitration comply with the Arbitration Rules.

Interpretation

In this part of this Schedule, unless the context otherwise requires: “accounts”, “books” and “ledgers” include loose-leaf books and such cards or other permanent documents or records as are necessary for the operation of any system of book keeping, whether handwritten, mechanical, computer-operated or otherwise;

“**auctioneer**” means an auctioneer of chattels (including deadstock and livestock);

“**bank**” means a financial Institute which has permission to accept deposits under the Banking Act;

“**client**” includes past, present and prospective clients and means:

- (a) any person or body for whom the Member or his firm is acting in any capacity;
- (b) any other person or body on whose behalf the Member holds or receives clients’ money;

“**client account**” means a current or deposit account at a bank into which clients’ money is paid;

“**clients’ money**” means any money received or held by a Member or his firm which does not belong solely to him, his firm or a connected person and over which there is exclusive control;

“**connected person**” means in relation to a Member, a partner or director of his firm;

“**discrete client account**” means a client account into which clients’ money is paid which belongs exclusively to one client;

“**exclusive control**” means that control of clients’ money is restricted to a Member, a connected person and an employee of his firm;

Part III Members’ accounts

“**firm**” includes a sole principal, a partnership, a partnership, or a company incorporated with limited or unlimited liability offering surveying services; and “partner” includes a member of a partnership.

Application

This part of this Schedule applies to a Member who is practising as a surveyor or is held out to the public to be practising and who is:

- (a) a sole principal of; or
- (b) a partner in; or
- (c) a director of a firm offering surveying services.

Members shall apply this part of the Schedule to any new accounting period that commences after 1st January, 2006.

4. A Member shall, promptly and in writing, inform a client whose money is held in a client account of:

- (a) the name of the account;
- (b) the address of the bank or building society where the account is maintained; and
- (c) whether or not the account is an interest bearing account.

5. A Member shall ensure that money in a client account which is attributable to a particular client is available on demand to that client except where the client has given written instructions that his money may be held in an account to which there is no instant access.

6. Interest credited to client bank accounts should be paid to relevant clients, except where there is written agreement from the client for the interest to be retained by the practice.

Client account conditions

Before a Member or his firm opens a client account the Member shall ensure that the bank where the account is to be opened has agreed in writing that the following conditions shall apply to that account:

- (a) all money standing to the credit of that account is clients' money;
- (b) the bank or building society is not entitled to combine the account with any other account or to exercise any right to set-off or counter claim against money in that account in respect of any sum owed to it on any other account of the Member or his firm;
- (c) any interest payable in respect of monies held in the account shall be credited to that account;
- (d) any charges or interest levied in respect of the account shall not be debited to it;

Accounting records

1. A Member shall at all times keep properly written up accounts as are necessary:

- (a) to show his dealings with:
 - (i) all clients' money received, held or paid by him; and
 - (ii) any other money dealt with through a client account; and
- (b) to show separately in respect of each client all clients' money which is received, held or paid by him on account of such client; and
- (c) to enable the current balance of all clients' money held on behalf of each client to be shown.

2. All dealings referred to in paragraph (1)(a) of this Rule shall be recorded either:

- (a) in a client's cash book, or in a client column of a cash book; or
- (b) in a record of sums transferred from the ledger account of one client to that of another;

and in either case additionally in a clients' ledger or in a clients' column of a ledger.

3. Subject to paragraph (5) of this Rule, a Member shall, at least once every calendar month, reconcile the balance of his client's cash book with:

- (a) the balance in his client account using the bank statement; and
- (b) the total of each client's balance in the clients' ledger and shall produce and keep a statement of both reconciliations.

4. The reconciliations required under paragraph (3) shall be undertaken within five weeks of the previous reconciliation.

5. Paragraph (3) of this Rule shall not apply if a Member has had no dealings through a client account since the date on which the last reconciliation was undertaken.

6. A Member shall maintain a list of all persons for whom he is or has been holding clients' money and a list of all the bank accounts in which clients' money is held.

7. In respect of all client accounts, a Member shall preserve for at least six years from the date of the last entry in the account and make available for inspection by the Member's accountant and the Institute's investigating accountant:

- (a) all accounts, books, ledgers, invoices, accounting records and reconciliation statements maintained in respect of the client account, and where a computerised system is operated, the information recorded on it must be capable of being reproduced in printed form; and b) all bank or building society statements as printed and issued by any bank or building society with which he has maintained a client account.

8 In this Rule "reconciliation" means an analysis that accounts for the difference between balances extracted from separate records on a given date.

Misappropriation of clients' money

A Member shall notify the Institute without delay of any deliberate misappropriation of clients' money immediately he is aware of it and shall replace the missing money from either his firm's account or his own resources.

Visits of inspection

1. In order to establish whether a Member has complied with this part of this Schedule the President of the Institute or any three members (including a Chairman or Vice-Chairman) of a Disciplinary Committee such may:

- (a) require a Member to produce at a time and place agreed, or
- (b) notify the Member that his books of account, bank or building society pass books, loose-leaf bank or building society statements, statements of account, vouchers including petty cash vouchers and any other necessary documents will be inspected by an accountant or suitably qualified person appointed by the Institute and to supply to such person any necessary information or explanation.

2. Regarding paragraph (1) the person appointed by the Institute shall prepare a report of such inspection, which may be used as a basis for disciplinary proceedings.

3. If, after enquiry in accordance with an inspection carried out under paragraph (1) of this Rule, a Member is found to have contravened the Members' Accounts Rules, either a Professional Conduct Panel or the Disciplinary Board or the Appeals Board, as the case may be, shall have power to make such order as it shall consider just for payment by the Member of a sum of money in or towards payment of the costs incurred by the Institute in connection with any inspection made by any person appointed under this Rule.

4. A requirement made of a Member under this Rule shall be made by or on behalf of the President and will be sent by special post to the Member at his last address recorded by the Institute.

Waiver of members' accounts requirements

The Board shall have the power to waive or modify in any particular case, with or without any conditions, any of the provisions of this part of the Rules.

Accountants' reports

An accountant's report shall be in such form as the Board shall from time to time approve.



Logo Description

The depiction of the image of St. Lucia in the logo clearly associates the institute with St. Lucia, as well as initiates the idea of “land”. The brown area representing soil/earth/land, solidifies this idea.

The Building identifies the organization as a central zone or body. The blue reaching lines spread across the image are suggestive of reaching across the island, and is linked to a clearly defined figure of a surveyor, which establishes the relationship between all three main elements – the institute, St. Lucia and the surveyors.

I used bold colours such that the logo would be easily identifiable, and few enough colours that it can be reproduced and used in various media without too much difficulty. The lettering was set in a circle in order to give the logo a complete and enclosed look.

Natalie Preville

September 2003

FORM 1

UNDER THE COMPANIES ACT OF SAINT LUCIA 1996
(Part 1 s4 et seq.)

**ARTICLES OF INCORPORATION
NON PROFIT COMPANY**

- 1. Name of Company** **2. Company No:**

**THE INSTITUTE OF SURVEYORS (ST. LUCIA)
Inc.**

The Institute has no authorised share capital, is to be carried on without pecuniary gain to its members, and any profits or other accretions to the assets of the Institute are to be used furthering its undertaking. Each first director of the Institute shall upon incorporation be qualified to be a member of the Institute.

- 3. Restrictions on the undertaking that the Company may carry on:**

The business of the Institute shall be limited to and shall be restricted by the objects specified in the byelaws.

- 4. Number of Directors:**

Eight (8)

- 5. The address of the principal office or premises of the company is:**

The Chambers of Andre Arthur, High Street Castries.

- 6. Restrictions if any on business that the Company may carry on:**

19.1 The directors may from time to time by resolution establish the financial year of the Institute.

Enacted this day of
2003

Director

Director

Shall not carry on business of Bankers and/or Insurers (except as provided by the Banking Act No. 7 of 1991 and the Insurance Act No. 6 of 1995.)

7. Other provisions if any:

None

8. DIRECTORS

Name	Title	Address	Signature	Date
1. Ronald Gardner	President			
2. Margaret Ann Charles	Vice-President			
3. Earl Cenac	Secretary			
4. Sylvia King	Treasurer			
5. Lester Martyr	Director			
6. Clive Hippolyte	Director			
7. Celsus Baptiste	Director			
8. Desmond Auguste	Director			

**BYE-LAWS OF NON-PROFIT COMPANY
INCORPORATED UNDER THE COMPANIES ACT 1996**

THE INSTITUTE OF SURVEYORS (ST. LUCIA) Inc.

BYE-LAWS

Bye-Laws relating generally to the conduct of:-

THE INSTITUTE OF SURVEYORS (ST. LUCIA) Inc.

BE IT ENACTED as the general Bye-Laws of

THE INSTITUTE OF SURVEYORS (ST. LUCIA) Inc.

(Hereinafter called the “Institute”) as follows:-

1. INTERPRETATION

1.1 In this Bye-Laws and all other bye-laws of the Institute unless the context otherwise requires-

1.1.1 “Act” means the Companies Act of Saint Lucia 1996 as from time to time amended and every statute substituted therefore and, in the case of such substitution, any references in the bye-laws of the Institute to provisions of the Act shall be read as references to the substituted provisions therefore in the new statute or statutes;

1.1.2 “Regulations” means any Regulations made under the Act and every regulation substituted therefore and, in the case of such substitution, any references in the bye-laws of the Institute to provisions of the regulations shall be read as references to the substituted provisions therefore in the new Regulations.

hours after posting if the notice was properly addressed and posted by prepaid mail.

16.6.2 Where the notice is sent by cable or telex, service is deemed to be effected on the date on which the notice is so sent.

16.6.3 A certificate of an officer of the Institute in office at the time of the making of the certificate as to facts in relation to the delivery or sending of any notice shall be conclusive evidence of those facts.

17. CHEQUES, DRAFTS AND NOTES

17.1 All cheques, drafts or orders for the payment of money and all notes and acceptances and bills of exchange shall be signed by such officers and in such manner as the directors may from time to time designate by resolution.

18. EXECUTION OF INSTRUMENTS.

18.1 Contracts, documents or instruments in writing requiring the signature of the Institute shall be signed by:-

The President or Vice President together with the Secretary and the Treasurer, and all contracts, documents and instruments in writing so signed shall be binding upon the Institute without any further authorisation or formality.

18.2. In the absence of the President or Vice President, the directors shall have power from time to time by resolution to appoint any other directors of the Institute to sign contracts, documents and instruments in writing generally or to sign specific contracts, documents or instruments in writing.

latest notice filed under section 69 or 77 of the Act, and to the auditor at his business address.

16.2 Waiver of Notice: Notice may be waived or the time for the notice may be waived or abridged at any time with the consent in writing of the person entitled thereto.

16.3 Undelivered Notices: If a notice or document is sent to a member by registered mail in accordance with this paragraph and the notice or document is returned on three consecutive occasions because the member cannot be found, it shall not be necessary to send any further notices or documents to the member until he informs the Institute in writing of his new address.

16.4 Signatures of Notices: The signature of any director or officer of the Institute to any notice or document to be given by the Institute may be written, stamped, typewritten or printed or partly written, stamped, typewritten or printed.

16.5 Computation of Time: Where a notice extending over a number of days or other period is required under any provisions of the articles or the bye-laws the day of sending the notice shall, unless it is otherwise provided, be counted in such number of days or other period.

16.6 Proof of Service: Where a notice required under paragraph 18.1 hereof is delivered personally to the person to whom it is addressed or delivered to his address as mentioned in paragraph 18.1 hereof, service shall be deemed to be at the time of delivery of such notice.

16.6.1 Where such notice is sent by post, service of the notice shall be deemed to be effected forty-eight

1.1.3 “Bye-Laws” means any bye-law of the Institute from time to time in force;

1.1.4 “Surveying” includes inter alia: land surveying & mapping; valuation and land economy; quantity surveying; building surveying; geomatics and hydrographic surveying.

1.1.5 All terms contained in the bye-laws and defined in the Act or the Regulations shall have the meanings given to such terms in the Act or the Regulations; and

1.1.6 The singular includes the plural and the plural includes the singular; the masculine gender includes the feminine and neuter genders; the word “person” includes bodies corporate, companies, partnerships, syndicates, trusts and any association of persons; and the word “individual” means a natural person.

2. REGISTERED OFFICE

2.1 The registered office of the Company shall be at The Chambers of Andre Arthur, High Street, Castries in Saint Lucia or at such address as the directors may fix from time to time by resolution.

3. SEAL

3.1 The common seal, when effected, shall be the common seal of the Institute.

4. OBJECTS, SHARE CAPITAL & PROFITS

4.1 The Institute shall engage in the following:-

- 4.1.1 Advance the practice of the sciences and technologies of land surveying & mapping; valuation and land economy; quantity surveying; building surveying, geomatics and the development of information systems for the proper management of the land and marine resources of Saint Lucia and any other branch of surveying recognized by the Institute.
- 4.1.2 Collect and disseminate information relating to the science of surveying and to other sciences incidental thereto by lectures, discussions, publications, conferences with public bodies and individuals or otherwise.
- 4.1.3 Consider all questions affecting the interests of the profession, and if necessary, to petition Parliament or other body or private deputations in relation to general measures affecting the profession, and to procure changes of law or practice, and promote improvements in the principles and administration of the law affecting the qualification, examination, training, licensing and registration of Surveyors.
- 4.1.4 Encourage and ensure that the profession of Surveying shall be conducted in an honourable and becoming manner, and restrain and discourage all conduct which is discreditable, dishonourable, or unbecoming of the members of such profession, and by any lawful means procure the exclusion from such profession of any persons guilty of conduct rendering them unfit to be members thereof.

members, the persons present may adjourn the meeting to a fixed time and place but may not transact any other business.

14.8.1 Resolution in lieu of meeting:

Notwithstanding any of the foregoing provisions of this bye-law a resolution in writing signed by all the members on that resolution at a meeting of the members is, as valid as if it had been passed at a meeting of the members.

15. COMMITTEES

15.1 The directors may from time to time as deemed necessary appoint committees consisting of such number of directors or members as may be deemed desirable and may prescribe their duties.

15.2 Any committee so appointed may meet for the transaction of business, adjourn and otherwise regulate its meetings as it thinks fit. Unless otherwise determined by the directors, two (2) members of a committee shall be a quorum. Questions arising at any meeting of a committee shall be decided by a majority of votes and in case of an equality of votes the chairman of the meeting shall have a second or casting vote.

16. NOTICES

16.1 Method of giving Notice: Except as otherwise provided, any notice or other document required by the Act, the Regulations, the Articles or the Bye-laws to be sent to any member, director or auditor maybe delivered personally or sent by registered mail and/or telex to any such person at his latest address as shown in the records of the Institute and to any such director at his latest address as shown in the records of the Institute or in the

majority or lost or not carried by a particular majority shall be conclusive evidence of the fact.

14.6.3 When the President and the Vice-President are absent, the persons who are present and entitled to vote shall choose another director as chairman of the meeting; but if no director is present or all the directors present decline to take the chair, the persons who are present and entitled to vote shall choose one of their number to be chairman.

14.7 Adjournment: The chairman of any meeting may with the consent of the meeting adjourn the same from time to time to a fixed time and place and no notice of such adjournment need be given to the members unless the meeting is adjourned by one or more adjournments for an aggregate of thirty days or more in which case notice of the adjourned meeting shall be given as for an original meeting. Any business that might have been brought before or dealt with at the original meeting in accordance with the notice calling the same may be brought before or dealt with at any adjourned meeting for which no notice is required.

14.8 Quorum: A quorum for the transaction of business at any meeting of the members shall be **fifteen** (15) persons present in person. If a quorum is present at the opening of any meeting of the members, the members present may proceed with the business of the meeting notwithstanding the fact that a quorum is not present throughout the meeting. If a quorum is not present within **thirty** (30) minutes of the time fixed for a meeting of

4.1.5 Generally to support and protect the character, status and interests of the profession of surveying;

4.1.6 The Institute has no authorised share capital and the objects of the Institute shall be carried on without pecuniary gain to any of its members.

4.1.7 The income and property of the Institute shall be applied solely towards the promotion of the objects of the Institute. Any profits or other accretions to the Institute are to be used for furthering the objects of the Institute.

5. MEMBERS

5.1 There shall be five classes of membership namely:-

5.1.1 Fellow member, being individuals who have provided not less than 20 years distinguished service to the surveying profession in St. Lucia, and in addition have publicly contributed to and promoted the advancement of Surveying,

5.1.2 Honorary members, being those individuals who accept election as honorary members upon the invitation of the Directors in recognition of their long-standing practice and/or contribution to the development of the surveying professions. An Honorary member shall be under no obligation to pay any subscription or make any donation to the funds of the Institute and shall not be entitled to vote at meetings of the Institute.

5.1.3 Ordinary members, being those individuals who satisfy the academic qualifications which may be prescribed from time to time by a committee appointed by the Directors and have

been actively involved in the practice of professional surveying for a minimum of two years shall be eligible to become a Member of the Institute.

5.1.4 Affiliate members, being those individuals who satisfy the academic qualifications which may from time to time be prescribed by the Committee of Management and who are non-resident, but shall not be entitled to vote at meetings of the Institute.

5.1.5 Technician members, being those individuals who satisfy the academic and/or practical qualifications which may be prescribed from time to time by a committee appointed by the Directors and are actively involved with the profession at a technician level under the supervision or direction of a Fellow, Ordinary or Affiliate Member, shall be eligible to become a Technician Member of the Institute, but shall not be entitled to vote at meetings of the Institute.

5.1.6 Student members, being those individuals who are actively pursuing a course of study leading to an academic qualification acceptable to the Board shall be eligible to become a Student Member of the Institute, but shall not be entitled to vote at meetings of the Institute.

5.2 An application for membership shall be made to the Secretary of the Institute upon such form as the Directors shall from time to time prescribe and shall be supported by such evidence as may be required.

5.3 Each first director of the Institute if qualified shall be eligible to be a member on its incorporation.

14.3 Notice: Notice stating the day, hour and place of meeting shall be given by publishing such notice in electronic or print media of Saint Lucia and by service in writing to each Member of the Institute, not less than twenty-one days before the date of the meeting. Notice of a meeting at which special business is to be transacted shall state (a) the nature of that business in sufficient detail to permit the member to form a reasoned judgment thereon, and (b) the text of any special resolution to be submitted to the meeting.

14.4 Waiver of Notice: A member may in any manner waive notice of a meeting of members and attendance at a meeting of members shall constitute a waiver of notice of the meeting except where such person attends a meeting for the express purpose of objecting to the transaction of any business on the grounds that the meeting is not lawfully called.

14.5 Omission of Notice: The accidental omission to give notice of any meeting or any irregularity in the notice of any meeting or the non-receipt of any notice by any member or director of the Institute shall not invalidate any resolution passed or any proceedings taken at any meeting of the members.

14.6 Votes: Every question submitted to any meeting of members shall be decided in the first instance by a show of hands.

14.6.1 At every meeting at which he is entitled to vote, every member who is present in person and in good standing shall have one vote on a show of hands.

14.6.2 At any meeting, a declaration by the chairman of the meeting that a resolution has been carried or carried unanimously or by a particular

14. MEETINGS OF MEMBERS

14.1 Annual Meeting – The Annual Meeting of the members shall be held on a day in April and at such time as the directors may by resolution determine at any place within Saint Lucia. At each Annual General Meeting the Board shall present a written report of its proceedings since the last annual general meeting, signed by the President and Secretary, receive the report of the Committees, receive the statement of current accounts and present audited accounts of the Institute covering the last financial year ending on the 31st December certified by the Auditor.

14.2 Special Meetings: Special meetings of the members may be convened by order of the President, the Vice-President or by the directors at any date and time and at any place within Saint Lucia.

14.2.1 Special meetings of the members may be convened by requisition. The requisition must state the purposes of the meeting and must be signed by no less than five requisitionists who must be members of the Institute and deposited at the Registered Office, and may consist of several documents in like form each signed by one or more of the requisitionists.

14.2.2 If the directors do not, within twenty-one days from the date of the requisition being so deposited, proceed to convene a meeting, the requisitionists or any of them may themselves convene the meeting, but any meeting so convened shall not be held after three months from the date of such deposit.

5.4 A Membership Committee appointed by the Directors shall decide membership of the Institute. Membership is subject to confirmation by all members of the Board of Directors.

5.5 Persons who hold any of the following offices, namely: President, Vice President, Treasurer and Secretary shall be either Fellow or Ordinary Members of the Institute.

5.6 The interest of a member in the Institute is not transferable and lapses and ceases to exist upon his death or when he ceases to be a member by resignation or otherwise in accordance with the bye-laws of the Institute.

6. ANNUAL FEES

6.1 The annual subscription shall be determined annually by the Directors and shall be confirmed at the Annual General Meeting.

6.2 All annual subscriptions (except the first subscription of a new member) shall be payable on or before the fifteenth day of April of each year.

7. MEMBERSHIP APPLICATION FEES

7.1 The Membership Application fee shall be such sum as the Directors may from time to time determine.

8. CESSATION OF MEMBERSHIP

8.1 Any member may withdraw from membership by giving fourteen (14) days notice to the Secretary in writing to that effect and thereupon he shall cease to be a member, and provided such notice is given before the 15th day of January in any year shall not be liable to pay the subscription for that year.

8.2 If any member (who is liable to pay an annual subscription) shall fail to pay the same within six (6) months after the same shall become due, the Directors may order his name to be struck off the list of members whereupon he shall cease to be a member of the Institute, always provided that written notice has been issued to such member.

8.3 If any member refuses or neglects to comply with the provisions of the bye-laws or conducts himself in a way which in the opinion of the directors is or maybe injurious to the Institute, the Directors may by notice in writing call upon him to resign. If such member when called upon to resign does not do so within twenty-eight (28) days of the receipt of such notice then (provided he is first given an

opportunity of being heard by the Directors) he may forthwith be expelled by the Directors after a resolution for this purpose has been passed by a majority of not less than two thirds of the members present and voting at a specially convened meeting of the members.

8.4 Subject to paragraph 8.1 of this Bye-Laws, a member resigning or expelled under paragraph 8.3 or whose name is struck off pursuant to paragraph 8.2 of this bye-law shall nevertheless remain liable for all moneys then due from such Member to the Institute.

9. EXECUTIVE OF THE INSTITUTE

9.1 The Executive Board of the Institute shall consist of a President, a Vice President, a Treasurer, a Secretary and four (4) other qualified Members of the Institute who shall be elected annually at the Annual General Meeting of the Institute.

(vii) unless the same happens by or through his failure to exercise the powers and to discharge the duties of his office honestly and in good faith with a view to the best interests of the Institute and in connection therewith to exercise the care, diligence and skill that a reasonably prudent person would exercise in comparable circumstances.

(viii) Nothing herein contained shall relieve a director or officer from the duty to act in accordance with the Act or Regulations made thereunder or relieve him from liability for a breach thereof.

(ix) The directors for the time being of the Institute shall not be under any duty or responsibility in respect of any contract, act or transaction whether or not made, done or entered into in the name or on behalf of the Institute, except such as are submitted to and authorised or approved by the directors.

(x) If any director or officer of the Institute is employed by or performs service for the Institute otherwise than as a director or officer or is a member of a firm or a shareholder, director or an officer of a body corporate which is employed by or performs services for the Institute, the fact of his being a member, director or officer of the Institute shall not disentitle such director or officer or such firm or body corporate, as the cast may be, from receiving proper remuneration for such services.

passed at a meeting of the directors or any committee of the directors.

13. FOR THE PROTECTION OF DIRECTORS AND OFFICERS

13.1 No director or officer of the Institute shall be liable to the Institute for:-

- (i) the acts, receipts, neglects or defaults of any other director or officer or employee or for joining in any receipt or act for conformity;
- (ii) any loss, damage or expense incurred by the Institute through the insufficiency or deficiency of title to any property acquired by the Institute or for or on behalf of the Institute;
- (iii) the insufficiency or deficiency of any security in or upon which any of the moneys of or belonging to the Institute shall be paid out or invested;
- (iv) loss or damage arising from the bankruptcy, insolvency or tortuous act of any person, with whom any moneys, securities or effects shall be lodged or deposited;
- (v) any loss, conversion, misapplication or misappropriation of any damage resulting from any dealings with any moneys, securities or other assets belonging to the Institute;
- (vi) any other loss, damage or misfortune whatever which may happen in the execution of the duties of his respective office or trust or in relation thereto;

9.2 At least three members of the Executive Board shall each represent one of the three major fields of surveying of the Institute, namely Land Surveying, Quantity Surveying and Valuation Surveying. Such member shall be nominated and elected at the Annual General Meeting of the Institute by the members of that individual field or discipline unless the membership attending the Annual General Meeting decide to the contrary.

9.3 In the case of a casual vacancy in any of the offices, the directors shall appoint one of their number to fill such casual vacancy until the next general meeting.

9.4 In case the absence or inability to act of the President or Vice President or any other officer of the Institute for any other reason that the directors may deem sufficient, the directors may delegate all or any of the powers of such officer to any other officer or any director for the time being, provided that a majority of the board of directors concur therein.

9.5 The President: The President shall, if present, preside at all meetings of the directors and members; shall sign all instruments which require his signature and shall perform all duties incident to his office and shall have such other powers and duties as may from time to time be assigned to him by the directors.

9.6 The Vice-President: The Vice President shall be vested with all the powers and shall perform all the duties of the President in the absence or disability or refusal to act of the President. The Vice President shall have such powers and duties as may from time to time be assigned to him by the directors.

9.7 The Secretary: The Secretary shall, when present, act as Secretary of all meetings, shall have charge of the

minute books of the Institute and the documents and registers referred to in Section 177 of the Act and shall perform such other duties, as the directors require of him.

9.8 The Treasurer: The Treasurer shall have the care and custody of all the funds and securities of the Institute and shall deposit the same in the name of the Institute in such bank or banks or with such depository or depositories as the directors may direct and shall perform such other duties as the directors require of him. He may be required to give such bond for the faithful performance of his duties as the directors in their uncontrolled discretion may require and no director shall be liable for failure to require any bond or for the insufficiency of any bond or for any loss by reason of the failure of the Institute to receive any indemnity thereby required.

10. DIRECTORS

10.1 The Directors of the Institute shall comprise the Members of the Executive Board.

10.2 Candidates for election as a director shall be proposed and seconded by members entitled to vote at general meetings of the Institute.

10.3 If a casual vacancy occurs other than in any of the offices, the directors may appoint an ordinary member of the Institute to fill the vacancy.

10.4 Powers: The affairs of the Institute shall be managed by the directors who may exercise all such powers and do all such acts and things as may be exercised or done by the Institute and are not by the bye-laws or any special resolution of the Institute or the Act expressly directed

being held in their absence. Notice of any meeting or any irregularity in any meeting or the notice thereof may be waived by any director.

12.4 Quorum: Five Members of the Executive Board shall form a quorum for the transaction of business and, notwithstanding any vacancy among the directors, a quorum may exercise all the powers of the directors. No business shall be transacted at a meeting of the Board unless there is a quorum.

12.4.1 A director may, if all the directors consent, participate in a meeting of directors or of any committee of the directors by means of such telephone or other communication facilities as permit all persons participating in the meeting to hear each other and a director participating in such a meeting by such means is deemed to be present at that meeting.

12.5 Voting: Questions arising at any meeting of the directors shall be decided by a majority of votes. In case of any equality of votes the chairman of the meeting in addition to his original vote shall have a second or casting vote.

12.6 Resolution in lieu of meeting: Notwithstanding any of the foregoing provisions of this Bye-Laws a resolution in writing signed by all the directors entitled to vote on that resolution at a meeting of the directors or any committee of the directors is as valid as if it had been

12. MEETING OF DIRECTORS

- 12.1 Place:** Meetings of the directors and of any committee of the directors may be held either at the registered office or at any other place within Saint Lucia.
- 12.2 Convener:** A meeting of directors may be convened by the President, the Vice-President, or any two directors at any time and by the Secretary on the direction of any such officer. Any two directors may convene a meeting of directors.
- 12.3 Notice:** Subject to section 79 (1) of the Act the notice of any meeting of the directors need not specify the purpose of or the business to be transacted at the meeting. Notice of any such meeting shall be served in the manner specified in paragraph 16.1 hereof not less than two days (exclusive of the day on which the notice is delivered or sent but inclusive of the day for which notice is given) before the meeting is to take place. A director may in any manner waive notice of a meeting of the directors and attendance of a director at a meeting except where a director attends a meeting for the express purpose of objecting to the transaction of any business on the grounds that the meeting is not lawfully called.
- 12.3.1 It shall not be necessary to give notice of a meeting of the directors to a newly elected or appointed director for a meeting held immediately following the election of directors by the members or the appointment to fill a vacancy among the directors.
- 12.3.2 Meetings of the directors may be held at any time without formal notice if all the directors are present or those absent waive notice or signify their consent in writing to the meeting

or required to be done by the Institute at a general meeting of the Institute.

10.4.1 In addition to any powers which the Directors may have they may exercise the following powers in furtherance of the objects of the Institute:-

- a. Raise funds and to invite and receive contributions, provided that in raising funds the Institute shall not undertake any substantial permanent trading activities;
- b. Sell, lease, or otherwise dispose of all or any part of the Institute's property;
- c. Invest the funds of the Institute in any of the investments for the time being authorised by resolution of the members for the investment of the Institute's funds.

10.5 Qualification: A director shall be an Ordinary Member or Fellow Member of the Institute.

10.6 Term of Office: Unless otherwise determined, a director's term of office shall, subject to the provisions, if any, of the Articles of Incorporation of the Institute, be from the date of the meeting at which he is elected or appointed until the conclusion of the annual general meeting next following or until his successor is elected or appointed.

10.7 Removal from Office: The members of the Institute may, by ordinary resolution at a special meeting, remove any director from office.

10.8 Vacancy Filled: A vacancy created by the removal of a director may be filled at the meeting at which the director is removed from office.

10.8.1 If the vacancy is not filled under paragraph 10.8 it may be filled by the directors.

10.8.2 A director elected or appointed pursuant to paragraph 10.8 or 10.8.1 holds office for the un-expired term of his predecessor.

10.9 Remuneration: The directors shall serve without remuneration and no director shall directly or indirectly receive any profit from his position as such; provided that a director may be paid or reimbursed for reasonable expenses incurred by him in the performance of his duties.

10.10 Vacating of Office: The office of a director of the Institute shall be vacated:-

- (i) if by notice in writing he resigns from his office;
- (ii) if he ceases to be a member of the Institute;
- (iii) if he does not attend four consecutive meetings of the directors, unless the directors otherwise determine.
- (iv) If he is removed from office in accordance with paragraph 10.7;
- (v) If he becomes bankrupt or suspends payment or compounds with his creditors or makes an unauthorised assignment or is declared insolvent;
- (vi) If he is found to be suffering from a mental disorder or becomes of unsound mind;

- (vii) If he is convicted of any criminal offence involving fraud or dishonesty.

11. DUTIES OF DIRECTORS

11.1 Duty to keep accounts and audit. Directors responsible for or in charge of any funds or monies of the Institute shall keep accounts and produce them to the members at annual general meetings. Such accounts shall be audited or examined by independent auditors once every year.

11.2 Director must not profit from his office. The rule is that a director must not make a profit for himself out of his office. The rule does not depend on fraud, dishonesty or bad faith on the part of the director but on the mere fact that a profit has been made.

11.3 Director purchasing Institute property. A director may not, except with the approval of the members of the Institute, purchase any property acquired by the Institute. Purchases of Institute property by directors that are not authorised in the manner provided shall be void.

11.4 Director competing with Institute and using information. A director should not put himself in the position where he might gain for himself the benefit of any goodwill acquired by the Institute or useful information. A director may be restrained from carrying out a business in competition with the Institute and will be accountable for all profits made by using information gained in his fiduciary capacity.

Chartered Institution of CIVIL ENGINEERING SURVEYORS



17 February 2014

President CheeHai Teo
FIG Office
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Denmark

Dear President CheeHai Teo

On behalf of the Chartered Institution of Civil Engineering Surveyors (ICES), it is my great pleasure and honour to nominate Iain Greenway as an Honorary Member of FIG.

The federation's statutes define an Honorary Member as someone who has materially assisted the development and promotion of the surveying profession at an international level. I believe that Iain has fulfilled this role admirably and professionally over a period of nearly 20 years' involvement with FIG.

For the last four of these, Iain was a Vice President (2008-2012), given responsibility for overseeing the FIG office and FIG's finances. During that period, he led a number of changes to the office staffing and structure as it adapted to the growing expectations on it whilst living within the available budget. He brought thoroughness and discipline to FIG's finances and the reporting of them to the General Assembly, implementing a range of performance measures and a more transparent reporting format. Iain also convened and chaired the annual meeting of Surveyors General at the FIG Working Week, developing a forum that attendees found both valuable and enjoyable.

Prior to his time on Council, Iain served FIG in a wide variety of roles. He was instrumental in raising FIG's role and stature in the vital area of international standardisation, chairing the Standards Task Force (1997-2002) and the Standards Network (2002-2009), during which period he also regularly represented FIG at the meetings of the ISO Technical Committee 211. Iain raised the profile and standing of FIG in the relevant ISO committees very considerably, and brought a much greater awareness of the relevance and importance of standardisation activities to FIG and its members, building on work by the late Jean-Marie Becker and others. Iain was instrumental in steering the Land Administration Domain Model to become ISO 19152, overcoming a number of significant objections to this important work.

Iain has also been a faithful contributor to two FIG Commissions, serving as Secretary of Commission 5 (1994-1998) and as a Vice Chair of Commission 1 (1998-2008). During that time, he chaired a working group which developed FIG Publication 29 - *Business Matters for Professionals*.

Also within FIG, Iain was a member of the Governance Task Force, and chaired a task force on organisational development which produced Publication 47 - *Institutional and Organisational Development*; and was head of the RICS delegation to FIG (1999-2006), working very closely with ICES during that time. Another aspect of his work, which might have been less public but was nonetheless vital was as a Director of the FIG Foundation (2000-2010), building the work of this important aspect of FIG's activity.

Beyond FIG, Iain served with distinction in all three Ordnance Surveys (of Great Britain, Ireland and Northern Ireland), and was an ambassador for national mapping agencies in FIG - and for FIG in Europe's national mapping agencies.

ICES believes that Iain has significantly furthered the work of FIG and of surveying internationally, and hopes that this nomination will be received favourably by Council and General Assembly.

Yours sincerely

Alan Barrow
ICES President



National Society of Professional Surveyors

5119 Pegasus Court, Suite Q, Frederick, MD 21704

Phone: 240-439-4615 * Fax: 240-439-4952

www.nsps.us.com

September 9, 2013

President CheeHai Teo
FIG Office
International Federation of Surveyors, FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
DENMARK

Dear Teo:

The National Society of Professional Surveyors (NSPS) is pleased to nominate John Hohol for status as an Honorary Member of FIG.

It is our understanding that this matter can be addressed by FIG during the XXV FIG Congress next year in Kuala Lumpur, Malaysia.

NSPS considers John to be very worthy of Honorary Membership in FIG due to his long-standing participation as a representative of ACSM (and now NSPS), and for his service to FIG.

Since 1981, John has been an active participant in FIG, serving as Head of Delegation for ACSM/NSPS (1986 to present). He has served on the FIG Foundation Board of Directors since 2001, and as its President since 2003. His consistent advocacy for FIG within NSPS has been a major factor in the continued support of its FIG membership, and its delegation to FIG. John has served ACSM/NSPS well in a variety of other capacities, including conference planning. He has been a NSPS Fellow since 1983, and a NSPS Life Fellow since 2012.

Respectfully,

Curtis W. Sumner, LS
Executive Director

FIG-World Bank Declaration on Fit-for-Purpose Land Administration

There is an urgent need to build cost-effective and sustainable systems that identify the way land is occupied and used and accordingly provide for secure land rights. When considering the resources and capacities required for building such systems in less developed countries, the concepts of mature, sophisticated systems as predominantly used in developed countries may well be seen as the end target, but not as the point of entry. When assessing technology and investment choices, the focus should be on a “fit-for-purpose approach” that will meet the needs of society today and that can be incrementally improved over time.

A fit-for-purpose approach includes the following elements:

- ✓ **Flexible** in the spatial data capture approaches to provide for varying use and occupation.
- ✓ **Inclusive** in scope to cover all tenure and all land.
- ✓ **Participatory** in approach to data capture and use to ensure community support.
- ✓ **Affordable** for the government to establish and operate, and for society to use.
- ✓ **Reliable** in terms of information that is authoritative and up-to-date.
- ✓ **Attainable** to establish the system within a short timeframe and within available resources.
- ✓ **Upgradeable** with regard to incremental improvement over time in response to social and legal needs and emerging economic opportunities.

A country’s legal and institutional framework must be revised to apply the elements of the fit-for-purpose approach. This means that the fit-for-purpose approach must be enshrined in law and that the information be made accessible to all users.

A fit-for-purpose approach will ensure that appropriate land administration systems are built within a relatively short time frame and affordable costs. The systems allow for incremental updating and upgrading. This approach will facilitate economic growth, social equity and environmental sustainability to be better supported, pursued and achieved.

March 2014
World Bank, Washington DC



The World Bank
1818 H Street NW,
Washington, DC 20433,
United States of America
url: www.worldbank.org

International Federation of Surveyors
Kalvebod Brygge 31-33
DK-1780, Copenhagen V,
Denmark
url: www.fig.net



37th General Assembly of the International Federation of Surveyors
16th & 21st June 2014, Kuala Lumpur
FIG President's Report

1. Preamble

FIG remains thankful to the membership for the on-going support and contribution in delivering its work plan. FIG essentially functions out of the goodwill, resources and contribution of our corps of volunteers all over the world. We recognise that these volunteers are supported by their member organizations in FIG as well as by their employers or the organizations they represent. These contributions continue to allow FIG in its quest to extend the utility and usefulness of surveying for the benefit of society, environment and economy and as a consequence, increasingly positioned in significance and relevance where our Profession is present.

Introduction

As a United Nations and the World Bank Group recognized non-governmental organization, we continue to collaborate and to ensure that the disciplines of surveying and all who practise them are relevant and meeting the needs of both the community and the market we are present. Our worldwide professional community measures and maps, estimates and costs, assesses and values, analyses and models, plans and manages the land and the seas, its natural resources and structures there upon for the effective planning and efficient administration of our natural and built environment.

This report covers, generally, the period between the 36th General Assembly in Abuja, Nigeria last year until about the 37th General Assembly in Kuala Lumpur, Malaysia this June. This report should be read together with papers and reports prepared and included in the 37th General Assembly Agenda.

Announcements

On a solemn note, we mourn the passing of a number of our illustrious supporters and contributors. Our condolences to the family of Honorary President Carl-Olof Ternryd (Sweden) who passed away on 8th July 2013 and Board Member of FIG's IIHSM and Past President of ICES, Alan Wright (United Kingdom) in June 2013.

We congratulate former FIG Director, Markku Villikka on his appointment as Honorary member of FIG at the 36th FIG General Assembly. For the record, the badge with silver oak leaves and Certificate of Appointment as Honorary member was presented to him in Helsinki, after the 2013 Working.

2. Council Organized Events

2.1 2013 Working Week

The 2013 FIG Working Week and the XXXVI General Assembly with the overall theme, Environment for Sustainability, was held in Abuja, Nigeria between 6th and 10th May 2013. Surv. Stephen Olubode Adeaga, President the Nigerian Institution of Surveyors presided over the local organizing committee that delivered this special, colourful and energetic Working Week. In his opening speech, President of Nigeria, Goodluck Ebele Azikiwe Jonathan stated that the theme is very appropriate and relevant for the current situation not only in Nigeria but also all over the world. His opening speech was delivered by the Minister of Works Nigeria, Honorable Arc. Mike Onolememen, who represented the

President of Nigeria.

More than 2000 Nigerians and almost 250 International participants enjoyed the Working Week held at the Nicon Luxury Hotel and the International Conference Center that was next door to the hotel. The exhibition took place at both sites. Nigerian participants and the local organizing committee certainly showed their friendliness and hospitality in what was the biggest ever Working Week in the history of FIG in terms of participation numbers. Many different activities took place during the energetic week. A number of joint/special sessions were organized in cooperation with institutional partners including the UN-Habitat/GLTN and the World Bank. There were also many well-attended technical sessions that were convened during the week. The exhibition attracted 34 International and Nigerian exhibitors.

Among the decisions of the XXXVI General Assembly, the confirmation that Mr. See Lian Ong of RICS, United Kingdom to the position of Commission 10 Chair-Elect and Ms. Eva-Maria Unger of OVG, Austria to the position of Young Surveyors Network Chair-Elect. It was suggested to the General Assembly that in the future, Chair-Elect of YSN should be selected together with the selection of Chair-Elects of Commissions.

2.2 Pacific Small Island Developing States Symposium

FIG convened the Pacific Small Island Developing States Symposium at Novotel Lami Bay Conference Centre in Suva, Fiji between 18th and 20th September 2013. The Symposium was hosted by the Fiji Ministry of Lands and Mineral Resources and supported by FAO, UN-GGIM and UN-Habitat/GLTN. The local organizing committee comprised the Ministry, Fiji Institute of Surveyors (a member association of FIG) and the University of South Pacific (an academic member of FIG). 90 participants found their way to Suva to participate in the three day symposium from the following nations: Australia, Austria, China, Cook Islands, Fiji, Germany, Israel, Kenya, Kiribati, Malaysia, Micronesia, New Zealand, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, United States and Vanuatu.

This Symposium has as its background, the seminar held during the XXIV FIG Congress, organized in cooperation with FAO to address the challenges Small Island Developing States are facing in achieving the Millennium Development Goals (MDGs) and with a special focus on the South Pacific Region. The seminar adopted the “Sydney Agenda for Action” that aimed at developing the capacity of our Profession to deal with these challenges.

The theme of this symposium was “Policies and Practices for Responsible Governance” with three thematic tracks -

- Improved governance of tenure of land, fisheries and forests through the implementation of the Voluntary Guidelines on the Responsible Governance of Tenure; [7]
- Improved geospatial information management through the strengthening of geodetic reference frame, national spatial information infrastructure, the creation, sharing and delivery of reliable geospatial information; [7]
- Securing access to land, land and property rights including the administering of customary rights and implementing a plurality of tenure system.

Crosscutting themes included capacity development, professional development and climate change. The outcome of the Symposium is the “Suva Statement on Spatially Responsible Governance” (Appendix 1).

3. Membership

At each General Assembly, new members are admitted or confirmed while others that have failed to

fulfil the obligations of membership in accordance with our Statutes and Bye-laws were removed. After the 2013 Working Week in Abuja, our membership stands at:

Member Associations	103	from 87 jurisdictions
Affiliate Members	41	
Academic Members	92	
Corporate Members	21	
Correspondents	3	

During this period, Council reviewed and accepted a number of applications and will recommend these to the 37th General Assembly accordingly. Equally, Council has to act and will propose member associations, that are in arrears for three or more years for expulsion together with corporate, affiliate and academic members that were in arrears, after much effort to retain their membership. Council too has received notice of termination of membership.

A summary of the membership situation for the reporting period (as at 15th April 2014) is as follows

-

	New Application/ Appointment	Resignation/ Termination	Proposed Expulsion
Member Associations	1	1	3
Affiliate Members	3	0	1
Academic Members	0	2	1
Corporate Members	3	1	0
Correspondents	0	0	0

Council recognized that, overall, our membership numbers continue to decline due to terminations and expulsions arising from unsettled arrears. At the same time, members continue to face challenges in sustaining its membership. Council continues to be conscious of the economic condition that members are operating under and in particular member's challenges with their national membership and budgets.

Council and FIG Office will continue to be prudent in its financial management and have propose that the level of subscription for member associations for 2016 be at the same level as 2015, the fourth year in succession where the level of subscription are kept at the same level. This has imposed constraints in the overall FIG administration and services delivery. In addition, Council has also agreed on two administrative measures related to the recovery of arrears and retention of existing memberships. The first involves efforts to recover arrears and encourage members association who are in arrears to sustain their membership, the second measure allow FIG Council to accommodate members who are facing internal civil strife and instability or external economic sanctions, where the member association has no possibility to transmit their membership subscription or could not be reliably contacted.

There remains a need to improve efforts to articulate and communicate the value and benefits of membership, the cascade progress achieve at the global levels to the operating levels, where our membership are present day-to-day.

4. FIG Administration

The current staffing of the FIG Office is as follows:

- Louise Friis-Hansen, FIG Manager, responsible for general management, developmental/ strategic tasks, oversight of administration, finances, events, membership matters (particularly in relation to corporate members), council/ commission matters, IT,

- communication and Foundation secretariat duties
- Hanne Elster and Claudia Stormoen, FIG Office and Events Coordinators responsible for membership administration, website maintenance, communication tasks, detailed planning and organisation of FIG events, and Foundation administration etc.
- Maria Bargholz, FIG bookkeeper (part time) responsible for bookkeeping and financial administration of events.

Markku Villikka's tenure as FIG Director ended on 31st July 2013 and Julie Hyun Sook LEE's tenure as FIG Development Coordinator ended in February 2014. The Council is grateful to LX-KCSC for its invaluable support to the FIG Administration for the secondment of Julie to the FIG Office for a year.

Markku Villikka started working in the FIG Office from January 1999. Together with five councils, a number of staff and many volunteers, he has established the FIG office to what it is today. FIG events were developed and shaped to Congresses, Working Weeks and Regional Conferences. Our heartfelt appreciation and thanks to Markku not only for his years of service to FIG since the founding of FIG's Permanent Office in Copenhagen, but also his passion for the Profession.

5. Commissions and Networks

FIG Members are urged to nominate and support capable national delegates and correspondents to the Commissions and Networks especially when FIG Commissions and Networks are preparing a new work plan for the ensuing term of office. The XXV FIG Congress will be an ideal occasion to introduce new delegates and correspondents to interact, contribute and participate in the work and activities of the Commissions and Networks. These efforts are vital to bring benefits and outputs from the Commissions and Networks to the local membership.

VP Rudolf Staiger, the Chair of ACCO will coordinate with the ten Commission Chairs as well as the two Networks that will be making their respective reports to the 37th General Assembly. In essence this will be the final report by current Chairs of FIG Commissions and Networks to the General Assembly.

6. Task Forces

The Chairs of FIG Task Forces will make their respective reports to the 37th General Assembly and will be their last reporting as all three FIG Task Forces will bring their respective work plans to a close by the end of the year if not earlier.

Council acknowledges its gratitude to Dr Diane Dumashie (RICS, United Kingdom), Chair of the FIG Africa Task Force, Prof. Dr. John Hannah (NZIS, New Zealand), Chair of the FIG Task Force on Surveyors and Climate Change and Dr. Chryssy Potsiou (TCG/HARSE, Greece), Chair of the FIG Task Force on Housing and Property for their leadership and together with all the members of their Task Forces, for their contributions and efforts.

7. Engaging the Membership and Visits

Council travels and visits were managed and focused on engaging the membership and delivering the Council's Work Plan. For the period covered by this report, FIG continues to engage the membership, primarily through the participation of events. Apart from the 2013 Working Week and the Pacific Small Island Developing States Symposium, events participated included -

2013 South East Asian Survey Congress, 18 – 20 June 2013, Manila, The Philippines. This is a biennial

regional event convened by the ASEAN Federation of Land Surveying and Geomatics. Participants at this event included those from within FIG's membership in the ASEAN, East and South Asia and Australasia regions. The 13th SEASC will be held in Singapore in 2015.

2013 New Zealand Institute of Surveyors Conference, 28 – 31 August 2013, Dunedin, New Zealand. The Conference was also in celebration of the 125th anniversary of NZIS as well as the 50th Anniversary of the National School of Surveying, University of Otago. With the theme “Celebrating the Past - Redefining the Future”, the Conference included an exhibition was held at St David’s Lecture Theatre Complex, University of Otago. Prior to the Conference, there was the working visit to the proposed venue for the 2016 FIG Working Week, the CBS Canterbury Arena and Addlington Raceway and Events Centre. The meeting was necessary to consider the challenges and opportunities these facilities present. NZIS was founded in 1888 as a national body to preserve and develop the integrity and status of the profession of surveying in New Zealand with a National Office in Wellington, guided by an elected president and councilors. The Annual General Meeting that was held during the Conference saw Jeffrey Alan Needham taking over the Presidency of the Institute from Andrew Stirling.

2013 SSSI Victoria Spatial Summit, 12 – 13 September, Melbourne, Australia. The Summit has the theme “Catalyst for Innovation” and the President made a presentation that addressed the theme. A day prior to the Summit, FIG Commission 1 held a workshop at the same venue on “Redefining the Definition of Surveyor”. While the President was in Melbourne, he held discussions with *Department of Infrastructure Engineering and Centre for SDIs and Land Administration, The University of Melbourne* and also the *School of Mathematical and Geospatial Sciences, RMIT University* where he participated in a seminar involving geospatial sciences students of the School in RMIT.

5th FIG International Land Administration Domain Model Workshop, 24 – 25 September 2013, Kuala Lumpur, Malaysia was held in conjunction with the annual International Symposium on Geoinformation, with is a regional event. The *Faculty of Geoinformation and Real Estate, University of Technology Malaysia* played host to these events at the University’s Kuala Lumpur campus.

The FIG Office received a *visiting delegation from MAKLI, Finland* on 4 October 2013 led by its President, Jari Ahonen as well as Martti Pietikäinen, MAKLI’s delegate to FIG. Members of the delegation came various parts of Finland, the visit, interaction and exchanges presented opportunities for FIG to better explain its activities and efforts to enhance the relevance of the Profession to its membership.

19th InterGEO Trade Fair and Conference, 8 – 11 October 2013, Essen, Germany. FIG Vice President represented the FIG Council at this annual event and this year, both Louise Friis-Hansen and Hanne Elster also participated. The event represented another opportunity for FIG to meet and interact with its Corporate Members.

10th National Representative Assembly of the Chinese Society of Geodesy, Photogrammetry and Cartography (GSGPC), 10 – 12 October 2013, Beijing, PR China. This is a national event and FIG Vice President, Prof. Pengfei Cheng represented FIG Council, the first time FIG was invited to this national event and an opportunity for FIG to be more widely known inside PR China.

1st FIG Young Surveyors European Meeting, 17 & 18 October 2013, Lisbon, Portugal with the theme “together for tomorrow’s challenges” brought together about 150 young surveyors from 32 countries that begin work towards a European Network of Young Surveyors to face the challenges. The event was organized by the *Ordem des Engenheiros, Portugal (Portuguese Order of Engineers)* and the *FIG Young Surveyors Network*, supported by *CLGE (represented by its President Jean-Yves Pirlot)* and *FIG Foundation (represented by its president John Hohol)*.

2013 FGF General Assembly, FIG Commission 7 Annual Meeting and International Symposium on “Land

Policies and Land Governance”, 21 – 25 October 2013, Yaounde, Cameroon. During the week, there was also FIG/FGF Training Workshop in Land Administration that was supported by the Global Land Tool Network facilitated by UN-Habitat. The event was hosted by Ordre National des Geometres du Cameroun (OGEC) otherwise known as the National Order of Surveyors Cameroon.

Immediate after the conclusion of the biennial Global Land Tool Network 5th Partners Meeting in Den Haag, the President paid a visit to *Geo-Information Netherlands (GIN)* and the *Dutch Kadaster* in Apeldoorn before travelling to Enschede, The Netherlands to visit *University of Twente/ITC* (14 & 15 November 2013). This kind of visits continue to foster closer collaboration between FIG Memberships and FIG Work Plan and also allowed FIG to expressed its appreciation to the senior management of these organizations for the support and contribution to the Profession. Whilst at Enschede, President had the opportunity to meet and interact with post-graduates students.

6th National Geospatial Symposium, 17 – 18 March 2014, Putrajaya, Malaysia with the theme “Geospatial Drives National Vision”. This was the first time FIG could accept an invitation to participate and address this event, a national event convened by the Ministry of Natural Resources and Environment Malaysia where the primary audience came from the public sector.

FIG Foundation President, John Hohol represented FIG Council at the recent *CLGE General Assembly* held on 21-22, March 2014, Marbella, Spain. The next CLGE General Assembly is scheduled for 26 – 27 September 2014 in Reykjavik,.

1st FIG Young Surveyors North American Meeting, 14 & 15 April, 2014, San Diego, United States where Prof. Steven Frank, Chair of FIG Commission 2 (Professional Education) represented the Council. The National Society of Professional Surveyors (NSPS), FIG’s Member association in the United States hosted this event, but organized by young surveyors and was held during the NSPS Spring Meeting. NSPS subsequently created the position of NSPS Young Surveyors Coordinator and appointed Amanda Askren, who incidentally participated in the 1st FIG Young Surveyors European Network Meeting. The NSPS Board of Directors also appointed its Board Member, Frank Lenik, as the liaison between FIG Young Surveyors North American Network and NSPS.

FIG President visited the *Siberian State Academy of Geodesy*, Novosibirsk on 15 April 2014 and was shown around a number of the Academy’s laboratory including that of cadastral engineering and terrestrial laser scanning. The President was also shown the Academy’s Planetarium and later in the evening, visited a private cadastral engineering enterprise that employs SSGA’s graduates based in Novosibirsk. Earlier in the day, the President met the Rector, Prof. Alexander Karpik and participated in a forum with the students of the Academy, fielding many questions.

10th Interexpo GeoSiberia, 16 – 18 April 2014, Novosibirsk, Russian Federation had as its theme “Geoinformation Technology Applications for Socio-Economic Benefits of Territorial Development”. This annual event is organized by the Siberian State Academy of Geodesy and combines an international exhibition and scientific conference. This year’s event also saw the organizer hosting the ISPRS Council Meeting and was also supported by ICA and DVW, Germany. It again represented another opportunity for FIG to engage and to collaborate with its membership in the Russian Federation and the region.

Vice Presidents also had on occasion, the opportunities to engage members (including FIG Affiliate, Academic and Corporate members) at various international, regional and national meetings and events including those organised by regional and linguistics groupings within FIG such as CLGE, ASEANFLAG and FGF and FIG Commissions, Networks and Task Forces. There were a number of occasions where Commission or Network Officers represented FIG and participated in these meetings and events.

8. Collaborative Activities with the World Bank

The Annual World Bank Conference on Land and Poverty brings together representatives from governments, civil society, academia, the private sector and the development community to discuss issues of concern to practitioners and policymakers worldwide. The conference aims to foster dialogue and sharing of good practices by showcasing the diversity of reforms, approaches and experiences that are being implemented in the land sector around the world.

The Bank and FIG has had strong formal partnership since 2007. Over the past two years (2012 and 2013) FIG and the Bank have jointly organized successful spatial tracks for this annual Conference:

- 2012 – day long forum comprised of sessions held in parallel to the main conference followed by an evening round-table, with the focus on Spatially Enabling Government and Societies (SEGS).
- 2013 – nine specifically designated spatial parallel sessions and a post-conference “invitation only” Expert Group Meeting on the theme “Spatially Fit-for-Purpose”.

The 2014 Land and Poverty Conference was attended by over 1,200 participants with a program that spread, for the first time, over four days and FIG and the Bank jointly and successfully organized a day-long open Forum on “Spatial Innovation and Good Practices” on the fifth day. This year’s Conference had an overall focus on the Post-2015 UN Development Agenda and the theme is ‘Integrating Land Governance into the Post-2015 Agenda: Harnessing Synergies for Implementation and Monitoring Impact.’ The 2014 conference focused on building a shared understanding of best practices in land governance by providing opportunities to strengthen collaboration between diverse experts. The Conference had seven thematic areas:

- Securing and protecting land rights from a gender perspective
- Managing urban landscapes
- Attracting responsible land-based investment for local benefits and common resource management
- Maximizing benefits from spatial data
- Strengthening country level institutions
- Fostering transparency in land ownership, use, and administration
- Research on key aspects of land governance

The one-day long Forum, immediately after the 2014 Land and Poverty Conference (March 24 - 27) on 28th March 2014 within the Bank’s premises in Washington DC was open to all registered participants to the Conference. Prior notification of attendance was requested and over 130 responded. The Forum covered a number of themes focusing on the contribution of spatial technologies and practices to support the Post-2015 Development Agenda. These themes include data collection, data management, data access, data and information sharing, analysis and analytics, visualization and presentation and delivery systems and services particularly when considering the challenge in locating, connecting and delivering information with both geographic and temporal context from differing scales and sources to governments and societies.

The Forum witnessed the launch of the joint World Bank and FIG *Declaration on Fit-for-Purpose Land Administration* (Appendix 2) providing the framework on getting the right data and information, the right processes and technologies, all for the right purposes. This Declaration is part of the Joint FIG and World Bank Publication on Fit-for-Purpose Land Administration (FIG Publication Number 60) with Prof. Stig Enemark as the lead author and Dr. Keith C Bell (WB), Dr. Christiaan Lemmen and Robin McLaren as his co-authors.

The one-day Forum observed a move beyond land administration to pervasive spatial integration of society. The Forum observed that the Profession and its partners are at the forefront, channeling these developments for progressive global change. The Forum concluded that the barriers to closing

this gap are no longer technological, spatial technologies and practices are today pervasive, affordable and accessible, but rather of capacity, institutions and politics. It is now overdue to bring these worlds together. The partners and participants at the Forum have yet to make significant stride in political, institutional and capacity development at scale. This is needed if the Profession wants to contribute towards “Realizing the Future We Want for All”, the world of Post-2015 UN Development Agenda.

9. Collaborative activities with the United Nations

FIG continues to recognize that our Profession must consider and contribute to the wider good, the needs within society, environment and economy on top of our professional competence and responsibilities in measurement, its related methodology and accuracy and that of technological sophistication.

9.1. Global Land Tool Network facilitated by UN-Habitat

Modernising Land Agencies Budgetary Approach: Costing and Financing of Land Administration Services in Developing Countries (CoFLAS)

FIG with the support of Lantmäteriet (Sweden) and Kadaster International (The Netherlands) collaborated with Global Land Tool Network (GLTN) and embarked on a process to develop a tool that can assist policy makers and those responsible for land administration to adopt appropriate technologies, methodologies and processes that will provide land administration services more efficiently, cost effectively and with options more appropriately tailored for incorporating all tenure types.

The first objective of the CoFLAS project is to develop a useful and practical tool whereby the costing and financing of land administration services in developing countries can be reformed or revitalized and modernized with a view to enabling the agencies to provide cost effective, efficient, sustainable and affordable services. The methodology, where appropriate and through incremental process, ought to lead to some kind of cost recovery, but without compromising quality of services provided and limiting access to services especially of the poor and vulnerable.

The second objective of the CoFLAS project is to organize and lead a process of peer reviewing and validation of the tool development process through the convening of meetings of experts. To date, two such meetings have been convened. The first was hosted by Kadaster International in Rotterdam, Netherlands May 16-17, 2013 and brought together the global experiences of land administration reform professionals to understand the information that needs to be gathered within this process. Lantmäteriet hosted the second meeting in Gävle, Sweden, 14 - 15, October 2013. This second meeting updated all stakeholders on the status of the CoFLAS tool development exercise and obtained further expert guidance on the way forward.

It must be appreciated that there are significant economic and social benefits for ensuring an inclusive land administration system. The challenges that this tool will try to grapple with are finding optimal solutions whereby these new realities and multiple trends can be accommodated with a view to making land agencies relevant to the time and the public they serve. The development of this tool, mindful of the social fabric of land tenure, will concentrate investigations on the various costs and methods of land administration service delivery and alternative means of financing such services. The tool will not provide countries with single solution, but instead will describe a range or ranges of options that can be appropriately adopted according to the laws, policies, institutional arrangements of the jurisdiction, the capacity and ability to enhance as required. The aim of this tool is to guide decision makers through an appropriate and incremental process towards improving efficiencies with good practices and budgetary options, but without compromising the quality of services

provided, nor limiting access to services especially for the poor and vulnerable.

Social Tenure Domain Model (STDM)

FIG undertook a peer review of the STDM Phase II with a group of recognized academics, researchers and practitioners from FIG's membership base. Reviewers affirmed the five crucial elements of the STDM - its flexibility, simplicity, affordability, inclusivity and its advocacy for good governance. They believed STDM can help to improve the wellbeing of societies through better administration of land and its resources; this administration can be made more effective by improving the processes, collection and aggregation of associated land information. Within FIG, STDM is seen, and is thus reviewed as, a pro-poor, participatory and affordable land tool. It is an alternative and/or another option to "doing business" in the land sector and has the potential to provide security of tenure at scale due to its innovative approach.

The focus of the STDM has been and will continue to be "about relationships between people and land, independently from the level of formalization, or legal standing of those relationships".

STDM is focused on people - all people and all types of "people-to-land" relationships. It began as an initiative to support pro-poor land administration, specifically in countries with very little cadastral coverage, in urban areas with informal settlements or in rural areas with customary tenures. It is also meant for post-conflict areas. STDM is also relevant in situations where a land rights infrastructure already exists; it supports and supplements existing approaches to enhance existing land administration and management.

FIG must remain a committed partner to the STDM and, together with GLTN and other GLTN partners, the responsibility to ensure STDM remains true to its founding concept and ideals. FIG should contribute to its continuing development, enhancement and use as an effective pro-poor, participatory and affordable land tool. FIG also has a responsibility to actively create awareness and promote the usefulness and use of STDM as a tool among its membership and its sphere of influence.

In discharging these responsibilities, a one-day workshop on "Introduction to STDM: A pro-poor land information system" was held to an audience comprising primarily of officers from public agencies in the land sector on 23 September 2013 in Kuala Lumpur, Malaysia. University of Technology Malaysia, Department of Survey and Mapping Malaysia and the Association of Authorised Land Surveyors Malaysia hosted this workshop. FIG Young Surveyors Network and GLTN Secretariat delivered it.

At the XXV FIG Congress, a second "STDM Training-the-Trainers Workshop" will be convened in collaboration with GLTN in Kuala Lumpur, 13 - 16 June 2014 and targeting young professionals/surveyors from both FIG membership base and international civil societies primarily from the Asia Pacific region. A further such workshop is being planned, targeting young professionals from international, regional and local civil societies in Africa in the last quarter of 2014. These collaborative training activities are to be delivered by FIG Young Surveyors Network and GLTN Secretariat.

Continuum of Land Rights and Increasing Urban Tenure Security

The continuum of land rights is a key GLTN concept that underpins many of GLTN approaches and tools. There is the growing acceptance of the continuum of land rights and of alternative forms of tenure, all part of a fundamental paradigm shift in the global understanding and approaches to land. Arising from this growing acceptance of the legitimacy of a range of land rights and alternative forms of secure tenure, GLTN undertook a research project titled "Increasing Urban Tenure Security: Investigating the continuum of land rights in practice in selected sites in Southern Africa" in partnership with another GLTN Partner, Urban LandMark

As part of this research, an Expert Group Meeting (EGM) on “The Continuum of Land Rights: Reviewing the concept and investigating the evidence in selected sites in Southern Africa” was convened (9 - 11 October 2013, Johannesburg, South Africa). The EGM brought together GLTN Secretariat, GLTN partners, FIG being one, international and local experts and implementers, to review the continuum of land rights, with specific reference to the research in five Southern African countries. One of the findings, relating to a move into country-level work, is the development of a new tool, a ‘Continuum Assessment Framework’, which could assist in the research and documentation of the context specific application of the ‘Continuum of Land Rights’.

Valuation of Unregistered Land and Properties (VaLURL)

The key objective of this new GLTN initiative is to research and then consider and develop approaches and alternatives to support the appraising or valuation of unregistered land and properties. As there exist general consensus that about 70% of land units/parcels are not formally registered in the developing world, this has adversely impacted occupiers and/or owners of these unregistered land and properties, not just in the access to proper valuation services but also access to basic services and infrastructure and an entry-point to the property and development ladder.

The initiative will lead to consultations on the development of a tool on valuation of unregistered land and properties, building on the earlier research carried out by RICS Research and GLTN titled “Valuation of Unregistered Lands”. The initiative will lead to the conceptualization and development of a new GLTN tool. FIG with the support from its membership including RICS will collaborate with GLTN to realise this needed tool.

Global Land Tools Network 5th Partners Meeting

The 5th edition of the GLTN partners' meeting was hosted by the Government of the Kingdom of The Netherlands at Den Haag, 11 – 14 November 2013. It had three main objectives:

- Strengthening partnerships and networking at global, regional and national levels.
- Promoting and rolling out tool development and implementation, capacity development and good learning practices at country level and in programmes.
- Expanding country level operations in a coordinated and strategic fashion.

President, incoming Chair of Young Surveyors and FIG Manager represented FIG.

9.2. United Nations Global Geospatial Information Management

Third Session of the United Nations Committee of Experts on Global Geospatial Information Management, 24 – 27 July, 2013, Cambridge, United Kingdom hosted by Ordnance Survey United Kingdom and organized in collaboration with UNGGIM Secretariat.

The FIG President was joined and supported by Mr. Gordon Johnston, Vice Chair of FIG Commission 4 at this third session. The final report on ‘Future trends in geospatial information management: the five to ten year vision’ prepared by the United Kingdom in collaboration with the Working Group on Future Trends in Geospatial Information Management was endorsed. The Committee agreed that the document is a “living document” and will need to be regularly revisited, reviewed and revised. FIG prepared and submitted a background document that was referred to when the Committee of Experts considered “Critical issues relating to the integration of land and marine geospatial information”. This background paper was jointly authored by FIG President, Mikael Lilje (FIG Commission 5) and Jerry Mills (FIG Commission 4)

The paper reiterated that to integrate land and marine geospatial information, FIG saw the need to: build and use common standards and frameworks to ensure interoperability; enhance institutional

arrangements and stakeholder collaborations; and improve returns on investment through better coordination, use and reuse of data, information and systems and to enhance innovation and productivity. Building infrastructure for the gathering, validation, compilation and dissemination of geospatial information is as important to countries as the building of roads, telecommunications networks, and the provision of other basic services. This is a critical aspect of the national and global information infrastructure. However, it is increasingly recognized that the major barriers and impediments to building geospatial information infrastructures will not be technical ones, but rather institutional and organizational, including the ability to motivate countries to collaborate with one another.

Working Group on Development of a Statement of Shared Principles for the Management of Geospatial Information

The establishment of a working group was requested by the UN-GGIM at its third Session in its decision 3/108, “development of a shared statement of principles on the management of geospatial information”. The overall objective of this “Working Group on Development of a Statement of Shared Principles”, FIG being a member, is to prepare a preliminary proposal for a set of shared principles on the management of geospatial information. The proposal should provide simple, but clear statements, principles/common values that would help to guide the behaviour of, and serve all national and global geospatial entities engaged in, the collection, production, management, and dissemination of geospatial information.

Proposed United Nations General Assembly Resolution on Global Geodetic Reference Frame

The objective of this United Nations Resolution is to ensure the sustainability and enhancement of the Global Geodetic Reference Frame by:

- a) Encouraging enhanced global cooperation in geodesy;
- b) Encouraging maintenance and enhancement of geodetic infrastructure;
- c) Encouraging free and open geodetic data access policies and reducing data security concerns;
- d) Motivating Member States to improve international engagement on geodetic matters;
- e) Facilitating improved intergovernmental coordination of geodetic activities, standards and infrastructure development; and
- f) Providing recognition that the contributions by Member States to the global geodetic infrastructure are to the benefit of all.

The aim of this Resolution is to mandate the development of a global geodetic roadmap that addresses key elements of Global Geodetic Reference Frame sustainability and enhancement including: the implementation of geodetic instrumentation and the associated data analysis and product generation, coordinated policies; common standards, methods and approaches; and options for sustainable investment including those made through strategic international partnerships.

Chengdu Forum on United Nations Global Geospatial Information Management

Chengdu Forum on United Nations Global Geospatial Information Management, 15 – 17 October 2013, Chengdu, PR China continues a series of GGIM Forum hosted by the National Administration of Surveying, Mapping, and Geoinformation, Ministry of Land and Resources, People’s Republic of China. The Forum attracted participations from about 40 countries and also included those from international organizations and industry. Vice President, Prof. Pengfei Cheng represented FIG. Mr. Hongbo Wu, the UN Deputy Secretary General recognized the critical role of geospatial information in sustainable development and humanitarian assistance. He observed that UN-GGIM is responding to the multitude of challenges faced by humanity within our global society. The Forum in particular, encouraged efforts in the areas of risk management, disaster reduction and relief.

9.3. Food and Agriculture Organization of the United Nations

The FAO Technical and Awareness Raising Workshop on the Voluntary Guidelines on Responsible Governance, 13 – 15 August 2013, Bangkok, Thailand was organized by Energy, Climate and Tenure Division (NRC), FAO. The Workshop is part of FAO's strategy to raise awareness on the Voluntary Guidelines and to discuss the implementation and use, particularly at the national and local levels. The regional focus of this Workshop is Asia. The final two edition of this series of regional Workshops was in Bogota, Columbia (16th – 18th September 2013) and Sofia, Bulgaria where FIG had suggested our local membership there for FAO's consideration.

The Workshop aimed at supporting activities and actions to improve governance of tenure of land, fisheries and forests with the following objectives-

- Present and discuss the contents and development of the Voluntary Guidelines;
- Discuss and analyse the use of the Voluntary Guidelines in a range of countries and contexts;
- Discuss and propose actions to implement the Voluntary Guidelines and to improve governance of tenure; and
- Link with existing initiatives to create networks at regional and national levels.

The Workshop provided the necessary multi-stakeholder dialogue, bringing together stakeholders (governments, civil society, academia and professionals) to share knowledge, information, experiences and practices on the responsible governance of tenure at the local and national levels. FIG was invited to support and participate in the Workshop and a presentation "The International Federation of Surveyors and the Voluntary Guidelines" was made on the first day of the Workshop.

9.4. United Nations Regional Cartographic Conference for the Americas

The 10th United Nations Regional Cartographic Conference for the Americas was held from 19 – 23 August 2013 at the UN headquarters in New York with the theme "UN-GGIM and the Americas: Addressing global challenges through geospatial information". UNRCC-Americas provides a regional forum to address their common challenges and share experiences and expertise in the field of surveying and mapping, cartography, hydrography, remote sensing, land and geospatial information systems.

The Conference established three technical committees as well as elected the respective chairperson. The three committees are-

- a) UNRCC-A Technical Committee I
United Nations Initiative on Global Geospatial Information Management and the Americas: Strategic, Policy, Economic and Institutional Issues
Chairperson: Mr. Ronaldo Ocampo Alcantar of Mexico
- b) UNRCC-A Technical Committee II
Spatially Enabling Government Through Geospatial Data Collection, Management and Dissemination
Chairperson: Mr. Luis Paulo Fortes of Brazil
- c) UNRCC-A Technical Committee III
Best Practices and Applications, including Climate Change and Disaster Risk Management
Chairperson: Mr. Ronald Jackson (Jamaica)

The technical conference covered various thematic tracks and FIG contributed with a presentation on Spatially Enabled Society, informing the Conference on its work on Spatially Enabled Government and Society. FIG observed an opportunity to link spatially enabling society with the Post-2015

Development Agenda the posed to the Conference a question, whether UN-GGIM will be the intergovernmental mechanism for the location and geography needed for “realizing the future we want for all”?

9.5. United Nations Office for Outer Space Affairs (UNOOSA)

The eight meeting of the International Committee on GNSS (ICG-8), 10-14 November 2013, Dubai, UAE was attended by Mikael Lilje, Chair FIG Commission 5 who is also FIG's representative to UNOOSA and ICG. FIG is an Associate Member of the ICG, formed as a result of recommendations of the UN Committee on the Peaceful Use of Outer Space (COPUOS), as ratified by the General Assembly of the UN. UNOOSA also supported the IAG/ICG/FIG Technical Seminar on Reference Frame in Practice held in Manila, The Philippines in 2013.

9.6. United Nations Economic Commission for Europe (UNECE)

FIG was invited and will be participating in the meeting of international agencies working in land administration and land management convened by UNECE-WPLA Chair on 21 May 2014, Copenhagen, Denmark. FIG will then join in the Working Party on Land Administration Workshop with the theme “The Socioeconomic Potential of Land Administration Services” hosted by the Danish Geodata Agency and the Government of Denmark, 22 – 23 May 2014. At the Workshop, FIG is to represent GLTN and the Partners working on CoFLAS initiative, and to make a presentation on CoFLAS.

The theme for the workshop has been chosen for its relevance to countries in the UNECE region that are striving to provide effective and transparent land administration services, not only to support an effective property market but also as a basis for a range of land administration functions that can benefit society as a whole. The purpose of the workshop is to share experiences and present new and alternate uses of open and interoperable property data.

9.7. United Nations Economic and Social Commission for Asia and the Pacific

UNESCAP working with UN-HABITAT Regional Office for Asia Pacific (UNHABITAT-ROAP) with the support of FAO, the World Bank and GLTN, is intending to embark on a regional land tenure initiative for Asia and the Pacific. It has to be appreciated that Asia and the Pacific as a region has geographical scope that stretches from Turkey in the west to the Pacific island nation of Kiribati in the east, and from the Russian Federation in the north to New Zealand in the south, the region is home to 4.1 billion people, or two thirds of the world's population. The region is diverse on all counts, to say the least.

A region-wide land tenure initiative is necessary to support the region's sustainable social, environmental and economic development, the aspirations and the challenges. FIG has signaled its readiness to support such an initiative. FIG hopes to bring together a coalition of research, education and training institutions from amongst its academic membership base, especially those from the region, to support this initiative.

10. Cooperation with Regional Political Structures

The European Parliament organized a high-level conference on “Property Rights: The missing key to eradicating poverty”, 9 April 2014, European Parliament, Brussels, Belgium. FIG was invited to this high-level conference, to address on “Improving Land Governance in practice” and be part of the

panel discussion. Honorary President Stig Enemark and Jean-Yves Pirlot, CLGE and UBGE President, presented FIG. Nirj Deva MEP, Vice President of the Development Committee and Andris Piebalgs, European Commissioner for Development, jointly convened the conference.

The conference came about following the adoption, with a large majority, in the European Parliament Plenary of the report authored by Nirj Deva MEP - "The role of property rights, property ownership and wealth creation in eradicating poverty and fostering sustainable development in developing countries". The backdrop is the recognition that most of the key challenges of the 21st century - food scarcity, energy scarcity, water shortages, urban and population growth, environmental degradation, climate change, natural disasters and state fragility - are correlated with land governance issues, places property rights at the center of a development policy designed to empower people in developing countries to decide how to invest sustainably in their future.

11. Cooperation with Sister Organizations

Pan American Institute of Geography and History (PAIGH)

After ten years serving as Secretary General of Pan American Institute of Geography and History (PAIGH), Santiago Borrero from Colombia, stepped down from the post on 7 February 2014. PAIGH is a part of the Inter-American system coordinated by the Organization of American States (OAS). Rodrigo Barriga, Chile, has taken over the position as Secretary General. FIG has a MoU with PAIGH for collaborative activities that have a particular focus on Latin America.

International Steering Committee for Global Mapping (ISCGM)

After seven years in the position as Secretary General of International Steering Committee for Global Mapping (ISCGM), Yoshikazu Fukushima retired including from the public service at the Geospatial Information Authority of Japan (GSI). The new Secretary General is Mr. Toru Nagayama who was appointed by Dr. Paul Cheung, Chair of ISCGM. Prof. Dr. Paul Cheung himself assumed the chair of ISCGM only last year. ISCGM, like FIG sits on the Joint Board of Geospatial Information Societies (JBGIS).

Joint Board for the Geospatial Information Societies (JB-GIS)

The Joint Board for the Geospatial Information Societies (JB-GIS) at its annual meeting in Potsdam, Germany on 31 August 2013 reaffirmed Prof William Cartwright from International Cartographic Association as the Chair for a further period of one year. Vice President Rudolf Staiger represented FIG at this annual Joint Board meeting. It remains important for JBGIS to coordinate the busy events calendar each year to ensure that our Professional and scientific activities within our community complement and contribute to one another and are not in conflict.

Publication on "Value of Geoinformation for Disaster and Risk Management (VaLID)"

FIG participated in the collaborative effort under the auspices of JBGIS and led by ISPRS First Vice President Orhan Altan in the preparation of the VaLID Publication that was launch on 3 September 2013, Vienna, Austria at UNOOSA. President Gert Steinkellner of OVG, Austria, represented FIG Council at the launch.

150th Anniversary of the International Association of Geodesy

2013 marked the 150th anniversary of IAG and this was celebrated at its 2013 Scientific Assembly, 1 – 6 September 2013, Potsdam, Germany. Vice President Rudolf Staiger represented FIG at the celebrations as well as the Scientific Assembly.

FIG once again collaborated with IAG in realising the “Reference Frames in Practice Workshop”, 21 – 22 June 2013, Manila, The Philippines. This workshop was delivered through FIG Commission 5 and hosted by the organizers of the 12th South East Asian Survey Congress with the support of ICG/UNOOSA.

IPMS Coalition

FIG is part of the International Property Measurement Standards Coalition (IPMSC), a group of professional and not-for-profit organizations from around the world that has decided to come together to develop an international standard for property measurement. The aim being to work together to develop a unified office property measurement standard that will ensure that property assets are measured in a consistent way, thus creating a more transparent marketplace, greater public trust, stronger investor confidence, and increased market stability. IPMS Coalition is expected to launch the International Property Measurement Standards for Office Building at the XXV FIG Congress.

FIG’s participation is delegated to FIG Commission 9: Valuation and Management of Real Estate, and is represented in the Coalition by its Chair, Frances Plimmer. Colleagues from ACCO and the Standards Network supported FIG Commission 9 in this work.

12. Concluding Remarks

In many of its engagements and collaborative activities, the Profession is realizing that it can, perhaps, bring about change in our lifetime, realizing the transformative potential that our unique position, as the “intersection” between the spatial and the societal, creates. The realization is that “business-as-usual” will not lead us to this bold new world and spatial knowledge and practices, spatial sciences and technologies, with creativity and innovation may well be those elements within the transformation needed for bring about this change.

The Council records its appreciation and thanks to all Member Associations as well as all Corporate, Affiliate and Academic Members; National Delegates and Correspondents; Chairs of Commissions, their Vice Chairs and their delegates and correspondents; Chairs of Task Forces and their members; Chairs of Networks and their members; and last but not least the FIG Administration including the FIG Director, together with the many who are counted within FIG’s corps of volunteers, in one way or another contributed to another eventful and successful FIG year.

CheeHai TEO
President FIG
15th April 2014



We, the participants of the **Fédération Internationale des Géomètres (FIG) Pacific Small Island Developing States Symposium** with the theme “Policies and Practices for Responsible Governance” held at the Novotel Lami Bay Conference Centre, Suva, Fiji on 18th – 20th September 2013, having met in the context to share knowledge, promote understanding and to enhance cooperation for the responsible governance of tenure of land, fisheries and forest, of geospatial infrastructure and information, hereby issue this

Suva Statement on Spatially Responsible Governance

Recognizing Small Island Developing States in the Pacific are unique in their situation and with particular vulnerabilities, remain a special case for sustainable development.

Recognize that Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests outline the principles and practices that governments can refer to when making laws and administering land, fisheries and forest rights, particularly in the administration of tenure and specifically in areas such as the recording of tenure rights, valuation, taxation, spatial planning as well as issues and responses that is required in the recognition and protection of access and rights;

Recognize that the United Nations initiative on Global Geospatial Information Management provides an inter-governmental consultative mechanism on place, locality and geography and plays a leading role in setting the agenda for the development of global geospatial information, infrastructure and its management;

Recognize that key partners of the Global Land Tool Network supported by the Secretariat in UN-Habitat are actively developing pro-poor gender sensitive and scalable land tools in support of the Continuum of Land Rights and alternative forms of secure tenure that include the administering of customary rights;

Recognize that all activities have a geographical and temporal context, and where communities and governments make decisions and organize their affairs through the effective and efficient use of geospatial data, information and services.

Agree that information on geography, custodianship and ownership is foundational for informed decision-making, resilience and sustainability. It is therefore essential that such foundational data and information has authority, currency and is comprehensive, freely available, accessible and usable;

Agree that weak governance hinders sustainable use of the environment, hinders economic growth, can condemn people to hunger and poverty and the loss of lives through violent conflicts;

Agree that responsible governance of tenure systems, of geospatial infrastructure and information management, of human resources and capacities can help reduce undernourishment and hunger, poverty and create opportunities to support social and economic development;

Agree that rights to land as lying on a continuum where tenure can take a variety of forms and may overlap with one another, and the more appropriate form depends on the particular situation and where customary rights, for example, may be preferred in certain situations.

Resolve to fully support the implementation of the Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests; the initiative of the United Nations to implement global mechanisms to foster geospatial information management and the development of pro-poor gender sensitive scalable land tools in support of the Continuum of Land Rights and alternative forms of secure tenure including customary tenures.

Confirm the role of national professional organizations, individual professionals and the importance for continuing professional development for responsible inputs and contributions towards the preparedness of the surveying profession to respond and address the challenges in the region including coastal zones management, marine and climate related issues;

Confirm the importance of and the need for strengthening and modernizing the geodetic reference framework, and national spatial information infrastructure for the sharing and delivery of reliable geospatial information towards improved geospatial information management for social, environmental and economic development;

Confirm the importance of legislation, institutions, common standards and frameworks to improve coordination and ensure interoperability, improved governance of tenure of land, fisheries and forests as well as secure tenure rights for all;

Confirm the need for partnership, to share and collaborate to reduce duplication in these efforts; and

Confirm the need for capacity and professional development including the strengthening of teaching and training institutions.

Suva, Fiji
20th September 2013

**2014 GENERAL ASSEMBLY
FINANCIAL ISSUES (INCLUDING 2013 ACCOUNTS, 2014-17 BUDGETS AND 2016
SUBSCRIPTIONS)**

1. Introduction

This paper provides the General Assembly with an update on FIG's financial progress in 2013, the Council's amended proposed budgets for 2014-16 and an indicative budget for 2017 (recognising that 2015-2017 will be the next Council's term), and other financial matters.

The General Assembly is asked to:

- Adopt the audited 2013 Accounts at Annex A, noting that the audited accounts are in the form of the template approved at the 2009 General Assembly (and provided again at Annex B)
- Endorse the budgets for 2014-17, at Annex C to the General Assembly agenda, noting that there is budgeted a General Reserve that which keeps the agreed 90-100% of regular annual expenditure notwithstanding an increase to 104% at the end of 2013
- Introduction of an IT reserve amounting to €25,000.
- Approve member association subscription levels for 2016, set out in section 5 of this paper.

2. A commentary on FIG income and expenditure for 2013

The global economic situation remained challenging in 2013 but Council and FIG Office implemented a series of prudent and cost containment measures resulting in a €5,738 surplus against a budgeted deficit of €63,250.

Income from membership subscriptions was largely in line with budget except for subscription from member associations that was lower by €21,000 from the revised budget, and lower by almost €50,000 than the 2012 result . This is mainly due to the fact that several member associations had experienced declining individual membership numbers. The General Assembly is to note that general subscription revenue has declined in recent years, in particular for member associations and corporate members. Compared to the 2012 result €10,000 less has been received from corporate members. It was surmised that the ongoing economic situation being the main reason for this decline. Expulsions from membership, a step only taken as a last resort, after repeated attempts to contact the member and recover arrears, were generally as budgeted.

In 2012 a new accounting provision for doubtful debt from subscriptions income was introduced. This was implemented on the recommendation of the auditors, and in line with good financial management practices. This new provision for doubtful debt will reduce further the budgeted income from membership subscription. FIG Council decided, for 2013, to adopt this new and more prudent (or conservative) approach and therefore an extra €10,937 was provided for doubtful debt in 2013. The approach should render FIG's finances in the future less vulnerable. This current approach will be maintained going forward.

Arrears at the end of 2013 were only slightly lower than the previous year. In 2012 subscription arrears amounted to €153,711 and in 2013 €135,987,65 which is still very high. Arrears solely for the current year (2013) were €74,546,30 which is much less than the 2012 arrears at the end of

2012, that is €107,267,98. This is a good sign and shows both memberships' understanding and that there has been a positive response to the effort of the FIG Office. The downside is that arrears in excess of one year are larger than the previous years despite the same effort from the FIG Office. Council again requests all members to pay their membership subscription promptly. This will considerably free up staff time to work on other FIG developmental activities. The size of the arrears again meant that a portion of FIG's reserve holdings is being used to fund FIG cash flow, instead of being invested. Financial income was lower than 2012 that was caused by the prevailing low interest rate regime, which is expected to persist.

Income from the services provided to FIG events was higher than budget due to savings in costs/expenses at the FIG Working Week, and financial contribution towards events administration by FAO and GLTN for various collaborative activities. Therefore 2013 shows a higher event income than expected. Council hopes this trend continues.

Overall, income was €26.5k below budget, and if without the provision for doubtful debt, it would have been €15.5k below budget.

Office costs were below budget (and also lower when compared to 2012 costs), despite the need to retain an additional member of staff to cover the Director's extended sick leave through the 1st half of 2013. Furthermore, the unfavourable exchange US\$/€ rate and also that of €/DKK throughout 2nd half of 2013 had a negative impact because US\$ funds had to be adjusted to the lower exchange rate. Office costs in general are lower than budgeted. If the value of the US\$ will be higher next year this will have a positive impact on the accounts. FIG Office will continue its careful cost management.

The grants to Commission chairs were paid in line with the levels agreed by the General Assembly. All requests from Task Force and Network chairs for support and from Commission chairs for specific support were carefully reviewed prior to any decision. Support for poor Member Associations was granted according to General Assembly decision in 2013.

Council and executive management costs were €34k below budget. This was realised through continuing care and control of travel and meeting costs, the only face-to-face Council meeting in 2013 was held during FIG working week. The President has also been careful when travelling, covering a number of destinations and events in one trip. Some of the travels were partially covered by external sources. It is important also to note that, in many instances, travel by Council members were partially or fully covered by Council members' employers, member associations or by the event hosts. FIG is very grateful for this support, which allow Council members to maintain close contact with its membership and partners during the year. Expenditure was €48k less than budgeted. Overall, the surplus of regular income over regular expenditure was €21k better than budgeted and showed a small surplus of €6884.

Developmental expenditure was carefully monitored against the overall financial position, with monthly updates being produced by the Office, and quarterly reports to Council. There were also some unbudgeted incomes from collaborative activities with partners. FIG Office commenced an IT developmental process in summer 2013 and though €30k was budgeted for IT/Web development, only about 50% was spent.

The final result therefore was a surplus for 2013 of €5,738 against a budgeted deficit of €63,250.

At the end of year, FIG's total reserve stood at €498,711, 116% of regular annual expenditure. The general reserve was 104%.

3. Budgets 2014-17

Annex C to this paper presents proposed revised budgets for 2014, 2015 and 2016 and a proposed budget for 2017. This is to adhere to the requirement for a 4-years ahead budget (decision at the 2009 General Assembly), though mindful that the 3 or the 4 basis year presented falls into the next Council's work plan.

Key considerations in constructing the budget

Council's overriding consideration when preparing the budget was to be as realistic as it has to be, particularly with its forecast since it's a 4-year forward budgeting process. In this regard Council is very mindful of the two key, ongoing risks to the budget:

- predictions about income from events can be made, but factors may arise which affect these. Council has (as described below) reviewed risks from events, and developed models to address these risks.
- potential risks around the level of income from subscriptions in the ongoing economic situation. Council has recognised this risk in the revised accounting approach for the provision of doubtful debt from subscriptions beginning with 2012, but the levels of arrears show that it remains a significant area of concern.

Budgets

Council seeks to ensure a sustainable, effective and efficient Federation. Budgets have therefore been revised to reflect the current realities. When income is forecasted to decline, this has to be balanced by corresponding efforts to reduce operating and developmental costs.

The key changes to the budgets approved at the 2013 General Assembly are:

- Subscriptions are held close to the 2013 final result in light of resignations and 2014 invoiced figures although membership development is an important focus of the FIG office especially focusing on attracting new corporate members;
- Council has agreed to a new payment scheme for academic members to ease the process, retain academic members within FIG and reduce office efforts on payment reminders. This results in a decrease in academic membership subscription by 50% but balanced with greater efficiency in sustaining this category of membership and into the future, new academic members;
- DdL's office rental support to FIG will progressively end in 2016 and thereafter, FIG will pay office rental in full, thus increasing the cost of office rental.
- Returns from events depends on the cost and financing model agreed with LoC and hence for the following years, it has been revised accordingly;
- Administrative costs have been further reduced wherever possible;
- Council and executive management costs are reviewed in the light of activities anticipated for the year. 2014 is a congress year and travel costs are therefore expected to be higher than the 2013 result, but still lower than earlier years.
- IT developmental activity budgets recognized the significant work that is required to upgrade and update FIG's IT infrastructure and systems.

As in previous years, every effort has been made to base the budget on information available as well as to forecast income and expenditures realistically. This is particularly important given the overall economic situation.

Council remain cognizance of the three key financial measures when preparing the budget:

- Key measure 1: there must be a surplus of regular income over regular expenditure each year;
- Key measure 2: there must be an overall surplus over the 4-year Council period;
- Key measure 3: the general reserve must remain within the level of 90-100% of regular expenditure.

Recovery of Arrears from and Retention of Members

FIG Council has agreed on two administrative measures related to the recovery of arrears and retention of existing memberships:

The first measure involves efforts to recover arrears and encourage members to sustain their membership in FIG. The measure aims at motivating members, especially member association to structure their repayment of arrears and current subscription over a period of time in a manner that allow FIG to recover all arrears and the member to remain active in membership. Council may enter into a repayment arrangement that restructure the payment of arrears over a period of not more than 3 years for members whose accumulated arrears are over €10,000. For members with accumulated arrears of less than €10,000, the restructured payment of arrears must be less than two years. Upon receipt of the each yearly-agreed payment, but before the first session of the GA, the member association will be deemed to be up-to-date with its subscription for that year.

The second measure allow FIG Council to accommodate members who are facing internal civil strife and instability or external economic sanctions, where the FIG Office could ascertain or when the situation render impossible to contact them. Thus these members have almost no possibility to pay or transmit their membership subscription. The measure allows the FIG Office to suspend invoicing to these affected members on a year-to-year basis until that point in time when some normalcy is restored within the member's jurisdiction.

Staffing

Current staffing of the FIG Office is:

- FIG Manager (Louise Friis-Hansen) responsible for general management, developmental/strategic tasks, oversight of administration, finances, events, membership matters (particularly in relation to corporate members), council/ commission matters, IT, communication and Foundation secretariat duties
- FIG Office and Events Coordinators (Hanne Elster, and Claudia Stormoen) responsible for membership administration, website maintenance, communication tasks, detailed planning and organisation of FIG events, and Foundation administration etc
- FIG bookkeeper (Maria Bargholz, part time) responsible for financial administration.

FIG Director, Markku Villikka's tenure ended on 31st July 2013. Korean Cadastral Survey Corporation (LX-KCSC), a key member of the Korean Confederation of Surveyors, a member association of FIG, supported FIG's Administration from March 2013 – February 2014 by seconding one of its staff, Julie Hyun Sook Lee to the FIG Office. The Council is extremely grateful to LX-KCSX for this invaluable support.

Organisation of events

The Council and FIG Office have over the last couple of years worked on various concepts for conferences that will ensure that FIG's annual event remains not only the flagship event of FIG but a global forum for FIG's membership, partners and stakeholders. Over the past year, FIG has developed the following operating models for its annual events:

- FIG will handle the overall programme, the technical programme, keynote speakers, international registrations the website, and international exhibitors; and
- The local organisers will handle the contact with the venue; hotels; the local exhibition; local registrations; social events; technical tours; and social tours.

FIG will be reimbursed a fixed sum for its handling, coordination and organization workload for each event.

Variations of the model are possible. The Congress 2014 follows this model and agreements with the Chamber of Graduated Surveyors Bulgaria for WW2015 and New Zealand Institute of Surveyors for WW 2016 are being finalised. We believe that the models and arrangements provide a sound basis for future conferences, and provide an appropriate balance between FIG and local input and expertise.

4. FIG Reserves

As is shown in Annex C, the FIG general reserve at the end of 2013 was 105% of regular annual expenditure. This is above the 90-100% agreed by the 2009 General Assembly. As a 4-year average the general reserve was 104% (the reserve percentage is calculated using an average of four years' regular annual expenditure, as agreed at the 2012 General Assembly).

Council has retained the €25,000 events reserve, for the reasons set out in detail in the Finance Paper to the 2012 General Assembly. In essence, this recognises the risk of organising events, particularly in the current economic climate. Council considered increasing the quantum of this reserve (as had been indicated in the 2012 finance paper), but concluded that with the new arrangements put in place for organising FIG annual events, the reserve can be maintained at €25,000.

Council has introduced a new reserve for IT, recognizing that an effective IT Policy and Infrastructure is vital to FIG going forward. IT can be large investment, and could be difficult to provision from normal yearly budget. Hence Council is proposing a new IT reserve and a sum of €25,000 from the total reserve have been dedicated to this.

The reserves are held in low risk investments, in line with the policy agreed by the General Assembly. Any transfer of the reserves requires approval by two persons, one of whom being the Council member responsible for finance and administration.

5. Subscriptions 2016

The 2013 General Assembly approved membership fees as follows:

Year	Per capita fee	Minimum fee	Maximum fee
2015	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

The 2015 subscription fees were kept at the same level as for 2014. Recognising that the level of the 2016 subscription fees is dependent on the strategies of the new council, this Council remains responsible to propose to the General Assembly the level of subscription for 2016. Council has considered that a small rise in subscription might be appropriate given FIG's financial challenges expected over the coming years. Council is however also conscious of the economic condition that members are operating under and in particular member's challenges with their national membership and budgets. Council wishes to respect this as well and believes that the incoming Council and FIG Office will continue to be prudent in its financial management. Council therefore proposes the level of subscription for member associations for 2016 be at the same level as 2015. However, the incoming Council may review its subscription fees strategies for other categories of membership, in the future.

Year	Per capita fee	Minimum fee	Maximum fee
2016	€4.48 per member up to a maximum of 5,500 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay €2.24 member up to a maximum of 5,500 members.	20 members or €50 (whichever is greater)	5,500 members (€24,640)

6. Conclusion

Council continues to monitor and manage its finances prudently and believes that the budget proposed is realistic and will allow appropriate decisions to be made on levels of operational and developmental expenditure, to ensure the continuing sustainability, efficiency and effectiveness of FIG. Council thanked all members who have paid the annual membership fees promptly.

Bruno Razza
Vice President

Michael Vejgaard Hansen

Carsten Johnsen

Poul Wisniewski

Erik Munk

The International Federation of Surveyors - FIG

Kalvebod Brygge 31-33

DK-1780 Copenhagen V

(Registration No. 21 33 60 76)

Financial Statements for 2013



Table of contents	<u>Page</u>
 Statements	
Statement of the Board of Directors and the Board of Executives.....	2
Independent Auditor's Report.....	3 - 4
 Report of the Board of Directors and the Board of Executives	
Federation Information.....	5
 Financial Statements for 1 January 2013 to 31 December 2013 for FIG	
Accounting policies.....	6 - 7
Income statement.....	8 - 9
Balance sheet.....	10
 Financial Statements for 1 January 2013 to 31 December 2013 for the FIG Foundation	
Income statement.....	11
Balance sheet.....	12

Statement of the Management and the Council

Today the management have discussed and approved the Financial Statements for 1 January - 31 December 2013.

The Financial Statements have been presented in accordance with the generally accepted accounting principles of associations.

In our opinion the Federation and Foundation's financial statements give a true and fair view of the Federation and Foundation's financial position at 31 December 2013.

We recommend the Financial Statements to be approved at the annual general assembly.

Copenhagen, 4 March 2014

FIG Manager

Louise Friis-Hansen

Council:

CheeHai Teo
President

Chryssy A Potsiou
Vice President

Rudolf Staiger
Vice President

Bruno Razza
Vice President

Cheng Pengfei
Vice President

The annual financial report is submitted for approval at the general assembly on / 2014

CheeHai Teo

Independent Auditor's Report

To the members of The International Federation of Surveyors - FIG

We have audited the Financial Statements of The International Federation of Surveyors and the FIG Foundation for 1 January to 31 December 2013, which comprise summary of significant accounting policies, income statement and balance sheet. The Financial Statements are prepared in accordance with generally accepted accounting principles of associations.

The management and the Council's Responsibility for the Federation and the Foundation's Financial Statements

The Management and the Council are responsible for preparation of Financial Statements that give a true and fair view in accordance with generally accepted accounting principles of associations and for such internal control as the Management and the Council determines is necessary to enable the preparation of Financial Statement that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility and Basis of Opinion

Our responsibility is to express an opinion on the Financial Statements based on our audit. We conducted our audit in accordance with International Standards on Auditing and additional requirements under Danish Audit regulation. This requires that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the Financial Statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Financial Statements. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatements of the Financial Statement, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation of Financial Statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the Management and the Council, as well as the overall presentation of the Financial Statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

The audit has not resulted in any qualification.

CONTINUED ON THE NEXT PAGE

Independent Auditor's Report (fortsat)

Opinion

In our opinion, Financial Statements give a true and fair view of the Federation and Foundation's financial position at 31 December 2013 and of the results of the operations for the financial year 1 January to 31 December 2013 in accordance with accepted accounting principles of associations.

Roskilde, 4 March 2014

ERIK MUNK
Statsautoriseret Revisionsaktieselskab
Ringstedvej 71, DK-4000 Roskilde

Carsten Johnsen
State Authorized Public Accountant

Federation Information

Federation

The International Federation of Surveyors - FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V

Telephone: +45 38 86 10 81

Internet: www.fig.net

E-mail: fig@fig.net

Registration No. 21 33 60 76

Registered in: Copenhagen

Financial year: 1 January to 31 December

Council

CheeHai Teo
Chryssy A Potsiou
Rudolf Staiger
Bruno Razza
Cheng Pengfei

FIG Manager

Louise Friis-Hansen

Auditor

Erik Munk, statsautoriseret revisionsaktieselskab
State Authorized Public Accountant
Ringstedvej 71
DK-4000 Roskilde
Denmark

Accounting policies

This Annual Financial Statements have been prepared in accordance with generally accepted accounting principles of associations.

The accounting policies applied for the Financial Statements are consistent with those applied last year.

Recognition and measurement overview

Income is recognised in the income statement when earned, where as costs are recognised by the amounts attributable to this financial year. Value adjustments of financial assets and liabilities are recognised in the income statements as financial income or financial expenses. Also depreciations are recognised in the income statement.

Assets are recognised in the balance sheet when it is probable as a result of a prior event that future economic benefits will flow to the Federation, and the value of the asset can be measured reliably.

Liabilities are recognised in the balance sheet when it is probable that future economic benefits will flow out of the Federation, and the value of the liability can be measured reliably.

On initial recognition, assets and liabilities are measured at cost. Measurement subsequent to initial recognition is effected as described below for each financial statement item.

Anticipated risks and losses that arise before the time of presentation of the Financial Statements and that confirm or invalidate affairs and conditions existing at the balance sheet date are considered at recognition and measurement.

Income Statement

Income and expenses

Items of income or expenses are stated within the period to which they relate irrespective of the payment date.

Balance Sheet

Deposits

Deposits are measured at nominal value.

Receivables

Receivables are measured at amortised cost, usually equalling nominal value less provisions for bad debts.

Prepayments comprise costs incurred relation to the subsequent financial year.

Stocks

Stocks are measured at cost price.

Accounting policies

Investments funds

Investment funds are measured at quoted market price.

Current liabilities

Current liabilities are measured at amortized cost, which corresponds to nominal value.

Foreign currency translation

On initial recognition, foreign currency transactions are translated applying the exchange rate at the transaction date. Exchange differences that arise between the rate at the transaction date and the one in effect at the payment date or the rate at the balance sheet date are recognised in the income statement as financial income or financial expenses.

Receivables, payables and other monetary items denominated in foreign currencies that have not been settled at exchange rate on the balance sheet date and the transaction date is recognised in the income statement as financial income or financial expenses.

Income Statement for 1 January - 31 December 2013 for The International Federation of Surveyors - FIG

	<u>2013</u>	<u>2012</u>
	<i>EURO</i>	<i>EURO</i>
Regular Income		
Member associations.....	260.146	309.305
Affiliate members.....	25.460	26.980
Corporate members.....	77.893	85.815
Academic members.....	20.750	19.780
Less bad debts.....	(20.775)	(19.519)
Less change in provision for doubtful debts.....	(10.937)	(39.063)
	<u>352.537</u>	<u>383.298</u>
Financial income.....	4.399	7.631
Less banking costs.....	(763)	(1.177)
Events, fees charged for services.....	<u>80.000</u>	<u>52.017</u>
Total Regular Income	<u>436.173</u>	<u>441.769</u>
Regular Expenditure		
<i>Administration</i>		
Office costs.....	(159.757)	(165.636)
Outsourced office costs.....	(35.726)	(41.575)
	<u>(195.483)</u>	<u>(207.211)</u>
Marketing and publications.....	(19.930)	(17.714)
Council and executive management.....	(180.876)	(161.061)
<i>Commission support</i>		
Regular grants.....	(30.000)	(30.002)
Regular grants, Young Surveyors Network.....	(3.000)	(3.000)
	<u>(33.000)</u>	<u>(33.002)</u>
Total Regular Expenditure	<u>(429.289)</u>	<u>(418.988)</u>
Deficit of Regular Income/Regular Expenditure	<u>6.884</u>	<u>22.781</u>

Income Statement for 1 January - 31 December 2013 for The International Federation of Surveyors - FIG

	<u>2013</u> <i>EURO</i>	<u>2012</u> <i>EURO</i>
Result brought forward	<u>6.884</u>	<u>22.781</u>
Projects, events - funds received by FIG		
Congress/Working Week.....	5.902	20.000
Other events.....	<u>14.144</u>	<u>0</u>
	20.046	20.000
Development spend		
IT and web development.....	(15.440)	0
Task Force support.....	(547)	(9.370)
Support to poor member associations.....	(2.649)	0
Specific grants for Commissions.....	<u>(2.556)</u>	<u>(3.490)</u>
	(21.192)	(12.860)
Surplus for the year - regular activities	<u>5.738</u>	<u>29.921</u>
Final Result (Deficit)	<u>5.738</u>	<u>29.921</u>

Balance Sheet at 31 December 2013 for The International Federation of Surveyors - FIG

<u>Assets</u>	<u>2013</u> <i>EURO</i>	<u>2012</u> <i>EURO</i>
Current assets:		
Receivables:		
Receivables from members.....	84.345	102.417
Other receivables.....	7.948	15.916
Prepaid expenses Working weeks.....	0	4.496
Receivable VAT.....	1.557	5.725
Merchandise.....	7.318	3.866
Investments funds.....	218.359	221.000
Cash at hand and bankaccounts.....	532.483	386.180
Total current assets	852.010	739.600
Total assets	852.010	739.600
 <u>Equity and liabilities</u>		
Equity:		
Equity at the beginning of the year.....	492.972	463.052
Retained earnings.....	5.738	29.921
Total equity	498.710	492.973
Liabilities:		
Projects in progress.....	55.170	0
Account payable, The FIG Foundation.....	223.208	209.479
Other debt.....	74.922	37.148
Total liabilities	353.300	246.627
Total equity and liabilities	852.010	739.600

Income Statement for 1 January - 31 December 2013 for the FIG Foundation

	<u>2013</u>	<u>2012</u>
	<i>EURO</i>	<i>EURO</i>
Donations		
Personal donations.....	1.032	5.976
Other donations.....	7.272	4.211
FIG Conferences.....	25.000	17.220
Financial income.....	1.863	3.885
	35.167	31.292
 Expenses		
Grants.....	(21.981)	(26.417)
	(21.981)	(26.417)
 Final Result (Deficit)	13.186	4.875

Balance Sheet at 31 December 2013 for The FIG Foundation

	<u>2013</u>	<u>2012</u>
	<i>EURO</i>	<i>EURO</i>
<u>Assets</u>		
Current assets:		
Receivables:		
Account receivable, FIG.....	222.758	209.479
Other receivables.....	1.156	1.156
Cash at hand and bankaccounts.....	<u>5.463</u>	<u>5.556</u>
Total current assets	<u>229.377</u>	<u>216.191</u>
Total assets	<u><u>229.377</u></u>	<u><u>216.191</u></u>
<u>Equity and liabilities</u>		
Equity:		
Equity at the beginning of the year.....	215.191	210.316
Retained earnings.....	<u>13.186</u>	<u>4.875</u>
Total equity	<u>228.377</u>	<u>215.191</u>
Liabilities:		
Other debt.....	<u>1.000</u>	<u>1.000</u>
Total liabilities	<u>1.000</u>	<u>1.000</u>
Total equity and liabilities	<u><u>229.377</u></u>	<u><u>216.191</u></u>

FIG FINANCIAL RESULTS 2012 and 2013

version of 17-03-2014

ANNEX B

	Result 2012	Budget 2013	Result 2.013	Notes	
	€	€	€		
REGULAR INCOME					
Subscriptions					
Member associations	309.305	282.000	260.145	1	
Affiliate members	26.980	25.000	25.460		
Corporate members	85.815	78.000	77.893		
Academic members	19.780	21.000	20.750		
Less bad debts	19.519	20.000	20.775		
Less change in provision for doubtful debts	39.063	-	10.937	2	
	383.298	386.000	352.536		
Financial income	7.631	7.000	4.399	3	
Less banking costs	1.177	250	763	4	
Advertising income	-	-	-		
Events - fees charged for services	52.017	70.000	80.000	5	
Total regular income	441.769	462.750	436.172		
REGULAR EXPENDITURE					
Administration					
Office costs	165.636	168.000	159.756	6	<i>The office provides</i>
Outsourced office costs	41.575	41.000	35.726	7	<i>Member services</i>
	207.211	209.000	195.482		<i>Commission services</i>
Marketing and publications	17.714	20.000	19.930	8	<i>Communication</i>
					<i>Event management</i>
Council and executive management	161.061	215.000	180.876	9	<i>The Council provides</i>
					<i>Promotion of the profession</i>
Commission support					<i>Executive management</i>
Regular grants	30.002	30.000	30.000		<i>Member support</i>
Regular grants - Young Surveyors Network	3.000	3.000	3.000		<i>Event development</i>
	33.002	33.000	33.000		
Total regular expenditure	418.988	477.000	429.288		
Surplus/deficit of regular income over regular expenditure	22.781	-14.250	6.884		
PROJECTS					
Events - funds received by FIG					
Congress/Working Week	20.000	-	5.902	5	
Regional Conference	-	-	-		
Other events and projects	-	-	14.144	10	
	20.000	-	20.046		
Development spend					
Task Force support	9.370	12.000	547	11	
IT and web - developmental activity	-	30.000	15.440	12	
Support for poor Member Associations	-	2.000	2.649	9	
Specific grants for commissions	3.490	5.000	2.556	9	
	12.860	49.000	21.192		
RESULT					
Overall surplus/deficit in the year - normal activities	29.921	-63.250	5.738		
Reserves					
Events reserve	25.000		25.000	13	
General reserve	467.973		473.711		
General reserve as a % of regular annual expenditure	112%		110%	14	
Total reserve as a % of regular annual expenditure	118%		116%		
Notes					
1 writing down of numbers of members for member associations					
2 Provision for following year expulsions introduced in 2012 and strengthened in 2013 in line with strong auditor suggestion and for prudent accounting					
3 Lower interest rate in 2013 - especially on investment bonds, but also very low bank interest rates					
4 Members are asked to cover banking fees when paying membership fee. FIG Office has decided to write off smaller banking arrears					
5 Higher income due to savings in costs					
6 Office costs includes salaries, postage/mail, telecomms, copying, office supplies and equipment, and miscellaneous Large savings on office costs due to careful cost controls caused by the budget figures					
7 Outsourced office costs includes auditing, accounting and IT costs. Savings on costs due to external financing					
8 Marketing and publications includes printing, promotions, Annual Review					
9 Council and executive management includes costs of the Council and the FIG Manager, all travels funded by FIG, and all meeting costs Travel costs were very carefully controlled in 2013, and meeting costs were reduced as there was only one face-to-face council meetings during FIG event Several travels in 2013 by the FIG President were covered elsewhere or by himself					
10 Project handling fees					
11 All requests were met					
12 IT/Web project delayed for several reasons and not finalised in 2013					
13 This reserve has been introduced because of the additional risks for FIG in taking greater management control of events, particularly in the current financial climate					
14 Note that this percentage does not match that in the budget sheets, because the reserve in the budget sheets is divided by the average of annual expenditure over a 4-year period					

	Final 2012 Result	Notes	GA 2012 Budget 2013	Revised Budget 2013	Final 2013 result	Notes	GA 2012 Budget 2014	GA2013 Budget 2014	Revised Budget 2014	Revised Budget 2014	Notes	GA 2012 Budget 2015	GA 2013 Budget 2015	Revised Budget 2015	Notes	GA2013 Budget 2016	Revised Budget 2016	Notes	Budget 2017
PROJECTS AND DEVELOPMENT																			
Events - funds received by FIG																			
Congress/Working Week - share of surplus	20,000	e	10,000	-	5,902	e	45,000	-	-	5,000	e	20,000	-	-	e	-	-	e	-
Regional conference	-		-	-	-		-	-	-	-		-	-	-		-	-		-
Other events	-		-	-	14,144		-	-	10,000	10,000		-	-	-		-	-		-
Commission events	-		-	-	-		-	-	-	-		-	-	-		-	-		-
	20,000		10,000	-	20,046		45,000	-	10,000	15,000		20,000	-	-		-	-		-
Developmental income	-		-	-	-		-	-	-	-		-	-	-		-	-		-
Developmental spend																			
Task Force support	9,370		12,000	12,000	547		12,000	6,000	6,000	6,000		12,000	6,000	5,000		6,000	5,000		5,000
IT and web - developmental activity	-		20,000	30,000	15,440		5,000	15,000	15,000	15,000		5,000	15,000	10,000		5,000	10,000		10,000
Support for poor Member Associations	-		2,000	2,000	2,649		2,000	2,000	2,000	2,000		2,000	2,000	2,000		2,000	2,000		2,000
Specific grants for Commissions	3,490		5,000	5,000	2,556		7,500	7,500	7,500	7,500		5,000	5,000	5,000		5,000	5,000		5,000
	12,860		39,000	49,000	21,192		26,500	30,500	30,500	30,500		24,000	28,000	22,000		18,000	22,000		22,000
RESULT																			
Overall surplus/deficit in the year - normal activities	29,921		-6,250	-63,250	5,738		22,750	-750	-28,250	-14,750		1,750	-7,250	-19,000		-4,750	-19,500		-9,000
<i>[Key measure 2 - this to be positive in total over the term of the 4 year budget period]</i>																			
Exceptional items																			
Total reserves at year end	492,973		493,052	429,723	498,711		515,802	428,973	401,473	474,973		517,552	421,723	455,973		416,973	436,473		427,473
General reserve	467,973		443,052	377,723	448,711		465,802	403,973	376,473	424,973		467,552	396,723	405,973		391,973	386,473		377,473
Events reserve	25,000	i	50,000	25,000	25,000	j	50,000	25,000	25,000	25,000	j	50,000	25,000	25,000	j	25,000	25,000	j	25,000
IT Development Reserve	-		-	27,000	25,000		-	-	25,000	-		-	-	25,000		-	25,000		25,000
Total reserves as a % of regular (4-yearly average) annu	116%		116%	101%	117%		121%	101%	94%	112%		113%	95%	108%		94%	103%		101%
General reserve as a % of regular (4-yearly average) ann	110%	k	104%	89%	105%	k	109%	95%	88%	100%	k	102%	89%	96%	k	88%	91%	k	89%
General reserve as a % of regular annual exp				79%	105%		93%	91%	82%	96%		101%	94%	99%		91%	93%		89%
<i>[Key measure 3 - this to be within the range 90-100%]</i>																			

Notes:

- a Decrease in number of members in particular, member associations; application of new subscription framework for academic members; level of subscription held at 2013 level
 - b Estimate based on anticipated expulsions/Backlog of expulsions in 2011; global financial situation requires to keep expulsions higher
 - c Interest rates forecast to remain lower
 - d Provided for 'old' banking fees not paid with 2013 subscription fee invoices written off
 - e As agreed based on revised model for events organization, regional conference planned for 2016
 - f Careful management of all office costs will continue, rent however is doubled
 - g Travel costs will continue to be very carefully managed; this line will be reduced if overall finances are not within budget. 2013 increase due to Director severance arrangements
 - h Major platform change to commence in 2013, plus significant enhancements to the registration system
 - i This reserve has been introduced because of the risks, including cash flow, for FIG in organising events, particularly in the current financial climate
 - j A new reserve for IT development has been introduced
 - k Currently required to be in 90-100% range
- Note that the formula allows for the cycle of expenditure over a 4-year period as the reserve is divided by the annual average expenditure over 4 years (2011-14 for those years; 2013-16 for 2015 and 2016)

FIG Statutes chapter 5.0 Administration of the Federation

Present rules

5.5 The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council and the term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts on 1 January in the year immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.

Proposal

5.5 The term of office for all elected members of the Council is four years subject to the provisions of section 5.6. No individual may serve for more than two consecutive periods on the Council and the term of office of the president is limited to one period of four years. The term of office for the President, Vice Presidents and the ACCO representative starts ~~on 1 January in the year~~ immediately following their election. For the purposes of this section a single term of two years or less shall not be considered as a term of office.

For the election in 2014 in Kuala Lumpur the Council can propose transitional rules

Background:

In 2006 the first President elect took place in Munich on October 13 - two and a half month before handover to the new President.

In 2010 the election took place in Sydney on April 16 – Eight and a half month before the handover.

In 2014 in Kuala Lumpur the election is on June 21 – more than six month before the handover to the president elected.

In 2006 FIG the new system having elections was invented and there seems no reason for maintaining the old handover system. It is important that the incoming president can act on behalf of the organization based on the election.

The present system having an active outgoing president and an elected incoming president is confusing for the outside world.

The outgoing and incoming president can arrange their continuation and handover process themselves.

FIG Council
Surveyor House
Kopenhagen, Denmark

Solothurn – Switzerland, March 16, 2013

Elections during the Working Week 2012

Mr. President, Members of the Council, dear colleagues

In the election of Commission Chairs 2014-2018 in Rome our well known and certainly hard working colleague Dr. Daniel Steudler lost again with a tiny difference. For geosuisse this is a rather frustrating result, as it is now the fourth failure for this position in the last 20 years. This also creates a certain reluctance among our geosuisse members concerning the FIG membership. They are annoyed to have done the necessary preparation work and to have decided on the necessary organizational and financial measures, and to see that this was for nothing.

Of course, we accept the result, but our analysis shows that FIG should rethink the nomination processes fundamentally. We think that the nomination process according to the FIG Internal Rules for the Election of Vice-Presidents and Commission Chairs Elect is on the one hand very democratic, but on the other hand endangers the sustainability of the FIG as a whole.

Nowadays every member association can nominate any person for a certain function, regardless if this person has a sound relation to and sufficient experience with FIG matters. The General Assembly cannot judge finally, if a person has the necessary experience and qualification. So it can happen that the Council as well as the Commissions are lead by persons who cannot sufficiently take care of the mandate. In case of a lack of support from the nominating association, the damage will be considerable.

We suggest that the nomination process is changed in the following sense:

- Not the member associations nominate a candidate any more directly. They can propose candidates to a respective nominating body;
- For Vice-presidents a regional body formed by the regional associations will have the right to nominate candidates. This makes it necessary that a candidate is better

known and that every region has a representative. The regional bodies have to check if a candidate is eligible and has sufficient support, also in financial terms;

- For Commission Chairs Elect, the nomination right should be with the Commissions themselves. They have to evaluate the candidates and to make sure that she/he is able to fulfill the job. The Commissions are the only bodies that have sufficient knowledge of their members and who are able to judge their eligibility. Commissions will as well negotiate with the national association of the candidate they wish to nominate.

With these adapted nomination principles the pseudo-democratic solution will be replaced by a procedure resulting in a sustainable staffing of the relevant FIG bodies. We think that this is in the sense of a sustainable development of the organization.

We suggest to the Council to reflect on these issues and to submit respective changes of the internal rules to the General Assembly.

With kind regards

geosuisse



Rudolf Küntzel, President

and



Jürg Kaufmann, FIG Honorary Member and Head of the Swiss delegation in Rome 2012

FIG Young Surveyors Network

Report 2011-2014



1. Introduction

This document serves as a report on the 2011-2014 period of the Young Surveyors Network. It identifies the learnings and outputs as the YSN has grown during its second term as a Network within the FIG. It references the revised workplan of the YSN, presented at the 2012 FIG Rome Working Week.

Key achievements of the YSN in the 2011-2014 term include:

- Hosting the inaugural Young Surveyors Conference in Rome with over 120 young surveyors attending from across 40 countries.
- Taking a leading role in delivering FIG commitments, such as the Social Tenure Domain Model training and leading the organisation of the Pacific Small Island Developing States Symposium
- Working closely with the FIG Commissions, Task Forces, Foundation, and members to facilitate technical sessions, young surveyor representation and attendance at key FIG events
- Growth of social media network, including 500 followers on twitter, 3500 on Facebook and 500 on LinkedIn
- Development and hosting of four regional young surveyor meetings across Europe (Lisbon, Portugal), North America (San Diego, California, coinciding with the Californian Land Surveyors Meeting), Africa (Cape Town, South Africa, coinciding with AfricaGEO) and Asia (Kuala Lumpur, Malaysia, coinciding with the 2014 FIG Congress).

2. Terms of Reference

The FIG Young Surveyors Network addresses the need for young surveyor representation within the FIG, and the need to ensure FIG activities are meeting the needs of not only students and young professionals, but also youth as a broad category within society.

Young surveyors are defined as¹:

- Surveyors aged 35 years or under
- Students of surveying
- Surveyors within 10 years of graduating from a Bachelor or Masters Degree.

¹ It must be stressed that the network is provided for those who need it , so there may be many who qualify as 'young surveyors' but who do not require the services of the network, and similarly many who do not qualify but who may still benefit from the network.

Throughout this term, the YSN has grown to better acknowledge the varying needs of young surveyors as they progress within the profession. Students and recent graduates are likely to need much greater support and encouragement to attend and fully contribute to FIG events. They are also more hesitant to take on roles within FIG Commissions. Graduates with 5 – 10 years experience, and/or PhD candidates are much more established in their fields, may have access to a wider variety of grants and fellowships, and have different needs and expectations from FIG events – yet still require support and encouragement to realise the full benefits of participation.

3. Mission

The FIG YSN in its 2011-2014 term has departed from the model of other Networks and Commissions within the FIG, to propose a vision, mission and goals alongside key identified activities. The mission of the YSN was articulated across three core components: to represent, to link and to act. The following details how each of these aspects was achieved:

Represent:

- Young surveyors were enabled to be present at all FIG events through awareness raising, promotion of sponsorship opportunities and advocacy with national member associations
- The YSN Chair and/or Incoming-Chair were present at all ACCO meetings, and held meetings with the FIG Council and Working Groups to ensure the representation of YSN views.
- YSN was invited to several UN-Habitat Expert Group Meetings on Youth and Land, to contribute to the identification of youth needs from land.

Link:

- YSN linked with the FIG Foundation to provide fellowships to FIG events and to host regional YSN meetings that connected young surveyors with the international arena.
- All YSN opportunities are promoted through national member associations, with promotion of co-funding initiatives, to ensure young surveyors were connected to these associations as much as possible.
- The YSN newsletter and social media groups regularly promoted events, both local and international.
- National young surveyor networks have been promoted, with many newly formed during the 2011-2014 period with the support of the YSN (eg. South Africa and Senegal).

Act:

- The FIG YSN has proactively engaged with FIG Commissions, Networks and Partners, including the Global Land Tool Network, ESRI and Trimble to develop projects and opportunities for young surveyors. These have included Social Tenure Domain Model trainings, scoping of a Struve Arc project and the young surveyor stream of the AfricaGEO 2014 event.

4. Goals

1. Young surveyor representative to each Commission

Achieved. Although work will need to be done to ensure this continues with new representatives in the 2015 – 2018 term, and more formal and effective roles are achieved for these young surveyors. Challenges include ensuring continuity in case of changes to young surveyor representatives, and ensuring effective feedback and promotion of Commission events to the wider YSN community.

2. Young surveyor contacts for FIG National Member Associations

Achieved. The African Task Force meetings and Regional Young Surveyor Meetings have contributed to the YSN having contacts across more than 50% of FIG National Member Associations (and several non-member countries). The challenge is now to build on this capacity and better link these young surveyors to the FIG Commissions and Task Forces.

3. Young surveyor delegates from FIG National Member Associations

Partially achieved. Many FIG Member Associations now have dedicated young surveyor streams. Unfortunately these streams are yet to identify the need for an official FIG Young Surveyor delegate. Still, there are many organisations promoting and supporting their young surveyors to attend and participate in FIG events, which is an excellent initial step.

4. Young surveyor event held in each region

Achieved. Regional Young Surveyor meetings have been held in Europe and North America, and will be held at the FIG Congress (Asia) in May 2014 and at AfricaGEO (Africa) in July 2014.

5. YSN assisted in coordination of FIG events

Achieved. The YSN has not only developed and coordinated Young Surveyor Conferences at the 2012 Rome Working Week and the 2014 Kuala Lumpur Congress, but has also coordinated STDM trainings at the Abuja Working Week, at the Commission 7 LADM Workshop and at the 2014 Kuala Lumpur Congress. YSN also played a leading in coordinating the 2013 FIG Pacific Small Island Developing States Symposium.

6. FIG YSN webpage kept up to date

Achieved. With the support of the FIG Office, the YSN newsletters have been posted at the website, alongside promotions for various funding, training and other opportunities.

7. FIG YSN contribution to FIG website redesign

Not achieved. The FIG website upgrade has been delayed.

8. FIG Young Surveyor Facebook page membership and usage

Achieved. The FIG YSN Facebook page has grown exponentially from 2011 – 2014, now including over 3500 people in the Facebook group. Facebook is by far the most dynamic and

collaborative space for young surveyors, with an average of 2 posts per day, and with young surveyors from all over the world regularly posting and contributing.

9. FIG Young Surveyor Linked In page membership and usage

Partially Achieved. The FIG Young Surveyor LinkedIn page is growing in membership and posts, but still struggles to gain the same traction as the Facebook page. This is likely a function of culture, and a lack of YS championing this page.

10. FIG YSN newsletter publications

Partially achieved. The FIG YSN newsletter has published three issues each year, nearly achieving our original aim of quarterly editions. The newsletter is an excellent tool to promote young surveyor activities around the world, and regularly receives submissions from around the world.

11. FIG YSN works with FIG Commissions and Partners to promote surveying

Achieved. The FIG YSN participated in the Commission 1 meeting on the Definition of surveyors and is working with Trimble and the FIG Institution for the History of Surveying and Measurement to develop an African Struve Arc project. Young Surveyors around the world continue to promote surveying in their communities, as demonstrated by numerous posts on Facebook and articles within the YSN Newsletter.

12. FIG YSN works with Commission 1 to develop a report to the FIG Council

Not achieved. This did not develop, but publications from the young surveyors should be a key focus for the future.

5. Key Events

2014	
24 - 27 March	Annual World Bank Conference on Land and Poverty: Land Governance in the Post-2015 Agenda: Harnessing Synergies for Implementation and Monitoring Impact , Washington DC, USA <i>YSN contributed to a joint UN-Habitat/FIG/GLTN Strategy Session on Youth and Land.</i>
13-14 April	FIG Young Surveyors 1st North American Network Meeting, San Diego, California <i>Regional Young Surveyors Meeting organised by FIG YSN</i>
13-21 June	XXV FIG Congress and General Assembly in Kuala Lumpur, Malaysia to include Second FIG Young Surveyors Conference and STDM Training of Trainers, organised by FIG, GLTN and FIG YSN
25 June – 1 July	The 27th International Geodetic Student Meeting (IGSM), Istanbul, Turkey <i>FIG YSN continues to link to the IGSM and will support and provide a representative to attend.</i>
1-3 July	2 nd AfricaGEO Conference, Cape Town, South Africa <i>FIG YSN is supporting a young surveyors stream to this conference</i>

7 – 9 October	Intergeo, Berlin <i>A second Regional Young Surveyors European Meeting will coincide with Intergeo.</i>
2013	
6-10 May	FIG Working Week 2013 Abuja, Nigeria <i>Joint UN-Habitat GLTN and FIG Social Tenure Domain Model (STDM) Training of Trainers Workshop for Young Surveyors /Professionals hosted.</i>
18 – 20 June	South East Asia Survey Congress 2013, Manila , Philippines <i>YSN worked with local young surveyors to deliver a Filipino Young Surveyors Meeting.</i>
18 – 20 September	FIG Pacific Small Island Development States Symposium – Policies and practices for Responsible Governance , Suva, Fiji Website: http://www.fig.net/fiji/ <i>YSN led the coordination and reporting of this event.</i>
23 – 25 September	International FIG Workshop on the Land Administration Domain Model (LADM2013) including Young Surveyor session on <i>STDM – An introduction to a pro-poor land information system</i> , Kuala Lumpur, Malaysia <i>YSN coordinated the one-day STDM side-event.</i>
10 – 16 October	V International Professional Training Course on Topography for Young Surveyors, Lisbon, Portugal <i>YSN worked with local hosts to coordinate the affiliated FIG Young Surveyors European Meeting</i>
17 – 18 October	1 st FIG Young Surveyors European Meeting, Lisbon Portugal http://figysn.ordemengenheiros.pt/pt/
2012	
24-25 January	Expert Group Meeting on Exploring the Youth Dimensions of the Global Land Tools Agenda <i>FIG YSN invited to present</i>
4 – 10 May	FIG Young Surveyors Conference and FIG Working Week, Rome, Italy <i>FIG YSN hosted a Young Surveyors Conference Side-event and sessions throughout the working week.</i>
2 – 6 September	UN-Habitat World Urban Forum 6, Naples, Italy <i>YSN represented FIG and spoke at a panel event on youth and land.</i>
17 – 28 September	IV International Training Course in Topography, Madrid, Spain <i>50 Young surveyors attended. Event organised by CNGeGL.</i>
26 – 28 September	FIG Commission 2 Workshop "Global Trends and Convergence in Surveying Education", Russia <i>FIG YSN supported one young surveyor to attend.</i>
9 – 11 October	Intergeo, Hannover, Germany <i>Students meeting held at which YSN presented</i>
22 -23 October	Africa Task Force meeting in Ghana <i>FIG YSN represented by 6 young surveyors.</i>

5 – 7 November	Trimble Dimensions Conference, Las Vegas, USA <i>FIG YSN supported by FIG Foundation to be present and meet with Californian young surveyors.</i>
26 – 29 November	FIG Regional Conference in Montevideo, Uruguay <i>FIG Young Surveyor session hosted jointly with UN-Habitat GLTN</i>
16 - 18 December	GLTN Workshop on Youth and Land, Casablanca, Morocco <i>FIG YSN invited to attend and present by UN-Habitat GLTN.</i>

6. Publications

Newsletters

April 2012: http://www.fig.net/ys/Newsletters/ys_newsletter_april_2012.pdf

August 2012: http://www.fig.net/ys/Newsletters/ys_Newsletter_Aug_2012.pdf

November 2012: http://www.fig.net/ys/Newsletters/ys_Newsletter_nov_2012.pdf

April 2013 http://www.fig.net/ys/Newsletters/ys_newsletter_april_2013.pdf

August 2013 http://www.fig.net/ys/Newsletters/ys_Newsletter_August_2013.pdf

September 2013 http://www.fig.net/ys/Newsletters/ysn_newsletter_december_2013.pdf

Selected Articles

http://www.gim-international.com/news/id6605-FIG_Working_Week_Opens_in_Rome.html

http://www.gim-international.com/issues/articles/id2013-International_Federation_of_Surveyors_FIG.html

http://www.gim-international.com/news/id6265-Third_Training_Course_in_Topography_for_Young_Surveyors.html

www.profsurv.com/magazine/article.aspx?i=71266

<http://www.profsurv.com/magazine/article.aspx?i=71451>

http://www.isk.or.ke/index.php?option=com_content&view=article&id=167:isk-hosts-a-cocktail-for-fig-young-surveyors-network-chair-&catid=41:news&Itemid=207

www.glt.net

Selected FIG papers and presentations (as at March 2014)

(In Development) Fairlie K. et al. 2014 *Developing Young Surveyors in Africa* To be presented at AfricaGEO, June 2014, Cape Town, South Africa

(In Development) Musungu, K. et al. 2014 *Young Surveyors and International Registration Opportunities*, To be presented at AfricaGEO, June 2014, Cape Town, South Africa

Fairlie, K. and Unger, E. 2012 *The Sustainable Development of Young Surveyors: An Update on Network Status and Needs*. 8th FIG Regional Conference / TS01A - Professional Standards and Practice [17TS01A]

Unger, E. and Navratil, G. 2012 *The Interaction between Student Numbers and the Quality of Teachers - Review and Current* First FIG Young Surveyors Conference - Young Surveyors: Knowing to create the future / Workshop 1.1 - Young Surveying Professionals [16SS03A]

WUF6 statement (2012)

<http://youth21dotorg.wordpress.com/2012/09/12/youth-statement-of-the-6th-world-urban-forum-2012/>

March 2014

Kate Fairlie, Chair, FIG Young Surveyors Network

Eva-Maria Unger, Incoming Chair, FIG Young Surveyors Network

FIG Commission 1 – Professional Standards and Practice

Report for 2013 for Work Plan 2011–2014

1. Title

Professional Standards and Practice.

2. Terms of Reference

- Professional practice, legal aspects and organisational structures
- Codes of ethics and applications
- Changes to society and ways of working and the corresponding impacts on professional practice
- Community perceptions and understanding about the surveying profession
- Participation in FIG Standards Network and Young Surveyors Network

3. Mission Statement

The mission of Commission 1 is to:

- build the capacity of professionals to adapt to changing circumstances: Changes are affecting the operation of surveying practices, their management and their professional structures under the challenges of widening professional activities and a changing world.
- create a community of practice to share knowledge about professional standards and practice challenges and responses by surveying professions.
- build links to regional and world structures for surveying professionals that focus on issues around professional standards and practice.
- support professionals in their work by providing them with tools and approaches to dealing with common practice issues.
- develop individuals as professionals and provide opportunities for them to continue to develop as part of the surveying community.

4. General

Commission 1 will continue the work on the changing nature of surveying work and the role of the professional, work at connecting with other like professional commissions operating in regional organizations, building supporting knowledge and materials for surveying professionals. The Commission will continue its work in the Standards and Young Surveyors Networks.

In general the 2011-2014 work plan aims to:

- Share understanding on the challenges facing professional practice in a changing environment of work and within a changing world.
- Provide opportunities for an ongoing exchange of information around issues on professional standards and practice using new technologies.
- Share knowledge of professional practices around ethical delivery of services.

- Connect with other groups in member associations that promote and develop surveying professional standards and practice to share knowledge and develop possible joint activities.
- Work with Commission 2 to develop ongoing pathways of professional education that support the concept of ongoing professional development.
- Promote cooperative development opportunities and the development of new initiatives by growing knowledge from working together with other commissions on the current and future role of the surveyor, the definition of the surveyor as well as the age-structure within the profession.
- Build activities with world wide standards development and certification through the Standards Network.
- Build activities with Young Surveyors through the active support of the Young Surveyors Network.

The Commission will host the inter-commission working group to consider the current and future role of the surveyor, the definition of the surveyor as well as the age-structure within the profession. The other joint working group hosted by Commission 1 will study the technological, methodological and practical as well as legal aspects on the demarcation of international boundaries.

5. Report on activities for 2013

Working Week; Regional Conference and Seminar Activities:

Environment for Sustainability - FIG Working Week, 6-10 May, in Abuja, Nigeria -

I attended the working week along with Vice Chairs Brian Coutts, New Zealand and Stephen Djaba.

I participated with Brian Coutts in the ACCO Committee Meeting on 5 May. I also acted as head of the Australian Delegation and attended the Member Association Forum on 8 May.

The Commission held its annual meeting at the FIG Working Week in Abuja with about 14 people attending. The group heard about the Work Plan and received progress reports from Working Groups. They contributed ideas to the future implementation of the Plan, issues that were arising across the profession and Commission activities. A good discussion followed and we ended taking the discussion to another room as our one was needed for another session. The changing role of the professional, the need for training and development opportunities across Africa, the wish to promote the profession to women building on successful initiatives in Nigeria and the develop of resources to assist in ethics discussions. Delegates attended representing the Young Surveyors group, members from other FIG Commissions and the FIG Council.

Two technical sessions were held with joint sessions to develop professional activities across a broader sphere. They allowed the themes of a range of our working groups to be developed.

- **Surveying Today and Tomorrow.**

This explored the work being done by Working Group 1.1 and also 1.5 considering the role of social media in how we work.

- **Workshop Discussion on Crowd Sourcing Information and Using Social Networking** – joint session with the Young Surveyors Network and Commissions 2, 9 and 10.

This was a good forum for discussion the work of Working Group 1.5 and identified many good initiatives underway. It highlighted to me that the digital natives, those born in the time of high usage of computing and the internet, were exploring and progressing in this area. The work of Commission 1 in assisting in making this accessible broadly to the profession is important. There is much to learn from our YSN colleagues and how they successfully use social networking as part of their professional lives.

The Changing Role of the Surveying Professional – Looking towards 2020, Melbourne, Australia September 11. 2013

I have included as part of the report the summary article on the day that was published in the SSSI Position Magazine. This workshop was held in Melbourne and organised by the Chair and Vice Chair of Commission 1, Leonie Newnham and Robyn McCutcheon. It was held as a pre-summit workshop for the annual Victorian Spatial Summit. The workshop reviewed the definition of a Surveyor as defined by FIG in 1991. This definition is broad and includes all forms of spatial professionals under its umbrella.

Attendees included the FIG President Cheehai Teo, the Commission 1 Chair Elect Brian Coutts and well-known representatives from the surveying and spatial industry. We also had a few people giving a community perspective. This included a futurist who helped focus on the views of external users of industry services.

In addition to the ‘physical’ attendees the workshop included a group ‘skype’ session. This allowed overseas participants to contribute including Winnie Shiu, a Land Surveyor and Commission 1 Vice Chair from Hong Kong and YSN Member Aliona Scutelnic. It gave excellent audio for recording and listening to those online. We were a little nervous about how this would work but it was very successful. Working Group 5.1 is working on expanding use of new technology and social media to support professional practice and this gave a practical way to demonstrate how it could be used.

The findings were that the content is right but is missing some elements and the wording of the definition needs updating. The group thought that the definition’s focus was for use by an international body. Interestingly, a number of examples were given by workshop members where they had used the definition to support their work at a local and regional level. It does create a framework within which surveyors can work and define our expertise. The role of a surveyor has changed significantly since the previous definition was created and also international diversity makes it difficult for a whole of profession / industry definition to work for everyone without local additions.

The discussion had five key topics:

- New technology/Future scan,
- Young Professionals view on working and fitting into the spatial industry,
- The future of surveying as a regulated profession,
- Education and professional development,
- Underrepresented groups, indigenous groups and those in remote areas.

People nominated as champions for each topic and will prepare a summary of findings for the workshop report. A redraft of the current definition will be attached to stimulate discussion across the FIG worldwide community. Leonie Newnham reported on the outcomes at the Victorian Spatial Summit the next day.

FIG Commission 1 will progress towards a formal change of definition and consider a policy paper to take this further. Leonie Newnham will present a paper on this, jointly authored with nominated champions, at the FIG Congress in Kuala Lumpur in June 2014. Further discussions and input are welcome through our LinkedIn group: <http://linkd.in/16iGj8H>

FIG was the major supporter of this event providing the personnel to organise it while additional sponsors for the FIG workshop were the Surveying and Spatial Sciences Institute, Spatial Industries Business Association and Consulting Surveyors National. We thank all our participants and sponsors of this event.

Speaking Engagements

Robyn McCutcheon, Leonie Newnham and Brian Coutts, Vice Chairs of Commission 1 presented at various sessions of the SSSI Victorian Spatial Summit on 12 September.

General Commission Activities

LinkedIn sub group - Work progressed with building Commission 1 membership and its activity program. The Commission 1 group on LinkedIn has been established as a sub group to the FIG group created by Robyn McCutcheon. There are regular messages posted on this group and some very useful discussions have been held on Commission 1 work through this and other LinkedIn groups especially for our workshop in September last year.

Members participated in the Ninth Annual Victorian Spatial Excellence Awards on 12 September 2013 and we had a Commission 1 Table.

Commission officer news –

- A number of young surveyor's are working with Commission 1's joint activities with the Young Surveyor's group and a number have expressed interest in holding office and/or participating in Working Groups.
- Leonie Newnham was on sick leave from January until March 2014 after an operation. However has recovered well.

6. Working groups

Working Group 1.1 - Changing Nature of Work and the Role of a Surveyor (Joint Working Group with Commission 2)

Policy issues:

- To consider the current and future role of the surveyor
- To review the definition of the surveyor
- To study the age-structure within the surveying profession and prepare proposals how to respond to the competition to market the profession for new generations
- Surveying professionals work in a variety of work environments and are required to respond to constant changes in how they deliver services. This creates challenges to them in how they practice and challenges on how to adapt to change. Identifying and sharing new ways of working from around the world will provide practical examples of ways others have successfully adapted and will build a set of case studies on change.

Co-chairs:

Winnie Shiu, Hong Kong SAR, China, e-mail: shiuwinnie@yahoo.com

Brian Coutts, New Zealand, e-mail: brian.coutts@otago.ac.nz

Specific project(s)

- To consider the current and future role of the surveyor
- To review the definition of the surveyor
- Age structural survey within FIG (implemented by Cecilia Lindén, Sweden)
- Prepare proposals how to respond to the competition to market the profession for new generations

Workshop(s)

- Participation in FIG Working Weeks and other major FIG events with dedicated technical sessions and/or workshops as appropriate.

Publication(s)

- To be determined

Timetable

- Final report at the FIG Congress 2014

Report for 2013 –

Papers produced for Working Weeks on this issue. Also Workshop held on September 11, 2013 along with social media campaign. Details provided in main text above.

Brian Coutts has produced papers on this topic for each of the Working Weeks held and will speak again at the Congress.

Working Group 1.2 – Regulation approaches that provide secure tenure

Policy issues

- Regulation is a way to develop secure land tenure and through this the alleviation of poverty through one of the basic principles of a secure tenure – integrity of the system and the control (elimination) of corruption.
- Reviewing practice around the world provides an opportunity for professionals to share ideas on what has been done in various countries, consider how it was done and learn from others experiences of implementing regulation..

Chair:

- Vacancy to be filled. Request now out to a national delegate to undertake work in this group.

Specific project(s)

- Develop case studies on how countries operate legislative systems that monitor the surveying profession.
- Review aspects of regulation, survey controls systems, the role of educational and professional development systems to develop practice examples.

Workshop(s)

- Participation in FIG Working Weeks and other major FIG events with dedicated technical sessions and/or workshops as appropriate.

Publication(s)

- Publish case studies on regulation approaches around the world.

Timetable

- Final report at the FIG Congress 2014

Report for 2013 –

Brian Coutts has moved into Working Group 1.1 and a new Vice Chair is being sought. There is lots of interest in this topic being generated by members. An approach has been made to a national Commission 1 delegate to chair this group. A paper on Ethics will be contributed to the 2014 Congress however related work on this topic will be delivered in the new work program for the next four years.

Working Group 1.3 – Community of Practice on Professional Standards and Practice

Policy issues

- All professionals face professional standards and practice challenges and find ways to respond effectively. Anyone facing a problem or issues can be certain that somewhere in the world, someone has solved a problem that might be very similar. Developing a way to share practice issues using Web 2 technologies would provide a way for surveying professionals to develop a place where they can share the knowledge of others in dealing with current issues. This will be supplemented by professional standards and practice

issues workshops held at each Working Week and the Regional Conference. Through this regular updates on emerging issues around the world can be obtained.

- There are regional and other structures in place where members also interested and committed to issues around professional standards and practice for surveying professionals. These groups develop ideas and produce papers and possibly publications that are part of a world wide knowledge bank that FIG could access. Building links to regional and world structures for surveying professionals that focus on issues around professional standards and practice will expand our understanding and access to knowledge and resources.

Chair:

- Stephen Djaba, Ghana,. e-mail: Stephen@ghana.com

Specific project(s)

- Linking worldwide with professional groups that focus on issues around professional standards and practice.
- Develop a knowledge management concept for FIG as a professional organization.

Workshop(s)

- Participation in FIG Working Weeks and other major Commission events with dedicated technical sessions and/or workshops as appropriate.
- Professional Standards and Practice Issues workshops at each FIG Working Week and the Regional Conference.

Publication(s)

- To be determined.

Timetable

- Final report at the FIG Congress 2014

Report for 2013 –

Robyn McCutcheon's work on the Commission 1 LinkedIn discussion group and the development of the analysis of issues across FIG based on past conferences and Working Weeks has provided a lot of useful research to develop a common shared interest around the lack of balance around age and gender profiles in the profession. Also the information we received as part of building the September 11 workshop has identified a range of important issues for the profession.

Working Group 1.4 – International Boundary Settlement and Demarcation (Joint Working Group with Commissions 4, 5 and 7)

Policy issues

- To deal with theoretical, methodological and some legal aspects and analysis of a few practical cases in international and national boundaries
- To prepare an FIG publication on international boundary settlement and demarcation all over the world.

Co-chairs:

- Dr. Haim Srebro, Israel, e-mail: haim.srebro@gmail.com
- Dr. Bill Robertson, New Zealand, email: billrobertson@xtra.co.nz

Workshop(s)

- Participation in FIG Working Weeks and other major Commission events with dedicated technical sessions as appropriate.

Publication(s)

- FIG publication on international boundary settlement and demarcation all over the world.

Timetable

- Final report at the FIG Congress 2014

Report for 2013 –

Working Group 1.4 has prepared an FIG Publication on international boundary making. This publication, coordinated and edited by Dr. Haim Srebro, was published by FIG at the end of 2013 as FIG Publication no. 59: International Boundary Making. It was published both in a printed version and in digital form.

The new FIG Publication no. 59 INTERNATIONAL BOUNDARY MAKING elaborates on the process of boundary making. Its purpose is to propose a comprehensive methodology for establishing a boundary making process between two states that wish to constructively and fairly settle their international boundary together. It begins with preparations for a boundary agreement and continues with the boundary delimitation, the boundary demarcation, boundary documentation, and boundary maintenance, including considerations regarding long-term boundary maintenance and administration.

The methodological part, chapters 1- 3, includes a model for initiating a boundary making process, an order of precedence of boundary delimitations, and a model for the boundary chapter in a peace/boundary agreement.

Part two, chapters 3-7, includes practical cases of delimitation of international boundaries. Many lessons can be learned from these diverse cases regarding disputes and regarding the models and mechanisms used for dealing with the issues. The publication focuses on land boundaries between states. The presented practical cases refer to such boundaries, including the following international boundaries: The Israel-Jordan boundary; the Iraq-Kuwait boundary; the Ethiopia-Eritrea boundary; the Cameroon-Nigeria boundary; the Sudan-Abyei (today South Sudan) boundary; and the Nepal-China and Nepal-India boundaries. From the presented problems one can also learn about the various considerations that should be taken when preparing an international boundary for long-term maintenance and administration, in order to achieve stability along the boundary line.

This FIG Publication has been prepared by senior practical professionals, with expertise in boundary delimitation. Three of them served as Director Generals of national surveying and mapping organizations (William Robertson in New Zealand, Dr. Haim Srebro in Israel, and

Buddhi Shrestha in Nepal), and one served as the Head of the UN Cartographic Section (Miklos Pinther).

This FIG Publication may serve as a guide to decision makers, legal advisers and geospatial experts dealing with international boundaries. It may help geopolitical experts anyone who wants to learn the subject of international boundary making. It is intended to promote the sharing of methodological knowledge and experience regarding delimitation of international boundaries and to promote Peace throughout the world.

Working Group 1.5 – Social Media and Surveyors (Joint Working Group with the Young Surveyors Network)

Policy issues

- Survey and recommendations on the use of social media (Facebook, LinkedIn, YouTube, Twitter etc.) in surveying community for member associations
- Raise the understanding of new communication tools within surveying community
- Prepare proposals on using social media in marketing the profession and reaching new generations
- Initiate opportunities for participating in social media at FIG events using skill sharing with Young Surveyors

Chair

- Interim Chair, Leonie Newnham, Australia, e-mail: Leonie.Newnham@dse.vic.gov.au

Workshop(s)

- Participation in FIG Working Weeks and other major FIG events with dedicated technical sessions and/or workshops as appropriate. Test online communication for out-reaching surveyors that do not normally attend FIG events.

Publication(s)

- FIG guidelines for member associations on the use of social media.

Timetable

- Final report at the FIG Congress 2014

Report for 2013 –

A paper on this topic was given at Abuja. There seems to be a lot of interest from across the world and some emerging experts or local champions in this area. Commission 1 work with the LinkedIn discussion group is a way of developing further skills and ideas on how this might work.

The workshop in Melbourne on the Changing Role of the Surveying Professional held on 11 September 2013 had a social media component to allow for ideas and views to be captured prior to the workshop. It also used web technology to allow for overseas participants to be part of the conference along with those physically attending at the venue in Melbourne.

7. Co-operation with Other Commissions and organisations

Commission 1 is co-operating with the two FIG networks on standards and young surveyors. The conference program for Kuala Lumpur includes joint sessions with Commission 2 and 7 and the young surveyors network.

8. Commission Officers

Commission Chair and Initial Co-Chair of WG 1.5

Leonie Newnham
Manager, Diversity Programs and Innovation
Department of Environment and Primary Industries
Level 5, 8 Nicholson Street
East Melbourne, Vic. 3002
Victoria
AUSTRALIA
Tel. + 61 3 9637 8651
Fax + 61 3 9637 9558
Email: Leonie.Newnham@depi.vic.gov.au

Vice Chair of Administration and Communication

Robyn McCutcheon
VMAS Project Manager
Spatial Information Infrastructure
Information Services Division
Department of Environment and Primary Industries
Level 13, 570 Bourke Street,
Melbourne, Vic, 3000
AUSTRALIA
Tel. + 61 3 8636 2346
Email robyn.mccutcheon@depi.vic.gov.au

Vice-Chair and Joint Chair of WG 1.1

Winnie Shiu
Senior Land Surveyor/Mapping Information Services
Survey and Mapping Office
Lands Department
The Hong Kong Institute of Surveyors
23/F North Point Government Offices
333 Java Road
North Point
HONG KONG
Tel. + 852 22313443
Fax + 852 28778520
Email: wshiu@hkis.org.hk

Vice-Chair and Chair of WG 1.1

Brian J Coutts
Senior Lecturer
School of Surveying
University of Otago
P O Box 56
Dunedin
NEW ZEALAND

Tel: +64 3479 7609
Fax: +64 3479 7689
Email: brian.coutts@otago.ac.nz
Web site: www.surveying.otago.ac.nz

Vice-Chair and Chair of WG 1.3

Stephen Djaba
Geotech Systems Ltd
P.O. Box GP 14727
Accra
GHANA
E-mail: Stephen@ghana.com
Tel + 233 21 245945 (work)
Tel + 233 21 766819 (home)
Fax + 233 21 236475

Vice-Chair and Co-Chair of WG 1.4

Dr. Haim Srebro
Survey of Israel
1 Lincoln st.
Tel-Aviv
ISRAEL
Tel. + 972 3 6231901
Fax + 972 3 5610866
E-mail: haim.srebro@gmail.com

Vice-Chair and Co-Chair of WG 1.4

Dr. Bill Robertson
NEW ZEALAND
E-mail: billrobertson@xtra.co.nz

Leonie Newnham
Chair, FIG Commission 1
www.fig.net/commission1

April 2014

Report of Commission 2, 2010-2014

Dr. Steven Frank, Commission Chair

Commission 2 has made some progress on achieving its mission in the areas of curriculum, learning methodology, education marketing and recruitment, and education assessment. The commission has participated in the FIG Working Weeks in Abuja (Nigeria), Rome (Italy) and Marrakesh (Morocco) as well as the FIG Regional Conference in Montevideo (Uruguay). Commission 2 partnered with the Surveying and Geomatics Educators Society (SaGES) for workshops on surveying education in Mayaguez (Puerto Rico) and In Tyler (Texas, USA) as well as coordinated a workshop in Moscow (Russia). In addition, Commission 2 participated in the conference of the National Order of Surveyors in Cameroon (OGEC) in April 2012 where several papers on education were presented.

The working week in Abuja saw two sessions of Commission 2 papers: one session was of special interest focusing on surveying education in Africa; the second session was devoted to assessing education. The working week in Rome held four Commission 2 sessions with 25 papers on all aspects of the Commission 2 Work Plan. Commission 2 also participated in a special Rome Working Week session with the United Nations Food and Agriculture Organization on introducing the FAO Voluntary Guidelines into university curriculums. Commission 2 had 30 papers presented during the Marrakesh Working Week, again covering all aspects of the Work Plan.

The FIG Regional Conference has two sessions of Commission 2 papers, one session in English and a second session in Spanish. Excellent translation services were provided for those participants who were not bilingual.

The SaGES/FIG Commission 2 Workshop in Mayaguez, Puerto Rico, In June 2011 had approximately 30 participants. The meeting was hosted by the University of Mayaguez. Papers were presented on curriculum, student learning, and learning assessment. Most of the presentations were in English with some translation available for the few presentations given in Spanish. There was a good presentation on student projects given by students from the University of Mayaguez. Excellent excursions were made along the east coast with great sampling of Puerto Rican food and entertainment.

The FIG Commission Workshop in Moscow, Russia, in September 2012 was hosted by the University of Moscow (MIIGAK). The workshop had approximately 20 participants on site and another 10 people participating through the Internet. Papers were presented on curriculum, learning methods and assessment/accreditation. There were discussions about having Commission 2 develop an accreditation process that could be used by FIG Academic Members. No consensus was made. Again, the hosts provided an excellent exposure to Russian food and culture. The workshop concluded with a day-long visit to Star City to learn about and view the Russian/Soviet space program. Papers from this workshop are available on the University of Moscow (MIIGAK) website.

The SaGES/FIG Commission 2 Workshop in Tyler, Texas, USA was hosted by Tyler Junior College. Approximately 25 participants attended to hear papers presented on curriculum, learning methods, recruitment and accreditation. Attendees were treated to Texas food and culture culminating with a

trip to Dallas for shopping and museum excursions. Selected papers from this workshop are scheduled to be printed in the near future in the Surveying and Land Information Science journal.

In addition to workshop activities, Commission 2 also reviewed and recommended a series of articles on the Body of Knowledge for Surveying printed in the Surveying and Land Information Science journal. While not covering all aspects of surveying, the articles are good guidelines for developing technical curricula for surveying education programs.

Finally, a trip to New Mexico State University and to Texas A&M University, Corpus Christi, by a delegation of Russian surveying educators was arranged through Commission 2 by NavGeoCom, a Russian company related to Leica Geosystems. The trip allowed an excellent exchange on surveying education in both countries and the opportunity for our Russian visitors to enjoy American food and culture.

Commission 3

Spatial Information Management

Annual Report 2013

FIG General Assembly, June 2014, Kuala Lumpur, Malaysia

General

Commission 3 2011-2014 work-plan is based on several concrete terms of reference:

- Management of spatial information concerned with land and property (data, tools, policies, standards, and regulations);
- Spatial data infrastructure (SDI) – collection technologies, integration processes, maintenance, visualization, standardization, and dissemination;
- Management and dissemination of knowledge and skills for SIM (Spatial Information Management);
- Impacts on organizational structure, business models, Public-Private-Partnerships, professional practice, and administration; and,
- Management of spatial information in supporting good governance.

Within these terms of reference Commission 3 2011-2014 work-plan consists of the following main mission statements, namely:

- Increasing awareness about successful and qualitative SIM approaches and achievements within the “e-Society” framework by demonstrating good practice, including availability, reliability, efficiency, and accessibility of spatial information for better decision making and processes;
- Support of spatial information and SIM-tools usage by surveyors and by all decision-making participants to serve the goals of good governance;
- Share good practice on managerial processes and infrastructure required for data handling, using of information and knowledge distribution;
- Share good practice and develop high-level methods and techniques for merging and managing updated spatial information at various levels according to market requirements;
- Establish and maintain data - and data-quality-standards - relevant to SIM, while cooperating with international spatial data standards committees; and,
- Encourage the use of spatial information within e-government and e-commerce.

Based on these terms of reference and missions, Commission 3 Working Groups focus on the contribution of spatial information for sustainable development. Commission 3 continues to address the phenomenon of rapid urbanization and its impacts with emphasizing on the identification of spatial tools and general principles, norms and standards designed for good governance whilst using reliable and accessible spatial information.

Commission 3 delegates have expressed their strong interest in organizing annual meetings and workshops while concentrating on the specifically identified needs/topics. As in last couple of years, Commission 3 continued the peer review option at its own symposia, and in addition to publishing the accepted peer reviewed papers in special issues of international professional journals (currently in the Survey Review Journal and the Surveying and Land Information Science Journal).

Organization and Working Groups

Commission Chair: Prof. Dr. Yerach Doytsher

Administration and Communication

Vice-Chair for Administration (Communication): Dr. Sagi Dalyot

Vice-Chair for Administration (Events): Mr. Gerasimos Apostolatos

Working Groups

Vice-Chair and Chair of WG 3.1: Prof. Dr. Hartmut Mueller

Vice-Chair and Chair of WG 3.2: Prof. Dr. Ioannidis Charalabos

Vice-Chair and Chair of WG 3.3: Prof. Dr. Peter van Oosterom

Working Group 3.1 – SIM Infrastructure

Chair: Prof. Dr. Hartmut Mueller

WG 3.1 focuses on SIM policy issues; within the information society domain SIM serves as an integrator of components designed for Spatial Information Infrastructure, mainly in urban areas. SIM is a facilitator for IT-based services used by planners, administrators as well as by the public. Thus, the general topics of the WG 3.1 activity involve: NSDI / GSDI - Spatial Data and Information Infrastructure; modelling and geo-visualization; legal aspects related to SIM; and, SIM in respect to LBS.

The national delegates and members of WG 3.1 actively participated in the FIGWW'2013 held on May 2013, Abuja, Nigeria, and in the Annual Commission 3 workshop ("Spatial Data Infrastructures & Spatial Information Management 2013") held on November in Skopje, FYROM/Macedonia (see more details below).

The activity of WG 3.1 is oriented to a FIG-publication on guidelines to establish an efficient SIM Infrastructure in urban areas. The publication planned as a joint publication with WG 3.2 to be published close to the FIG Congress 2014 will be titled "New Trends in Spatial Information: Geospatial Crowdsourcing and VGI".

Working Group 3.2 – Technical Aspects of SIM

Chair: Prof. Dr. Ioannidis Charalabos

WG 3.2 focuses on SIM technical issues. New tools, techniques and policies are required to baseline and integrate the social, economic and environmental factors associated with spatially managing urban areas in general, and cities/megacities in

particular. Technical aspects are concerned with: 2D, 3D, and 4D spatial data collection and management; integration and update of spatial data-bases; standardization of information and metadata; and, visualization of information.

The national delegates and members of WG 3.2 actively participated in the FIGWW'2013 held on May 2013, Abuja, Nigeria, and in the Annual Commission 3 workshop ("Spatial Data Infrastructures & Spatial Information Management 2013") held on November in Skopje, FYROM/Macedonia (see more details below).

Together with WG 3.1, the activity of WG 3.2 is oriented to a FIG-publication on guidelines to establish an efficient SIM Infrastructure in urban areas. The publication planned to be published close to the FIG Congress 2014 will be titled "New Trends in Spatial Information: Geospatial Crowdsourcing and VGI".

Working Group 3.3 – 3D Cadastre (Joint Working Group with Commission 7)

Chair: Prof. Dr. Peter van Oosterom

WG 3.3 focuses on 3D Cadastres issues. The increasing complexity of infrastructures and densely built-up areas requires a proper registration of the legal status (private and public), which can be provided to a limited extent by the existing 2D-cadastral registrations. An on-going main objective of WG 3.3 is to establish an operational SIM infrastructure framework for 3D-Cadastres. The operational aspect addresses: a common understanding of the terms and issues; and, a description of issues that have to be considered before 3D-cadastres can be implemented. Topics dealt within the activity of WG 3.3 are: 3D-Cadastre - models, SDI and time; 3D-Cadastre and its usability; and, analysing alternatives for the realization of a 3D cadastre model. An important work has been done by the WG in preparing a very detailed questionnaire and gathering information regarding the status of 3D Cadastre in many different countries worldwide. More detailed information can be found on the WG 3.3 website <http://www.gdmc.nl/3DCadastres/>

The activity of WG 3.3 is oriented, inter alia, to a FIG-publication on guidelines to establish 3D-cadastres (a "Primer on 3D-Cadastres"), addressing legal, institutional and technical issues (to be published at or close to the FIG Congress 2014).

Events

In 2013 Commission 3 has been active in 2 international events and has participated in a third event:

(a) Participation in the annual FIGWW 2013 conference (May 6-10), Abuja, Nigeria with 4 technical sessions:

3 technical sessions

- TS01D: GeoSpatial Applications
- TS02D: GIS, Mapping Technology and GeoSpatial Implementations
- TS07C: Geospatial Analysis Tool

A joint session

- Joint YSN/Commission 3, 7, 8 Session on Social Tenure

The total number of presentations by commission 3 members at the event was about 20. More detailed information can be found on

https://www.fig.net/fig2013/technical_program.htm

(b) The annual 2013 FIG Commission 3 workshop/conference 2013, (November 13-16), Skopje, FYROM/Macedonia, jointly with FIG Task Force on Property and Housing, and the South-East European Research Association on Geo-Sciences (Geo-SEE). The event was defined as "International Conference: Spatial Data Infrastructures & Spatial Information Management 2013". About 60 participants arriving from close to 20 countries worldwide have attended 9 technical sessions:

- TS1: Cadastre and land management
- TS2: Real estate management
- TS3: Geographic Information
- TS4: Task Force on Properties and Housing
- TS5: Surveying and Mapping
- TS6: INSPIRE and WebGIS
- TS7: Usage of geospatial Information
- TS8: Spatial Information Management
- TS9: Application of GeoInformation

The total number of presentations at the event was more than 40. More information that is detailed can be found on the conference website:

<http://conf2013.geo-see.org>

(c) In addition to these two events, Commission 3 has participated in the "FIG Pacific Small Island Developing States Symposium", held Fiji, 18–20 September 2013. Its participating was by initiating a technical session (including a panel Discussion):

- TS1A: FIG Commission 3 Technical Session - The Importance of Geospatial Information

Planned Events for 2014

Commission 3 will participate and/or organize two conferences and workshops:

- (a) Will participate in the XXV FIG Congress 2014 (June 16-21), Kuala Lumpur, Malaysia.
- (c) Will organize the Annual FIG Commission 3 workshop/conference, Bologna, Italy, 4-7 November 2014. A call for participation and submission of papers will be published shortly.

Prof. Dr. Yerach Doytscher, Chair
FIG Commission 3

April 2014



2011-2014 REPORT TO FIG GENERAL ASSEMBLY



*Dr. Michael Sutherland (Canada, and Trinidad and Tobago)
Chair (2011-2014), Commission 4, International Federation of Surveyors (FIG)
April 2014*

Throughout 2011-2013 and from 2013 to the present time Commission 4 faced a number of setbacks caused by the deaths of a working group Chair (The now former Chair of Working Group Working Group 4.3 *Multi-Sensor Systems for Hydrographic Applications* died tragically on Friday, 31st August, 2012) and of a normally active member, the professional retirement of one working group Chair, and the non-performance by one working group because a confirmed Chair was unable to fully assume responsibilities. Yet the accomplishments of

Commission 4 are all the more remarkable because of these events, and the working group Chair who retired from his professional position even managed to produce an FIG publication (i.e., *FIG Guide to Ellipsoidally Referenced Surveying for Hydrography* by working group Chair Mr. Jerry Mills, and Dr. David Dodd). The Commission Chair, all other working group Chairs and, as well, the Vice Chair (Administration and Communication), were active in producing relevant non-FIG publications, organizing workshops/conferences/conference sessions, participating in FIG Task Forces, and pertinently representing FIG on international Boards and at international meetings. Details on these items are found in the sections on: (1) Working Groups; and (2) Conferences, Meetings, Workshops and Symposia. Still more information may be found at:

- <http://www.fig.net/commission4/reports/reports.htm>;
- <http://www.fig.net/commission4/newsletters/newsletters.htm>;
- <http://www.fig.net/commission4/Publications/publications.htm>.



Ms. Angela Etuonovbe (Nigeria) was confirmed as Chair-Elect, Commission 4 for 2012-2014 at FIG Working Week 2012 in Rome, Italy. She will begin her term as Chair, Commission 4 in 2015.

Any success of this Commission cannot be solely claimed by the Commission Chair because it is the accomplishments of the Commission's membership that make the Commission's successes. This opportunity is taken to deeply thank all Commission Chairs and members who positively contributed to the Commission since 2011 – their efforts are acknowledged and greatly appreciated, especially in spite of their busy professional commitments and in light of all the setbacks! Rising from a fall is victory!

COMMISSION 4 EVENTS / ACTIVITIES / ACCOMPLISHMENTS FROM 2011 TO DATE (APRIL 2014)

COMMISSION CHAIR

The Chair of Commission 4, Dr. Michael Sutherland, engaged in the expected guidance and coordination of Commission 4 activities. These include managing the activities of working groups, preparing annual and other reports, keeping Commission 4 stakeholders informed through FIG website contents, and organizing conference sessions at FIG working weeks, regional conferences, and Congress. Dr. Sutherland also contributed as a peer reviewer of papers for FIG working weeks, regional conferences, and Congress.



Dr. Sutherland among presenters at the European Union Permanent Committee on Cadastre, Cyprus (2012)

As a special invited speaker or participant, Dr. Sutherland represented the interests of Commission 4 and FIG at a number of workshops / meetings (not including FIG working weeks, regional conferences, and Congress):

- 2013: “FIG Commission 4 and Hydro supported Development”. Special invited presentation, Joint International Federation of Surveyors – International Hydrographic Organization conference on the “Blue Economy”, 9th April, Southampton, England [**organized by Commission 4 Vice-Chair Administration and Communication, Mr. Gordon Johnston**].
- 2013: Participant, Joint IHO-FIG-IMO-IOC Strategic Capacity Building meeting, Monaco, November 20-21.
- 2012: “Boundaries and Governance in Coastal and Marine Spaces”. Special invited presentation, European Union Permanent Committee on Cadastre (PCC), Cyprus, November 29-30.
- 2012: “Spatially Enabled Governance”. Special invited presentation, UNRCC-PCGIAP International Symposium on Spatially Enabled Government and Society, Kuala Lumpur, Malaysia, February 15-16.
- 2011: “Hydrography and National Development”. Special invited presentation (Guest Speaker) at the Nigerian Hydrography Awareness Day, Lokoja, Nigeria, October 25-26 [**organized by Working Group 4.5 Hydrography in Africa Chair, and Commission 4 Chair-Elect, Ms. Angela Etuonovbe**].
- 2011: “Implementing a Marine Cadastre (or other similar marine information systems)”. Special invited paper for presentation at the Plenary Session of the 11th South East Asian Survey Congress, Kuala Lumpur, Malaysia, June 22-24.

Dr. Sutherland was a periodic contributor to Commission 4 newsletters and articles in *Hydro International*, *Lighthouse*, *Geomatics World* and *Geomatica*, informing readers about the Commission, its activities, and hydrography related topics:

- [1] Sutherland, M. (2013). "Hydrographic representation spans fifty countries – FIG Commission helps drive 'Blue Economy'." In *Geomatics World*, July/August 2013, p. 30-31.
- [2] Sutherland, M. (2013). "Weaker Without Hydrography" In *Hydro International*, May-June 2013, Volume 17, Number 4, http://www.hydro-international.com/issues/articles/id1463-Weaker_Without_Hydrography.html.
- [3] Sutherland, M. (2013). "Commission 4 Report" In *Hydro International*, Volume 17, Number 4, May-June.
- [4] Sutherland, M. (2012). "Report from FIG Working Week 2012, Rome Italy". In *Hydro International*, 2012, Volume 16, Number 4, July/August.
- [5] Sutherland, M. (2011). "International Federation of Surveyors, Commission 4 Newsletter". In *Geomatica*, 2011, 65:(3) 313-314, 10.5623/cig2011-047.
- [6] Sutherland, M. (2011). "Commission 4: Still giving a FIG". In *Hydro International*, 2011, Volume 15, Number 2, March/April.
- [7] Sutherland, M. (2011). "David Neale of Trinidad and Tobago Passed Away on 7 June 2011". In *Hydro International*, 2011, Volume 15, Number 4, July/August.
- [8] Sutherland, M. (2011). "Commission 4: FIGuring Significantly in Hydrography". In *Hydro International*, 2011, Volume 15, Number 6, November/December.

VICE-CHAIR, ADMINISTRATION AND COMMUNICATION

Mr. Gordon Johnston, Vice-Chair (Administration and Communication) has over the last three plus years performed the usual duties of the position related to maintaining communication among Commission 4 members, communicating with the public on Commission 4 business, and handling the administrative tasks of the Commission. Mr. Johnston has been and still is an active member and FIG representative of the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC).

Mr. Johnston also acts as the *de facto* FIG-IHO Liaison, and since 2011 has worked to strengthen ties between the two organizations. Evidence of this Vice-Chair's hard work is the Joint International Federation of Surveyors – International Hydrographic Organization conference on the "Blue Economy", held on 9th April 2013 in Southampton, England. This conference was organized by Mr. Johnston and by all accounts was successful. Mr. Johnston is organizing other sessions to be held at FIG 2014 in Kuala Lumpur, Malaysia in June 2014.



Mr. Gordon Johnston, Vice-Chair (Administration and Communication), Commission 4 addressing attendees at the Joint FIG-IHO One-Day Strategic seminar on the "Blue Economy", Southampton, UK (2013)

Since 2011, Mr. Johnston has represented Commission 4 and FIG at a number of conferences / workshops / meetings:

2011:

- Ocean Business 2011, 5-7 April, Southampton, UK;
- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) meeting.

2012:

- Ocean Business 2012, Southampton, UK;
- FIG 8th Regional Conference, Montevideo, Uruguay, 26th to 29th November, 2012;
- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) meeting.

2013:

- **Joint FIG-IHO One-Day Strategic seminar on the "Blue Economy", organized by Commission 4 Vice Chair (Administration and Communication), Mr. Gordon Johnston, April 9th 2013, National Oceanographic Centre (NOC) Southampton, UK;**
- FIG Regional conference, Abuja, Nigeria, May 6-9;
- Joint IHO-FIG-IMO-IOC Strategic Capacity Building meeting, Monaco, November 20-21;
- UN-GGIM Meeting, Cambridge, England, July 24-26th;
- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) meeting.

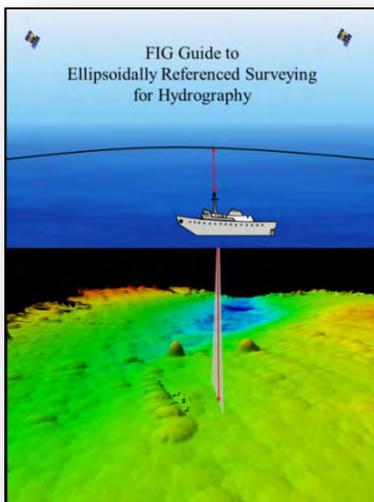
2014:

- First IHO Capacity Building Seminar, Monaco, March 5-6;
- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) meeting, April 11-17.

WORKING GROUP 4.1 ELLIPSOIDALLY REFERENCED HYDROGRAPHIC SURVEYS (ERS)

The objectives of Commission 4.1 for 2011-14 include:

1. Study and report on the technical aspects of using GNSS to vertically reference hydrographic surveys to the ellipsoid;
2. Catalog the methods used to conduct a vertical datum transformation from the ellipsoid to vertical datums used for hydrographic and offshore surveying;
3. Develop uncertainty models for both of the above.



The current Chair of Working Group 4.1 *Ellipsoidally Referenced Hydrographic Surveys (ERS)*, Mr. Jerry Mills, retired from his fulltime job at National Oceanic and Atmospheric Administration (NOAA) and began a new chapter in his life. In spite of this, Mr. Mills has, along with his working group's technical advisor Dr. David Dodd, University of Mississippi, USA has fulfilled his working group's major objective and has produced an FIG publication titled *FIG Guide to Ellipsoidally Referenced Surveying for Hydrography*, to be released at FIG2014. In 2011, preliminary results were presented at the U.S. Hydrographic Conference, Tampa, Florida and subsequently published in the November 2011 issue of the International Hydrographic Review: Dodd, D. and Mills, J. (2011) Ellipsoidally Referenced Surveys: Issues and Solutions. The FIG publication is the culmination of more than three years of hard work and is credit to Jerry Mills and David Dodd, Working Group 4.1, Commission 4, with support from FIG.

WORKING GROUP 4.2 STANDARDS AND GUIDELINES FOR HYDROGRAPHY

This working group's aim is to:

- Assist in the development and recognition of standards of competency;
- Assist in the development of technical standards and guidelines;
- Cooperation with sister organizations and other appropriate bodies.

The working group continues to seek to:

- Promote the use of standards and guidelines to the surveying community;
- Review Standards coming from ISO TC211 (and other reputable sources) for relevance to Hydrography;
- Assess the impact of international standards on current industry practice;
- Represent Commission 4 on the FIG Standards Network;
- Promote recognition of professional pathways;
- Review IHO and other Manuals of Hydrography in conjunction with WG 4.3.

This working group's activity in 2011 was limited to tasks undertaken by the Chair on a Canadian national level where priorities called for efforts related to Standards and Guidelines to be directed closer to home.

WORKING GROUP 4.3 MULTI-SENSOR SYSTEMS FOR HYDROGRAPHIC APPLICATIONS

The stated foci of this working group are to:

- Assist in the development of technical guidelines for sensor integration (best practises);
- Cooperate with sister organizations and other appropriate bodies (e.g., IHO, IMO);
- Cooperate with other FIG Commissions.

Stated specific objectives are to:

- Liaise with working group 4.2 to upholding the standards of hydrography;
- Report on the development, possibilities and limitations of new technologies;
- Organize a Symposium with the working title "Integrating Sensors in Hydrography";
- Assist in the development of technical guidelines for sensor integration.

In 2011 it was reported by the now deceased Chair as follows:

A questionnaire was distributed in summer 2010. The main goals were to contact with interested persons and establish an efficient working group. Responses to the questionnaire didn't meet expectations but the working group is active and is communicating via email and ftp. An ftp website for the distribution of information was announced to collect the description of problems, international, national and institutional standards and presentations/papers regarding the use of multi-sensor systems. New approaches shall be taken into account.

A new German report was distributed which deals with uncertainties in Hydrography, implemented as part of a new quality management system of the German water- and shipping authorities. Presentations and papers can be expected in the near future. Several discussions clarified that one focus of the working group shall lie on the positioning, attitude determination and calibration of MBES and MLS onboard (patch test).

Next steps:

- *The ftp site has to be filled up with information, published to interested user and later be switched to a website.*
- *The IHO Manual will be investigated regarding possible additions.*

- Beside the FIG Working Week in Rome some aspects of multi-sensor systems for hydrographic applications will probably be presented at the Hydro12 conference in Rotterdam (NL) in November 2012 (hydro12.com).

The work was in continual development in 2012 but, sadly, Dr. Volker Böder died tragically on Friday, 31st August, 2012. The Passing of Professor Dr. Volker Böder was reported in *Hydro International* as follows:



It is with great sadness that we recognise the passing on Friday, 31st August, 2012 of Professor Dr. Volker Böder of HafenCity University Hamburg (HCU), Germany and, until his passing, Vice-Chair of Commission 4, and Chair of Working Group 4.3 Multi-Sensor Systems for Hydrographic Applications. Ironically, Volker's demise was due to a shipping accident that occurred on the River Rhine close to Basel (on the German-Swiss border). Volker was a very active member of Commission 4 who was working on a publication related to the development of technical guidelines for sensor integration (best practises). Although he had a busy life outside of FIG and Commission 4, he was very supportive of the Commission's work and objectives. I found him always pleasant, soft spoken, respectful and dependable. He shall be very much missed as a colleague and friend.

Since the death of Dr. Böder, this working group effectively stalled. Commission 4 and FIG lost a valuable comrade and friend.

WORKING GROUP 4.4 MARITIME AND MARINE SPATIAL INFORMATION MANAGEMENT

This working group's aim is to participate in co-operation with United Nations agencies on topics that are related to commission expertise (e.g. marine cadastre, data framework for e-Navigation etc.) and on guidance by FIG Council. Specifically the working group aims to:

- Cooperate with, and represent the interests of FIG Commission 4 to, IMO in the development of an e-Navigation data framework (e.g., harmonization of data models among stakeholders).
- Cooperate with IHO on the continuing development and expansion of S-100 to support hydrographic- and hydrographic-related spatial information management.
- Cooperate with appropriate stakeholders (e.g., IHO-MSDIWG) on the development of concepts and principles that impact and are impacted upon by hydrography (e.g., MSDI, marine spatial planning and management, marine data models and applications, marine cadastre etc.).
- Present and promote the above concepts, principles and outcomes to the international surveying community.

Dr. Bhessem Ramlal, Chair, Study Group 4.4.1 Marine Spatial Data Infrastructure has, since 2012, been working on development of Spatial Data Infrastructure (SDI) – including the marine component - in the Working Group 4.4 (specifically the Chair) has directly been involved in the following activities:

2014:

- Li, J. and X. Yang (eds), 2014. Monitoring and Modeling of Global Change: A Geomatics Perspective, Springer.

2013:

- Conference Chair, 5th International Conference on Geoinformation Technologies for Natural Disaster Management, Mississauga, Ontario, 9-11 October 2013.
- International Scientific Committee, 26th ICC 2013, 25-30 August 2013, Dresden, Germany
- Chair, Scientific Committee, 4th International Conference on Earth Observation of Global Change (EOGC2013), 5-7 June 2013, Toronto, Ontario, Canada

- Co-Chair, 8th International Symposium on Mobile Mapping Technology (MMT2013), Tainan, Taiwan, 1-3 May 2013.
- Scientific Committee, International Workshop on the Role of Geomatics in Hydrogeological Risk, 27-28 February 2013, Padua, Italy

2012:

- Yang, X. and J. Li (eds), 2012. *Advances in Mapping from Remote Sensor Imagery: Techniques and Applications*, Taylor and Francis, CRC Press, ISBN 978-1-43-987458-5, 444pp.
- Conference Chair, International Conference on Computer Vision in Remote Sensing, 16-18 December 2012, Xiamen, China
- Scientific Committee, 8th International Conference on Geo-information for Disaster Management (Gi4DM 2012), 13-14 December 2012, Enschede, The Netherlands
- Chair, Scientific Committee, International Symposium on Geomatics for Integrated Water Resources Management (GIWRM2012), 19-21 October 2012, Lanzhou, Gansu, China
- International Advisory Board, International Workshop on Laser Scanning Technologies and Applications (LSTA2012), 28 March 2012, Kuala Lumpur, Malaysia

2011:

- Yang X, Li J (eds), 2011. *Earth Observations and Remote Sensing for Environmental Management and Hazard Mitigation*, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (IEEE: SCI).

Relevant literature produced by this working group includes:

2012:

- [1] Sun, Z., Wang, C., Li, P., Wang, H., and Li, J., 2012. Hyperspectral image classification with SVM-based domain adaption classifiers, *Proceedings of CVRS2012*, Xiamen, China, 16-18 December, 4pp (IEEE: EI).
- [2] Li, J. and Kwon, T.-J. 2012. Improved capability for marine oil spill detection using new generation of SAR imaging satellites, *ISPRS 2012 Congress*, Melbourne, Australia, 25 August- 1 September, Oral Presentation.
- [3] Chen, H.Y., Xu, S.Q., Sun, Q., Chen, L.Q. and Li, J., 2012. Retrieval atmospheric W2 profile from underway data and AIRS in the southern ocean, *Journal of Remote Sensing*, in press.
- [4] Shu, Y., Li, J. and Xie, S., 2012. SAR image segmentation using a novel Markov random field model with label cost prior, *ASPRS Annual Conference*, Sacramento, California, March 19-23.
- [5] Yang, X. and Li, J. (eds.), 2012. *Advances in Mapping from Remote Sensor Imagery: Techniques and Applications*, Taylor & Francis, CRC Press, ISBN 978-1-43-987458-5, 444pp.
- [6] Kwon, T.-J. and Li, J., 2012. Mapping marine oil spills from space, In Yang, X. and Li, J. (eds.) *Advances in Mapping from Remote Sensor Imagery: Techniques and Applications*, Taylor & Francis.
- [7] Chen, J., Li, J., Zhu, Q. and Mao, Z., 2012. Edge-guided multiscale segmentation of satellite multispectral imagery, *IEEE Transactions on Geoscience and Remote Sensing*, 50(11): 4513 - 4520 (IEEE: SCI/EI).

2013:

- [1] Sutherland, M., Tienah, A. Seeram B. Ramlal and S. Nichols (2013). "Chapter 7: Public Participatory GIS, Spatial Data Infrastructure, and Citizen-Inclusive Collaborative Governance". Chapter in *Spatial Enablement in Support of Economic Development and Poverty Reduction: Research, Development and Education Perspectives*, H. Onsrud and A. Rajabifard (Eds.), Global Spatial Data Infrastructure Association Press, / 946 Great Plain Ave. PMB-194, Needham, MA, 02492-3030, USA, ISBN 978-0-9852444-2-2, pages 123-140.
- [2] Kwon, T.-J., Li, J., and Wong, A., 2013. ETVOS: an enhanced total variation optimization segmentation approach for SAR sea-ice image segmentation, *IEEE Transactions on Geoscience and Remote Sensing*, doi:10.1109/TGRS.2012.2205259 (IEEE SCI/EI).
- [3] Chen, J., Mao, Z., Philpot, B., Li, J., and Pan, D., 2013. Detecting changes in high-resolution satellite coastal imagery using an image object detection approach, *International Journal of Remote Sensing*, 34(7): 2454-2469 (Taylor & Francis: SCI).

2014:

- [1] Xu L, Li J, Shu Y, Peng J, 2014. SAR image denoising via clustering-based principal component analysis, IEEE Transactions on Geoscience and Remote Sensing, doi.10.1109/TGRS.2014.2304298 (IEEE: SCI/EI).
- [2] Xu L, Li J, Wong A, Wang, C, 2014. A kernel PCA texture feature for efficient segmentation of RADARSAT-2 SAR sea ice imagery, International Journal of Remote Sensing, accepted (Taylor & Francis: SCI).
- [3] Wei B, Yu J, Wang C, Li J, 2014. PolSAR image classification using a semi-supervised classifier based on hypergraph learning, Remote Sensing Letters, revised (Taylor & Francis: SCI).
- [4] Xu L, Li J, Brenning A, 2014. A comparative study of different classification techniques for marine oil spill identification using RADARSAT-1 images, Remote Sensing of Environment, 141: 14-23 (Elsevier: SCI).

WORKING GROUP 4.5 HYDROGRAPHY IN AFRICA

The stated foci of this working group are to:

- Raise the awareness of hydrography in all African countries.
- Make available its potentials to various countries (Africa).
- Enunciate its potentials as a vital component and catalyst to nation building.
- Promote free exchange of information among all those engaged in Hydrography.

Stated specific objectives are to:

- Organize seminars and workshops on the potentials of hydrography in several countries.
- Promote recognition of hydrography by organizing charity walks.
- Communicate the activities of Commission 4 and other FIG events to African member countries.

2011

Chaired by Ms. Angela Etuonovbe, who is also Chair-Elect, Commission 4, this working group pushed for increased recognition of the important contributions of hydrography to society's objectives in Africa. The main aim was to ensure that the discipline of hydrography receive much needed public funding and support. To this end, in 2011 meetings were held with high level Nigerian government officials and Working Group 4.5 organized a workshop on hydrography and national development. This was held in Lokoja, Nigeria between 24th and 26th October 2011. Details of the workshop are outlined in the section on conferences, workshops and symposia, and in a report published on Commission 4 website. The working group also worked closely with FIG Africa Task Force.



Some Attendees at the Workshop on Hydrography Awareness, Lokoja, Nigeria (2011)

2012

In 2012 Working Group 4.5 continued engaging African stakeholders with the specific aim of increasing recognition in Africa of the important contributions of hydrography to society's objectives. In October 2012, the Chair of this working group – Commission Chair-Elect Mrs. Angela Etuonovbe – visited as an attendee at the FIG Africa Task Force meeting. After the workshop a visit was made to the Lands Ministry where meetings were held with the Director and other top government officials. At another meeting a presentation was made on the economic benefit of hydrography to a nation. This activity has stimulated interest among some African government officials.

2013

In 2013 Working Group 4.5 continued the engagement of African stakeholders to promote support for hydrography.

CONFERENCES, MEETINGS, WORKSHOPS AND SYMPOSIA

Details on several Conferences / workshops / meetings attended since 2011 are to be found in Commission 4 annual reports 2011, 2012 and 2013 and as well on Commission 4's website:

- <http://www.fig.net/commission4/reports/reports.htm>
- <http://www.fig.net/commission4/newsletters/newsletters.htm>

Conferences / workshops / meetings attended or organized by members include (though not a definitive list):

2011:

- **Hydrography Awareness Workshop in Nigeria, organized by Working Group 4.5 (Hydrography in Africa) Chair, and Commission 4 Chair-Elect, Ms. Angela Etuonovbe;**
- Hydro 2011 in Fremantle, Western Australia, 7th – 10th 2011;
- Second International FIG Workshop on 3D-Cadastres, 16-18 November 2011, Delft, the Netherlands;
- 11th International LiDAR Mapping Forum 2011, 07-09 February, New Orleans, Louisiana, USA;
- Ocean Business 2011, 5-7 April, Southampton, UK;
- U.S. Hydrographic Conference 2011, 25-28 April, Tampa, Florida U.S.A.;
- 6th International Shallow Survey Conference 2012, Wellington, New Zealand;
- Seminar on Coastal Zone Management, Martinique, November, 24-25;
- Joint IHO-IMO-IOC-WMO-IALA-IAEA Capacity Building Coordination Meeting, Monaco, October 27-28;
- 11th South East Asian Survey Congress, Kuala Lumpur, Malaysia, June 22-24;
- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) meeting.

2012:

- IEEE Transactions on Geoscience and Remote Sensing;
- CVRS2012, Xiamen, China, 16-18 December;
- ISPRS 2012 Congress, Melbourne, Australia, 25 August;
- Ocean Business 2012, Southampton, UK;
- ASPRS Annual Conference, Sacramento, California, March 19-23;
- Canadian Hydrographic Conference (15th - 17th May, 2012) in Niagara Falls, Canada;
- Hydro12 "Taking Care of the Sea" conference, Rotterdam, Netherlands, November 13th – 15th 2012;
- FIG 8th Regional Conference, Montevideo, Uruguay, 26th to 29th November, 2012;
- UNRCC-PCGIAP International Symposium on Spatially Enabled Government and Society, Kuala Lumpur, Malaysia, February 15-16.

- European Union Permanent Committee on Cadastre (PCC), Cyprus, November 29-30;
- FIG Working Week 2012, Rome, Italy May 6-10;
- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) meeting.

2013:

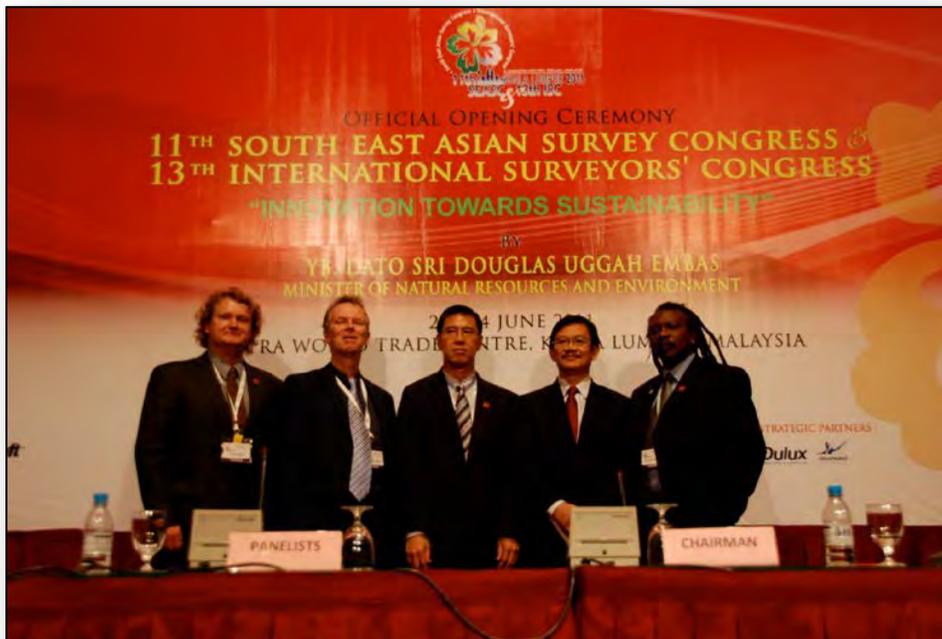
- **Joint FIG-IHO One-Day Strategic seminar on the "Blue Economy", organized by Commission 4 Vice Chair (Administration and Communication), Mr. Gordon Johnston, April 9th 2013, National Oceanographic Centre (NOC) Southampton, UK;**
- FIG Working Week, Abuja, Nigeria, May 6-9;
- Joint IHO-FIG-IMO-IOC Strategic Capacity Building meeting, Monaco, November 20-21;
- GSDI 2013, Addis Ababa, Ethiopia, November 4-8;
- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) meeting.
- UN-GGIM Meeting, Cambridge, England, July 24-26th;



Attendees at a Commission 4 session, FIG Working Week, Rome, Italy (2012)



Commission 4 Chair, Dr. Sutherland, among participants at the European Union Permanent Committee on Cadastre Meeting, Cyprus (2012)



The Chair of Commission 4 (1st right) among the FIG Delegation with Surveyor Fauzi bin Nordin (2nd right) Chairman, Organizing Committee, 11th South East Asian Survey Congress (2012)



Commission 4 Officers, Young Surveyor (1st Left, Back) and Presenters at FIG 2011 Working Week in Marrakesh, Morocco



Chair-Elect and Chair, Ms. Angela Etuonovbe (5th from left) and Dr. Sutherland (3rd from right), respectively, among some Attendees at the Workshop on Hydrography Awareness, Lokoja, Nigeria, organized by Working Group 4.1 Hydrography in Africa (2011)

BOARDS, COMMITTEES AND LIAISONS

FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC)

Commission 4 continues to represent FIG on the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) jointly with IHO and ICA. Commission 4 has three representatives on the Board, these being: Gordon Johnston (UK), Adam Greenland (New Zealand) and Dr. Keith Miller. Dr. Razali Mahmud (Malaysia) has recently resigned.



In June 2011, Dr. David Neale, former Commission 4 Vice-Chair Administration and Communication, and former Commission 4 representative on IBSC, lost his battle with cancer. The hydrographic community lost a stalwart. Subsequently Dr. Neale was replaced by Dr. Keith Miller as the 4th FIG member on the Board. Keith is from the Department of Geomatics Engineering and Land Management, University of the West Indies, St. Augustine, Trinidad and Tobago.

At the IBSC meeting in 2011, held in New Orleans the Board reviewed 8 submissions, granting immediate recognition to 4 and requesting further input on the others. AAA full list of the current Recognised Courses is available on the IHO website at:

http://www.iho.int/srv1/index.php?option=com_content&view=article&id=440:ibsc&catid=64:4ircc&Itemid=398

The aim for the 2012 meeting will be to update the Standards themselves for their technical content in relation to a syllabus.

At the IBSC meeting, held in May 2012, Buenos Aires, Argentina, kindly hosted by the Argentine Naval Academy and Hydrographic Office at the Sea Sciences School, the IBSC reviewed 14 submissions, granting immediate recognition to 9 and several conditional recognitions (subject to clarifications and further material). Included in the successful submissions for the very first time was the Australasian Hydrographic Certification Panel that sought recognition for its continuing competency and assessment certification scheme.

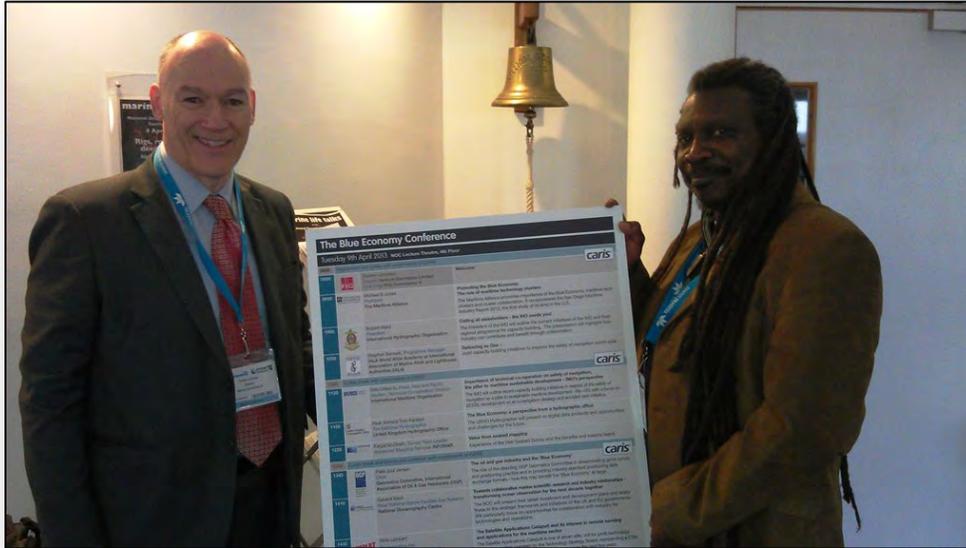
The 37th meeting of the International Board for the Standards of Competence of Hydrographic Surveyors and Nautical Cartographers (IBSC) met in Tokyo Japan, 11th to 17th April 2014 kindly hosted by the Hydrographic Office of the Japanese Coast guard. A total of 15 submissions were reviewed and considered with many being represented and presentations of support made. New submissions from Iran, Indonesia, France and Canada all contributed to a very busy meeting schedule. In addition the IBSC also dealt with various administrative issues and continued the work to revise and update the Standards. The S-5 Category B being concluded in a draft form for final review by stakeholders. The planned revisions to the S-5 Category A and the S-8 Standards were updated and scheduled work group meetings drafted to further this effort.

A serious concern is the number of members able to continue on the IBSC. At the meeting one IHO and one FIG member had resigned to leave the Board two members short and there was some concern at the possible departure of two more

members. Commission 4 is circulating to the FIG national delegates a request for interest and candidates for membership of IBSC which will be an agenda item at the Commission's meeting at FIG 2014 in Kuala Lumpur, Malaysia.

IHO Liaison

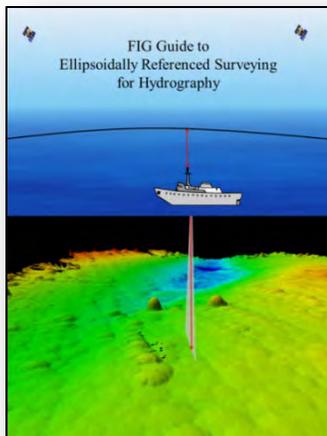
IN 2011 a dialogue started between FIG Commission 4 and the IHB of the IHO with an aim to creating a possible dual hosted event. This work has been fruitful in that a joint FIG-IHO one day conference was planned and organized by Commission 4 Vice-Chair Administration and Communication, Mr. Gordon Johnston. The event was held on the 9th April 2013 in Southampton, UK alongside the large commercial exhibition Ocean Business.



Mr. Gordon Johnston, Vice-Chair (Administration and Communication) (L) and Dr. Michael Sutherland, Chair, Commission 4 at the Joint FIG-IHO One-Day Strategic seminar on the "Blue Economy", organized by Mr. Gordon Johnston (2013)

PUBLICATIONS

FIG Publications



Commission 4 produced an FIG publication titled *FIG Guide to Ellipsoidally Referenced Surveying for Hydrography*, which is to be released at FIG Congress 2014, Kuala Lumpur, Malaysia. The publication is the work of Working Group 4.1 *Ellipsoidally Referenced Hydrographic Surveys (ERS)*, Chaired by Mr. Jerry Mills, formerly associated with NOAA. Significant contributions were made by Dr. David Dodd, University of Mississippi, USA.

Newsletters

Commission 4 continues to publish newsletters in *Hydro International* on a regular basis. Newsletters are also published in *Geomatica* (the official publication of the Canadian Institute of Geomatics) and *Lighthouse* (the official publication of the Canadian Hydrographic Association) upon request. A newsletter was also published on Commission 4 website at <http://www.fig.net/commission4/newsletters/newsletters.htm> , which holds links to all other newsletters.

Other Publications

Since 2011 Commission 4 members have made contributions to hydrography and hydrography-related issues via publications in journals and other related media. The importance of these publications, when not directly about hydrography, is that they demonstrate the importance of hydrography as applied to the social, economic, political and environmental objectives of society at large. Some of these publications include:

- Chen, H.Y., Xu, S.Q., Sun, Q., Chen, L.Q. and Li, J., 2012. Retrieval atmospheric W2 profile from underway data and AIRS in the southern ocean, *Journal of Remote Sensing*, in press.
- Chen, J., Li, J., Zhu, Q. and Mao, Z., 2012. Edge-guided multiscale segmentation of satellite multispectral imagery, *IEEE Transactions on Geoscience and Remote Sensing*, 50(11): 4513 - 4520 (IEEE: SCI/EI).
- Chen, J., Mao, Z., Philpot, B., Li, J., and Pan, D., 2013. Detecting changes in high-resolution satellite coastal imagery using an image object detection approach, *International Journal of Remote Sensing*, 34(7): 2454-2469 (Taylor & Francis: SCI).
- Davis, D., M. Sutherland, S. Jaggan and D. Singh (2012). "Determining and Monitoring Sea Level in the Caribbean using Satellite Altimetry". Published in the proceedings of the International Federation of Surveyors Working Week 2012, Rome, Italy, May 6-11, 13 pages.
- Davis, D., M. Sutherland, S. Jaggan and D. Singh (2013). "Using Satellite Altimetry to Monitor and Determine Sea Level in the Caribbean". In *Coordinates Ezine*, April 2013 Issue, <http://mycoordinates.org/using-satellite-altimetry-to-monitor-and-determine-sea-level/>.
- Forbes, D. L., T.S. James, M. Sutherland and S. Nichols (2013). "Physical Basis of Coastal Adaptation on Tropical Small Islands". In *Sustainability Science*, 8(3): 327-344, DOI: 10.1007/s11625-013-0218-4.
- Kwon, T.-J. and Li, J., 2012. Mapping marine oil spills from space, In Yang, X. and Li, J. (eds.) *Advances in Mapping from Remote Sensor Imagery: Techniques and Applications*, Taylor & Francis.
- Kwon, T.-J., Li, J., and Wong, A., 2013. ETVOS: an enhanced total variation optimization segmentation approach for SAR sea-ice image segmentation, *IEEE Transactions on Geoscience and Remote Sensing*, doi:10.1109/TGRS.2012.2205259 (IEEE SCI/EI).
- Li, J. and Kwon, T.-J. 2012. Improved capability for marine oil spill detection using new generation of SAR imaging satellites, *ISPRS 2012 Congress*, Melbourne, Australia, 25 August- 1 September, Oral Presentation.
- Nanlal, C., D. Davis and M. Sutherland (2012). "An Evaluation of Tides in the Caribbean". Published in the proceedings of the International Federation of Surveyors Working Week 2012, Rome, Italy, May 6-11, 15 pages.
- Seeram, A. and M. Sutherland (2014). "Mapping Roxborough's Local Knowledge, using P3DM, to Support the Development of Climate Change Strategies and Policies". Accepted for presentation at the Annual Sir Arthur Lewis Institute of Social and Economic Studies Conference, Port of Spain, Trinidad and Tobago, April 23-25, 16 pages.
- Shu, Y., Li, J. and Xie, S., 2012. SAR image segmentation using a novel Markov random field model with label cost prior, *ASPRS Annual Conference*, Sacramento, California, March 19-23.
- Sookram, S. and M. Sutherland (2012). "Grande Riviere, Trinidad and Tobago: The Vulnerability of a Coastal Community to Sea-Level Rise". Presented at the *UCCI/UWI/ICCI Caribbean Conference: 50-50 – Surveying the Past, Mapping the Future*, Grand Cayman, Cayman Islands, March 21-23, 25 pages.
- Sun, Z., Wang, C., Li, P., Wang, H., and Li, J., 2012. Hyperspectral image classification with SVM-based domain adaption classifiers, *Proceedings of CVRS2012*, Xiamen, China, 16-18 December, 4pp (IEEE: EI).

- Sutherland, M. (2011). "Sea Level Rise Modelling in a Caribbean Small Island Developing State". In Hydro International, 2011, Volume 15, Number 6.
- Sutherland, M. (2011). "Improving the administration of marine and coastal spaces". In Coordinates Ezine, November 2011 Issue, <http://mycoordinates.org/improving-the-administration-of-marine-and-coastal-spaces/>.
- Sutherland, M. (2011). "Marine Cadastre." In Geospatial World, November 2011, pp. 38-42.
- Sutherland, M. (2012). "Report from FIG Working Week 2012, Rome Italy". In Hydro International, 2012, Volume 16, Number 4, July/August.
- Sutherland, M. and D. Singh (2013). "Modeling Sea Level Rise in Caribbean SIDS: The Need for Tide Gauge Data". Published in the proceedings of the International Federation of Surveyors Working Week 2013, Abuja, Nigeria, May 6-10, 10 pages.
- Sutherland, M., T. Tienaah, A. Seeram B. Ramlal and S. Nichols (2013). "Chapter 7: Public Participatory GIS, Spatial Data Infrastructure, and Citizen-Inclusive Collaborative Governance". Chapter in Spatial Enablement in Support of Economic Development and Poverty Reduction: Research, Development and Education Perspectives, H. Onsrud and A. Rajabifard (Eds.), Global Spatial Data Infrastructure Association Press, / 946 Great Plain Ave. PMB-194, Needham, MA, 02492-3030, USA, ISBN 978-0-9852444-2-2, pages 123-140.
- Sutherland, M., K. Miller, D. Davis, A. Seeram and D. Singh (2014). "Modeling Projections of Potential Sea Level Rise Impacts on Some Caribbean Communities: Is it Worth the Effort?". Accepted for presentation at the International Federation of Surveyors Congress, Kuala Lumpur, Malaysia, June 16-21, 14 pages.
- Wei B, Yu J, Wang C, Li J, 2014. PolSAR image classification using a semi-supervised classifier based on hypergraph learning, Remote Sensing Letters, revised (Taylor & Francis: SCI).
- Xu L, Li J, Brenning A, 2014. A comparative study of different classification techniques for marine oil spill identification using RADARSAT-1 images, Remote Sensing of Environment, 141: 14-23 (Elsevier: SCI).
- Xu L, Li J, Shu Y, Peng J, 2014. SAR image denoising via clustering-based principal component analysis, IEEE Transactions on Geoscience and Remote Sensing, doi.10.1109/TGRS.2014.2304298 (IEEE: SCI/EI).
- Xu L, Li J, Wong A, Wang, C, 2014. A kernel PCA texture feature for efficient segmentation of RADARSAT-2 SAR sea ice imagery, International Journal of Remote Sensing, accepted (Taylor & Francis: SCI).
- Yang, X. and Li, J. (eds.), 2012. Advances in Mapping from Remote Sensor Imagery: Techniques and Applications, Taylor & Francis, CRC Press, ISBN 978-1-43-987458-5, 444pp.

COMMISSION 4 OFFICERS (2011-2014)

Chair, Commission 4



Dr. Michael Sutherland, MRICS

Department of Geomatics Engineering and Land Management
Faculty of Engineering
University of the West Indies, St. Augustine Campus
St. Augustine
TRINIDAD & TOBAGO, W.I.
Mobile: +868 473 5541
Email: michael.d.sutherland@unb.ca

Address in Canada:
C-FOAM Associate
c/o Professor Dan Lane
Canadian Fisheries, Oceans, and Aquaculture Management (C-FOAM)
Telfer School of Management, University of Ottawa
55 Laurier Avenue East, Ottawa, Ontario, CANADA K1N 6N5
Tel. + 1 613 884 3707

Vice Chair of Administration and communication



Mr. Gordon Johnston, MRICS

67 Devon Road
Cheam
Surrey SM2 7PE
UNITED KINGDOM
Tel. + 44 0208 391 6988
Fax + 44 0208 661 1650
E-mail: gordon.johnston1@orange.net

Vice Chair and Chair of Working Group 4.1 Ellipsoidally Referenced Hydrographic Surveys (ERS)



Mr. Jerry Mills

Email: jmills19761@verizon.net

**Vice Chair and Chair of
Working Group 4.2
Standards and Guidelines
for Hydrography**



Mr. Andrew Leyzack C.L.S.
Central and Arctic Region
Canadian Hydrographic Service
867 Lakeshore Road
P.O. Box 5050
Burlington, Ontario L7R 4A6
CANADA
Tel. + 1 905 336 4538
Fax + 1 905 336 8916
E-mail: leyzacka@dfo-mpo.gc.ca

**Former Vice Chair and
Chair of Working Group 4.3
Multi-Sensor Systems for
Hydrographic Applications**



Prof. Dr. Volker Böder (Deceased)

**Vice Chair, Chair of
Working Group 4.4 Marine
and Maritime Spatial
Information Systems, and
Study Group 4.4.2 Remote
Sensing of Coastal and
Marine Waters**



Professor Dr. Jonathan Li, PEng, SMIEEE, OLS/OLIP
Professor of Geomatics
Department of Geography & Environmental Management
Interdisciplinary Centre on Climate Change
Faculty of Environment, University of Waterloo
200 University Avenue West, Waterloo, Ontario, Canada N2L 3G1
Tel: +1-519-888-4567 ext. 34504
E-mail: junli@uwaterloo.ca

**Chair, Study Group 4.4.1
Marine Spatial Data
Infrastructure**



Dr. Bheshem Ramlal, MRICS
Senior Lecturer and Chartered Land Surveyor
Head of Department
Department Geomatics Engineering and Land Management
The University of the West Indies
St. Augustine, Trinidad and Tobago
Email: Bheshem.Ramlal@sta.uwi.edu

**Vice Chair and Chair of
Working Group 4.5
Hydrography in Africa**



Ms. Angela Etuonovbe
AnGene Surveys & Consultants
37 NNPC Housing Complex Rd
Ekpan Effurun
332101 Delta State
NIGERIA
Email: aetuonovbe@yahoo.com

FIG Commission 5

Report of Activities 2011-13

1. General

From the start of the 2011-14 term FIG Commission 5 has investigated practical solutions to global survey problems, and facilitated technical activities pertaining to the development, use and integration of technologies for positioning, measurement, survey infrastructure, and the associated standardisation, best practice and fundamental reference frame issues.

Our specific activities have been aimed at developing countries, low cost surveying technologies, implementation of modern geodetic reference frames, applications of geospatial and positioning infrastructure, and the professional development of the operational surveyor.

Throughout the current period, Commission 5 has focused work on achieving realistic tangible outcomes for our five missions, which are -

- FOCUS on modern technologies, technical developments and applications
- FACILITATE and follow technical developments through collaborations with other FIG Commissions and like organisations
- FOSTER and support research and development and stimulate new ideas in the fields of expertise represented within the commission.
- FORMULATE and formalise collaboration with manufacturers on the improvement of instrumentation and associated software.
- FIG EVENTS - present and promote the work of the Commission and its working groups through technical events and necessary media

During the period, the Commission 5 has focused our energy to ensure that the annual FIG Working Weeks in Marrakech, Rome, Abuja and Kuala Lumpur have been successful, as well as the FIG Regional Conference in Montevideo (Uruguay) and the FIG Pacific Small Islands Developing States Symposium in Suva (Fiji). To date Commission 5 has facilitated over 275 technical presentations at our technical sessions, special forums or meetings.

We have also effectively collaborated with our sister organisations at various events to promote and fulfil the objectives of our work plan, especially at events such as the General Assembly for the International Union of Geodesy and Geophysics (Melbourne, Australia), the annual International Committee on GNSS events (Tokyo (Japan), Beijing (China), Dubai, (UAE)) and the symposium series on Mobile Mapping Technology.

In addition to this, the Commission has been responsible for the Technical Seminar on Reference Frames in Practice, which have been convened jointly with

the with the International Association of Geodesy (IAG), the United Nations Global Geospatial Information Management – Asia Pacific (UN GGIM-AP), the International Committee on GNSS (ICG) and our Platinum FIG Corporate sponsors. We have held two technical seminars, one in Rome (Italy), and the other in Manila (Philippines). These seminars examined reference frames issues pertinent to each region. Smaller versions of this technical seminar have also been organised within the technical program of other FIG events.

The Commission has also recently prepared two publications which are to be released at the FIG Congress in Kuala Lumpur. The first is an updated version of FIG Publication No 49 - Cost Effective GNSS Positioning Techniques, and the second is a new publication consisting of technical fact sheets to form a "Reference Frames in Practice Manual".

Another key highlight for the Commission during the term so far was the development of a special edition for the Journal of Applied Geodesy which was undertaken with IAG and includes papers on Ubiquitous Positioning and Navigation Systems.

The ongoing success of FIG Commission 5 is largely due to the dedicated hard work of our Working Group Chairs and members from Commission 5. They have all been actively representing FIG at numerous related symposia around the world and whilst advancing the work of the working groups. Some of the major highlights so far of the working group activities are summarized as follows:

2. Working Groups

WG 5.1 – Standards, Quality Assurance and Calibration

Chaired by David Martin

Standards continue to play important role in surveying. This is particularly true in the world where the details of instrumentation and techniques are not well understood by the average practicing surveyor. They are very reliant upon standards underpinning the correct functioning of their instruments.

The working group was active at the annual FIG Working Weeks. Looking back at the 2011 event in Marrakech was the session dedicated to GNSS CORS Infrastructure and Standards.

FIG publication No. 9 on *Recommended Procedures for Routine Checks of Electro-Optical Distance Meters*

In Marrakech the working group organised a meeting to discuss future actions regarding the FIG publication No. 9 on *Recommended Procedures for Routine Checks of Electro-Optical Distance Meters*. At the meeting in Marrakech it was decided that the publication should be revised with additions for recommendations for hand held distance-meters and reflector-less instruments. There was also some discussion concerning FIG Publication No. 9. Unfortunately,

this work has been forced to put on hold but it is suggested that this should be included in the work plan for the period 2015-18 for the Commission.

Proposal for a standard related to ITRS

An important initiative is underway to submit to ISO a proposal for a standard related to ITRS. The French standardization agency AFNOR has proposed to ISO to establish an ad hoc structure dealing with standardization on geodetic references and that this structure should be established within the ISO TC 211 on Geospatial Information. The international working group is established even though progress is slow.

ISO TC211, TC172/SC6 and other ISO issues

Briefly, TC 211 is concerned with standardization in the field of digital geographic information. This commission aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth. These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analysing, accessing, presenting and transferring such data in digital/electronic form between different users, systems and locations. The work links to appropriate standards for information technology and data where possible, and provides a framework for the development of sector-specific applications using geographic data.

Another important standard under development under the supervision of ISO TC211 is Geographic information – Calibration and validation of remote sensing imagery sensors – Part 1: Optical sensors:

“Imaging sensors are one of the major data sources for geographic information. The image data capture spatial and spectral measurements and are applied for numerous applications ranging from road/town planning to geological mapping. Typical spatial outcomes of the production process are a vector maps, Digital Elevation Models, and 3-dimensional city models. There are typically 2 streams of spectral analysis data, that is, the statistical method, which includes image segmentation and the physics-based method which relies on characterisation of specific spectral absorption features.

In each of the cases the quality of the end products fully depends on the quality of the measuring instruments that has originally sensed the data. The quality of measuring instruments is determined and documented by calibration.”

ISO/TC 172/SC 6 deals more closely with classical surveying instruments. Standards deal with field procedures for testing geodetic and surveying instruments such as theodolite, total stations levels and GNSS in real-time kinematic (RTK). Several of these standards are in the Review Stage to be revised.

Several other standards under Technical Committee ISO/TC 172/SC 6 "Geodetic and surveying instruments" standards grouping are also presently under discussion and/or revision:

- Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 4: Electro-optical distance meters (EDM measurements to reflectors)
- Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 5: Total stations
- Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 6: Rotating lasers
- Optics and optical instruments -- Ancillary devices for geodetic instruments -- Part 1: Invar levelling staffs.
- ISO 09849 Geodetic and surveying instruments - Vocabulary (Edition 3)
- ISO 12858-1 Optics and optical instruments -- Ancillary devices for geodetic instruments -- Part 1 Invar levelling staffs (Edition 2)
- ISO 12858-2; 1999 Amendment 1
- ISO 17123-5 Field procedures for testing geodetic and surveying instruments - Part 5 - Total stations (Edition 2)
- ISO 17123-6 Field procedures for testing geodetic and surveying instruments - Part 6 - Rotating lasers (Edition 2)
- ISO 17123-7 Field procedures for testing geodetic and surveying instruments - Part 7 - Optical plumbing devices
- ISO 17123-8 Field procedures for testing geodetic and surveying instruments - Part 8 - GNSS field measurement systems in real-time kinematic (RTK) (Edition 2)
- ISO 17123-9 Field procedures for testing geodetic and surveying instruments - Part 9 - Terrestrial laser scanners (TLS) A principal aim of Working Group 5.1 over the coming year remains the examination and promotion of guidelines and recommendations for standards and quality in survey measurements based on the ISO Guide to Uncertainty in Measurement (GUM) and its supplements.

A principal aim of Working Group 5.1 over the period has been the examination and promotion of guidelines and recommendations for standards and quality in survey measurements based on the ISO Guide to Uncertainty in Measurement (GUM) and its supplements.

In 2012 at the FIG Working Week in Rome, Nic Donnelly of Land Information New Zealand (LINZ) agreed to replace Ian Greenway as the FIG liaison to the ISO Technical Commission (TC) 211. Current work items include:

- 19119 – services (revision)
- 19157 – data quality (at FDIS stage so no real chance to change now)
- 19159-1 – calibration of remote sensitive imagery sensors (optical)
- 19160-1 – addressing: conceptual model
- 19161 – geodetic references
- 19162 – well known coordinate reference systems

Hans Heister is the FIG liaison to TC172/SC6.

Future issues

Nic Donnelly, from Land Information New Zealand, spoke about the importance of Metadata standards. This is an important field - not just in surveying and geodesy. He is looking to establish a joint FIG/IAG working group to study this important subject.

FIG has decided to join the coalition developing the International Property Measurement Standards IPMS. The IPMS Coalition currently comprises following 20 members, including the FIG, who have signed the Declaration.

WG 5.2 – Reference Frames

Chaired by Graeme Blick

Education and Training

A strong focus of the Reference Frames Working Group 5.2 during the period so far has been on education and training. A strong need was identified to provide training on the use of Reference Frames in practice. Three successful Technical Seminars on Reference Frames were held. The inaugural meeting was held as part of the 2012 FIG Working Week in Rome with over 20 participants, the second was held following the 2013 South East Asia Survey Congress in Manila with around 40 participants, and the third was held as part of the joint FIG/UN-GGIM-AP Pacific Small Islands Developing States (SIDS) Symposium, Fiji in September 2013 with 20 participants from nearly all of the Pacific Island nations. These seminars have proved very successful with positive feedback and it is planned to continue to hold further workshops in the future.

Following the first seminar a need was identified to develop and publish a manual on reference frames. This is being produced as a series of two page fact sheets so that they can be easily updated and used individually. Contributions to the document have been made by various experts in their specific fields of interest. A draft manual has been developed and it is planned that this be released at the 2014 FIG Congress in Kuala Lumpur. The manual covers the following topics:

- Introduction
- Geodesy and Global Reference Frames
- Key International Geodetic Groups
- Global Terrestrial Reference Systems and Frames
- Regional and National Reference Frames
- Height Systems
- Standards and Traceability of Terrestrial Reference Frames
- Global Navigation Satellite Systems
- GNSS CORS Networks and Linking to ITRF
- Transforming Between Datums
- Reference Frame Parameter Estimation and Testing via the technique of Least Squares
- Transforming Between Datums in Non-static Reference Frames
- Least Squares Estimation

Incorporating Deformation Models into Reference Frames

Following the 2010 FIG Sydney Congress a small focus group was convened to work on issues around the establishment of 4 dimensional datums, i.e. those including a time variable component to account for the effects of crustal deformation. With the need for greater accuracy of national datums, there is an increasing requirement by countries to incorporate deformation models into their datum to model the effects of plate tectonic movements and episodic events such as earthquakes and volcanic deformation.

This group has focused on how deformation following episodic events such as an earthquake can be incorporated into a datum. The concept of a patch to model the deformation has been refined and this was trialled as a method to incorporate the effects of ground movements as a result of the recent Canterbury Earthquakes in New Zealand into their geodetic datum. Formats for deformation models were also refined, and a draft format circulated to interested parties for review. While the Canterbury Earthquakes are a highly relevant case study for this work, the aim was to develop deformation modelling processes that would be widely applicable internationally for earthquakes and other deformation events. Formats for the development of the deformation models have now been finalised and New Zealand has published its deformation model in this new format¹. The use of forward and reverse patches has also been used in New Zealand to incorporate specific deformation events (such as earthquakes) into the deformation model.

The following papers and presentations have been given on the topic:

A High-Precision Deformation Model to support Geodetic Datum Modernisation in Australia, Stanaway, R., and Roberts, C. (2013): presented at the IAG Scientific Assembly, Potsdam, Germany.

Updating the NZGD2000 Deformation Model, Crook C. & Donnelly N. (2013): presented at the 125th New Zealand Institute of Surveyors Annual Conference, August 2013, Dunedin, New Zealand.

Using the Deformation model to Generate NZGD2000 Coordinates - A Practical Example, Donnelly, 2012: presented at the 124th New Zealand Institute of Surveyors Annual Conference, October 2012, Invercargill, New Zealand.

Four Dimensional Deformation Modelling, the link between International, Regional and Local Reference Frames (2012): Stanaway, R., Roberts, C., Blick, G., and Crook, C., FIG Working Week, Rome, Italy, 6-10 May 2012

ITRF Transformations in Deforming Zones to Support CORS-NRTK Applications; Stanaway, R., and Roberts, C. (2011): International Global Navigation Satellite

¹ <http://www.linz.govt.nz/geodetic/datums-projections-heights/geodetic-datums/new-zealand-geodetic-datum-2000/deformation-model>

Systems Society IGSS Symposium, UNSW, Sydney, Australia 15-17 November, 2011

Modelling Deformation in a Kinematic Datum, Chris Crook (2011): in Earth on the Edge: Science for a Sustainable Planet, Proceedings of the IAG General Assembly, Melbourne, Australia, June 28 - July 2, 2011

Realisation of a Geodetic Datum Using a Gridded Absolute Deformation Model (ADM, R. Stanaway, C. Roberts, and G. Blick): in Earth on the Edge: Science for a Sustainable Planet, Proceedings of the IAG General Assembly, Melbourne, Australia, June 28 - July 2, 2011

Rigid Plate Transformations to Support PPP and Absolute Positioning in Africa Stanaway, R., and Roberts, C. (2011): FIG Working Week, Marrakech, Morocco, 18th-22nd May 2011

The Application of a Localised Deformation Model after an Earthquake (PDF 428KB), Winefield, Crook & Beavan, 2010: presented at the International Federation of Surveyors (FIG) Congress 2010, Sydney, Australia

The Implementation of a Semi-Dynamic Datum in New Zealand – Ten Years On (PDF 489KB), Blick & Grant, 2010: presented at the International Federation of Surveyors (FIG) Congress 2010, Sydney, Australia

Donnelly, N., Ritchie, J. and Amos, M. (2011). Re-establishment of the New Zealand Survey Control System following the 2010 Darfield (Canterbury) Earthquake, Proceedings of FIG Working Week, Marrakech, Morocco, 18-22 May. Online via www.fig.net/srl [accessed 4 February 2014].

Donnelly, N., Crook, C., Amos, M., Grant, D., Ritchie, J. and Roberts, C. (2014). Canterbury Earthquakes Deformation Model Accuracy, Proceedings of Surveying and Spatial Sciences Conference (LOCATE14), Canberra, Australia, 7-9 April (in press)

CORS Network and Datum Harmonisation in the Asia-Pacific Region Stanaway, R., and Roberts, C. (2010) XXIV FIG International Congress 2010, Sydney, Australia, 11-16 April 2010

New Generation Datums

The Cooperative Research Centre for Spatial Information (CRCSI) programme on Positioning in Australia has a project focused on the development of the next generation of geodetic datum. Several members of the working group are involved with this project.

With the rapid progress being made in the ability to generate real time Precise Point Positioning there is an increasing demand to have national datums that enable the generation and integration of real time coordinates in terms of the

official datum. These datum are likely to be 4 dimensional datum (dynamic) and tightly aligned with the ITRF.

Preliminary work has begun and this will be of relevance to this working group as we consider the development of new datums in the future. Particular areas of focus currently are the incorporation of remote sensing measurements (such as Synthetic Aperture Radar) and large 4D adjustments.

The following papers and presentations have been given on the topic:

Donnelly, N., Crook, C., Haasdyk, J., Harrison, C., Rizos, C., Roberts, C. and Stanaway, R. (2014). Dynamic Datum Transformations in Australia and New Zealand, Proceedings of Surveying and Spatial Sciences Conference (LOCATE14), Canberra, Australia, 7-9 April (in press)

Haasdyk, J., Donnelly, N., Harrison, C., Rizos, C., Roberts, C. and Stanaway, R. (2014). Options for Modernising the Geocentric Datum of Australia, Proceedings of Surveying and Spatial Sciences Conference (LOCATE14), Canberra, Australia, 7-9 April (in press)

eGeodesy

Geodesy is now very much an international science and one of its challenges has been the development of common data exchange formats so that data from different countries and States can be integrated and used for global and national datum development. A small group was set up with the aim of this work to facilitate seamless transfer of survey and adjustment data within the geodetic community. The working group is made up of representatives from New Zealand and Australia, but the model should be suitable for use in any jurisdiction.

The most substantial piece of work has been the use of the data model to develop a Geography Markup Language (GML) compliant schema. The advantage of compliance with GML is that the transfer format will then be more widely supported by software vendors, as many already support GML. A GML standard has been published by the International Standards Organisation (ISO), so the use of GML should ensure wide support for the geodetic transfer format being developed. The Use Case documentation has been developed, which outlines the major behaviours expected of an automated geodetic management system. Nic Donnelly (New Zealand) spent several months at JPL looking into the topic and meeting with North American colleagues who expressed interest in the work.

A major milestone for the eGeodesy programme was reached with the draft model, XML application schema and associated documentation being published.

The following papers and presentations have been given on the topic:

<http://icsm.govspace.gov.au/egeodesy/egeodesy-model/>

Donnelly, N., Fraser, R., Haasdyk, J. and Tarbit, S. (2013). GeodesyML – A GML Application Schema for Geodetic Data Transfer in Australia and New Zealand, Proceedings of Spatial Sciences & Surveying Conference 2013 (SSSC2013), Canberra, Australia, 15-19 April. Online via http://www.lpi.nsw.gov.au/surveying/publications/technical_papers [accessed 4 February 2014].

Fraser R., Donnelly, N. (2010). Progress Towards a Consistent Exchange Mechanism for Geodetic Data in Australia and New Zealand, Proceedings of FIG Congress 2010, Sydney, Australia, 11-16 April. Online via www.fig.net/srl [accessed 4 February 2014].

WG 5.3 – Geodetic and Positioning Infrastructure

Chaired by Neil D. Weston

The national developments regarding geodetic and positioning infrastructure was as intense as usual during 2012. Many countries are developing their infrastructure to meet the demands of the users. The development of national GNSS CORS is rapid. The International GNSS Service (IGS) is playing a very important role to develop standards and recommendations on how a reference station should be set up. These issues were raised and discussed at FIG events such as the Reference Frame Technical Seminar and Working Week in Rome, and at other related symposiums. WG 5.3 has actively participated in the development of technical sessions and creation of presentations for technical seminars and Working Weeks during the period. Guidelines on how to build a CORS within the United States can be found at the following link - http://www.ngs.noaa.gov/PUBS_LIB/CORS_guidelines.pdf

It has also contributed to the revision of the FIG publication no 49 on “Cost Effective GNSS Positioning Techniques” as well as the coming FIG publication “Reference Frames in Practice Manual”. Concerning publications, The Federal Geographic Data Committee in the United States has developed an A-16 Portfolio Management Implementation Process for datasets and data themes. There are 16 data themes in all, four of which are managed by the National Geodetic Survey, NOAA. The NGS managed themes are 1) Airborne Gravity, 2) Continuously Operating Reference Stations (CORS), 3) Geoid Models and 4) National Geodetic Survey Datasheets. The coordinator of each theme provides inter-agency coordination and leadership, planning, content and implementation within the community.

This working group also provided presentations and assistance with technical sessions, and often together with our sister organisations IAG, at several occasions as e.g. the ICG-7 (Beijing, China), the PPP-RTK and Open Standards Symposium (Frankfurt, Germany) and the IGS Workshop (Olzтын, Poland).

A proposal to investigate ‘standardization needs’ for geodetic references, has been submitted by France to the International Standardization Organization (ISO) in early 2012. This proposal was specifically sent to the ISO Technical

Committee 211 on Geographical Information / Geomatics. This proposal was approved in June by ISO TC 211 under the title of Project 19161. FIG endorses this initiative and needs to be actively involved in this effort in the future.

The International GNSS Service (IGS) is one of the most important organisations and FIG has a very strong relationship with them. One of the major projects currently underway is the "repro2" which involves the re-processing of all the GNSS data collected at the IGS reference stations. Supplemental data is included from a number of regional networks to strengthen the ties around the globe.

Another area with significant interest is in the real-time sector. In the United States, the National Geodetic Survey will hold a symposium of all the real-time network operators to discuss how each network provider can benefit by following an agreed upon set of standards and guidelines. The goal is to ensure network providers are tied to the national reference frame and the coordinates they produce in their software packages are consistent from one regional network to the next. The symposium is set to take place on March 20, 2014.

Probably the biggest endeavour the geodetic agencies in the United States are working on is to move to a geometric datum that is aligned to the ITRF. The initial plans are to switch the current horizontal datum in the United States (NAD83) sometime in 2020. Although final implementation is a long way off, a significant amount of work has to be performed on the legislative side. A grass-roots effort will begin soon to educate the positioning communities about the impacts and benefits to switching to a 3-D geometric datum.

New Appointment: Dr. Neil D. Weston, Deputy Director of the National Geodetic Survey, NOAA, will serve as the U.S. representative to the Working Group on Global Geodetic Reference Frame for Sustainable Development. Dr. Weston also served as a member of the U.S. Delegation during the 3rd Committee Meeting of the UN-GGIM Conference in Cambridge, England last summer.

WG 5.4 – Kinematic Measurements

Chaired by Volker Schwieger

The geodetic world and therefore the surveying profession are moving from static to kinematic measurements, consequently Commission 5 established this new Working Group (WG) for the term 2011-14. The working group has consisted of an active group of practitioners and academics from four continents. The two technical main points for the group have been multi-sensor-systems related to monitoring and machine guidance. Covered topics are e.g. synchronisation of measurement and modelling of movements. The main task is to facilitate the interchange of knowledge about kinematic measurements among practitioners and researchers at FIG Working Weeks and Regional Conferences. Beside dedicated sessions at the Working Weeks, joint conferences with other organisations like the Mobile Mapping Technology and the Machine Control and Guidance are also the focus of the WG.

The technical main points identified by Working Group 5.4 are multi-sensor-systems related to monitoring and to machine guidance. This was the reason to support the 3rd International Conference on Machine Control and Guidance (MCG 2012) that was held in Stuttgart, Germany on 27 - 29 March 2012. A total of 33 papers were accepted. The conference papers were included in sessions about the topics: Global Navigation Satellite Systems, Kinematic Measurements, Sensor Integration, Data Management and Communication, Control Algorithms, Agriculture and Construction. The content of the lectures ranged from scientific contributions (e.g. regarding the development of new control algorithms) to best-practise reports of construction companies as well as presentation about teaching possibilities in the field of machine control.

In collaboration with FIG Commission WG 5.5 and IAG Working Group "Ubiquitous Positioning" a special issue for the Journal of Applied Geodesy on the topic "Ubiquitous Positioning and Navigation Systems" was finalized including a peer review process and publication. This journal was edited by Kealy, Schwieger and Retscher. Issue No 4 of the 2013 volume includes contributions covering all topics of the joined Working Groups: from GNSS and multi-sensor-systems to control and guidance issues. In the FIG family peer-reviewed publication is a new step trying to win researchers for activity within the FIG commissions. The papers are investigating new technologies and techniques for multi-sensor systems delivering enhanced positioning and navigation capabilities have been invited. Also papers that describe new integration architectures, algorithms and applications for multi-sensor systems are particularly encouraged.

The WG chair also contributed to a paper entitled "Innovative and Cost-effective Spatial Positioning" that was published jointly with Mikael Lilje, the Commission Chair. The paper was selected as FIG Paper of the Month January 2014. In the paper, static and kinematic survey methods are investigated with respect to their economic benefit with other words their cost-effectiveness. The paper was successfully launched at the FIG Working Week in Abuja and at the Geo-Siberia in Novosibirsk, Russia. Further request to the authors are already known.

Sample publications;

- Kealy, A., Retscher, G., Schwieger, V.: Preface to the Special Edition of the JAG on Ubiquitous Positioning and Navigation Systems. Journal of Applied Geodesy, Heft 4, de Gruyter, 2013.
- Beetz, A, Schwieger, V.: Automatic lateral control of a model dozer. Journal of Applied Geodesy, Heft 4, de Gruyter, 2013
- ..and all the other publications of this Journal of Applied Geodesy Issue No 4.
- Zhang, L., Schwieger, V.: Investigation regarding different antennas Combined with low-Cost receiver. FIG Working Week, Abuja, Nigeria, 06.-10.05.2013.
- Schwieger, V., Lilje, M.: Innovative and Cost-effective spatial positioning. FIG Working Week, Abuja, Nigeria, 06.-10.05.2013 and Interexpo Geo-Siberia, Novosibirsk, Russia, 24.-26.04.2013.
- Beetz, A., Schwieger, V.: Automatic Lateral Control of a Dozer. FIG Regional Conference, Montevideo, Uruguay, 26.-29.11.2012.

- Scheider, A., Beetz, A., Schwieger, V.: Post-Processed Kinematic Low-Cost GPS. Proceedings on 3rd International Conference on Machine Control & Guidance, Stuttgart, 27.-29.03.2012.
- Schwieger, V.: Challenges of Kinematic Measurements. FIG Working Week, Rome, Italy, 06.-10.05.2012.
- Schwieger, V., Beetz, A.: Road Construction Machine Guidance: Overview and hardware-in-the-Loop-Simulator. Proceedings on International Conference on Innovative Technologies for an Efficient Geospatial Management of Earth Resources, Almaty, Kazakhstan, 18.-19.09. 2012.
- Schwieger, V., Böttinger, S., Zheng, B. (Editors): Proceedings on 3rd International Conference on Machine Control & Guidance, Stuttgart, 27.-29.03.2012.
- Zhang, L., Stange, M., Schwieger, V.: Automatic Low-cost GPS Monitoring System using WLANCommunication. FIG Working Week, Rome, Italy, 06.-10.05.2012.
- ...and all publications of in the Session "Multi Sensor Systems" at FIG Working Week Rome
- ...all publications of in the Session " Measurement Applications of Unmanned Vehicles Multi Sensor Systems" at FIG Working Week Rome

WG 5.5 – Ubiquitous Positioning

Chaired by Allison Kealy

This working group is coordinated jointly with IAG sub commission 4.2.2.

Ubiquitous positioning systems typically rely on the fusion of multiple sensors, signals or measurements to deliver a position solution in environments that are 'difficult' for Global Navigation Satellite System (GNSS), or to broadly address GNSS vulnerabilities. To fully deliver a ubiquitous positioning capability requires an understanding of the performance capabilities of the sensors used to augment or replicate that of a GNSS. The focus of this working group has been to integrate disparate research initiatives internationally with the overall goal of developing a resource of approaches, models, techniques and data that was freely available. To achieve this, a number of field campaigns with contributions from international universities, publications, technical seminars and tutorial have been held over the period under review. The working group also maintained a strong and active presence at many international events through participation in coordinating workshops, scientific and organizing committees, delivering short courses and tutorials, publishing papers and presentations, session chairing, etc.

The Working Group has been active at the FIG Working Weeks during the period under review. At the Working Week in Marrakesh the members discussed the objectives of the group's activities and the discussions included:

1. a redefinition of ubiquitous positioning systems,
2. provision of complete and representative data sets for use by the positioning user community via a dedicated web portal,
3. a focus on collaborative positioning techniques; and

4. broadening the use of sensors beyond MEMS inertial sensors to include other alternative positioning technologies.

The working group has been very active at a number of international events as;

- FIG Working Week with papers and session chairs.
- Mobile Mapping Technology (MMT) Symposium, Krakow Poland in 2011. This included participating as part of the scientific program committee, presentation of working group outcomes as well as the coordination of two pre symposium tutorials;
Title: Mobile mapping technology: paradigm shift and future trends
Title: Applications of MMT in land transportation systems and infrastructure from planning through
- IAG Commission 4 together with ISPRS co-sponsored the 7th International Mobile Mapping Symposium, Tainan, Taiwan, May 1-3, 2013; <http://conf.ncku.edu.tw/mmt2013/>
- 2011 International Union of Geodesy and Geophysics (IUGG) General Assembly, Melbourne, Australia. Presentations and posters as part of our on-going collaborations with the International Association of Geodesy (IAG). Working group co-chair Allison Kealy and member Dorota Brzezinska are the current vice president and president of IAG Commission 4, Positioning and Applications. This will continue to strengthen links between the two organisations.
- ION GNSS 2011, 2012 and 2013. Participation with papers, involved in the technical program.
- International Symposium on Location-Based Services, Vienna, Austria. Co-chair Guenther Retscher played an important role in involving the FIG in this event which offers a wealth of knowledge for FIG members interested in alternative positioning technologies.
- International GNSS Symposium, Sydney, Australia. Papers presented on behalf of the working group on emerging issues in collaborative navigation.
- Together with IAG commission 4 and ISPRS co-sponsored and co-organized, a field campaign on Indoor Positioning, at the RMIT and Melbourne Universities, Australia, July 8-12, 2013.
- Significant involvement and presence at the ION Pacific PNT Conference, Honolulu, Hawaii, April 22-25, 2013; <http://www.ion.org/meetings/pnt2013program.cfm>. Several papers authored collaboratively with FIG/ISPRS/IAG members were presented.
- Significant involvement and presence at the International GNSS Symposium, Gold Coast, Australia, July 12-19, 2013; <http://www.ignss.org/Conferences/IGNSS2013Conference/2013ConferenceVenueInformation/tabid/113/Default.aspx>

In 2011, members of working group 5.5 undertook major collaborative endeavours at Ohio State University, USA and the University of Melbourne, Australia. These field based collaborations have generated significant data sets the analysis of which formed the basis of work in 2012.

In 2012 a major activity undertaken by members of the joint IAG Working Group WG 4.1.1 and FIG WG 5.5 was field experiments at the University of Nottingham from May 14 to 18, 2012. These revolved around the concept of collaborative navigation, and partially indoor navigation. Collaborative positioning is an integrated positioning solution which employs multiple location sensors with different accuracy on different platforms for sharing of their absolute and relative localizations. Typical application scenarios are dismounted soldiers, swarms of UAV's, team of robots, emergency crews and first responders. The stakeholders of the solution (i.e., mobile sensors, users, fixed stations and external databases) are involved in an iterative algorithm to estimate or improve the accuracy of each node's position based on statistical models. For this purpose different sensor platforms have been fitted with similar type of sensors, such as geodetic and low-cost high-sensitivity GNSS receivers, tactical grade IMU's, MEMS-based IMU's, miscellaneous sensors, including magnetometers, barometric pressure and step sensors, as well as image sensors, such as digital cameras and Flash LiDAR, and ultra-wide band (UWB) receivers. The employed platforms in the tests include a train on the roof of the Nottingham geospatial building, mobile mapping vans, a personal navigator and a foot tracker unit.

In terms of the tests, the data from the different platforms was recorded simultaneously. The personal navigator and a foot tracker unit moved on the building roof, then through the building down to where it logged data simultaneously with the vans, all of them moving together and relative to each other. The platforms then logged data simultaneously covering various accelerations, dynamics, etc. over longer trajectories. Promising preliminary results of the field experiments showed that a positioning accuracy on the few meter level can be achieved for the navigation of the different platforms.

In 2013 this Working Group continued its work on collaborative positioning and navigation using a variety of sensors on different platforms. To achieve this, WG5.5 carried out its work in close cooperation with the International Society for Photogrammetry and Remote Sensing (ISPRS) Commission 1 "Sensors and Platforms for Remote Sensing," and IAG sub commission 4.1.1 also entitled "Ubiquitous positioning. A key highlight of 2013 was a field campaign on indoor positioning conducted at RMIT University, Melbourne, Australia. Another significant outcomes was the publication of a special edition of the Journal of Applied Geodesy which included representative work from members of WG 5.5 and 5.4. This journal was edited by Kealy, Schwieger and Retscher.

Representative publications from the group include:

- Kealy, Allison, Guenther Retscher, and Volker Schwieger. "Preface to the Special Edition of the JAG on Ubiquitous Positioning and Navigation Systems." *Journal of Applied Geodesy* 7.4 (2013): 227-230.
- Alam, N., Kealy A. & Dempster A. G. An INS-Aided Tight Integration Approach for Relative Positioning Enhancement in VANETs. *IEEE Transactions on Intelligent Transportation Systems* PP(99): 1-6, 2013.
- Alam, N., Kealy A. & Dempster A. G., 2013. Cooperative Inertial Navigation for GNSS-Challenged Vehicular Environments. *IEEE*

- Transactions on Intelligent Transportation Systems,14(3):1370-1379.
- Kealy, A., Alam, N., Efatmaneshnik, M., Toth, C., Dempster, A. G. & Brzezinska, D. Collaborative Positioning in GPS-challenged Environments. International Association of Geodesy Symposia Series 139, Springer, 2013.
 - Kealy A., G. Retscher, A. Hasnur-Rabiain, N. Alam, C. Toth, D. A. Grejner-Brzezinska, T. Moore, C. Hill, V. Gikas, C. Hide, C. Danezis, L. Bonenberg, G. W. Roberts (2013): Collaborative Navigation Field Trials with Different Sensor Platforms. in: Papers presented at the 10th Workshop on Positioning, Navigation and Communication WPNC 2013, March 20-21, 2013, University of Applied Sciences Dresden, Germany, 6 pgs.
 - Kealy A., A. Hasnur-Rabiain, N. Alam, C. Toth, D. A. Grejner-Brzezinska, V. Gikas, C. Danezis, G. Retscher (2013): Cooperative Positioning using GPS, Low-cost INS and Dedicated Short Range Communications. in: Papers presented at ION Pacific PNT 2013, April 22-25, 2013, Honolulu, Hawaii, USA.
 - Kealy A., A. Hasnur-Rabiain, N. Alam, C. Toth, D. A. Grejner-Brzezinska, V. Gikas, G. Retscher (2013): Cooperative Positioning Algorithms and Techniques for Land Mobile Applications. in: Papers presented at the 8th International Symposium on Mobile Mapping Technology, May 1-3, 2013, Tainan, Taiwan, 6 pgs.

Further information about the Working Group and the field experiments may be found at <http://ubpos.net/>. Measurement data from the campaign are freely accessible from this website.

3. Cooperation

3.1 Cooperation with Other Commissions

The Commission has continued to work with the other FIG Commissions as required. This work has been primarily with Commission 6 on topics relating to deformation measurement, Machine Control and Guidance, Unmanned Aerial Vehicles (UAVs), calibration of instruments, long range measurement, satellite and terrestrial imagery measuring techniques (in particular mobile and static laser scanning). This cooperation involved holding joint technical sessions and meetings at FIG related events as well as co-sponsoring symposiums. Examples of the latter are;

- Quality of Geodetic Measurements (Munich, Germany)
- Geo-Siberia (Novosibirsk, Russia)
- 7th International Symposium on Mobile Mapping Technology (Krakow, Poland)
- Innovative Technologies for an Efficient Geospatial Management on Earth (Ulanbaatar (Mongolia), Ust-Kamenogorsk (Kazakhstan), Almaty (Kazakhstan))
- International Conference on Machine Control and Guidance

3.2 Cooperation with Sister Organisations

Cooperation with International Association of Geodesy (IAG)

The close working relationship with the IAG has continued to grow during the 2011 - 14 period. The support provided by the President Prof. Chris Rizos and IAG representatives has been fantastic. We achieved our success by convening joint technical sessions and holding joint administrative meetings during the FIG Working Weeks, the IUGG General Assembly, and other at symposiums. In collaboration with the IAG, Commission 5 examined significant issues relating to geospatial and positioning infrastructure and applications, reference frames, and also the created a "Reference Frame in Practice Manual" for the geodetic surveyor.

Cooperation with United Nations (UN)

The cooperation with UN based groups or agencies continue to flourish. Commission 5 sustained its involvement with the International Committee on Global Navigation Satellite Systems (ICG). The ICG was formed several years ago as a result of recommendations of the UN Committee on the Peaceful Use of Outer Space (COPUOS). At these meetings reports are given on the status of major GNSS sub-systems and the activities of related task forces. FIG Commission 5 Chair, Mikael Lilje co-chairs a working group on Geodetic and Timing References. ICG meetings have been held annual in Tokyo (Japan), Beijing (China) and Dubai (UAE). FIG thanks the efforts by Mr Matt Higgins who has continued to provide information to our Commission from ICG meetings.

Commission 5 has also actively worked with the United Nations Global Geospatial Information Management – Asia Pacific (UN GGIM-AP). Please note, the UN GGIM-AP was previously known as the Permanent Committee for GIS Infrastructure Asia-Pacific (PCGIAP). Our work with the UN GGIM – AP has been mainly concerned with the development of the Asia Pacific Reference Frame through technical seminars or workshops at FIG symposiums. The issues addressed in these seminars ranged from vertical / height systems for disaster management or sea level monitoring, GNSS CORS infrastructure and applications to building the capacity of surveyors in the Asia Pacific region. FIG thanks the support provided by Dr. John Dawson, Chair Working Group 1 - Geodetic Reference Framework for Sustainable Development – UN GGIM AP.

4. Events, Communications and Publications

FIG Commission 5 representatives have participated in many events during the 2011 - 14 period. Numerous reports of events or newsletters detailing our activities have been produced and they can be found on our websites -

- <http://www.fig.net/commission5/>
- http://www.fig.net/annual_review/index.htm
- http://www.fig.net/commission5/news/news_1.htm
- <http://www.fig.net/commission5/newsletters/newsletters.htm>

- <http://www.fig.net/commission5/reports/reports.htm>

The following is a list of events FIG Commission 5 have attended -

- General Assembly for the International Union of Geodesy and Geophysics, IAG (Melbourne, Australia)
- ICG-6, International Committee on GNSS (Tokyo, Japan)
- The Geodetic Infrastructure in Europe, CLGE (Umeå, Sweden)
- 3rd International Colloquium - Scientific and Fundamental Aspects of the Galileo Programme (Copenhagen, Denmark)
- UAV-g, ISPRS (Zurich, Switzerland)
- 3rd and 4th International Conference on Machine Control and Guidance (Stuttgart and Braunschweig, Germany)
- ICG-7, International Committee on GNSS (Beijing, China)
- PPP-RTK and Open Standards (Frankfurt, Germany)
- IGS Workshop (Olztyn, Poland)
- Interexpo Geo-Siberia (Novosibirsk, Russian Federation)
- 12th South East Asia Survey Congress in Manila, Philippines
- ICG-8, International Committee on GNSS (Dubai, UAE)
- FIG Commission 5,6 Workshops: Innovative Technologies for an Efficient Geospatial Management on Earth (Ulanbaatar, Mongolia and Ust-Kamenogorsk, Kazakhstan and Almaty, Kazakhstan)

Mikael Lilje
Chair

Chair of FIG Commission 5

March 2014

FIG Commission 6 – Engineering Surveys

Annual Report of Activities 2013

Activities in 2013

FIG Working Week Abuja

Commission 6 participated in the FIG Working Week in Abuja, May 2013 in 2 technical sessions, presenting 7 papers.

Nottingham, UK

The 2nd Joint International Symposium on Deformation Monitoring was held at the University of Nottingham 9-11 September 2013. Some 84 papers were presented in all, from all around the World.

Further information on Commission 6's activities and contacts can be found on the Commission 6 web page, and most of the conference proceedings can also be found on the FIG's web page. www.fig.net/commission6

Professor Gethin Wyn Roberts FCInstCES

Chair of Commission 6

April 2014

FIG Working Week 2012, Rome, Italy

Prof Gethin Wyn Roberts, FIG UK Commission 6 Delegate and Chairman of Commission 6 “Engineering Surveys”, The University of Nottingham Ningbo China

Dr Lawrence Lau, Commission 6 Vice Chair for Administration, The University of Nottingham Ningbo China

Dr Craig Hancock, Commission 6 Vice Chair for Administration, The University of Nottingham UK.

The 35th FIG Working Week took place in Rome from the 5 – 10 May 2012. The event was hosted by Consiglio Nazionale Geometri e Geometri Laureati, CNGeGL, and over 1,300 delegates attended, including an incredible 150 young surveyors from 40 different countries.

FIG Young Surveyors

The Young Surveyors (YS) Network held their own pre-conference on the 3 – 4 May. 32 papers were presented by the YS, covering the following areas:

- Challenges for Young Professionals
- Young Surveying Professionals
- GIS and Land Management
- Surveying and Measurement
- Real Estate and Property
- Forum Discussion on Young Surveyors Role and Challenges in the Current Society
- Plenary Session - Young Surveyors as Agents of Change
- Plenary Session - GLTN and Youth Dimensions (co-organised by UN HABITAT)

FIG/IAG Workshop

Running in parallel to this, commissions 5 and 6 held a workshop jointly with the International Association of Geodesy (IAG) focussing on “Reference Frames in Practice”. Some 40 delegates attended this event and the following topics were presented:

- The Role of Geodesy
- GGOS and Future Trends
- Global Terrestrial Reference Systems and Frames
- Regional and National reference systems
- IGS services and other initiatives
- Four dimensional deformation models for Terrestrial Reference Frames
- Gravity and WHS
- Worked examples of Terrestrial Reference Frame realisations

- Multi GNSS Environment
- Standards and Traceability of a Terrestrial Reference Frames / GNSS

ACCO Meeting

On the 4th May, there was a daylong meeting of the Advisory Committee of Commission Officers (ACCO) where discussion and decisions were made with regards technical sessions at future FIG events, procedures involved, as well as commission specific events.

General Assembly

The working week itself started off with the General Assembly during the whole of Sunday; where various member organisations, including the ICES, vote on various FIG issues. These included membership applications from new organisations. The University of Nottingham Ningbo China (UNNC) successfully applied for academic membership, The University of Nottingham UK is already a member. This illustrates the increasing surveying activities on the two campuses, including the introduction of the MSc course in Engineering Surveying and Geodesy at UNNC. The full proceedings, agenda and minutes of the General Assembly can be found at the FIG's web page.

Technical Sessions

During Monday to Wednesday the technical sessions at the FIG were held. Commission 6 organised and co-organised the following sessions that included some 84 papers:

TS01F - Dam and Reservoir Engineering Surveying
 TS01L - Mining and Underground Engineering Surveying I
 TS02F - Engineering Surveying – Photogrammetry
 TS03F - Deformation Monitoring I
 TS04F - Deformation Monitoring II
 TS05J - Mining and Underground Engineering Surveying II
 TS06G - Engineering Surveying, Machine Control and Guidance
 TS07A - Laser Scanners I
 TS07M - Remote Sensing Applications and Case Studies
 TS08C - Laser Scanners II
 TS09D - Laser Scanners III
 TS09I - Engineering Surveying
 TS05H - Remote Sensing I
 TS06I - Remote Sensing II
 TS08B - The Impact of Earthquakes and Geodynamics on Geodetic Reference Frames

These sessions were very well attended, with standing room only at a couple of the sessions, illustrating the interest in this subject area. One area in particular that has shown a lot of interest this year is that of the subject of laser scanners. Commission 6 has a joint Study Group 6.2.2 Laser Scanners (Joint with Commission 5). This is chaired by Dr Ivo Milev, Bulgaria, who was also voted in as the new Commission 6 chair from 2014. The interest in laser scanners illustrates the impact this device is having on surveying, and how it has become part of the surveyor's armoury over the past 10 to 15 years. Another new device that has emerged over the past handful of years is Ground Based Synthetic Aperture Radar (GBSAR). This is a tripod mounted SAR system.

I can remember when I first saw a laser scanner, on display at the World of Surveying when it was held at Castle Donnington some 10 or so years ago. There was a lot of interest and scepticism of this strange device, that looked a little like a Geodimeter EDM, and only a relatively short time later some such devices are as small and light as a total station, able to record data at a phenomenally high data rate, with a resolution close to that of total stations. The applications of these devices are ever increasing.

Various plenary sessions were held during the working week, including the following:

- Knowledge to Manage
- Knowledge to Protect
- Knowledge to Evaluate

All the papers and presentations will be available on the FIG's web page www.fig.net.

Commission 6's Work

Commission 6 has been very busy over the past year or so. Various sessions were organised at both the Rome working week, as illustrated earlier, as well as the working week in Morocco in May 2011. Various jointly organised events were held, notably GeoSiberia in Novosibirsk in April 2011 and 2012, a surveying conference focussing on "Innovative Technologies for an Efficient Geospatial Management of Earth" in Ulaanbaatar Outer Mongolia in September 2011, and the same conference is planned in Kazakhstan for September 2012. A conference focussing on surveying high rise buildings is planned for the 22 - 23 November 2012, and the 8th FIG regional meeting is to be held in Uruguay 26 – 29 November 2012.

These conferences are held in regions and parts of the World where there are increasing opportunities. An internationally focussed surveyor can take advantages of these opportunities, and such events can allow the right connections to be made.

UNNC Paper

This year I gave a presentation about the University of Nottingham's Campus in China, where I am the Dean of the Faculty of Science and Engineering, and our activities; in particular the start of the MSc course in Engineering Surveying and Geodesy here from September 2012.

The overview of the campus is that we have approximately 5,200 students, and expanding to 8,000 over the next few years. There are a variety of subject areas, including business, international studies, international communications, education, as well as science and engineering. Science and Engineering is relatively new on the campus. All the courses are delivered in English, and follow the same learning outcomes as the courses in the UK and Malaysia campuses. All the quality assurance is carried out in the UK, with the same external examiner. All the students receive a University of Nottingham degree certificate once they graduate.

We plan to expand our non Chinese student numbers to 20% and our postgraduate numbers to 15-20% of the planned 8,000 overall student number. The advantage is that students can obtain a UK based education, but also live in China; hence learning more about the culture as well as the language through our complimentary Mandarin classes.

Due to the expansion, the faculty is currently recruiting a further 39 academic staff from all over the world to join the current 38. This gives academics the opportunity to work in a new facility, supported by the University of Nottingham's pedigree. The University, with support from the local and national Chinese governments, are investing in the infrastructure required for the expansion, as well as equipment and facilities. It is truly an incredible place to live and work, and the pace of expansion is incredible.

The enigma that China appears to be to most people is in reality an easy place to work and live in. The most difficult thing was that first step in taking the plunge and coming out here.

Moreover, two technical papers were presented in TS05B - GNSS CORS Infrastructure and Applications I and TS08C – Laser Scanners II by the Commission Vice Chairs. Lawrence gave insights on the effect of GNSS modernisation on surveying, especially on multipath effect. Craig ..

FIG Activities

The University of Nottingham Ningbo China became an academic member of the FIG at the working week.

Future FIG events include the following:

26 – 28 September 2012, Commission 2 “Professional Education” conference on “Global trends and convergence in Surveying Education”, Moscow.

22-23 November 2012, Commission 6 workshop on “Monitoring High Rise and Tall Engineering Structures”, Hong Kong.

26-29 November 2012, FIG Regional Conference in Uruguay.

During the FIG working week at Rome, various elections for FIG officers were made. The following were voted in to start as commission chairs in January 2014:

Dr Pengfei Cheng (China PR) and Mr Bruno Razza (Italy) were elected as the next Vice Presidents of FIG for term 2013-16.

The Commission Chairs Elect for 2013-14 are –

Commission 1: Mr. Brian Coutts (New Zealand)

Commission 2: Ms. Liza Groenendijk (Netherlands)

Commission 3: Mr. Enrico Rispoli (Italy)

Commission 4: Ms. Angela Kesiena (Nigeria)

Commission 5: Prof. Volker Schwieger (Germany)

Commission 6: Dr Ivo Milev (Bulgaria)

Commission 7: Ms Gerda Schennach (Austria)

Commission 8: Mr Kwame Tenadu (Ghana)

Commission 9: Prof Liao Jinping (China PR)

These people will become chairs from January 2014. In addition to this, the venues for the 2015 and 2016 working weeks were decided upon as:

FIG Working Week 2015 will be in Sofia, Bulgaria

FIG Working Week 2016 will be in Christchurch, New Zealand

Final Words

The FIG working week was an excellent event, and allowed networking as well as learning about new concepts and applications. The World is becoming increasingly smaller and the opportunities for UK surveyors overseas is increasing.



Gethin with President CheeHai Teo



Gethin and President Jason Smith, President ICES



Gethin with Vice President Rudolf Staiger and Kate Fairlie (chair of the FIG Young Surveyors' Network)



Gethin Receiving the Certificate of Academic Membership for the University of Nottingham Ningbo China.



A who's who of FIG and IAG.



It was very hot in Rome.



Lots of Deformation Monitoring in such a Historic City.



More monitoring



Gethin, Alan Wright, Ahmed Chiki and daughter Neila Chiki from Algeria

Commission 7 – Cadastre and Land Administration

Report 2011-2014

Commission 7 has been very active during this term thanks to the involvement of the management team, the Commission 7 delegates and speakers from International organizations which deserves a big thank for their great achievements, for their generosity, for the activities organized and for high quality papers presented and sessions organized in FIG working weeks and congress, annual meetings, international symposiums, workshops, etc.

The mission of Commission 7 is to:

- To provide a forum for enhancing and exchanging knowledge about cadastre, land administration and land management world wide;
- To encourage the development of pro poor land management and land administration;
- To promote the importance of development of sustainable land administration as infrastructure for sustainable development to underpin economic growth;
- To promote the application of innovative and advanced technology in cadastre and land administration;
- To promote awareness of the role of surveyors in land administration matters to the public and among stake holders.

For the period 2011-2014, FIG Commission 7 has prioritized the following actions:

- promoting land rights infrastructures and good land governance to contribute to sustainable development;
- developing a better preparedness and response to natural disaster and climate change;
- developing a better cooperation between land surveyors aiming to develop the capacity and governance in land administration ;
- developing cadastral perspectives;
- investigating direct involvement of citizens into e-land administration processes;
- co-operating with international organizations in land tenure issues.

Another objective of the Commission 7 team was to organize its annual meetings in regions less represented within FIG and on the commission. This objective has been fulfilled by organizing, after the first one in Austria, an annual meeting in South America (San Luis, Argentina) in 2012, Africa (Yaoundé, Cameroon) in 2013 and North America (Québec, Canada) in 2014.

The annual meeting 2011 was held in September in Innsbruck, Austria and was attended by more than 30 delegates from all over the world. This very successful one week meeting culminated in a high level International Symposium on “Cadastre 2.0”. 80 experts from public institutions, private companies, academia and NGOs. The focus of the event was on future citizens’ involvement, crowd sourcing and social medias and on the completion of cadastre

and land registration in the developing world. Thank you to Gerda Schennach and the Austrian Society of Surveying and Geoinformation (OVG) for their great support in the organization of these very successful events. For more information:
<https://sites.google.com/site/figsymposium2011>

In 2012, the Annual meeting was held in San Luis (Argentina), in December just after the FIG Regional Conference in Montevideo (Uruguay). This annual meeting included an one-day International Symposium with the theme “Land Governance in South America and International Perspectives” which ended with a common declaration in which participants agreed on the need for closer cooperation and collaboration between local professionals themselves and with international organizations, namely OAS and FIG and concluded that «language is not a barrier as linguistic and cultural diversity is an asset. Any linguistic challenges can be addressed by the willingness and efforts to engage and work together».

These annual meeting and international symposium have been generously supported by the San Luis Provincial Government and co-organized by the Consejo Federal de Catastro (CFC) and the Federacion Argentina de Agrimensores. Claire Galpin, the Commission 7 vice-chair of Administration and Communications and Fernando Daniel Nasisi, president of CFC and his colleagues made a fantastic job, organizing all the technical, logistical and financial aspects. For more information: <http://fig2012-c7.jimdo.com/>

The Annual meeting held in Yaoundé in October 2012 was combined with the General Assembly of the Fédération des géomètres francophones (Francophone Federation of Surveyors) and an International symposium on Land Policies and Land Governance. About 20 delegates from 12 countries joined the annual meeting and the General Assembly of FGF was joined by 80 delegates. The symposium and workshop attracted about 150 colleagues.

The organisation of the event was possible because of the close co-operation with UN Habitat, the Fédération des géomètres francophones and the great support from our sponsors ESRI and Trimble and our Cameroon's colleagues. Thank you also to Claire Galpin, the Commission 7 vice-chair of Administration and Communications and to the FGF president François Mazuyer and to Bénédicte Fournier, International director of the OGE (French Order of Surveyors) for their great support in the organization of these events. For more information and proceedings: <http://fig2013-c7.jimdo.com>

The objective to promote “land rights infrastructures and good land governance to contribute to sustainable development” has been achieved by organizing these symposium in Argentina and Cameroon but also by presenting a series of papers at World Bank Land and Poverty Conferences, at FIG events, at a GLTN partner meeting and at LADM workshops. Papers have been published at www.oicrf.org and at the FIG website. Apart from conference papers a series of publications was prepared for professional Journals. The FIG Page in GIM International has been published monthly in close co-operation with FIG Office.

Working Groups work and activities

In order to realize its work plan, Commission 7 put in place 4 working groups which have achieved the following work and organized the hereafter described activities.

Working Group 7.1 – Pro poor land tools

Chair: Christiaan Lemmen

Deliverables

- International Standard for the Land Administration Domain (ISO 19152) with the Social Tenure Domain Model as a specialization.
- Collaboration with FAO in the finalization of the Multilingual Thesaurus on Land Tenure
- Information for land professionals via FIG Website and other platforms when appropriate

Achievements

The first Edition Land Administration Domain Model (LADM) has been published as a formal International Standard by ISO in December 2012. LADM is supporting both the progressive improvement of cadastres and fit-for-purpose cadastral requirements. The Edition I of the ISO 19152 LADM also includes the Social Tenure Domain Model (STDM). LADM and STDM are strongly supported by FIG. The STDM integrates formal, informal and customary tenure representations in land administration systems.

LADM is also in support to the implementation of UN Habitat's Continuum of Land Rights and FAOs Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests.

Two LADM workshops have been co-organised: in Rotterdam, The Netherlands, in 2012 and in Kuala Lumpur, Malaysia in 2013. Proceedings have been published.

A series of papers has been prepared and presented at several FIG events.

A contribution has been provided to FIG Publication nr 60 on Fit-for-Purpose Land Administration and other FIG Publications.

Unfortunately the support to the Multilingual Thesaurus on Land Tenure could not be delivered because of a substantial effort in the development of Land Administration Domain Model (LADM) and the Social Tenure Domain Model. In relation to this it should be recognised that a terminology is included in the Land Administration Domain Model (LADM).

Working Group 7.2 – Land administration, natural disasters and climate change

Co-chairs: David Mitchell and Jaap Zevenbergen

Policy issues:

Develop a better preparedness and response to natural disaster and climate change.

Achievements

It is important to mention that a Task force on Climate change has been put in place by the FIG Board in 2011. Thus, this working group has decided to more focus on land administration and disaster management (with attention to climate change adding to disaster). However, David Mitchell has been part of the FIG Task Force on climate change

In October 2011 the Commission chair and the WG co-chairs visited FAO representatives and came to a joint activity program of which the first phase has been implemented as planned.

- Joint FIG/FAO training workshop during the FIG Working Week in Rome at FAO. Presenters included Daniel Roberge, Jaap Zevenbergen, Francis Roy and David Mitchell (May 2012)
- Lead contribution by David Mitchell to the AusAid sponsored training in the Pacific (at USP, Fiji) (July 2012) (regional case studies were prepared by land professionals from the region)
- Contribution by Jaap Zevenbergen to the FAO sponsored training event in the Caribbean (at UWI, Trinidad) (October 2012) (again regional case studies were prepared by land professionals from the region)
- 3 thematic reports lead by David Mitchell, Jaap Zevenbergen and Francis Roy on respectively land tenure and valuation, spatial information management, and land use planning prepared for FAO (drafts ready late 2012)
- 3 Papers with the same lead authors on each of these reports at the FIG Working Week in Abuja (May 2013)
- Contribution by David Mitchell to e-learning material on the issues as part of the Voluntary Guidelines awareness activities (see <http://www.fao.org/nr/tenure/e-learning/en/>, but not yet online) (late 2013/early 2014). Jaap Zevenbergen has volunteered to do a review if desired (mid 2014 if it happens).

Due to staff changes at FAO in 2013 and a lack of resources the review of the 3 draft reports produced suffered some delays. Following discussions with FAO representatives in March 2014, this problem should be about to be resolved and should be ready for dissemination via website(s) or e-learning tools by the end of 2014. Anyhow, either as links within the FAO e-learning module on the issues, or on the FIG website these reports and the regional case studies will be made available for land professionals.

Commission 7 wishes to thank FAO for their important support, even a lack of resources has delayed some deliverables.

Working Group 7.3 – Cadastral perspectives

Chair Gerda Schennach

Policy issues:

- Cadastral perspectives “Beyond Cadastre 2014”
- 3D Cadastre (joint working group with Commission 3 chaired by Peter van Oosterom)
 - 3D Cadastre: models, standards, spatial information infrastructure, time management (4D), registration
 - Best practices and guidelines (legal, institutional and technical aspects) for the implementation of 3D-cadastres.
- Cadastre and Carbon credit management
- Participation in the Task Force about Spatially Enabled Society
- New tools for Cadastre management systems

Achievements

The proceedings of the International Symposium on “Cadastre 2.0”, above mentioned have been published under the title Cadastre 2.0 in 1200 copies

As a follow-up to the results of the Symposium, a FIG publication is also planned by the end of 2014 with the preliminary title Cadastre 2.1. It will comprise of an analysis of the Status Quo of stakeholders involvement and promote visions how to implemented solutions building upon new technologies and social media.

The discussions about the implementation of web 2.0 applications showed that it will be important for the progress of the work to search contacts to professional associations all over the world in order to consult about consequences for the profession, for education and qualification and for continuous professional development when integrating social media into existing processes for land management.

Joint Working Group Commissions 3 and 7 on 3D Cadastres

Chair: Peter van Oosterom

The Joint working group on 3D Cadastre has organized the following workshops:

- Delft, The Netherlands, 16-18 November 2011. Proceedings have been produced.
- Shenzhen, China, 25-26 October 2012 which gathered 160 participants from 20 different countries. For more information: <http://www.cadastre2012.org/>

Another workshop is planned in Dubai, UAE, 9-11 November 2014 in cooperation with the 3D GeoInfo Conference. For more information : [Workshop 2014 page.](#)

The working group has conducted questionnaire on the status of 3D Cadastres 2010-2014, of which all country responses are available:
<http://www.gdmc.nl/3DCadastres/participants/> (click on country name).

The working group website contains an inventory of relevant 3D Cadastre literature at <http://www.gdmc.nl/3DCadastres/literature/>

Finally, a special issue about 3D Cadastre has been published in the international scientific journal 'Computers, Environment and Urban Systems' (Volume 40, July 2013).

Working Group 7.4 – Land management reforms

Chair: Richard Grover

Policy issues:

- Cadastral and land management reforms
- State land management
- Governance of land management

Achievements

Working Group 7.4 held a successful international seminar in conjunction with FAO and the Hungarian Ministry of Rural Development entitle *State Land Management in Transition Countries: Issues and Ways Forward* in Budapest, Hungary, on 20-21 September 2012. The seminar attracted 65 delegates from 26 countries. The attendance of many of those from the transition countries was made possible through the generous provision of travel and accommodation bursaries by FAO. The papers can be accessed at the seminar website managed by the Ministry of Rural Development:

http://en.foldhivatal.hu/index.php?option=com_content&task=view&id=175&Itemid=166

The papers have also been made available through FIG and OCRIF.

Working group 7.4 is working on a publication on State Land Management, which comprises various papers from the seminar Commission 7 held on the topic and individual country papers. It is expected that the publication will be about 200 pages and will only be in electronic form. Publication is expected by the end of 2014.

Collaboration with International organizations in Land Tenure issues

In addition to the collaboration mentioned above with FAO, UN Habitat and FGF, the Commission 7 has worked in close collaboration with the World Bank, namely by its contribution to the program of the World Bank Land and Poverty in 2011, 2012 and 2013.

In 2012 Commission 7 co-organised with the World Bank a very well attended workshop about *Spatial Enabling Governments and Societies*. This one day workshop has been an excellent opportunity to promote the evolving role of land surveyors to support the sustainable land administration and management, low cost approaches in cadastre, data acquisition and land recordation system and management of public land.

Coming event

FIG Commission 7 team is preparing a big event, the GeoConference 2014 (www.geocongres2014.ca), to conclude its four year term. High level speakers will talk about four themes closely related to Commission 7 work: Climate Change and disaster management, Land management, Smart cities and Spatially enabled societies and Improvement of the quality of life. This event will be held in the hearth of the Old Quebec, UNESCO World Heritage Site. The Commission 7 Annual meeting will take place in the Montmorency Forest, ideal location for a workplan preparation retreat. The Fédération des géomètres francophones (FGF) will also organize its annual general assembly during the GeoConference 2014. A unique event not to be missed, in Quebec City, Canada, 7-11 Oct. 2014.

Management team

Chair

Daniel Roberge, Canada : roberge_d@hotmail.com

Vice-Chair Administration and Communication

Claire Galpin, France: claire.galpin@gmail.com

Young Surveyor representative and Administration and Communication assistant:

Jean-François Beaupré: beauprefj@yahoo.ca

Vice-Chair and Chair WG 1

Christiaan Lemmen, the Netherlands : lemmen@itc.nl

Vice-Chairs and Co-Chairs WG 2

David Mitchell, Australia : email: david.mitchell@rmit.edu.au

Jaap Zevenbergen, the Netherlands: zevenbergen@itc.nl

Vice-Chair and Chair WG 3

Gerda Schennach, Austria: gerda.schennach@bev.gv.at

Vice-Chair and Chair WG 4

Richard Grover, United Kingdom : rgrover@brookes.ac.uk

Chair Joint Com. 3 and 7 Working group on 3D Cadastre

Peter van Oosterom: P.J.M.vanOosterom@tudelft.nl

Commission 9 – Valuation and the Management of Real Estate

Final Report 2011 – 2014

“Managing Value for our Future”

Terms of Reference

The terms of reference of Commission 9 are:

- Valuation, being the estimating of value of all kinds of real estate by valuers and appraisers for various purposes, including market value, property taxation, eminent domain, investment, redevelopment and refurbishment, and for both public and private purposes;
- Investment in real estate, investment planning and real estate investment vehicles;
- Real estate finance, development finance, land use feasibility planning;
- Real estate economics, markets and market analysis;
- Management of all kinds of real estate at all levels;
- Asset management for corporate private and public sectors;
- Management of the use of buildings to ensure optimum benefits to occupiers.

Mission Statement

Accordingly, the mission of Commission 9 is:

- To advance the professional practice of valuers and property managers working in all areas of real estate valuation and management;
- To research and publish “best practice” for the benefit of valuers and property managers in different jurisdictions and sectors of the industry, for the benefit of the surveying community and to improve our services to the wider public;
- To facilitate and generate the exchange of information, knowledge and experience between surveyors for the benefit of the profession, our clients and the wider public;
- To publicise and promote the work of surveyors to the public, particularly to young people, governments and non-government organisations and to enhance their perception of the value of surveyors and the services they can deliver, especially in support of the global sustainability agenda and the Millennium Development Goals;
- To co-operate and work with fellow surveyors in all specialisms of the profession to further the objectives of FIG.

Themes

The work plan has focused on three highly relevant themes.

1. Property taxation which recognises the social and economic value of real estate and provides revenue (normally) to fund public services, for the benefits of the wider community.
2. Large scale land acquisition for agriculture, which follows on from the highly successful previous four years work on compulsory purchase and compensation, and is investigating the issue of land grab – a highly topical and controversial issue causing international concern, as well as severe individual and social hardship in

relevant communities. It is anticipated that this work should link into the interests of the wider international community, thereby providing opportunities for inter-organisational collaboration; and finally,

3. The management of public property assets in developing countries with a view to presenting guidelines on best practice for the public sector management community.

Working Group 9.1 – Property Tax

Within this Working Group, three Study Groups were established. Initial work was undertaken in all three areas (Tax Bases; Mass Appraisal Systems; and Tax Systems in Emerging Economies. Unfortunately, for various reasons, only the Study Group 9.1.2 has continued to function for the full four year term.

Study Group 9.1.2 under its chair Varnavas Pashoulis, of Cyprus, is developing a resource which will discuss the mass appraisal techniques used globally to support property tax assessments.

In September 2012, in conjunction with Neopolis University, Paphos, Study Group 9.1.2 held a Workshop which was attended by delegates from around the world, including Alan Dornfest of the International Association of Assessing Officers, based in the USA, who sought to gain more perspective about the needs of the international community and whose publication in the IAAO journal *Fair & Equitable* provided the mainly US audience with an appreciation of the diversity of techniques from other parts of the world.

Working Group 9.2 – Large Scale Land Acquisition for Agriculture

This working party builds on the earlier of 2007-2010 Working Group 9.1 (Compulsory Purchase and Compensation in Land Acquisition and Takings, led by Professor Kauko Viitanen), which has resulted in the Hanoi Declaration (FIG Publication 51) and the Compulsory Purchase and Compensation. Recommendations for Good Practice (FIG Publication 54).

Dr. Ibimina Kakulu, Nigeria / United Kingdom is developing a report for FIG on this very important issue.

Working Group 9.3 – Management of Public Property Assets in Developing Countries

The plan of this working group was to investigate fixed public property assets within developing countries with a view to establishing how such real estate assets are managed and to develop “best practice” guidance within such environments. Its work continues with its contribution to the Working Group 7.4 on State / public land.

Co-operation with United Nation Organisations, Sister Associations and other Partners

Commission 9 is co-operating closely with FAO on the planned FIG/FAO sessions in Rome, specifically on “Implementing Land and Property Taxes”, and in bringing to the debate issues from the study groups in Working Group 9.1.

Commission 9 has also been involved in the widespread discussions of methods of valuation where there is no market. This is a major challenge for our membership, and thus for Commission 9 and while it seems clear that the so-called *traditional* methods of valuation have little to offer by way off a solution, it is vital that we work with practitioners to seek to strengthen their role within developing markets by the establishment, testing and implementation of suitable methodologies.

Commission 9 has also contributed to the World Bank Land and Poverty Conference in 2013 where a paper entitled *Community Growth through Land Taxation* co-authored by the chair and vice-chair of Commission 9 was presented (available at <http://www.oicrf.org/document.asp?ID=11768>)

Commission 9 has also been instrumental in supporting the development of an International Property Measurement Standard (IPMS). FIG (represented by the Commission chair) is a founding member as well as a Trustee of the Coalition established in Washington DC in May 2013, to manage the process of the delivery of a suitable standard. In this matter, Commission 9 has worked closely with the CLGE and RICS in the furtherance of mutually beneficial outcomes. The International Property Measurement Standard for offices is the first of a series of standards being developed for a range of building types. The Coalition is seeking to develop additional standards for other kinds of real estate, and it is anticipated that other FIG Commissions will be involved in their progress.

Newsletters

The Commission has produced four Newsletters, reporting on relevant events, as well as announcements from the International Valuation Standards Committee, to inform the membership.

Summary

Four years has gone very quickly and much has been achieved. Although we had anticipated that more work would have been undertaken within the Working Groups, circumstances have worked against the keen and enthusiastic volunteers to prevent this. Nevertheless, as Commission Chair, I would like to take this opportunity of thanking everyone involved in the Working Groups, at all stages, as well as all the delegates who have attended and supported Commission 9 events. Finally, I want to thank the staff at the FIG bureau for their unfailing support, courtesy and cheerfulness.

I wish our chair-elect, Professor Liao Junping, every success for the next four years.

Dr Frances Plimmer
Chair Commission 9
March 2014.

FIG STANDARDS NETWORK REPORT TO THE 2014 FIG GENERAL ASSEMBLY

David Martin 2 June 2014

Standards Network Terms of Reference:

The Standards Network was formed in 2002. It works within Commission 1 and consists of representatives from each of FIG's Commissions. The terms of reference of the Network set out in the FIG Guide on Standardisation are:

- Building and maintaining relations with the secretariats of standardisation bodies,
- Proposing priorities on FIG's standardisation activities, including advising the Council on priorities for spending,
- Setting up necessary Liaison relationships with standardisation bodies,
- Ensuring that lead contacts to Technical Committees etc are in place,
- Maintaining an information flow on standardisation to FIG members, including through the FIG website, and more directly to relevant Commission Officers,
- Maintaining this Guide, and related material on the FIG website,
- Working with other NGOs, within the framework of the MOUs signed by the Council,
- Advising FIG's officers and members on standardisation activities as necessary.

FIG 2014 Kuala Lumpur Congress Standards Network Meeting

The last Network meeting was during the 2012 Working Week in Rome. A report was written to the Abuja working week in 2013. ***The Standards Network is scheduled to meet in Kuala Lumpur on Wednesday, 18 June 11:30–13:00.***

ISO/TC 211 Geographic Information/Geomatics

Nic Donnelly of Land Information New Zealand (LINZ) is the lead liaison from FIG to ISO/TC 211.

ISO/TC211 is involved with Standardization in the field of digital geographic information. It aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth. These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analyzing, accessing, presenting and transferring such data in digital/electronic form between different users, systems and locations. The work links to appropriate standards for information technology and data where possible, and provides a framework for the development of sector-specific applications using geographic data.

Nic Donnelly's ISO TC211 Liaison Report

Background

The International Organization for Standardization (ISO) develops and publishes standards in a comprehensive range of subject areas. Responsibility for a particular subject area resides with a

Technical Committee (TC), comprising representatives of national standards bodies, liaisons from other international organizations and subject matter experts. The technical committee responsible for Geographic Information/Geomatics is TC211. FIG is one of the organizations invited to appoint a special liaison to TC/211. Currently, this role is undertaken by Mr Nic Donnelly, of New Zealand. ISO/TC 211 also appoints a liaison to FIG, currently Mr Larry Hothem of the United States.

Key Work Items of Interest to FIG

Geodetic Registry Network

This project aims to establish a registry for geodetic codes and parameters. Initial development of the software has been completed and demonstrations are being held in late May/early June 2014. The registry will be hosted by the Norwegian Mapping Authority.

The Geodetic Registry Network comprises three parts:

- 1) The ISO register of geodetic registers. This is a catalogue of registers, either directly established by ISO, or established by other entities, but approved by ISO.
- 2) The ISO register of geodetic codes and parameters. This includes coordinate system and transformation parameters conforming to *ISO 19111: Spatial referencing by coordinates*
- 3) External registers of geodetic codes and parameters approved by the Control Body of the ISO Geodetic Registry Network

The Registry Network and associated standards provide a framework for the implementation of robust, well-managed, publically accessible geodetic registries. As such, organizations with responsibility for geodetic parameters will be encouraged to make them compliant with the ISO registry requirements. FIG, through the Standards Network and Commission 5, has a role to play in promoting the Registry, particularly as it reaches maturity. FIG may be invited to nominate a representative to serve on the Control Body. Membership of the Control Body would give FIG the opportunity to influence the development of the Registry.

Review of ISO/TS 19127:2005 Geodetic codes and parameters

“ISO TS 19127:2005 defines rules for the population and maintenance of registers of geodetic codes and parameters and identifies the data elements, in compliance with ISO 19135 and ISO 19111, required within these registers. Recommendations for the use of the registers, the legal aspects, the applicability to historic data, the completeness of the registers, and a mechanism for maintenance are specified by the registers themselves”

This standard underwent systematic review in late 2013. There was an even split in the voting between those members voting to confirm the standard and those voting to revise it. In light of this, a final decision has been deferred until the plenary meeting in Berlin in early June 2014.

Summary of existing standards under review

Standard	Name	Scope
ISO/TS 19104:2008	Geographic information -- Terminology	Provides the guidelines for collection and maintenance of terminology in the field of geographic information. It establishes criteria for selection of concepts to be included in other standards concerning geographic information, which are developed by ISO/TC

		211, specifies the structure of the terminological record, and describes the principles for definition writing.
ISO 19119:2005	Geographic information -- Services	Identifies and defines the architecture patterns for service interfaces used for geographic information, defines its relationship to the Open Systems Environment model, presents a geographic services taxonomy and a list of example geographic services placed in the services taxonomy. It also prescribes how to create a platform-neutral service specification, how to derive conformant platform-specific service specifications, and provides guidelines for the selection and specification of geographic services from both platform-neutral and platform-specific perspectives.
ISO/TS 19139:2007	Geographic information -- Metadata -- XML schema implementation	Defines Geographic MetaData XML (gmd) encoding, an XML Schema implementation derived from ISO 19115.

Summary of new standards under development

Project	Name	Scope
ISO/DTS 19115-3	Geographic information -- Metadata -- Part 3: XML schema implementation of metadata fundamentals	This Technical Specification defines five artefacts to support the use of ISO 19115-1 compliant metadata and migration from ISO19115 to ISO19115-1.
ISO/AWI 19155-2	Geographic Information -- Place Identifier (PI) architecture -- Part 2: Place Identifier (PI) linking	Similar to the Place Identifier (PI) architecture (ISO 19155:2012) this International Standard is not an implementation specification. One main design concept of the Place Identifier is that the format of a user's original data content remains unchanged, when encoded into a Place Identifier. This enables communities and PI data providers to more easily provide their already existing data as Place Identifiers.
ISO/AWI 19159-2	Geographic information -- Calibration and validation of remote sensing imagery	This Technical Specification defines the data recording and the calibration of airborne lidar (light detection and ranging) sensors. This Technical Specification also addresses the associated metadata related to data recording and calibration that has not been defined in other ISO geographic information standards.

	sensors -- Part 2: Lidar	This International Specification is part 2 of a series of specifications. Part 1 addresses the optical sensors. The following parts will cover SAR/InSAR and microwave radiometers (RADAR), as well as SONAR (sound).
ISO/CD 19160-1	Addressing -- Part 1: Conceptual model	<p>This part of ISO 19160 defines a conceptual model for address information (address model), together with the terms and definitions that describe the concepts in the model. Lifecycle, metadata and address aliases are included in the conceptual model. The model is presented in the Unified Modeling Language (UML).</p> <p>The model provides a common representation of address information, independent of actual addressing implementations. It is not intended to replace conceptual models proposed in other specifications, but provides a means to cross-map between different conceptual models for address information and enables the conversion of address information between specifications.</p> <p>The model provides a basis for developing address specifications by individual countries or communities.</p>
ISO/AWI 19160-4	Addressing -- Part 4: International postal address components and template languages	This part of ISO 19160 defines key terms, a dictionary of postal address components and constraints on the use of the components. Further this part of ISO 19160 defines languages suitable for human comprehension and computer processing to formally express address rendering rules that stipulate how a postal address is to be written, including the order in which postal address components are to appear, required and optional components, and the presentation or rendition of the components, subject to constraints on the space available for that task. A formal expression of address rendering rules provided in one of the specified languages is defined in this part of ISO 19160 as postal address template.
ISO/WD TR 19163	Geographic information -- Content components and encoding rules for imagery and gridded data	This Technical Specification classifies imagery and regularly-spaced gridded thematic data into types based on attribute property, sensor type, and spatial property, and defines an encoding-neutral content model for the required components for each type of data. It also specifies logical data structures and the rules for encoding the content components in the structures.
ISO/AWI 19164	Geographic information -- Registry service	This International Standard specifies the Geographic information – Registry Service, an extensible web-based service for the management of geographic and geographically related artefacts, including, but not limited to dataset, feature and service descriptors, map symbols and styles, application schemas, feature concept

		<p>dictionary entries, feature catalogue entries, data/service subscriptions, access control policies, web map and other context documents, geographic entities/identities, geographic names, building or property addresses, codelists, sensor and process descriptions. This International Standard can support the vast majority of registers proposed by ISO/TC 211, INSPIRE and a variety of national, regional and local government bodies. In addition, this International Standard is anticipated to have a significant role in sensor networks and sensor webs, the Internet of Things, ubiquitous public access, and linked data.</p>
--	--	---

ISO 19152:2012 Land Administration Domain Model (LADM)

This Standard grew out of the Commission 7 work on the Core Cadastral Domain Model and was accepted into the ISO/TC 211 work programme in 2008. ISO 19152:2012 was published in 2012.

From the ISO website, ISO 19152:2012:

- defines a reference Land Administration Domain Model (LADM) covering basic information-related components of land administration (including those over water and land, and elements above and below the surface of the earth);
- provides an abstract, conceptual model with four packages related to parties (people and organizations); basic administrative units, rights, responsibilities, and restrictions (ownership rights); spatial units (parcels, and the legal space of buildings and utility networks); spatial sources (surveying), and spatial representations (geometry and topology);
- provides terminology for land administration, based on various national and international systems, that is as simple as possible in order to be useful in practice. The terminology allows a shared description of different formal or informal practices and procedures in various jurisdictions;
- provides a basis for national and regional profiles; and
- enables the combining of land administration information from different sources in a coherent manner.

There was an LADM Workshop in Kuala Lumpur in September 2013. Over 40 participants attended the workshop and a total of 25 peer reviewed papers were presented, covering a range of themes, including: the industry perspective on LADM; the linkage between LADM and information infrastructures; refined LADM modelling, 3D representations and formalizing LADM semantics; specific LADM country profiles; and implementation aspects. Proceedings are available at http://www.fig.net/news/news_2013/ladm2013_proceedings.htm

Version 1.0 of the Social Tenure Domain Model (STDM) tool source will be released at FIG Congress 2014 in Kuala Lumpur Malaysia, June 2014. The land tool is a product of several years of conceptualization, design, development, field testing and implementation by various partners of the Network. It is one of the flagship land tools that GLTN is developing to promote the continuum of land rights approach and to offer an alternative and affordable land information tool to strengthen tenure security, improve livelihoods and empower poor communities. STDM, a specialization of the Land Administration Domain Model (ISO 19152:2012), will highlight new improved features and enhancements in its first release, including the ability by users (not programmers or developers!) to

customize the tool for their purpose. It will be officially launched at the 25th Congress of the International Federation of Surveyors (FIG) on the 20th June 2014 in Kuala Lumpur, Malaysia. (http://www.fig.net/news/news_2014/stdm_launch.htm)

ISO/TC 172 SC6 Work on Survey Instrument Standards

Hans Heister has been the representative to ISO/TC 172 SC6 for FIG for many years. He will step down as our lead at the Kuala Lumpur Congress. Many thanks are given to Hans for his conscientious work over the years in standards and as FIG liaison to ISO/TC 172 SC6. Hans has proposed Prof Dr. Ingo Neumann from the University of Hannover, who is a member of FIG Commission 5 as well a member of the mirror committee NA 005-03-04 in DIN (the German standards organisation), to report on the activities of ISO /TC 172 SC6 in the future.

Hans Heister's Report on the ISO/TC 172/SC 6 Meeting held in Graz, Austria - September 19 - 20 2013

The meeting was held on invitation of Austria (new member since May 2013) and the Institute of Engineering Geodesy and Measurement Systems (EGMS) of the Graz University of Technology, represented by Univ. Prof. Dr. Werner Lienhart, in Graz, Austria.

As usual, the conference was well prepared by the chairman Mr. Wolfgang Hardegen, Leica Geosystems Ltd, Heerbrugg and the new secretary Mrs. Barbara Mullis, SNV, Winterthur.

The main topics of this meeting can be summarised as follows:

- Report of the secretariat
- ISO 12858 – Part 1: Invar levelling staffs
- ISO/NP 9849: Vocabulary
- ISO 17123 – Part 5: Total stations
- ISO 16331 – Part 1: Performance of handheld distance meters
- ISO 17123 – Part 9: Terrestrial laser scanners
- ISO 17123 – Part 10: Non prism measurement (reflectorless distance)

New published Standard: ISO 17123-Part 5:2012 Total stations

Comments to the single topics:

The new secretary Mrs. Barbara Mullis was introduced to the participants of ISO TC 172 SC6.

After a minor revision of **ISO 12858 – Part 1**: Invar levelling staffs concerning the classification of scale (class A) it was decided to proceed to the FDIS ballot.

The delegates discussed again the revision of **ISO 9849:2000** (Vocabulary). Taking into account the ballot results and the comments received ISO/TC 172/SC6 decided to stop the project on the revision and set it back to preliminary stage in order to correct and complete the compilation. The new draft will be submitted for approval as NWI in May 2014.

The delegates discussed the comment resolution on **ISO 12858-Part 1** / CD (levelling staffs) and asked the secretary to launch the CD ballot after inclusion of the agreed changes.

The delegates welcomed the publication of **ISO 17123 – Part 5: Total stations**

ISO/TC 172/SC6 acknowledged the presentation about the state of the art of testing terrestrial laser scanners by the German delegate of DIN (German standard organisation) Mr. Neumann. He was nominated as project leader for **ISO/PWI 17123-Part 9: Terrestrial laser scanners**.

ISO/TC 172/SC6 acknowledged the presentation of Mr. Mayer (Leica Geosystems) regarding **ISO/PWI 17123-Part 10: Non-prism measurement (reflectorless distance measurement by total stations)**. A draft should be prepared for the next meeting.

ISO/TC 172/SC6 recognized problems in the application of **ISO 16331 – Part 1: Performance of handheld distance meters** due to editorial and technical mistakes. The project leader was asked to provide a draft based on the discussion of the delegates for a new CD ballot.

The next meeting of ISO/TC 172/SC 6 will be held on September 18-19 2014 in Tokyo by invitation of Japanese delegation.

After the meeting a voluntary trip was organized by Prof. Lienhart to the famous wine region South Steiermark.

As attachment an actual compilation of all active work items and published standards of ISO/TC 172/SC6 is given.

Neubiberg, May 27 2014

Hans Heister

Abbreviations:

- NWI: New work item proposal (stage 1)
- WD: Working draft (stage 2)
- CD: Committee draft (stage 3)
- DIS: Draft international standard (stage 4)
- FDIS: Final draft international standard (stage 5)
- ISO International standard (publication) (stage 6)

Active work items

Reference	Document title	Crnt Stage	Action/Next Step
ISO/DIS 9849	Optics and optical instruments -- Geodetic and surveying instruments -- Vocabulary	40.60	Comment resolution and decision about further proceedings
ISO/DIS 12858-1	Optics and optical instruments -- Ancillary devices for geodetic instruments -- Part 1: Invar levelling staffs	40.60	Comment resolution and decision about further proceedings
ISO 12858-2:1999/Amd 1	Optics and optical instruments -- Ancillary devices for geodetic instruments -- Part 2: Tripods -- Amendment 1	60.00	Publication
ISO/DIS 17123-1	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 1: Theory	40.99	Formal Vote
ISO/CD 17123-8	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 8: GNSS field measurement systems in real-time kinematic (RTK)	30.00	Comment resolution and decision about further proceedings

For more details see N 344 Status of Work

Preliminary Work Items

Reference	Document title	Crnt Stage	Action/Next Step
ISO/PWI 17123-9	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 9: Terrestrial laser scanners	00.00	Discussion and decision
ISO/PWI 17123-10	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 10: Non-prisma measurement (reflector less distance measurements by total stations)	00.00	Discussion and decision

For more details see N 344 Status of Work

Published Standards of ISO/TC 172/SC 6

Reference	Title	Comment
ISO 9849:2000	Optics and optical instruments -- Geodetic and surveying instruments -- Vocabulary	Under revision
ISO 12858-1:1999	Optics and optical instruments -- Ancillary devices for geodetic instruments -- Part 1: Invar levelling staffs	Under revision
ISO 12858-2:1999	Optics and optical instruments -- Ancillary devices for geodetic instruments -- Part 2: Tripods	Amd under publication
ISO 12858-3:2005	Optics and optical instruments -- Ancillary devices for geodetic instruments -- Part 3: Tribrachs	
ISO 16331-1:2012	Optics and optical instruments -- Laboratory procedures for testing surveying and construction instruments -- Part 1: Performance of handheld laser distance meters	Proposal for revision
ISO 17123-1:2010	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 1: Theory	Minor revision in progress
ISO 17123-2:2001	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 2: Levels	
ISO 17123-3:2001	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 3: Theodolites	
ISO 17123-4:2012	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 4: Electro-optical distance meters (EDM measurements to reflectors)	
ISO 17123-5:2012	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 5: Total stations	New
ISO 17123-6:2012	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 6: Rotating lasers	
ISO 17123-7:2005	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 7: Optical plumbing instruments	
ISO 17123-8:2007	Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 8: GNSS field measurement systems in real-time kinematic (RTK)	Under revision

International Measurement Standard of Property (IPMS)

An international initiative to establish International Property Measurement Standards is underway. Frances Plimmer, FIG Commission 9 Chair, is the FIG liaison for this initiative. A round table meeting is scheduled in Kuala Lumpur to discuss progress on this project.

International Property Measurement (IPMS) Declaration Document

As representative bodies of the international property profession, having agreed with the goal of addressing property measurement fragmentation to increase public trust while supporting financial reporting and sound economic information, we commit in principle to the development and implementation of International Property Measurement Standards and confirm our intention to fulfil the following Objectives:

Objective 1 - Ethics

Ethics guide everything we do and foster public trust. To complement property measurement standards, we follow ethical principles that guide our international profession.

Objective 2 – Standards

Standards are the foundation of our profession. We support the creation, maintenance and use of high quality, international and principle-based property measurement standards through a transparent and inclusive standard setting process.

Objective 3 - Measurement

Measurement underpins the assumptions on which property professionals undertake their activities. We will cooperate in creating an inclusive and sustained measurement standard setting process.

Objective 4 – Implementation

Once International Property Measurement Standards (IPMS) are created we are committed to promote the implementation of these standards to encourage world markets to accept and adopt IPMS as the primary method of property measurement.

The IPMS Coalition

The IPMS Coalition currently comprises the following 20 members who have signed the Declaration:

- Australian Property Institute (API)
- The Appraisal Foundation (TAF)
- Appraisal Institute (AI)
- Asia-Pacific Real Estate Association (APREA)
- Asociacion Profesional de Sociedades de Valoracion (ATASA)
- American Society of Farm Managers and Rural Appraisers (ASFMRA)
- ASTM International
- Building Owners and Managers Association (BOMA)
- China Institute of Real Estate Appraisers and Agents (CIREA)
- CoreNet Global
- Council of European Geodetic Surveyors (CLGE)
- Commonwealth Association of Surveyors and Land Economists (CASLE)
- International Consortium of Real Estate Associations (ICREA)
- International Federation of Surveyors (FIG)
- International Monetary Fund (IMF)

- International Real Estate Federation (FIABCI)
- Property Council of Australia (PCA)
- Royal Institution of Chartered Surveyors (RICS)
- Open Standards Consortium for Real Estate (OSCRE)
- South African Property Owners Association (SAPOA)
- 25 members

IPMS Round Table Meeting Thursday, 19 June 11:30–13:00

The development of the International Measurement Standard of Property (IPMS) is continuing with the launch of the IPMS for Offices scheduled for the FIG Congress in Kuala Lumpur. Additional Standards on Retail, Dwellings and Other building types will follow.

The IPMS Coalition is now turning its attention to the measurement of Land, and also Construction Measurement and Ethics. For the purposes of Kuala Lumpur, FIG is planning a round-table debate on the subject of the Coalition’s proposals for an International Standard for Land Measurement. Loads of issues involved here, but a major one is the limited appreciation of the Coalition secretariat as to the current international land measurement standards and the role of ISOs. This is largely due to the practice of measuring buildings around the world, which does not have an ISO and, as the need for the IPMS demonstrated, has had no international standard at all. ISOs are, therefore, not on their radar ... but they are very much mainstream for FIG surveyors.

The round table meeting is, therefore, an opportunity for those knowledgeable in the practice of land measurement and the nature and role of ISOs to “educate” the IPMS secretariat. It is also relevant that those of us who are able to do this can identify themselves, not merely with FIG but with their National Associations. As I have discovered, the IPMS secretariat can be persuaded, but only by a strong and united international and professional association voice. Indeed, the focus of the IPMS on buildings (rather than land and buildings which was their original aim) was the result of just such a round table debate and consensus.

Standards Issues in other Commissions

The Standards Network Template- list of commission topics

The pertinence of the *Standards Template* will be discussed in the Kuala Lumpur Standards Meeting and a decision will be made to maintain it or replace it with something better adapted to communicating the Commissions standards activities keeping people informed of them.

Standards issues initiatives in the FIG commissions

Standards issues related to FIG Commission 2

People working in different countries have different competencies. One key issue is to establish a database on body of knowledge in land surveying. Distance and e-learning are important points of reflection and development.

Standards issues related to FIG Commission 4

The International Board (IHO, FIG and ICA) has published guidelines for establishing individual recognition for hydrographic surveyors, at both professional and technical levels, taking into account education and experience.

Standards issues related to FIG Commission 5

There was also some discussion concerning FIG Publication No. 9. At the FIG working week held in Marrakesh it was decided that FIG publication No. 9 Recommended Procedures for Routine Checks of Electro-Optical Distance Meters - (http://www.fig.net/pub/figpub/pub09/FIG-Publication_Nr9_english.pdf) should be revised with additions for recommendations for hand held distance-meters and reflector-less instruments. Unfortunately due to a very heavy workload this has not advanced. Commission 5 follows ISO/TC 172 SC6 Work on Survey Instrument Standards, and ISO/TC 211 Geographic information/Geomatics.

Standards issues related to FIG Commission 6

Commission 6 is interested in the ISO TC 172 and the ISO 17123 series of standards related to survey instruments. There is interest in helping to define standards in deformation measurement and monitoring and data analysis. Other points of interest include machine guidance, land xml for 3D models, integrating BIMP model and machine guidance, exchange of data.

Standards issues related to FIG Commission 7

See remarks on *ISO 19152 on the Land Administration Domain Model (LADM)* above.

Standards issues related to FIG Commission 9

See remarks on the *International Measurement Standard of Property (IPMS)* above.

Summary

The broad spectrum of work in FIG shows that standards are important in the surveying profession. Standards work in FIG ranges from input on the very specific ISO/TC 172 SC6 Survey Instrument Standards; to liaison with the much broader ISO/TC 211 Geographic Information/Geomatics which impacts on virtually every aspect of the surveying profession; to the remarkable work of Commission 7 members to initiate, develop and publish ISO 19152:2012 Land Administration Domain Model (LADM); and the implication of Commission 9 in the IPM coalition with the aim to develop and implement International Property Measurement Standards.

The Standards Network is responsible for building and maintaining relations with the different standardisation bodies, proposing priorities on FIG's standardisation activities and ensuring information flow on standardisation to FIG members. One of the principal ways these goals are accomplished is through a Standards Network meeting held during FIG working weeks and Congresses. Each Commission sends a representative to the meeting to discuss their Commission's interest and requirements in standards.

During the Standards meeting held in Marrakesh it was remarked that the representatives of the different Member Associations, Affiliates, Corporate members and Academic members are directly concerned with the importance and impact of standards on the profession. They should be informed of the activities of the FIG Standards Network. They should also provide input on how standards impact on them and indeed what they would like to see accomplished in the Standards Network.

Recall the Kuala Lumpur FIG ***Standards Network meeting is scheduled for Wednesday 18 June 2014 11:30 to 13:00***. All those interested in the work of the Standards Network are cordially invited to attend.

Climate Change Task Force
Report to FIG XXV General Assembly

While individual members of the FIG have had a substantial involvement in climate change studies over a number of years, it was at the FIG General assembly in Sydney in 2010 that some of the explicit climate change impacts on small-island states were formally recognised. It was also recognised that within its membership, and by virtue of the diversity of expertise of the surveyor, the FIG had a substantial body of knowledge and experience that could be of assistance to the global community as it grappled with climate change issues. At that time the FIG resolved to establish a Climate Change Task Force that would report back to the 2014 General Assembly.

Since its formal establishment in 2011, the Climate Change Task Force has met at each of the subsequent Working Weeks. It has also conducted its business through email contact. The primary goals of the Task Force have been:

1. To identify those areas where surveyors can assist uniquely the international community to better understand the effects and impacts of climate change and can provide advice on how to mitigate and cope with the effects of climate change.
2. To assist FIG meet its MOU partnership commitments to the FAO, UN-Habitat, International Association of Geodesy, (IAG), and the World Bank with respect to climate change studies and initiatives.
3. To consider and comment, as appropriate to the skills of a surveyor, on the design and use of any global measuring, monitoring and management systems that might be used to identify and mitigate the effects of climate change.

In order to meet these goals, the Task Force produced an outline of the issues it felt should be included in the report and then allocated writing responsibilities to various members of the Task Force. In meeting these responsibilities, it has been greatly assisted by specific members of other FIG Commissions who have had overlapping technical interests. The Task Force has produced a comprehensive report entitled, "*The surveyor's contribution to monitoring, mitigating and adapting to climate change*". A complete draft version of this report has been presented to this Assembly. Subject to final critical comment and subsequent amendments it is anticipated that the report will be published later this year.

Emeritus Professor John Hannah
University of Otago
Task Force Chair

FIG Task Force on Property and Housing

Background

In many countries Surveyors are expected to identify land tools and good governance practices that will facilitate:

- secure access to land and property rights,
 - secure mortgage rights,
 - sustainable housing, housing rights and land market,
 - redevelopment and urban regeneration,
 - energy efficiency and green housing,
- within an unpredictable economic and social environment.

This is characterized by a:

- significant decrease in access to financing,
- immigration and unemployment,
- inner city decay,
- rural urban migration, shrinking of towns and villages,
- corruption and confusion in land and housing regulatory framework,
- increasing housing demand and informal settlements.

The Task Force will investigate challenges and major threats resulting from the current global financial crisis, and identify new role for the surveyor. It will develop awareness, vision and key strategies as well as to investigate tools and techniques around:

- institutional development,
- improvement of coordination of various stakeholders,
- adoption of effective policies,
- land tool development,
- technical tools to support the above

Members

Chair: Prof. Chryssy Potsiou, FIG Vice President
Members: Raymond Chan, Hong Kong SAR, China
Steven Nystrom, USA
Bozena Lipej, Slovenia
Winrich Voss, Germany
Junping Liao (Patrick), China P.R.
Collins Kowuor, Kenya

The list may be completed with 1-2 members representing different regions and expertise on this topic that relates among others to Commissions 3, 7, 8, 9 and 10

Output

1. Joint FIG/UN ECE WPLA peer reviewed publication on: “*Informal Development. Challenges and Solutions from South-East Europe*”. Ready to be published.
2. Contribution of the TF members to a peer reviewed book on: “*The Housing Markets of Southern Europe Facing the Crisis*”. To be published soon.
3. FIG publication on: “*Property and Housing. Planning for Affordable Housing: A New Role for the Land Surveyor*”. To be finalized by the end of 2014.

Progress Report (by June 2014)

- a. Task Force members have scheduled brief Workshops (focused Technical Sessions and meetings) during the FIG Working Weeks in Rome 2012, in Abuja 2013, in Kuala Lumpur 2014, and the Regional Conference in Montevideo). In addition, a joint FIG TF meeting with FIG Com3 was held in Athens 2012 and a second one was held in Skopje 2013. A TF meeting was also held in Istanbul during the INTERGEOEURASIA Conference where TF members presented focused papers on housing aspects. In general, invited speakers have provided information on relevant topics, such as country profiles on *housing policies, housing markets and the challenge of informal housing*, in all the above mentioned conferences and meetings. A final TF meeting will be scheduled during the Kuala Lumpur Conference in order to finalize the content of the coming FIG publication on “*Property and Housing. Planning for Affordable Housing: A New Role for the Land Surveyor*”.
- b. Countries in the greater ECE region are long working on Property and Housing aspects. Many have established denationalization, privatization, property restitution and property registration projects but at the same time most of them face the problem of informal housing due to a number of reasons that have been identified through a previous joint FIG / UN ECE Conference in 2007 in Greece; the output of that Conference has encouraged many of these countries to run legalization projects. Currently, there was a strong request expressed by the ECE member states that a follow up Conference should be organized to monitor the progress and to identify the remaining or new weaknesses, especially in the field of planning for affordable housing. During the UN ECE WPLA General Assembly in Geneva in June 2011 FIG TF chair (and members) and UN ECE WPLA bureau have agreed to organize a focused joint Conference on the topic: “*Informal Development, Property and Housing: Legalization and Progress*”, on the 10 – 14 December 2012. The Workshop was hosted by the Technical Chamber of Greece, Syntagma Square, Athens, Greece. FIG member Associations and distinguished delegates, members of the United Nations Economic Commission for Europe and its member states, the World Bank and other key stakeholders participated in this Conference hosted by FIG and the UN ECE WPLA. This Conference was of multiple value and interest, especially for the Balkan countries and Cyprus, who have presented their legalization projects. In addition,

According to the ECE state members' request, a joint FIG/ UN ECE publication on the topic has followed the Conference. The joint FIG/UN ECE publication on "Informal Development: Challenges and Solutions from South-East Europe" is a peer reviewed publication, based on in-depth research in Albania, Greece, Montenegro, Cyprus and the Former Yugoslavia Republic of Macedonia. This in-depth research was partially sponsored through the projects of the WB and the Statens Kartwerk in the region. The printing of this publication is partially sponsored by the Dutch Kadastre.

- c. Task Force members have contributed to a joint European research on "*The Housing Markets of Southern Europe Facing the Crisis*", held in Germany. The first output of that research is a peer reviewed book to be published soon.

REPORT OF THE INTERNATIONAL INSTITUTION FOR THE HISTORY
OF SURVEYING & MEASUREMENT (IIHSM)

2013-2014

The IIHS&M was last present at the ROMA FIG conference when it held a successful one-day symposium in the new premises of the Italian Association of Surveyors and were honoured by the presence of the FIG President.

Last year, in Nigeria neither Jim Smith nor I could attend due to health problems but John Brock was present and he reported that the Nigerian colleagues had prepared a book on the history of their profession, distributed during the IIHS&M symposium.

For the Kuala-Lumpur FIG-Conference, we have prepared a one-day symposium. While I write this report we have no confirmation where, when or how it will be organized although there a half a dozen good papers available including one on another project for possible World Heritage nomination.

From 6 to 10 July, 2014 our colleagues of Australia prepare a one week history conference on Norfolk Island, in the Pacific Ocean. John Brock has finalized an important and interesting set of papers on the history of our profession.

In 2012, Alan Wright and Jan De Graeve attended in Belarus the conference on the Struve Arc Meridian. They urged for renewed action on the extension of the Struve Arc project over Central Europe countries to Crete and Egypt, to join the 30th Meridian Arc. Jim Smith has researched all relevant documentation extending from the existing World Heritage Monument to South Africa, with assistance from Jan De Graeve for the part in former Belgian Congo and Uganda.

For the last two years progress has been un-necessarily stalled for unfortunate reasons but it is hoped to get the project moving again in 2014. The aim for an heritage monument spanning 105° of latitude is feasible and the basic research completed. It is now up to all the National Survey Organisations concerned to do their bits towards completing the submission to UNESCO.

Regrettably the original time scale for completion by 01.01.2015 is no longer feasible but 01.01.2016 could be possible.

We have to report the unexpected death of our colleague Alan Wright who assisted us for many years and who had in his early career been very active in Antarctica where his name is given to a peninsula on the coastline; near the Stonehouse Bay. For some 25 years Alan and colleagues had been seeking a permanent home for his large collection of EDM instruments – particularly Tellurometers. His death meant an unexpected crisis with the collection but we are able to report that we have been able to fulfill his long lifetime dream. Unfortunately no feasible British home could be found but we were successful with the Department Surveying and Geography, of the Gent University in Belgium, where it will be useful for the next generation of surveying students. The University is in the process of building a new Museum covering the various disciplines within its Departments. The collection will be called “The Wright- Draper Collection” after Alan and his colleague Malcolm Draper who supplied many of the instruments.

It is hoped to arrange an unveiling ceremony towards the end of 2014 when there happens to be an international cartographic conference at that University. Details will be announced in due course and all interested persons will be welcome.

We have previously mentioned that we were seeking a location for a Museum of Mapping in the UK but with the export of the Wright-Draper Collection that idea will now be shelved.

Forthcoming events

The surveying community will honour

2014 : Georg Wilhelm Frederich Struve.

2015 : Snellius or Willibrord Snell Van Royen.

2014 will also see the biennial Struve arc Management Committee conference in The Ukraine.

The Institution.

The IIHS&M was created officially in Melbourne 1994 but was already active since 1980 under Commission 0 or part of Commission 1.

With the loss in the last two years of Professor Mike Cooper, Helmut Minow and Alan Wright we are seeking new blood to join the committee. Any readers who are devotees of the history of our profession and who would be interested to join in the organization of our events and be willing to be active with new projects as they arise are asked to contact me directly at jan@degraeve-geo.eu

Our present officers are:

Jim Smith, honorary secretary who has attended the FIG conferences since 1968

David Wallis, honorary treasurer, who was well known in the Commonwealth Community of Surveyors for a similar period.

Jane Insley. Recently retired from a career as a Curator at the Science Museum in London.

John Brock. Meetings organiser

I attended my first FIG meeting in Montreux, in 1981 although I had already been to the Paris meeting of 1978 to organize an historic exhibition, with the original photos and documents of the first meeting of surveyors in 1878 in Paris.

Alan Wright, John Brock, Jim Smith and local associations in Germany, Austria, Holland, France, Hungary, USA and Australia and other individual colleagues have been active to keep the history of our profession alive in many parts of the world.

We will welcome colleagues who come and join the Board to go on and improve the services of I.I.H.S.&M. for the next 50 years. We call on the young surveyors to come and join us. You will enjoy it.

Jan De Graeve

Director IIHS&M



OFFICE INTERNATIONAL DU CADASTRE ET DU RÉGIME FONCIER
INTERNATIONAL OFFICE OF CADASTRE AND LAND RECORDS
INTERNATIONALES AMT FÜR KATASTER UND GRUNDBUCHWESEN

OICRF Annual Report 2013

OICRF - the International Office for Cadastre and Land Records - is one of the permanent bodies of the International Federation of Surveyors (FIG). OICRF serves as a documentation and study centre for land administration and is charged with the following tasks:

- collecting and systematically filing and indexing all documentation material relating to existing cadastres and land registration systems,
- conducting comparative studies of this material and publishing the results,
- providing information and advice on all cadastres and land registration systems to all interested persons and institutions for the purposes of study or to help countries wishing to set up a cadastre or land registration system or improve an existing system,
- maintaining the documentation system on a daily basis.

The digital Land Administration Library in 2013

OICRF maintains a digital library that contains 12.979 publications (December 31, 2013), which includes things such as conference documents, magazine articles and reports on land administration. OICRF contents are available in different languages. At the moment there are 173 publications in Dutch, 518 publications in French, 531 publications in German, 61 publications in Italian, 21 publications in Russian, 240 publications in Spanish and 11.435 publications in English. All of the available documents and the most recent publications can be accessed electronically at www.oicrf.org. In 2013 the digital library got about 15.122 visitors. About 12.213 papers have been downloaded. This number is based on the application of Google Analytics; visits from search engines are excluded in this.

During a Workshop on the Land Administration Domain Model, held in Kuala Lumpur, Malaysia, in September 2013 the idea was launched to provide OICRF a role in keeping overview in different types of land rights worldwide.

During the Global Land Tool Partners Meeting held in The Hague, The Netherlands, in November 2013 a co-operation with Land Portal has been discussed.

Contact

OICRF does its utmost to provide the best possible service for anyone who requests information. This is made possible by the support of our host: Cadastre, Land Registry and Mapping Agency of the Netherlands.

Dr ir Christiaan Lemmen
OICRF director

Ms Pauline van Elstrand
OICRF secretary

Comparative Studies in 2013

Hackman Antwi, R., Bennett, R.M., de Vries, W.T., Lemmen, C.H.J. and Meijer, C. (2013) The point cadastre requirement revisited. In: Survey review, 45 (2013)331 pp. 239-247

Koroso, N.H., van der Molen, P., Tuladhar, A.M. and Zevenbergen, J.A. (2013) Does the Chinese market for urban land use rights meet good governance principles? In: Land use policy, 30 (2013)1 pp. 417-426.

Lemmen, C.H.J. (2013) Crowdsourcing : a wake - up call for surveyors : GIM international interviews Wafula Nabutola, consultant - in - chief at MyRita Consultants and governor of the Kenya Private Sector Alliance (KEPSA). In: GIM International, 27 (2013)1 pp. 14-17.

Lemmen, C.H.J., van Oosterom, P.J.M., Uitermark, H.T. and de Zeeuw, K. (2013) Land administration domain model is an ISO standard now. In: proceedings of Annual World Bank Conference on Land and Poverty 2013, 8-11 April 2013, Washington DC, United States of America. 20 p.

Bennett, R.M., van Gils, H.A.M.J., Zevenbergen, J.A., Lemmen, C.H.J. and Wallace, J. (2013) Continuing to bridge the cadastral divide. In: proceedings of Annual World Bank Conference on Land and Poverty 2013, 8-11 April 2013, Washington DC, United States of America. 22 p.

De Zeeuw, K., Lemmen, C.H.J. and Barnasconi, G. (2013) Land administration products, business models and commodities as spin - off . In: proceedings of Annual World Bank Conference on Land and Poverty 2013, 8-11 April 2013, Washington DC, United States of America. 15 p.

Lemmen, C.H.J., van Oosterom, P.J.M. and van der Molen, P. (2013) Land administration domain model impact on implementation of international policies. In: GIM International, 27 (2013)5 pp. 18-23.

Hespanha, J.P., Ghawana, T., Lemmen, C.H.J. and Zevenbergen, J.A. (2013) Can LADM contribute to a more fair large scale land acquisition?. In: Proceedings of FIG working week 2013, Abuja, Nigeria, 6-10 May 2013 - Environment for Sustainability. Copenhagen: FIG, 2013. ISBN: 978-87-92853-05-9. 19 p.

Paasch, J., van Oosterom, P.J.M., Paulsson, J. and Lemmen, C.H.J. (2013) Specialization of the Land Administration Domain Model (LADM) - An Option for Expanding the Legal Profiles. In: Proceedings of FIG working week 2013, Abuja, Nigeria, 6-10 May 2013 - Environment for Sustainability. Copenhagen: FIG, 2013. ISBN: 978-87-92853-05-9. 17 p.

Todorovski, D., Zevenbergen, J.A., van der Molen, P. and Groenendijk, E.M.C. (2013) Post - conflict land administration and its current status as facilitator of the post - conflict state building : case Mozambique. In: Proceedings of FIG working week 2013, Abuja, Nigeria, 6-10 May 2013 - Environment for Sustainability. Copenhagen: FIG, 2013. ISBN: 978-87-92853-05-9. 11 p.

Van Oosterom, P.J.M., Lemmen, C.H.J. and Uitermark, H.T. (2013) ISO 19152:2012 : Land Administration Domain Model published by ISO. In: Proceedings of FIG working week 2013, Abuja, Nigeria, 6-10 May 2013 - Environment for Sustainability. Copenhagen: FIG, 2013. ISBN: 978-87-92853-05-9. 22 p.

van der Molen, P. (2013) How land administration can contribute to food security. In: Proceedings of FIG working week 2013, Abuja, Nigeria, 6-10 May 2013 - Environment for Sustainability. Copenhagen: FIG, 2013. ISBN: 978-87-92853-05-9. 15 p.

Lemmen, C.H.J., van der Molen, P. and van Oosterom, P.J.M. (2013) Levelling the playing field. In: Land Journal, (2013)May/June, pp. 8-9.

Lemmen, C.H.J., van Oosterom, P.J.M. and van der Molen P. (2013) Land Administration Domain Model - Standards for new approaches In: Geospatial World, June 2013, pp. 53-55

McDougall, K., Bennett, R.M. and van der Molen, P. (2013) The global cadastre : improving transparency in international property markets. In: GIM International, 27 (2013)7 pp. 30-34.

McLaren, R., Bennett, R.M. and Lemmen, C.H.J. (2013) World Bank conference on land and poverty 2013. In: GIM International, 27 (2013)7 pp. 38-39.

Van Oosterom, P. (editor) , Lemmen, C.H.J. (editor) and Fendel, E. (editor) (2013) Proceedings of the 5th Land administration domain model workshop, 24-25 September 2013, Kuala Lumpur, Malaysia : also as e-book. Copenhagen, International Federation of Surveyors (FIG), 2013. ISBN: 978-87-92853-06-6.

Lemmen, C.H.J. and van Oosterom, P. (2013) The land administration domain model standard. In: Proceedings of the 5th Land Administration Domain Model workshop, 24-25 September 2013, Kuala Lumpur, Malaysia. pp. 11-30.

Koers, J., Cerrato Espinal, R. and Lemmen, C.H.J. (2013) SIGIT : an information system for integral approach of land management : an LADM implementation in Honduras and Guatemala. In: Proceedings of the 5th Land Administration Domain Model workshop, 24-25 September 2013, Kuala Lumpur, Malaysia. pp. 405-418.

Paasch, J., van Oosterom, P., Lemmen, C.H.J. and Paulsson, J. (2013) Specialization of the LADM modelling of non - formal RRR. In: Proceedings of the 5th Land Administration Domain Model workshop, 24-25 September 2013, Kuala Lumpur, Malaysia. pp. 153-172.

Sengupta, A., Bandyopadhyay, D., Lemmen, C.H.J. and van der Veen, A. (2013) Potential use of LADM in cadastral data management in India. In: Proceedings of the 5th Land Administration Domain Model workshop, 24-25 September 2013, Kuala Lumpur, Malaysia. pp. 311-328.

Teo, C. and Lemmen, C.H.J. (2013) The LADM and the continuum of land rights. In: Proceedings of the 5th Land Administration Domain Model workshop, 24-25 September 2013, Kuala Lumpur, Malaysia. pp. 1-10.

Yuefei Zhuo, Ma, Z., Lemmen, C.H.J. and Bennett, R.M. (2013) Integration of land and housing information in China : first analysis of legal requirements for LADM compliance. In: Proceedings of the 5th Land Administration Domain Model workshop, 24-25 September 2013, Kuala Lumpur, Malaysia. pp. 53-70.

Van der Molen, P. (2013) How to stop land grabbing in Africa. In: GIM International, 27 (2013)11 pp. 6.

Lemmen, C.H.J. (2013) A Paradigm Shift: GIM international interviews Clarissa Augustinus (GLTN/UN Habitat) and Teo CheeHai (FIG). In: GIM International, 27(2013)12 pp 12 -15

Lemmen, C.H.J., van Oosterom, P.J.M. and van der Molen P. (2013) A Domain Standard for Land Administration In: Annual Report 2012 Nederlandse Commissie voor Geodesie, KNAW-NCG, 2013, pp. 25-40

Lemmen, CHJ, Thompson, RJ & Oosterom, PJM van (2013). ISO 19152:2012. Land administration domain model, an international standard integrating 2D and 3D representations. Geoinformatics, 16(8), 15-16.

Van der Molen, P. (2013) Property and administration : comparative observations on property rights and spatial planning with some cases from The Netherlands. In: Administration & Society, (2013) IN PRESS, 27 p

**Report to the 37th General Assembly
FIG Congress, Kuala Lumpur, June 2014**

**FIG Foundation
Report of Activities 2013**



The FIG Foundation

1. Administration

The FIG Foundation is located in and administered by the FIG Office in Copenhagen.

A Board of Directors chaired by the President of the FIG Foundation makes the decisions of the Foundation.

The Board of Directors for 2013 was as follows:

- John Hohol, President of the FIG Foundation (USA)
- Prof. Michael Barry, Director (Canada)
- Prof. Steve Frank, Director (USA)
- Prof. Chryssy Potsiou, Director (Greece)
- Prof. Paul van der Molen, Director (Netherlands)

2. Programmes with Corporate Members

FIG Foundation Partners

- Charter Foundation Partner Trimble Navigation continues to support the FIG Foundation by sponsorship of the FIG Foundation Dinner since 2010 and providing other support directly through the Foundation.

3. Meetings 2013

The board held its official meeting in Abuja, Nigeria during the 2013 Working Week. Furthermore the board has been in frequent contact through email.

At the meeting in Abuja the board expressed sincere thanks to Keith Hofgartner representing FIG Platinum Corporate Member Trimble Navigation for generous continued support of the foundation including sponsorship of the FIG Foundation Dinner.

At the meeting Young Surveyors were represented by Chair Kate Fairlie and Chair Elect Eva-Maria Unger, who thanked FIG Foundation for the cooperation throughout the last years.

4. Grants 2013

In 2012 the FIG Foundation decided on two initiatives: the first being FIG Foundation Academic Research Grants which will provide for research grants of up to 20,000 euros

spread over two years; the second initiative is the FIG Foundation PhD Scholarships which will provide scholarships of up to 4,000 euros to PhD students. In 2013 it was decided to re-announce the grants. Deadline for sending application was extended to 31 March 2014 for the Academic Research Grants and 1 February 2014 for the PhD Scholarships.

In 2013 the FIG Foundation awarded five Young Surveyors Conference Fellowships to provide funding for young surveyors from developing countries to cover the costs to attend and participate in the the FIG Working Week in Abuja. These were awarded to:

- Thandinkosi Gracious Dewah (Zimbabwe),
- Bosiu Edward Lefulebe (Lesotho),
- Method Julius Gwaleba (Tanzania),
- Eva-Maria Unger (Austria)
- Mkondo Mayo (Malawi) - who unfortunately was not able to participate

The supported Young Surveyors also attended the FIG-UN-Habitat/GLTN Train the Trainers Workshop on Social Tenure Domain Model (STDM) that was held just prior the FIG Working Week. The STDM Train the Trainers Workshop had a special focus on Africa.

The FIG Foundation also provided funding to support young surveyors to attend the FIG Pacific Small Island Developing States Symposium (Suva, Fiji). This initiative was initiated together with FAO and FIG Foundation made it possible for Eva-Maria Unger to attend the meeting.

Furthermore, FIG Foundation also provided funding to support participation of the FIG Young Surveyors Network by Eva-Maria Unger to the International Symposium and Exhibition on Geoinformation- ISG 2013 (Kuala Lumpur, Malaysia), the CLGE General Assembly Meeting (Chisinau, Moldova). As a new initiative the European Young Surveyors held the 1st FIG Young Surveyors European Meeting in Lisbon, Portugal and FIG Foundation decided to support this conference. 11 participants were granted a scholarship equally shared between FIG Foundation and CLGE and the 11 participants were selected by Young Surveyors:

- Alicia Cañizares (Spain)
- Vlad Sorta (Romania)
- Diana Becirevic (Republic of Croatia)
- Jakov Maganić (Bosnia and Herzegovina)
- Maria Skiada (Greece)
- Goran Markovic (Republic of Serbia)
- Michail Elaiopoulos (Greece)
- Olga Bjelotomic (Republic of Croatia)
- Veljko Latinovic (Republic of Serbia)

The FIG Foundation Board of Directors decided to provide 5,000 EUR in support of the 2013 International Training Course in Topography for Young Surveyors. The FIG Foundation Board of Directors agreed to provide a grant of 500 EUR in support of the International Geodetic Students Meeting however no formal reply has been received thus the grant was not given.

Altogether 21,981EUR was spent in 2013.

5. Donations in 2013

Abuja, Nigeria:	EUR
Voluntary donations	1,032.00
Foundation Dinner and registration fee	32,272.00
Total	33,405.00

Other donations

Interest	
Interest 2013	1,8635.00
Income FIG Foundation 2013	35,167.00

The voluntary donations from the FIG Working Week in Abuja were as follows:

Nigerian participants have per tradition been regular and large donors for FIG Foundation at FIG Conferences. However the registration for the Working Week 2013 took place through the national website. Hence there has been no donation to FIG Foundation from Nigerian participants through the international registration where donations are specifically included in the registration form. Instead it was decided to announce that participants could give donations to the FIG Foundation on site. Donations over 100 USD was rewarded with a certificate specially designed for the FIG Working Week 2013:

- Bronze certificate to donations of 100+ USD
- Silver certificate to donations of 250+ USD
- Gold certificate to donations of 500+ USD

Two Bronze certificates and three Silver certificates were in total to five persons.

FIG Foundation bronze certificate - Enjugu Ahijah Auzu, Nigeria	95,00 \$
FIG Foundation bronze certificate - Cecilia Lami Ayeni, Nigeria	100,00 \$
FIG Foundation silver certificate - Prof. Peter O. Adeniyi, Nigeria	250,00 \$
FIG Foundation silver certificate - Surv. James O. Onwukwe	250,00 \$
FIG Foundation silver certificate 310 AUD - John Brock Australia	286,87 \$
1500 N (9,25 USD) - Malango Nebwe, Marie-Reine, Congo - received in Niara	
Total	981,87 \$

International voluntary donations at FIG Working Week in Abuja, Nigeria:

Name	Country	Donation EUR
Robert Sinkner	Czech Republic	55
Leonie Newnham	Australia	50
Stephen Djaba	Ghana	50
John Brock	Australia	50
Paul van der Molen	Netherlands	25

Suzanne Valkman	Netherlands	25
Co Meijer	Netherlands	25
Christiaan Lemmen	Netherlands	25
Henning Elmstrøm	Denmark	25
Dirk Kowalewski	Germany	1
		331 EUR

6. Grants 2014

In 2013 the FIG Foundation research grants were announced for the second time. At the first announcement in 2012 FIG received 8 applications of which two continued to a second round. FIG Foundation Board decided not to grant any of the two with the FIG Foundation Academic Research Grant but to re-publish the call for grants for a new round for 2014. Deadline for application was postponed to 31 March 2014. Again the research grants will be provided of up to 20,000 euros spread over two years and the conditions are that applicants shall be based in a surveying/geomatics academic programme that teaches surveying in a country listed by the World Bank as a low-income, lower-middle or upper-middle income economy.

The PhD grant was also postponed and was published in 2013 with the deadline 1 February 2014. Scholarships will be provided of up to 4,000 euros to PhD students. Conditions are that applicants shall be studying for a PhD degree and registered solely in a surveying/geomatics academic programme that teaches surveying in a country listed by the World Bank as a low-income, lower-middle or upper-middle income economy.

It was furthermore decided that for the FIG Congress 2014 in Kuala Lumpur, Malaysia there will be 6 FIG Foundation Fellowships to young surveyors, one from each of six continental regions. There are no country income restrictions for these applicants. Applicants must submit a paper for the selection process. In addition there will be 2 FIG Foundation Fellowships provided exclusively for young surveyors from developing countries. The fellowships will be similar to those awarded in Rome that all expenses to attend the 2014 FIG Congress and FIG Young Surveyors Conference will be covered: airfare, accommodations, visa (if required), registration fee, meals, FIG Foundation Dinner, Gala Dinner, daily per diem allowance for incidental items. The applications are to be screened first by the FIG Foundation Board of Directors and then shared with the IG Young Surveyors Network (Kate Fairlie and Eva-Maria Unger) to select recipients of fellowships.

The FIG Foundation Board of Directors is evaluating, in cooperation with FIG Platinum Corporate Member Trimble Navigation, supporting the recovery and reestablishment of key points marking the Arc of the 30th Meridian.

7. Accounts 2013

The income statement for 2013 and the balance sheet at 31 December 2013 are attached to this report.

The total income in 2013 was € 35,167 and expenses € 21,981 which gives the net result of € 13,186.

The total assets are € 229,377.

The FIG Foundation would like to sincerely thank all those who have generously donated in 2013 in support of the FIG Foundation.

John Hohol

President of the FIG Foundation

April 2014

Web page: www.fig.net/figfoundation

Income Statement for 1 January - 31 December 2013 for the FIG Foundation

	<u>2013</u>	<u>2012</u>
	<i>EURO</i>	<i>EURO</i>
Donations		
Personal donations.....	1.032	5.976
Other donations.....	7.272	4.211
FIG Conferences.....	25.000	17.220
Financial income.....	<u>1.863</u>	<u>3.885</u>
Total Income	35.167	31.292
Expenses		
Grants.....	<u>(21.981)</u>	<u>(26.417)</u>
Total Expenses	(21.981)	(26.417)
Final Result (Deficit)	<u><u>13.186</u></u>	<u><u>4.875</u></u>

Balance Sheet at 31 December 2013 for The FIG Foundation

	<u>2013</u>	<u>2012</u>
	<i>EURO</i>	<i>EURO</i>
<u>Assets</u>		
Current assets:		
Receivables:		
Account receivable, FIG.....	222.758	209.479
Other receivables.....	1.156	1.156
Cash at hand and bankaccounts.....	5.463	5.556
Total current assets	229.377	216.191
Total assets	229.377	216.191
<u>Equity and liabilities</u>		
Equity:		
Equity at the beginning of the year.....	215.191	210.316
Retained earnings.....	13.186	4.875
Total equity	228.377	215.191
Liabilities:		
Other debt.....	1.000	1.000
Total liabilities	1.000	1.000
Total equity and liabilities	229.377	216.191

Athens, February 12, 2014
 Ref.No.: 5117, 12/02/14

To: FIG Office

International Federation of Surveyors, FIG
 Kalvebod Brygge 31-33
 DK-1780 Copenhagen V
 DENMARK
 e-mail: louise.friis-hansen@fig.net

Letter of Support

Dear FIG Office Director,

The TCG represents the total of University graduated engineers of Greece and one of its major roles is to act as the technical advisory organization of the Hellenic State.

The TCG has been an FIG member Association for 45 years. Through all this period, even during difficult economic times, the TCG has actively and consistently supported all FIG activities. The TCG has appointed a considerable number of delegates, organized workshops, hosted the WW 2004, organized joint UN/FIG conferences, supported the compilation of international research and publications in the field of land administration and land management and has shared knowledge and experience with FIG member associations.

Through this activity Greece, the TCG, and the Greek surveyors have improved their international recognition, networking and influence and they have developed international synergies and relations of trust; fundamental elements that are absolutely necessary for the sustainability of our professionals in the global environment.

Our association puts great value on international cooperation, experience and knowledge sharing in all fields of surveying and land management which is especially important for Greece.

Dr Potsiou is a member of our Association and she has worked successfully and consistently for the establishment of a closer cooperation among the TCG and the international community of surveyors, the FIG member associations and their delegates and the UN agencies, since 1995 in various positions in FIG and UNECE. Having served the international community with ethos, self-sacrifice and respect she has gained the trust of her international colleagues by having been elected in various important positions so far. Therefore we believe that Prof Chryssy Potsiou is exceptionally well qualified to this new position.

During her involvement the TCG has provided all kinds of support, administrative, scientific, financial, etc, to the profession and to the other members of FIG. By example we mention that during the last 12 years the TCG and Prof Potsiou have contributed in the organization of 5 focused international workshops in Greece and

another 5 focused international workshops in other countries, initiated and coordinated innovative research and have contributed in the compilation of valuable publications. Prof Potsiou also initiated a peer review process to review papers submitted at FIG Conferences.

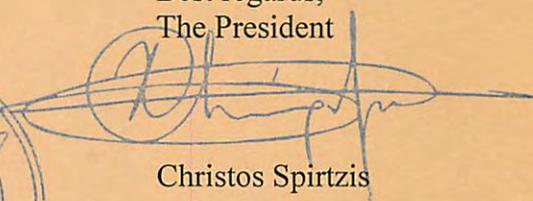
We believe that Prof Potsiou will continue to serve the surveyors' international community as actively as FIG President and she will continue to have our support.

TCG also provided administrative support by appointing one of its members to serve as vice chair of administration during the term of Prof Potsiou as chair of FIG Commission 3.

The Technical Chamber of Greece will be equally honored if its member Prof Chryssy Potsiou is elected and I can assure you that she will continue to have equal financial and professional support of the TCG.

I have been assured that Prof Potsiou will serve the full 4 year term and that her employer, the NTUA, will support her activities during her term of service. Full administrative support will be provided to Prof Chryssy Potsiou from the School of Rural and Surveying Engineers of NTUA. Please see the letters of support.

Best regards,
The President

Christos Spirtzis



**Nomination Template
President
(2015-2018)**

Nominee: CHRYSY POTSIOU	
Name:	CHRYSY POTSIOU
Member Association:	TECHNICAL CHAMBER OF GREECE (TCG)
Country:	Greece
Contact address:	Lab of Photogrammetry, School of Rural and Surveying Engineers National Technical University of Athens (NTUA), Zografos Technical University Campus, 9 Iroon Polytechniou st, 15780 Athens, Greece
Email address:	chryssy.potsiou@gmail.com , chryssyp@survey.ntua.gr tel: +30 210 7722688, fax: +30 210 7213970, +30 210 7722677
Age:	55 years old.
Educational background & Qualifications:	June 1976 She graduated from Arsakeio Psychikou (High School) http://www.arsakeio.gr/en/ . She received scholarship for her rates. March 1982 She graduated from the School of Rural and Surveying Engineers of NTUA, Greece. http://www.survey.ntua.gr/en She received scholarship for her undergraduate studies at NTUA. June 1995 She completed her PhD in Cadastre and Spatial Information Management, at NTUA. She received scholarship for her post graduate studies at NTUA. http://www.ntua.gr/index_en.html 2006 She attended professional education courses at the Centre for Real Estate of the MIT (Massachusetts Institute of Technology) http://mitcre.mit.edu/ on: <i>Real Estate Finance, Real Estate Markets, and Commercial Real Estate Development.</i>
Field of surveying discipline	Land Management, Land Administration, Property Valuation
History of Employment: - Current position	2013 Associate Professor NTUA, Greece



Nomination Template President (2015-2018)

- Previous position(s)	2010 - 2013	Assistant Professor (in a permanent position) at the NTUA, in the field of Cadastre, Land Management, Property Valuation and Spatial Information Management.
	2005 - 2010	Lecturer (in a permanent position) at the National Technical University of Athens, School of Rural and Surveying Engineering, teaching Cadastre and Land Management and Real Estate Valuation.
	1993 - 2005	Special Research and Teaching Scientist at the Lab of Photogrammetry, Topography Division, School for Rural and Surveying Engineering, NTUA (in a permanent position).
	1982 - 1993	Registered private practitioner, in the Ministry of Environment, Spatial Planning and Public Works' register, in several projects in the domains of Topography and Spatial Planning / Urban Regeneration studies.
	Parallel professional activity	
	2007 -today	Independent expert in the greater European region, in the field of land management.
	1998 - 2001	Management advisor for international, educational and technical issues at the KTIMATOLOGIO S.A., agency responsible for the implementation of the Hellenic Cadastre.
1982-2014	Private projects (in the fields of cultural heritage documentation, photogrammetry, cadastre, urban planning/ urban regeneration, boundary disputes resolution, etc)	
-		



Nomination Template President (2015-2018)

Nominee:	
Position of Trust: - Current position(s)	2013-2015 Elected Bureau member of the UN/ECE Working Party on Land Administration (WPLA) 1999-2014 Delegate of TCG in FIG General Assembly Member of several academic committees: - Committee for international cooperation of NTUA - Member of the Board of Directors of the Technological Park of Lavrio, Attika, Greece - Member of TCG committees for Cadastre and Land Management - Cooperation with the Ministry of Environment, Energy & Climate Change of Greece for the formalization of informal development
- Previous position(s)	In Greece: 2009 - 2013 Member of the Board of Directors at KTIMATOLOGIO S.A., agency responsible for the implementation of the Hellenic Cadastre. http://www.ktimatologio.gr/aboutus/Documents/Pages/19/qoQhyNCvtozm6ajS/PALAIOTERA%20DS%20.pdf (appointed through a qualification based procedure) 2009 - 2010 Member of the board of directors at HEMCO, Hellenic Mapping and Cartographic Organization, 2009-2010. (appointed through a qualification based procedure) 2002-2010 Elected council member of the Hellenic Society for Geographic Information Systems- HellasGIs 1992-2009 Elected council member of the Hellenic Society for Photogrammetry and Remote Sensing –HSPRS 2006-2014 Elected member in the General Assembly of Professors of the SRSE of NTUA Internationally: 2001-2013. Elected Bureau member of the UN/ECE Working Party on Land Administration (WPLA) 2011 She was honoured to become honorary member of the Albanian Association of Geodesy.
FIG Positions/Responsibilities: - Current position(s)/ responsibilities	2011 - 2014 Vice President of FIG. Responsible for the organization of workshops and seminars for Ys in FIG. Council representative for chairing the FIG Academic Forum, and for the FIG Foundation activities, and Chair of the FIG Task Force on Property and Housing.



Nomination Template President (2015-2018)

<p>- Previous position(s)/ responsibilities</p>	<ul style="list-style-type: none"> - Responsible for coordinating innovative research on the role of the surveyor in property markets and in provision of affordable housing. - Organization of joint workshops: in 2012 in Athens, Greece (joint with UNECE WPLA and FIG Commission 3) on “Informal Development, Property and Housing”, and in 2014 in Skopje, Former Yugoslavia Republic of Macedonia on “SDI”. - Active participation to all FIG Working Weeks and Regional Conference, by organizing invited special sessions. - Invited FIG representative in UNECE Committee on Housing and Land Management activities (Ministerial Meeting in Geneva, WPLA/WB Workshops, etc). - Invited FIG representative in several conferences in Europe, such as in Albania, Kosovo, Paris (2011), in Austria FIG Commission 7 workshop (2011), in Lyon (in 2013) on Land Consolidation, in Croatia on SDI (2013), and in EGoS meetings and workshops. - Invited expert to participate to a research project on “<i>the Housing Markets of Southern Europe in face of the crisis</i>” at Hochschule Zittau/Goerlitz. - Main author of a joint FIG/UNECE WPLA publication on Informal development in Southern Europe and Central Asia.
	<p>2007 - 2010 FIG Commission 3 chair. Organization of (4) annual workshops of Commission 3 (Sounio 2007, Valencia 2008, Mainz 2009, Sofia 2010) and several other WG meetings.</p> <p>Cooperation with UNECE.</p> <p>Introduction of an optional peer review procedure for the papers published in FIG Conferences and Congresses.</p> <p>Initiation of 2 international research studies on: (a) the current size, causes and type of informal development, and (b) the role of SIM in the management of megacities.</p> <p>The results of these studies are 3 FIG publications.</p> <p>2009- 2010 Elected ACCO representative at the FIG Council. Chief editor for the peer review procedure in FIG WW2009; cooperation of FIG with relevant committees of UN and the WB.</p> <p>2007- 2008 Elected ACCO representative at the FIG Council. Chief editor for the peer review procedure in FIG WW 2008</p> <p>2005 - 2006 Vice chair of Commission 3</p> <p>2003 - 2006 Chair of FIG Working Group 3.3 “Spatial</p>

Ch. P. P. P.



Nomination Template President (2015-2018)

	<p>Information Management – State of the Art” of Commission 3. Organization of a joint FIG Workshop of Commissions 3 and 7 of and UN/ECE Working Party on Land Administration in Cavouri, in 2003, aiming to initiate a research for the updating of the UN ECE WPLA «Guidelines for Land Administration» publication.</p> <p>Responsible for the Inter commission activity (Com3, Com5, Com7) on: “Low Cost Surveying Technology and Techniques for Developing Countries”.</p> <p>1999 - 2002 Chair of FIG Working Group 3.1 “Spatial Information Management – Technical Aspects” of Commission 3 “Spatial Information Management”. Organization of a FIG Workshop in Glyfada, Greece, October 2002.</p> <p>1995 - 1998 Member of the Working Group 7.1 of Commission 7 of FIG. Contribution to the FIG publication: «Cadastre 2004, A Vision for a Future Cadastral System», July 1998.</p> <p>1983-1994 Active participation in FIG Commission 3 and 7 Workshops, Conferences and Congresses</p>
<p>Other activities in FIG</p>	<p>Research activity which resulted in FIG/UN publications</p> <p>2011-2014</p> <ul style="list-style-type: none"> Compilation of in-depth research on informal development in Montenegro Compilation of in-depth research on informal development in Kyrgyzstan Compilation of in-depth research on informal development in Cyprus Update of the research (of 2009-2010) on informal development in Albania, Greece, FYROM, Georgia, Italy and Azerbaijan. <p><i>Main author of a joint FIG/UNECE WPLA publication which presents the results of the above mentioned in-depth research on informal housing in 9 countries (to be published).</i></p> <p>Participation to the European Network Exploring research into Geospatial Information Crowdsourcing (EU RTD framework program COST)</p> <p>Contributing author in the following FIG publications:</p> <p>2014 <i>Contribution to an FIG Commission 3 publication on</i></p>



Nomination Template President (2015-2018)

	<i>Crowdsourcing (to be published).</i>
2010	FIG publication 48. <i>Rapid Urbanization and Mega Cities: The Need for Spatial Information Management</i> . ISBN 978-87-90907-78-5, p 92. http://www.fig.net/pub/figpub/pub48/figpub48.pdf
2010	FIG/UNHABITAT/GLTN. Tools for Legal Integration and Provision of Environmental Improvements in Informal Settlements in Europe – A case study from Albania and Greece. Short version. http://www.fig.net/pub/others/un-habitat_informal_urban_dev.pdf
2010	FIG/UNHABITAT/GLTN. Tools for Legal Integration and Provision of Environmental Improvements in Informal Settlements in Europe – A case study from Albania and Greece. Full version. TCG.
2009	UNECE. Self-Made Cities – In search of sustainable solutions for informal settlements in the United Nations Economic Commissions for Europe region. <i>United Nations Economic Commission for Europe (UNECE), United Nations Publications</i> , ISBN 978-92-1-117005-4, Geneva, p. 113, http://www.unece.org/publications/oes/SelfMadeCities.pdf
2008	Active contribution to the FIG/UNHABITAT Seminar for informal development in the countries in transition and to the <i>FIG publication N 44</i> . Guest editor for the special issues of the following scientific journals that have published selected FIG peer reviewed papers
2013	South-Eastern European Journal of Earth Observation and Geomatics, vol. 2, No 2S (2013): Land and Information Management in South Eastern Europe, p. 1.
2012	South-Eastern European Journal of Earth Observation and Geomatics, vol. 1, No 2s (2012): Land and Information Management in South Eastern Europe, p. 1.
2009	Nordic Journal of Surveying and Real Estate Research, vol. 4(2009) Special Series, pp. 6-8.
2008	Surveying and Land Information Sciences (SaLIS), vol. 68(2), June 2008, pp. 63-64.
2008	Technika Chronika, Scientific Journal of the TCG, vol 28 (2-3)
	Other activities



Nomination Template President (2015-2018)

	<p>She published more than 120 papers mostly in FIG and UN conferences and other surveying scientific journals.</p> <p>She served as General Secretary of the LOC for the organization of the Athens WW 2004.</p> <p>She organized a series of FIG workshops and served as reviewer.</p>
Nominee's statement	
My motivation to be FIG President:	<p>Through my long voluntary participation in FIG, in various roles and at all levels of administration, I have gained valuable experience about the structure, activities, needs and visions of the Federation. I am encouraged by the achieved results of this successful cooperation with a large number of countries, FIG member Associations, national delegates, international experts and sister organizations. I have enjoyed my international colleagues' trust in coordinating activities and delivering work and through this new role I wish to continue and broaden this cooperation with all member associations so that we will better understand and contribute to the countries' needs by developing the profession accordingly.</p> <p>I am also motivated and encouraged by my Greek colleagues and my association, my university and my students, who also value FIG, and seek for developing international synergies in order to improve the role of the surveyor in the local societies and speed up progress and growth where needed.</p>
My vision for FIG and in support of FIG's aims and objectives:	<p>Since my graduation I practice the profession experiencing the challenges of my region at first hand. I have been lucky to participate to FIG since 1983. The more I am involved, the more I realize how much more we surveyors may offer to the people.</p> <p>I also participate to other relevant organizations like the UN and the World Bank contributing to their activities. <i>Increasing involvement of our members, merging activities, identifying the urgent needs and improving our deliverables have become my vision.</i></p> <p>For the future, I wish to offer my commitment to work on behalf of the Federation, to facilitate the contribution and the active participation of all our members in supporting local, regional and global issues.</p>
My key skills for the Presidency:	<p>My key skills include energy and enthusiasm for volunteer work; commitment to the goals and objectives of FIG; commitment to work cooperatively in the international environment with professionals from various cultures, age and backgrounds and to</p>



Nomination Template
President
(2015-2018)

	highly respect their experience and wisdom; and a keen understanding of the importance of technology development as well as of land management, planning, cadastre, property market and economic aspects to our profession. I consider one of my key skills to be able to communicate well with other professionals and young surveyors.
Any other supporting information:	I have enjoyed the full support of my association and my university for my activities in FIG in the past and I have the assurance of their support for my future participation in the Federation. Please see the relevant letters of support.
Nominator	
Name of Member Association:	Technical Chamber of Greece TCG
Name of Proposer:	Christos Spirtzis
Position in Association	President
Contact address:	Technical Chamber of Greece 4 Nikis st 102 48 Athens Tel 0030-210-3291733-5, Fax: 0030-210- 3222504
Email address	gramproedrou@central.tee.gr
Proposer's Statement	
Why the Association wants to propose the Nominee	<p>The TCG represents the total of University graduated engineers of Greece and one of its major roles is to act as the technical advisory organization of the Hellenic State.</p> <p>The TCG has been an FIG member Association for 45 years. Through all this period, even during difficult economic times, the TCG has actively and consistently supported all FIG activities. The TCG has appointed a considerable number of delegates, organized workshops, hosted the WW 2004, organized joint UN/FIG conferences, supported the compilation of international research and publications in the field of land administration and land management and has shared knowledge and experience with FIG member associations.</p> <p>Through this activity Greece, the TCG, and the Greek surveyors have improved their international recognition, networking and</p>



Nomination Template President (2015-2018)

	<p>influence and they have developed international synergies and relations of trust; fundamental elements that are absolutely necessary for the sustainability of our professionals in the global environment.</p> <p>Our association puts great value on international cooperation, experience and knowledge sharing in all fields of surveying and land management which is especially important for Greece.</p> <p>Dr Potsiou is a member of our Association and she has worked successfully and consistently for the establishment of a closer cooperation among the TCG and the international community of surveyors, the FIG member associations and their delegates and the UN agencies, since 1995 in various positions in FIG and UNECE. Having served the international community with ethos, self-sacrifice and respect she has gained the trust of her international colleagues by having been elected in various important positions so far. Therefore we believe that Prof Chryssy Potsiou is exceptionally well qualified to this new position.</p> <p>During her involvement the TCG has provided all kinds of support, administrative, scientific, financial, etc, to the profession and to the other members of FIG. By example we mention that during the last 12 years the TCG and Prof Potsiou have contributed in the organization of 5 focused international workshops in Greece and another 5 focused international workshops in other countries, initiated and coordinated innovative research and have contributed in the compilation of valuable publications. Prof Potsiou also initiated a peer review process to review papers submitted at FIG Conferences.</p> <p>We believe that Prof Potsiou will continue to serve the surveyors' international community as actively as FIG President and she will continue to have our support.</p>
<p>What support (financial, administrative and others) the Association is providing to the Nominee if elected President</p>	<p>TCG also provided administrative support by appointing one of its members to serve as vice chair of administration during the term of Prof Potsiou as chair of FIG Commission 3.</p> <p>The Technical Chamber of Greece will be equally honored if its member Prof Chryssy Potsiou is elected and I can assure you that she will continue to have equal financial and professional support of the TCG.</p>
<p>Any other supporting information:</p>	<p>I have been assured that Prof Potsiou will serve the full 4 year term and that her employer, the NTUA, will support her activities during her term of service. Full administrative support will be provided to Prof Chryssy Potsiou from the School of Rural and</p>



Nomination Template President (2015-2018)

	Surveying Engineers of NTUA. See attached letters of support.
Name of Seconder:	Chronis Akritidis
Position in Association	V. President of TCG
Contact address:	
Email address	cakritis@namanet.gr

Signed I hereby certify the above is true and correct	
Nominee	
Proposer:	
Seconder:	
Date:	11-02-2014



* Nominee is requested to initial every page of the nomination template

Clarifying Notes:	<ul style="list-style-type: none">• The Nominator (Proposer and Seconder) must be principal officers of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)• The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association• Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office• Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives
-------------------	--



Nomination Template President (2015-2018)

	<ul style="list-style-type: none">• Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement
--	--

A handwritten signature in blue ink, appearing to read 'C. P. O'Brien', is located in the bottom right area of the page.



HELLENIC REPUBLIC
NATIONAL TECHNICAL UNIVERSITY OF ATHENS
SCHOOL OF RURAL AND SURVEYING ENGINEERING

Athens, 14.02.2014

To:

Mrs. Louise Friis-Hansen,
Manager of FIG Office
International Federation of Surveyors
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
DENMARK

E-mail: louise.friis-hansen@fig.net

Subject: Letter of Support to Prof Chryssy A Potsiou,
Candidate for the position of FIG President

Dear Ms Hansen,

With this letter I would like to declare the support of the School of Rural and Surveying Engineers for Dr Chryssy Potsiou, Associate Professor at NTUA, candidate for the position of FIG President, following the nomination documents submitted to FIG Office by the Technical Chamber of Greece on February 12, 2014.

With her work in the field of Cadastre and Land Management and her international recognition she has gained the respect of her colleagues. It is the first time in FIG history that a TCG delegate and NTUA staff member is elected as FIG Vice President and we believe that after her long contribution to FIG and UN activities and her successful term as FIG Vice President she is exceptionally well qualified to this new position and she deserves our support.

If she will be elected to this new position the School of Rural and Surveying Engineers of NTUA will provide all the necessary support toward a successful 4 year term.



The Dean of the School,

Professor Angelos Siolas



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΕΘΝΙΚΟ ΜΕΤΣΟΒΙΟ ΠΟΛΥΤΕΧΝΕΙΟ
ΣΧΟΛΗ ΑΓΡΟΝΟΜΩΝ ΚΑΙ ΤΟΠΟΓΡΑΦΩΝ ΜΗΧΑΝΙΚΩΝ

24.1.2014

Προς: την Αντιπρύτανη ΕΜΠ

Καθ. Α. Μοροπούλου

Θέμα: Συμμετοχή του ΤΕΕ στη Διεθνή Ομοσπονδία Τοπογράφων

Αγαπητή Κυρία Αντιπρύτανη,

Θα ήθελα να σας ενημερώσω σχετικά με την ελληνική συμμετοχή στην Διεθνή Ομοσπονδία Τοπογράφων (F.I.G.).

Η Σχολή Αγρονόμων Τοπογράφων Μηχανικών του Ε.Μ.Π. είναι ακαδημαϊκό μέλος της F.I.G. και το Τεχνικό Επιμελητήριο Ελλάδος είναι τακτικό μέλος της επί 45 χρόνια. Το μέλος ΔΕΠ της Σχολής ΑΤΜ, κα Χρυσή Πότσιου, καθώς και πολλά άλλα διακεκριμένα μέλη της Σχολής συμμετέχουν στις επιστημονικές επιτροπές και τα Συνέδρια της Διεθνούς Ομοσπονδίας, έχοντας συνάψει ειδικότερες επικοινωνητικές συνεργασίες.

Είναι προφανές ότι τόσο το Εθνικό Μετσόβιο Πολυτεχνείο και η Σχολή Αγρονόμων Τοπογράφων Μηχανικών, όσο και ο Πανελλήνιος Σύλλογος Διπλωματούχων Αγρονόμων και Τοπογράφων Μηχανικών θα ωφεληθούν πολλαπλώς από τη συμμετοχή της χώρας στην F.I.G.

Θα ήθελα να τονίσω την ανεπιφύλακτη υποστήριξη της Σχολής Αγρονόμων Τοπογράφων Μηχανικών στην παραμονή του Τ.Ε.Ε. ως μέλους της Διεθνούς Ομοσπονδίας Τοπογράφων, και ειδικότερα την υποψηφιότητα της κας Χρυσής Πότσιου, Αναπληρώτριας Καθηγήτριας της Σχολής Αγρονόμων Τοπογράφων Ε.Μ.Π., για τη θέση του Προέδρου της Διεθνούς Ομοσπονδίας Τοπογράφων, δεδομένου ότι η κα Πότσιου έχει εκλεγεί έως τώρα σε σημαντικές θέσεις στην F.I.G., κρίνοντας ότι έχει πλέον την ωριμότητα να είναι υποψήφια για τη θέση του Προέδρου της Ομοσπονδίας.

Καταλήγοντας, θα ήθελα να ζητήσω την υποστήριξη του Ε.Μ.Π. προς το Τ.Ε.Ε. προκειμένου να υποβάλει, ως αρμόδιος φορέας, στη Διεθνή Ομοσπονδία Τοπογράφων σχετική πρόταση για υποψηφιότητα της κας Πότσιου στη θέση της Προέδρου, και να επαναλάβω ότι θα έχει τη θερμή υποστήριξη και αρωγή της Σχολής Α.Τ.Μ. στην κατεύθυνση αυτή.

Ο Κοσμήτορας της Σχολής

Καθηγητής Άγγελος Σιόλας





Nomination Template
Vice President
(2015-2018)

Nominee:	
Name:	Prof. Dr. Yerach Doytsher
Member Association:	The Association of Licensed Surveyors in Israel
Country:	ISRAEL
Contact address:	Mapping and Geo-Information Engineering Technion – Israel Institute of Technology Haifa 32000, ISRAEL
Email address:	doytsher@technion.ac.il +972-4-8293183 (O); +972-54-4690110 (M) +972-4-8295708 (Fax)
Age:	68
Educational background & Qualifications:	<ul style="list-style-type: none"> ▪ 1967, B.Sc., Civil Engineering (Geodetic Engineering major), Technion - Israel Institute of Technology ▪ 1973, M.Sc., Geodetic Engineering, Technion - Israel Institute of Technology ▪ 1979, D.Sc., Geodetic Engineering, Technion - Israel Institute of Technology
Field of surveying discipline	Surveying and Digital Mapping; Photogrammetry; Spatial Information; Geographical Information Systems; Cadastre and Land Information Systems.
History of Employment:	<ul style="list-style-type: none"> ▪ Full Professor and the Abel Wolman Chair in Civil Engineering at the Technion - Israel Institute of Technology.
- Current position	
- Previous position(s)	<ul style="list-style-type: none"> ▪ 2006-2010, Dean of the Faculty of Architecture and Town Planning at the Technion. ▪ 1996-2006, Head of the Mapping and Geo-Information Engineering Program (as Head of Geodetic Engineering Division and as Head of the Transportation and Geo-Information Engineering Department) at the Technion. ▪ 1971-1996, Teaching at Tel-Aviv University, The Hebrew University of Jerusalem, Bar-Ilan University, and The Technion - as an adjunct teacher (lecturer / senior lecturer / associate professor).



Nomination Template Vice President (2015-2018)

- 1975-1996, Self-employed Geodetic Engineer, professional consulting and geodetic guidance for many private and public bodies, among these several ministries, Survey of Israel, Israel Lands Administration, private companies in Israel and abroad and others.
- 1967-1975, Governmental employee, Geodetic Engineer, Head of Computing Section and Head of Automation Division at the Survey of Israel.



Nomination Template
Vice President
(2015-2018)

Nominee:	
Position of Trust: - Current position(s)	<ul style="list-style-type: none"> ▪ President, Association of Licensed Surveyors in Israel ▪ Chair, FIG Commission 3 on Spatial Information Management (until 12/2014) ▪ ACCO Representative to the FIG Council (until 12/2014)
- Previous position(s)	Several positions, inter alia, <ul style="list-style-type: none"> ▪ 2005-present, Member of the Advisory Guiding Committee in Geodesy and Cadastre to the Director General of the Survey of Israel. ▪ 2003-2006, Member of the Appointment and Promotion Senate Committee, Technion - Israel Institute of Technology. ▪ 2002-2004, Member of the governmental steering committee, 3D Cadastre in Israel. ▪ 1995-1998, Member in a committee for renewing the Israeli surveying regulations.
FIG Positions/Responsibilities: - Current position(s)/responsibilities	<ul style="list-style-type: none"> ▪ Chair, FIG Commission 3 on Spatial Information Management (until 12/2014) ▪ ACCO Representative to the FIG Council (until 12/2014)
- Previous position(s)/responsibilities	<ul style="list-style-type: none"> ▪ 2007-2010, Annual Commission 3 workshops, Chair of the Peer Review Committee. ▪ 2002-2006, Commission 3, Co-Chair, Working Group on 3D Cadastre, Inter-Commission activity of Commission 3 and 7. ▪ 1998-2002, Commission 3, Co-Chair, Working Group 1 (Technical Aspects of SIM).
Other activities in FIG	During the last 20-25 years have participated in most of FIG congresses and annual working weeks, as well as in many other FIG workshops. Have delivered a large number of invited speeches and presentations on subjects of Surveying, Cadastre, Spatial information and GIS management in these events.



Nomination Template Vice President (2015-2018)

Nominee's statement	
My motivation to be FIG Vice President:	<p>During more than 45 years of my professional career I have gained considerable experience both as a practitioner engineer as well as an academic professor - researcher and teacher. The experience I have gained in the fields of digital mapping and photogrammetry, GIS, Cadastre and LIS, is very relevant to FIG activity.</p> <p>Over the years I have accumulated significant managerial experience both in the private and in the public sectors as well as in the academia. Inter alia, I was head of a large government department, I was a professional manager of private geomatics firms, and I have served as head of a department and dean of a Faculty at the Technion. This managerial experience would be very useful for the position of FIG Vice President and member of the council.</p> <p>Relying on my past experience, capabilities and managerial background in various areas, all relevant to FIG activities, I intend to devote my time and efforts to developing FIG agenda for the benefits of the international surveying community.</p>
What I can offer in support of FIG's aims and objectives:	<p>I am extensively involved in FIG matters for many years now, and since the mid-1990s I am the Israeli national delegate to commission 3. As an active member in commission 3, I did my best to contribute to its activity, to share my knowledge and experience with my colleagues and delegates, and to actively participate in conferences and workshops. Since 2011, I am the chair of commission 3.</p> <p>Facing the challenges of our profession in the 21st century, I am confident that I can assist the new elected president and the council in continuing its very successful and important work as leading internationally the surveying profession. I am ready to fulfil tasks and be responsible for topics that will be given to me by the elected president. I would like to encourage surveying and mapping associations and organizations in general and academic departments in particular to join FIG, to encourage delegates from all countries to participate and contribute to FIG; to help organizing annual workshops focusing on specific predefined topics within the 10 FIG commissions agenda; and to motivate professionals from industry and academia to participate</p>



Nomination Template Vice President (2015-2018)

	and contribute with their know-how for the benefit of our profession and our society.
My key skills for the Vice Presidency and FIG Council:	Rich background of practical professional activities and background as a researcher and professor; Managerial background and experience; Long history of activity within FIG in general and in Commission 3 in particular; Acquaintance with FIG goals and missions; Willingness to devote time and effort towards the prosperity of FIG.
Any other supporting information:	Have the capabilities, inter alia, to motivate people to professionally contribute, to initiate and organize professional conferences, to establish multi-disciplinary working groups - all that - to promoting the surveying and the mapping profession and community.



Nomination Template Vice President (2015-2018)

Nominator	
Name of Member Association:	The Association of Licensed Surveyors in Israel
Name of Proposer:	Mr. Joseph Kraus,
Position in Association	Honorary President
Contact address:	34 Itzhak Sadeh St., P.O. BOX 51668, Tel Aviv 67212, ISRAEL
Email address	alsi@alsi.org.il
Proposer's Statement	
Why the Association wants to propose the Nominee	<p>Professor Doytsher holds BSc, MSc and DSc degrees in Geodesy, and is a Full Professor of Mapping and Geo-Information Engineering at the Technion. He has a long history of practical engineering and land surveying experience in the public and private sectors in Israel, and has significantly contributed to our profession. Throughout last decades he has developed new standards and ideas in order to face the new challenges of our profession. His extensive research experience in the different aspects of Cadastre, mapping and surveying, which are all relevant to FIG activity, is also worth mentioning.</p> <p>Since 2011, Professor Doytsher serves as the president of the Association of Licensed Surveyors in Israel, and is very successful in this position. Organizing professional courses to promote the professional level of the licensed surveyors in Israel, organizing annual fruitful conferences, and to move forward the level and quality of the surveying profession - all of which will constitute a significant asset in his role as FIG Vice President, once elected.</p> <p>Professor Doytsher is extensively involved in FIG matters. He is the Israeli national delegate to commission 3 for many years now, and had participated in many FIG conferences and workshops, sharing his experience by lecturing on his fields of expertise.</p> <p>In his current positions as chair of FIG commission 3 and the ACCO Representative to the FIG council, he has demonstrated his professionalism and skills, and contributed greatly to the success of FIG. The annual</p>



Nomination Template
Vice President
(2015-2018)

	conferences/workshops he had organized with a large number of participants and high professional standards are undoubtedly a significant contribution to FIG and its assets.
What support (financial, administrative and others) can the Association provide to the Nominee if elected Vice President	The Association of Licensed Surveyors in Israel will give full administrative, professional and financial support to Professor Doytsher in fulfillment of his task as FIG Vice President, once he will be elected.
Any other supporting information:	The Association of Licensed Surveyors in Israel will support Professor Doytsher with any additional required support in order to enable him to successfully fulfil the position as FIG Vice President, once elected.
Name of Seconder:	Mr. Eliyahu Talmon
Position in Association	Vice President and Treasurer
Contact address:	34 Itzhak Sadeh St., P.O. BOX 51668, Tel Aviv 67212, ISRAEL
Email address	alsi@alsi.org.il

Signed I hereby certify the above is true and correct I am available for the election as Vice President for the remaining two year term (2015 – 2016) if vacancy arises.	
Nominee	
Proposer:	
Seconder:	
Date:	February 12, 2014



Nomination Template Vice President (2015-2018)

** Nominee is required to cancel whichever is not appropriate; and
Nominee is requested to initial every page of the nomination template*

Clarifying Notes:

- The Nominator (Proposer and Seconder) must be principal officers of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)
- The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association
- Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office
- Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives
- Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement



February 12, 2014

Ms. Louise Friis-Hansen
FIG Manager
International Federation of Surveyors, FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
DENMARK
E-mail: louise.friis-hansen@fig.net

Dear Ms. Friis-Hansen,

Re: **Professor Dr. Yerach Doytsher – as a nominee to FIG Vice President**

Professor Dr. Doytsher holds BSc, MSc and DSc degrees in Geodetic Engineering, and is a Full Professor of Mapping and Geo-Information Engineering at the Technion. He has a long history of practical engineering and land surveying experience in the public and private sectors in Israel and has significantly contributed to our profession. In the last decade he has developed new standards and ideas in order to face the new challenges of our profession. His extensive research experience in the different aspects of cadastre, mapping and surveying, all relevant to FIG activities, is also worth mentioning.

Since 2011 Professor Doytsher is the president of The Association of Licensed Surveyors in Israel; a position that exposes him to all aspects of our profession, as well as to the aspects of related disciplines, such as Town Planning, Land Management, and Real Estate Appraisal. All are contributing to a better understanding between the professionals involved in the various activities affiliated with FIG and sister organizations.

For more than 4 decades of a professional career, Professor Doytsher has gained considerable experience both as a practitioner engineer and an academic professor - researcher and teacher. He has accumulated managerial experience in the private and public sectors, as well as in the academia. He has served as head of a large government department at the Survey of Israel, was a professional manager of private firms, and served as head of departments and Faculty Dean at The Technion. This managerial experience would be very useful as a FIG Vice President.

Professor Doytsher has published more than 320 research papers and reports in international technical and scientific journals, and international and local symposia proceedings. He had participated in more than 130 conferences and congresses, and gave more than 150 presentations on various topics of geodesy, surveying, cadastre, cartography, photogrammetry, mapping and GIS, and geospatial processing. Since the 1990s, he had supervised (and continue to supervise) 65 graduate students (more than a third are PhD students).

Professor Doytsher is extensively involved in FIG issues. He is the Israeli national delegate to Commission 3 for many years now, and had participated in many FIG conferences and workshops, sharing his experience by lecturing on his fields of expertise. Since 2011, he is



the chair of commission 3, and since 2013 he is the ACCO Representative in the FIG council FIG. During his activities over the years in FIG in general and during the current term as chair of commission 3 in particular, he has demonstrated his professionalism and managerial capabilities, contributing greatly to the success of FIG. The annual conferences/workshops he had organized with a large number of participants having high professional standards are undoubtedly a significant contribution to FIG and its assets.

We are hereby submitting his nominee to the position of FIG Vice President for the period 2015-2018. The nomination is based on Professor Doytsher's experience, knowledge and capabilities in the areas of surveying and geo-information. However, first and foremost it is based on his international profile and his commitment to developing FIG agenda for the benefit of the surveying and mapping community worldwide. Being elected would undoubtedly contribute immensely to the international community of surveyors in general and to FIG in particular.

The Association of Licensed Surveyors in Israel will give full administrative, professional and financial support to Professor Doytsher in fulfillment of this task, once he is elected.

Yours Sincerely,

Joseph Kraus
Honorary President

Eliyahu Talmon
Vice President and Treasurer

The Association of Licensed Surveyors in Israel

Encl. Professor Doytsher's Short Curriculum Vitae



Short Curriculum Vitae - Prof. Dr. Yerach Doytsher

Professor Yerach Doytsher was born in Russia (1945) and immigrated to Israel as a young child (1950). He studied at the Technion - Israel Institute of Technology, and obtained BSc in Civil Engineering - specializing in Surveying and Geodesy - Summa Cum Laude in 1967. In 1970 he was licensed for land surveying ("Israeli Licensed Surveyor"). Later, he obtained his MSc (1973) and DSc (1979) degrees in Geodetic Engineering, also from The Technion.

In 1967 he had started his professional activity in the public sector, and worked for 8 years at the Survey of Israel (the governmental agency responsible for geodesy, mapping, cadastre and GIS). As head of the automation and computation division, he was involved in developing automation methods and techniques for plane and geodetic surveying, and in developing automation applications and projects for cadastral survey.

During the next 20 years he had worked in the private sector as a professional manager, mapping and GIS projects supervisor, and as a senior scientific consultant. He had handled topographic and cadastral engineering projects; developed geo-referenced urban databases and automated methods for town planning projects; implemented analytical and digital photogrammetry for cadastral mapping and land management, and digital terrain models for automated topographic and highway design; and, managed multi-layer wide range GIS projects. He had also acted during this period as a scientific and professional consultant to different domestic and international organizations in the fields of Geodesy, Photogrammetry, Computer Graphics, Automated Mapping, and Geographic Information Systems.

During his professional career, he had lectured since the 1970s as an Adjunct Associated Professor at several universities (Technion, Tel-Aviv University, Bar-Ilan University), tutoring mapping and geo-information engineers, surveyors and geodesics, civil engineers, and geographers.

The third period of Professor Doytsher's career had started at 1996, when he was appointed as a faculty member at The Technion, where he is today a full Professor of Mapping and Geo-Information and holder of the Abel Wolman Chair in Civil Engineering. He was responsible for updating and upgrading the previous geodetic curricula, with a significant transition from a limited geodetic program focusing mainly on geodetic aspects to a comprehensive and modern mapping and geo-information undergraduate and graduate programs. This transition was followed by a considerable increase in the number of undergraduate students, and a huge increase in the number of MSc and PhD students. In addition to teaching and research activities, he was appointed as head of the Geodetic Engineering Division (1996-2002), head of the Department of Transportation and Geo-Information Engineering (2002-2006) and Dean of the Faculty of Architecture and Town Planning (2006-2010). Nowadays, he is heading two prestigious Master programs at The Technion – Real Estate program and Urban Engineering program. Since 1999 he is also heading the Geodesy and Mapping Research Center of The Technion.

Included within the research interests and expertise of Professor Doytsher are: Geographic Information Systems in general and graphical-digital conversions in particular; Using non-linear transformation (rubber sheeting) algorithms and techniques for maps and database conversion; Conflation and merging of digital 2D and 3D information (maps and databases); Land information and management systems in general and digital cadastre and 3-dimensional cadastre in particular; Digital terrain models (DTMs and DSMs); Digital photogrammetry and LiDAR.



Professor Doytsher had published more than 320 research papers and reports in international scientific and technical journals, and international and local symposia proceedings. He had participated in more than 130 conferences and congresses, and gave more than 150 presentations on various topics of geodesy, surveying, cadastre, cartography, photogrammetry, mapping and GIS, and geospatial processing. Since the mid-1990s, he had received some 25 substantial research grants (from Israeli governmental agencies as well as from Israeli and foreign research foundations), dealing with most innovative subjects of geodesy, cadastre, photogrammetry and GIS. Since the 1990s, he had supervised (and continue to supervise) about 25 PhD and 40 MSc graduate students.

Since the mid-1990s Professor Doytsher has been active in international professional organizations, inter alia, FIG, ISPRS and ICA. For the last 18 years, he is the Israeli national delegate to FIG commission 3 on Spatial Information Management and is currently the chair of this commission for the term 2011-2014. During the last 20 years, he has participated very actively in most of the annual FIG conferences and congresses, and in the annual commission 3 workshops, and his activity is expressed mainly in issues such as: land management, geospatial information, Cadastre in general and digital and 3-dimensional cadastre in particular, etc.

In addition to his academic work, Prof. Doytsher is also involved in the practical aspects of the geomatics profession as a consultant for the private and public sectors, and since 2011 he is the President of the Association of Licensed Surveyors in Israel.



**Nomination Template
Vice President
(2015-2018)**

Nominee:	
Name:	Diane Dumashie
Member Association:	RICS
Country:	UK
Contact address:	Keta Lodge, Wareham UK, BH20 5DG
Email address:	ddd@dumashie.co.uk
Age:	
Educational background & Qualifications:	<ul style="list-style-type: none"> • PhD University Cardiff • BSc University of Central England Professional qualifications: <ul style="list-style-type: none"> • Fellow Member of the Royal Institution of Chartered Surveyors (FRICS) • CEDR Accredited Mediator • Associate Project Managers (APM)
Field of surveying discipline	Planning and development, coastal management, land administration, environment, land development and economics, Property, Economic Development and Planning, Land governance and institutional capacity development
History of Employment:	<ul style="list-style-type: none"> - Director Dumashie LTD (1999- to date)
- Current position	
- Previous position(s)	<ul style="list-style-type: none"> - Planning and Economic Development Consultancy (1996-1999) - Corporate Property Director/ Senior Surveyor Manager (1990 - 1995) Various technical, business and managerial roles, in corporate and private sector (1984-1995)



Nomination Template
Vice President
(2015-2018)

Nominee:	
Position of Trust: - Current position(s)	Editorial Advisory Board, Emerald Journal External Examiner, Portsmouth University
FIG Positions/Responsibilities: - Current position(s)/responsibilities	- Chair, Africa Task force (2009-2014) Previous:
- Previous position(s)/responsibilities	- Convener & FIG lead for SIDS workshop 2010 - Chair, Commission 8 (2007-2010) - Chair, Commission 8 (2004 -2006) - Vice chair, commission 8 (1998-2009) - Member, Task Force on Governance (2004-2006)
Other activities in FIG	Participated in FIG since Prague (date), Input into Task Force on Institutional and Organisational Development Head of RICS delegation to FIG (2006 – to date)



Nomination Template Vice President (2015-2018)

Nominee's statement	
<p>My motivation to be FIG Vice President:</p>	<ul style="list-style-type: none"> • As a practicing surveyor I am in touch with my fellow practitioners daily realities of working in the current economic climate with ethical and robust technical competencies • As a practicing knowledge transfer facilitator I am at the cutting edge of new ways of thinking and implementing approaches to futures strategies, and • As a practicing communicator I am in touch with all levels of business activity within donor agencies, member associations and grassroots stakeholders, building bridges and dialogue <p>Combining these practices enables me to positively and credibly contribute to Governing Council in key strategic fields.</p>
<p>What I can offer in support of FIG's aims and objectives:</p>	<p>I have been widely acknowledged as a creative and strategic business thinker with a proven ability to lead and manage change, to energise and resolve complex issues and deliver successful outcomes for all stakeholders.</p> <p>As an experienced Board member, I believe that the combination of my business expertise combined with my active involvement in a range of communication platforms will greatly benefit FIG members. The reasons are:</p> <p>Board / Strategic Experience</p> <ul style="list-style-type: none"> • A proven track record of success in leading and managing Commissions and Task Force in FIG • Driving change and delivering strategic objectives and projects on time and within budget. • Chairing working groups of senior individuals and occupying Board positions in commercial and voluntary environments. • Familiarisation with and working on a global Professional platform with Country government aid agency departments and International donor agency (UN, World Bank, FAO) in both professional and policy development • In-depth understanding of member governance, standards of public life and the need for careful stewardship of members money • Building mutually successful, long – standing relationships with key stake holding Partners through strategic alliances and joint ventures through active involvement in networks including, CASLE, AFRES, EALAN and a range of Member associations. • Built an in-depth understanding of the geopolitical environment and over the past decade am doing business, monitoring world initiatives and becoming familiar with the issues and interventions of major players. <p>Business Experience</p> <ul style="list-style-type: none"> • Board level decision making and business development experience, in both Corporate and SME's organisations



Nomination Template Vice President (2015-2018)

	<p>across a range of industries including, professional services (Land, Lawyers, Engineers), commerce (hotel & leisure, fast food & retail), Housing, Health Care and industrial (Ports)</p> <ul style="list-style-type: none"> • Experienced in entrepreneurial activity including areas in sub franchising, development strategies, leading acquisitions and development programmes, company take-overs, feasibility market analysis, provision and co ordination of strategic property advice. • Providing assistance to SME's to develop strategic business thinking, business plans, research, report drafting, market analysis and grant applications. • Established track record in assimilating partnership needs in a variety of contexts to progress projects through adoption and implementation processes <p>Interpersonal:</p> <ul style="list-style-type: none"> • The passion, enthusiasm, drive and commitment to lead, motivate and inspire others allied with strong interpersonal, communication and negotiation skills and ability to work cooperatively, collaboratively and effectively. • Considered leadership approach to coordinate, design and facilitate activities to progress the Boards objectives and inform decision makers. • As a proven communicator I have the ability to transfer knowledge and skills in a multi cultural environment, evidenced by a range of international project work and networking platforms. <p>My professional, policy and investigative research experience in land economics, governance, and natural resources, allied with extensive networks in international professional working groups, will greatly benefit the FIC council Board and contribute significantly to the success for FIG members across the globe.</p>
<p>My key skills for the Vice Presidency and FIG Council:</p>	<p>Communication, people management, internationalism</p>
<p>Any other supporting information:</p>	<p>I have the commitment of my employers to support me as Vice President of FIG</p>



Nomination Template Vice President (2015-2018)

Nominator	
Name of Member Association:	Royal Institution Chartered Surveyors (RICS)
Name of Proposer:	James Kavanagh MRICS
Position in Association	Director RICS Land Group
Contact address:	12 Great George Street, London, SW1P 3AD
Email address	jkavanagh@rics.org
Proposer's Statement	
Why the Association wants to propose the Nominee	RICS believes that Diane would make an excellent FIG vice-president and would bring a freshness of approach and inclusivity to the role. Diane has extensive experience of both RICS and FIG and would, we believe, help to further cement our already strong relationship.
What support (financial, administrative and others) can the Association provide to the Nominee if elected Vice President	RICS will be able to offer assistance to Diane on a number of levels. RICS has an extensive network of international offices which might be able to provide local contacts for her work as Vice President of FIG.
Any other supporting information:	
Name of Seconder:	Gary Strong FRICS
Position in Association	Director Professional Groups and Forums
Contact address:	12 Great George Street, London, SW1P 3AD
Email address	gstrong@rics.org

Signed



Nomination Template Vice President (2015-2018)

I hereby certify the above is true and correct

I am available for the election as Vice President for the remaining two year term (2015 – 2016) if vacancy arises.

Nominee	Diane Dumashie FRICS
Proposer:	James Kavanagh MRICS
Secunder:	Gary Strong FRICS
Date:	26/11/13

* *Nominee is required to cancel whichever is not appropriate; and
Nominee is requested to initial every page of the nomination template*

Clarifying Notes:	<ul style="list-style-type: none">• The Nominator (Proposer and Secunder) must be principal officers of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)• The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association• Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office• Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives• Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement
-------------------	---

11/26/2013
Ms. Louise Friis-Hansen
FIG Manager

International Federation of Surveyors
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Tel. + 45 38861081
Direct: + 45 33185584
Fax: + 45 38860252
louise.friis-hansen@fig.net

Dear Louise,

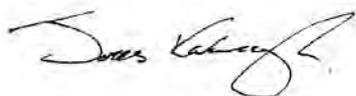
RICS is the leading organisation of its kind in the world for professionals in property, construction, land and related environmental issues. As an independent and chartered organisation, RICS regulates and maintains the professional standards of over 100,000 qualified members (FRICS, MRICS and AssocRICS) and over 50,000 trainee and student members. It regulates and promotes the work of these property professionals throughout 146 countries and is governed by a Royal Charter approved by Parliament which requires it to act in the public interest.

Re: Diane Dumashie FRICS nomination for FIG vice-president 2014-16

I am very pleased to send this letter in support of Diane Dumashie's nomination for FIG vice-president 2014-16.

RICS believes that Diane would make an excellent FIG vice-president and would bring a freshness of approach and inclusivity to the role. Diane has extensive experience of both RICS and FIG and would, we believe, help to further cement our already strong relationship.

Yours Sincerely



James Kavanagh BSc(Hons) MRICS C.Geog
Director Land Group (Geomatics, Environment, MWM, Rural, P&D, Telecoms)
Tel: 0044 (0) 207 695 1598
Mob: 0796 411 9409
Email: jkavanagh@rics.org
Web: <http://www.rics.org/land>



**Nomination Template
Vice President
(2015-2018)**

Nominee:	
Name:	Kate Fairlie
Member Association:	Surveying and Spatial Sciences Institute (SSSI), Australia
Country:	Australia
Contact address:	3/141 Oberon Street Coogee, NSW 2031 Australia
Email address:	kfairlie@gmail.com
Age:	29
Educational background & Qualifications:	Bachelor of Engineering (Surveying and Spatial Information Systems) with First Class Honours, <i>University of New South Wales, Australia</i> (2008)
Field of surveying discipline	Land management and governance (Cadastre and land policy, spatial analysis and information management)
History of Employment:	Since 2013: Youth and Land Research Consultant UN-HABITAT
- Current position	
- Previous position(s)	2010 – 2013: Senior Project Officer New South Wales Office of Environment & Heritage 2010: Lecturer, Property Title and Spatial Data Analysis School of Design, Architecture and the Built Environment, University of Technology Sydney 2008 – 2009: GeoInformation Analyst Shell UK Exploration and Production 2007: GIS Analyst NGIS Australia



Nomination Template Vice President (2015-2018)

Nominee: Kate Fairlie	
Position of Trust: - Current position(s) - Previous position(s)	Since 2012: Young Ambassador BusinessEvents Sydney 2012 – 2013: Chair SSSI New South Wales Young Professionals Group 2013: GeoNext 2013 Advisory Group member 2009 – 2010: Committee Member Maths in Surveying Days NSW 2011 – 2012: High school Mentor NSW Office of Environment and Heritage Mentoring Program
FIG Positions/Responsibilities: - Current position(s)/responsibilities - Previous position(s)/responsibilities	Since 2011: Chair, FIG Young Surveyors Network 2007 – 2010: Regional Coordinator FIG Young Surveyors Working Group 2008 – 2010: Young Ambassador FIG Congress, Sydney 2010
Other activities in FIG	<ul style="list-style-type: none"> - Coordinated the 2013 FIG Pacific Small Island Developing States Symposium, together with the FIG Office, Fijian hosts and David Mitchell. - Supported the FIG YSN committee and other co-hosts in developing the 2013 European Young Surveyors Meeting and 2014 North and Central America Young Surveyors Meeting - Developed and chaired the 2012 FIG Inaugural Young Surveyors Conference at the 2012 FIG Working Week in Rome, together with the FIG Young Surveyors Network. - Worked with FIG YSN and FIG Foundation to establish FIG Foundation Young Surveyor Fellowships, awarded annually since 2012 - Worked with FIG YSN and the Global Land Tool Network to undertake Social Tenure Domain Model 'Training of the Trainer' sessions, fulfilling FIG's agreement with the Global Land Tool Network. - Represented FIG and the FIG Young Surveyor's Network at the 2012 GLTN Expert Group Meetings on Youth and Land, at the 2012 UN-Habitat World Urban Forum and at the 2013 South East Asia Survey Congress. - Active contributor to the African Task Force, Commission 1, 2 and 8, providing youth linkages and thematic input. - Active contributor to, and moderator of the FIG YSN Facebook (2500+ group members), LinkedIn (900+ group members) and Twitter pages (500+ followers)



Nomination Template Vice President (2015-2018)

Nominee's statement	
My motivation to be FIG Vice President:	<p>FIG is the only organization that comprehensively represents surveying as a profession internationally. I want to play an active role in ensuring that the future of surveying is one that encompasses the true diversity, broad ranging skills and global capacity of surveyors worldwide. I also want to ensure that the youth voice is maintained within the FIG leadership, and to demonstrate the capacity of young professionals to step up and take on increasing responsibility within the FIG leadership.</p> <p>My first encounter with FIG was the Congress held in Munich in 2006. I have been active in the FIG since attending the very first day of that conference. For me, the role of FIG Vice President is the next step – and one that will cement my ongoing contribution to the international profession.</p>
What I can offer in support of FIG's aims and objectives:	<p>My vision for the FIG is that it</p> <ul style="list-style-type: none"> - Remains the leading professional body for national surveying organizations - Continues to drive international surveying policy - Strengthens linkages with other international surveying and affiliated organizations - Continues to drive and publish world leading research - Continues to support and foster industry and corporate members - Continues to promote the image of surveying internationally <p>As a young surveyor who has been active in the FIG community for the last eight years, I can offer:</p> <ul style="list-style-type: none"> - Fresh ideas and new innovations <i>to ensure FIG and the surveying profession remain relevant</i> - The ideas and passion to forge new partnerships and redefine the centrality of the surveying profession - Experience in web and social media <i>critical to the revamping of the FIG website.</i> - A strong understanding of the role and functions of the FIG Office, Board and Foundation <i>critical to the organization of events, and developing new efficiencies and ways of working</i> - Experience in project management, monitoring and evaluation <i>essential to assessing our performance.</i> - Broad exposure across the surveying disciplines, in industry and academia, across developed and developing countries and strong connections and experience with UN agencies.
My key skills for the Vice Presidency and FIG Council:	<p>The following skills emphasise my suitability for this position:</p> <ul style="list-style-type: none"> - Strong understanding of the work of the FIG, having previously worked closely with the FIG Office, FIG Board an



Nomination Template Vice President (2015-2018)

	<p>FIG Foundation and played a key role in the organization of many FIG events.</p> <ul style="list-style-type: none">- Excellent communication skills and a value for diversity. I have lived in multiple countries across Europe, Asia and Oceania. I have attended and helped to organize international meetings on six continents, uniquely exposing me to local customs, traditions and challenges of the surveying professions.- Strong social media skills- Leadership experience at local, regional and international scales- Extensive experience promoting surveying both as a career and as a profession essential to sustainable development.- Project planning, implementation, management and evaluation experience across both social and technical projects. I have managed both local and international projects and teams.- A unique perspective of youth and young professionals, and their needs and vision for the future of surveying. For the last eight years I have played a leading role in representing and promoting young surveyors both locally and internationally.
Any other supporting information:	



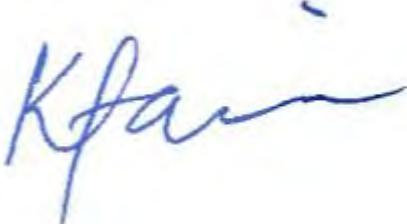
Nomination Template Vice President (2015-2018)

Nominator	
Name of Member Association:	Surveying and Spatial Sciences Institute (SSSI) Australia
Name of Proposer:	Professor John Trinder
Position in Association	President SSSI
Contact address:	PO Box 307 DEAKIN WEST ACT 2600 Facsimile: +61 2 6282 2576
Email address	president@sssi.org.au
Proposer's Statement	
Why the Association wants to propose the Nominee	Australia wishes to continue to make a significant contribution on the Council of FIG, as it has done so in the past. On this occasion the nominee is a young, dynamic and forward thinking woman who has made a significant contribution to the FIG Young Surveyors Network (FIG YSN), and as Chair since 2011. She has had significant international experience while studying for her undergraduate degree and since then, notably as Youth and Land Research Consultant of UN-HABITAT since 2013. The SSSI believes that Kate Fairlie will bring a young person's perspective to FIG, which will enhance the participation of young people in FIG, thus ensuring the future of the organization. As well the SSSI believes that the proximity of Australia to Asia will enable Kate to interact with the Asian community of surveyors and especially the increasing numbers of young surveyors. This is an excellent opportunity for the FIG community to include a young person on its Council. SSSI strongly supports Kate Fairlie's nomination for the position of Vice President of FIG.
What support (financial, administrative and others) can the Association provide to the Nominee if elected Vice President	SSSI could supply limited financial support and secretarial support through the FIG National office.
Any other supporting information:	
Name of Seconder:	Mr Phil Pozzi
Position in Association	Chair SSSI Land Surveying Commission
Contact address:	Bennett and Francis, Surveyors, Brisbane QLD Australia
Email address	Pozzi Phillip <p.pozzi@bfsurveys.com.au>

Signed	
I hereby certify the above is true and correct	
I am available/not available* for the election as Vice President for the remaining two year term (2015 – 2016) if vacancy arises.	
Nominee	



Nomination Template Vice President (2015-2018)

	
Proposer:	
Secunder:	
Date:	
Clarifying Notes:	<ul style="list-style-type: none">• The Nominator (Proposer and Secunder) must be principal officers of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)• The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association• Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office• Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives• Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement



**Nomination Template
Vice President
(2015-2018)**

Nominee:	
Name:	Kate Fairlie
Member Association:	Surveying and Spatial Sciences Institute (SSSI), Australia
Country:	Australia
Contact address:	3/141 Oberon Street Coogee, NSW 2031 Australia
Email address:	kfairlie@gmail.com
Age:	29
Educational background & Qualifications:	Bachelor of Engineering (Surveying and Spatial Information Systems) with First Class Honours, <i>University of New South Wales, Australia</i> (2008)
Field of surveying discipline	Land management and governance (Cadastre and land policy, spatial analysis and information management)
History of Employment:	Since 2013: Youth and Land Research Consultant UN-HABITAT
- Current position	
- Previous position(s)	2010 – 2013: Senior Project Officer New South Wales Office of Environment & Heritage 2010: Lecturer, Property Title and Spatial Data Analysis School of Design, Architecture and the Built Environment, University of Technology Sydney 2008 – 2009 Geoinformation Analyst Shell UK Exploration and Production 2007: GIS Analyst NGIS Australia



Nomination Template Vice President (2015-2018)

Nominee: Kate Fairlie	
Position of Trust: - Current position(s) - Previous position(s)	Since 2012: Young Ambassador BusinessEvents Sydney 2012 – 2013: Chair SSSI New South Wales Young Professionals Group 2013: GeoNext 2013 Advisory Group member 2009 – 2010: Committee Member Maths in Surveying Days NSW 2011 – 2012: High school Mentor NSW Office of Environment and Heritage Mentoring Program
FIG Positions/Responsibilities: - Current position(s)/responsibilities - Previous position(s)/responsibilities	Since 2011: Chair, FIG Young Surveyors Network 2007 – 2010: Regional Coordinator FIG Young Surveyors Working Group 2008 – 2010: Young Ambassador FIG Congress, Sydney 2010
Other activities in FIG	<ul style="list-style-type: none"> - Coordinated the 2013 FIG Pacific Small Island Developing States Symposium, together with the FIG Office, Fijian hosts and David Mitchell. - Supported the FIG YSN committee and other co-hosts in developing the 2013 European Young Surveyors Meeting and 2014 North and Central America Young Surveyors Meeting - Developed and chaired the 2012 FIG Inaugural Young Surveyors Conference at the 2012 FIG Working Week in Rome, together with the FIG Young Surveyors Network. - Worked with FIG YSN and FIG Foundation to establish FIG Foundation Young Surveyor Fellowships, awarded annually since 2012 - Worked with FIG YSN and the Global Land Tool Network to undertake Social Tenure Domain Model 'Training of the Trainer' sessions, fulfilling FIG's agreement with the Global Land Tool Network. - Represented FIG and the FIG Young Surveyor's Network at the 2012 GLTN Expert Group Meetings on Youth and Land, at the 2012 UN-Habitat World Urban Forum and at the 2013 South East Asia Survey Congress. - Active contributor to the African Task Force, Commission 1, 2 and 8, providing youth linkages and thematic input. - Active contributor to, and moderator of the FIG YSN Facebook (2500+ group members), LinkedIn (900+ group members) and Twitter pages (500+ followers)



Nomination Template Vice President (2015-2018)

Nominee's statement	
My motivation to be FIG Vice President:	<p>FIG is the only organization that comprehensively represents surveying as a profession internationally. I want to play an active role in ensuring that the future of surveying is one that encompasses the true diversity, broad ranging skills and global capacity of surveyors worldwide. I also want to ensure that the youth voice is maintained within the FIG leadership, and to demonstrate the capacity of young professionals to step up and take on increasing responsibility within the FIG leadership.</p> <p>My first encounter with FIG was the Congress held in Munich in 2006. I have been active in the FIG since attending the very first day of that conference. For me, the role of FIG Vice President is the next step – and one that will cement my ongoing contribution to the international profession.</p>
What I can offer in support of FIG's aims and objectives:	<p>My vision for the FIG is that it</p> <ul style="list-style-type: none"> - Remains the leading professional body for national surveying organizations - Continues to drive international surveying policy - Strengthens linkages with other international surveying and affiliated organizations - Continues to drive and publish world leading research - Continues to support and foster industry and corporate members - Continues to promote the image of surveying internationally <p>As a young surveyor who has been active in the FIG community for the last eight years, I can offer:</p> <ul style="list-style-type: none"> - Fresh ideas and new innovations <i>to ensure FIG and the surveying profession remain relevant</i> - The ideas and passion to forge new partnerships and redefine the centrality of the surveying profession - Experience in web and social media <i>critical to the revamping of the FIG website.</i> - A strong understanding of the role and functions of the FIG Office, Board and Foundation <i>critical to the organization of events, and developing new efficiencies and ways of working</i> - Experience in project management, monitoring and evaluation <i>essential to assessing our performance.</i> - Broad exposure across the surveying disciplines, in industry and academia, across developed and developing countries and strong connections and experience with UN agencies.
My key skills for the Vice Presidency and FIG Council:	<p>The following skills emphasise my suitability for this position:</p> <ul style="list-style-type: none"> - Strong understanding of the work of the FIG, having



Nomination Template Vice President (2015-2018)

	<p>previously worked closely with the FIG Office, FIG Board and FIG Foundation and played a key role in the organization of many FIG events.</p> <ul style="list-style-type: none">- Excellent communication skills and a value for diversity. I have lived in multiple countries across Europe, Asia and Oceania. I have attended and helped to organize international meetings on six continents, uniquely exposing me to local customs, traditions and challenges of the surveying professions.- Strong social media skills- Leadership experience at local, regional and international scales- Extensive experience promoting surveying both as a career and as a profession essential to sustainable development.- Project planning, implementation, management and evaluation experience across both social and technical projects. I have managed both local and international projects and teams.- A unique perspective of youth and young professionals, and their needs and vision for the future of surveying. For the last eight years I have played a leading role in representing and promoting young surveyors both locally and internationally.
Any other supporting information:	



Nomination Template Vice President (2015-2018)

Nominator	
Name of Member Association:	Surveying and Spatial Sciences Institute (SSSI) Australia
Name of Proposer:	Professor John Trinder
Position in Association	President SSSI
Contact address:	PO Box 307 DEAKIN WEST ACT 2600 Facsimile: +61 2 6282 2576
Email address	president@sssi.org.au
Proposer's Statement	
Why the Association wants to propose the Nominee	Australia wishes to continue to make a significant contribution on the Council of FIG, as it has done so in the past. On this occasion the nominee is a young, dynamic and forward thinking woman who has made a significant contribution to the FIG Young Surveyors Network (FIG YSN), and as Chair since 2011. She has had significant international experience while studying for her undergraduate degree and since then, notably as Youth and Land Research Consultant of UN-HABITAT since 2013. The SSSI believes that Kate Fairlie will bring a young person's perspective to FIG, which will enhance the participation of young people in FIG, thus ensuring the future of the organization. As well the SSSI believes that the proximity of Australia to Asia will enable Kate to interact with the Asian community of surveyors and especially the increasing numbers of young surveyors. This is an excellent opportunity for the FIG community to include a young person on its Council. SSSI strongly supports Kate Fairlie's nomination for the position of Vice President of FIG.
What support (financial, administrative and others) can the Association provide to the Nominee if elected Vice President	SSSI could supply limited financial support and secretarial support through the FIG National office.
Any other supporting information:	
Name of Seconder:	Mr Phil Pozzi
Position in Association	Chair SSSI Land Surveying Commission
Contact address:	Bennett and Francis, Surveyors, Brisbane QLD Australia
Email address	Pozzi Phillip <p.pozzi@bfsurveys.com.au>

Signed	
I hereby certify the above is true and correct	
I am available/not available* for the election as Vice President for the remaining two year term (2015 – 2016) if vacancy arises.	
Nominee	



Nomination Template Vice President (2015-2018)

Proposer:	
Secunder:	
Date:	13 2 2014
Clarifying Notes:	<ul style="list-style-type: none">• The Nominator (Proposer and Secunder) must be principal officers of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)• The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association• Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office• Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives• Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement

Mr CheeHai Teo
President
International Federation of Surveyors
Address

Dear Mr Teo,

SSSI fully supports the nomination of Ms Kate Fairlie as Vice President of FIG. Ms Fairlie has taken a keen interest in FIG affairs since her graduation from the University of NSW in 2008. Her experience in FIG has been as Regional Coordinator for FIG Young Surveyors Working Group from 2007 – 2010, Young Ambassador 2008 – 2010 and at the FIG Congress, Sydney 2010, and Chair, FIG Young Surveyors Network since 2011. In addition, she has been a Youth and Land Research Consultant of UN-HABITAT since 2013. Her application demonstrates that she is strongly motivated to play a significant role in FIG, particularly to see that young surveyors have a strong voice in FIG affairs.

She is an enthusiastic worker for the FIG community and I believe she will make an important contribution to the decision making processes of FIG. Therefore SSSI strongly recommends her for the position of Vice President of FIG.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'John Trinder', is written in a cursive style.

John Trinder
President



**Nomination Template
Vice President
(2015-2018)**

Nominee:	
Name:	John Hannah
Member Association:	New Zealand Institute of Surveyors
Country:	New Zealand
Contact address:	22 Woodstock Place Stoke Nelson, 7011 New Zealand
Email address:	jandlhannah@gmail.com
Age:	63
Educational background & Qualifications:	BSc (Surveying) University of Otago 1971 DipSci (Credit) University of Otago 1972 Registered Surveyor Survey Board of New Zealand 1974 MSc (Geodetic Science) The Ohio State University 1978 PhD (Geodetic Science) The Ohio State University 1982
Field of surveying discipline	Geodesy, Education
History of Employment:	Emeritus Professor, School of Surveying, University of Otago (2012-present)
- Current position	Managing Director, Vision NZ Ltd (2009 – present). Part time position
- Previous position(s)	Graduate Surveyor, NZ Forest Service 1972-74 Project Surveyor, NZ Forest Service, 1974-76 Teaching/Research Assistant, The Ohio State University, 1976-82 Geodetic Scientist, Dept., of Lands & Survey, NZ, 1982-85 Chief Geodesist, Dept. of Survey & Land Info., NZ, 1985-86 Chief Geodesist/Chief of Research, Dept. of Survey & Land Info., NZ, 1986-87 Director Geodesy, Dept. of Survey & Land Info., NZ, 1988, 1990 Research Professor, US Naval Postgrad. School, Monterey, CA., 1989,1990 Director Photogrammetry, Dept. of Survey & Land Info., NZ, 1991-93 Professor & Head, School of Surveying, University of Otago, 1993-2004 Professor, School of Surveying, 2005-2012 (Part-time from 2007)



Nomination Template
Vice President
(2015-2018)

Nominee:	
Position of Trust: - Current position(s)	Council, Standards New Zealand (1998-present). Chair of Audit & Risk Subcommittee (2009-present)
- Previous position(s)	Various senior management roles in the Dept. of Survey & Land Information, NZ (see employment history) Councilor, NZ Institute of Surveyors (NZIS), 1993-2004 President, Australasian Survey & Mapping Lecturer's Association, 2000-02 President Elect, NZ Institute of Surveyors, 2004-05 President, NZ Institute of Surveyors, 2005-2007 Past President, NZ Institute of Surveyors, 2008 Head of School and Dean, School of Surveying, University of Otago (1993-2004).
FIG Positions/Responsibilities: - Current position(s)/responsibilities	Chair, Task Force on Climate Change
- Previous position(s)/responsibilities	FIG Coordinator for the NZ Institute of Surveyors, 2001-2012
Other activities in FIG	Nil



Nomination Template Vice President (2015-2018)

Nominee's statement	
My motivation to be FIG Vice President:	<p>At a governance level, I see a need for FIG to continue to maintain a broad global perspective as it seeks both to advance the cause of the surveying profession, and to assist the global community in the twin challenges of human sustainability and climate change. Given my breadth of professional experience, I believe that I can help provide that perspective.</p> <p>While surveying is a wonderful career, it is not well known or understood, particularly by global agencies such as the World Bank and the UN. I would like to ensure that steps taken in recent years to overcome this problem continue to advance.</p> <p>With the FIG WW to be held in Christchurch in 2016, it will provide a direct liaison, at a governance level, between the NZIS and FIG.</p>
What I can offer in support of FIG's aims and objectives:	<p>I bring to FIG a broad background of professional experience plus governance experience within a professional organization and within a government entity. I have worked as a field surveyor, as a geodesist, as a photogrammetrist and as an educator. I have travelled extensively during my career, having worked in New Zealand, the United States, Greenland, and in the Antarctic. I thus bring a multi-disciplinary global (admittedly western) perspective to the FIG. I would like to think that my work in climate change issues both previously with the IPCC and with FIG can be used to help advance the relevance of surveying to the global community.</p>
My key skills for the Vice Presidency and FIG Council:	<p>Senior management experience involving strategic planning, budgeting, staff control and decision making.</p> <p>Governance experience both in the public sector and in a professional organization.</p> <p>A very good knowledge of the challenges facing the surveying profession in Oceania.</p>
Any other supporting information:	<p>While I am retired from the University of Otago, I maintain my own consultancy business. By design, this provides part-time employment only.</p> <p>I am a member of the NZ Institute of Directors and a Fellow of the NZ Institute of Surveyors.</p>



Nomination Template Vice President (2015-2018)

Nominator	
Name of Member Association:	New Zealand Institute of Surveyors (NZIS)
Name of Proposer:	Jeff Needham
Position in Association	President
Contact address:	C/- NZIS, PO Box 831, Wellington 6140, New Zealand
Email address	jeffneedham@surveyors.org.nz
Proposer's Statement	
Why the Association wants to propose the Nominee	John Hannah is one of the more recognised and respected professional members of NZIS. His background, work and educational experience are exceptional and most importantly he remains active and involved in the sector and profession. He has recently been involved in a review of the membership certification process for NZIS and in the delivery of a Water Boundaries Seminar that was extremely well attended. We believe he would be an asset to FIG and the world wide membership.
What support (financial, administrative and others) can the Association provide to the Nominee if elected Vice President	We would support his activities as able or needed and would offer direct support to his involvement in New Zealand based events.
Any other supporting information:	As outlined, John Hannah is a Fellow of NZIS and as an active practitioner is held in very high regard not only in his home country but in Australia, Asia and the Pacific.
Name of Seconder:	Phil Rhodes
Position in Association	President Elect
Contact address:	C/- NZIS, PO Box 831, Wellington 6140, New Zealand
Email address	PRhodes@pcc.govt.nz



**Nomination Template
Vice President
(2015-2018)**

Signed I hereby certify the above is true and correct I am available/ not available * for the election as Vice President for the remaining two year term (2015 – 2016) if vacancy arises.	
Nominee	
Proposer:	
Seconder:	
Date:	11/2/14

* *Nominee is required to cancel whichever is not appropriate; and
Nominee is requested to initial every page of the nomination template*

Clarifying Notes:	<ul style="list-style-type: none">• The Nominator (Proposer and Seconder) must be principal officers of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)• The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association• Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office• Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives• Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement
-------------------	---



**Nomination Template
Vice President
(2015-2018)**

Nominee:	
Name:	Mikael Lilje
Member Association:	Swedish Professionals for the Built Environment (Samhällsbyggarna)
Country:	SWEDEN
Contact address:	Geodetic Research Division, Lantmäteriet, SE-801 82 GÄVLE, Sweden
Email address:	mikael.lilje@lm.se
Age:	46
Educational background & Qualifications:	1990 – 1993: Master of Science in Civil Engineering, Geodesy and Photogrammetry, Royal Institute of Technology, Stockholm
Field of surveying discipline	Geodesy, Surveying, Spatial Data, Photogrammetry
History of Employment:	Since 2009 Manager of the Geodetic Research Division, Lantmäteriet (the Swedish mapping, cadastre and land registration authority),
- Current position	
- Previous position(s)	Since 1994: Employed at Lantmäteriet 1994-2001: Research Geodesist at the Geodetic Research Division 2001-2009: Manager of the Reference Frame and Coordinate System Section 2009 - : Manager of the Geodetic Research Division

ll 09/5



Nomination Template Vice President (2015-2018)

Nominee:	
Position of Trust: - Current position(s)	Since 2010: Secretary of the Presidium of the Nordic Commission of Geodesy Since 2011: FIG Liaison to UNOOSA. Representing FIG at the annual ICG-meetings. Since 2013: Lantmäteriets representative and Member of EuroSDR Management Board
- Previous position(s)	1998 - 2008: Board Member of the Swedish Mapping and Surveying Techniques Society (SKMF) and was responsible for the Technical Program of the SKMF Annual Conference. 1998-2004: Secretary of SKMF 2004-2008: Chairman of SKMF. Since 1996: Active within the Nordic Commission of Geodesy (NKG) in various working groups and positions. I have e.g. been member of the working groups of Height Determination, Geoid, and Reference Frame. I was also member of the NGOS (Nordic Geodetic Observing System) task force. Since 2010 member of the NKG Presidium. Appointed Expert to the European Vertical Reference System workshop in Frankfurt, Germany 2004" Involved in several Swedesurvey projects as expert on site, organising visits at Lantmäteriet, holding presentations and more.
FIG Positions/Responsibilities: - Current position(s)/responsibilities	Since 2011: Chair of FIG Commission 5 Since 2011: FIG Liaison to United Nations Office of Outer Space Affairs (UNOOSA). Representing FIG at the annual ICG-meetings.
- Previous position(s)/responsibilities	Since 1998: Actively involved in FIG Commission 5 Since 1998: Member of FIG Commission 5 Steering Committee. 1998-2002: Vice Chair of Administration for FIG Commission 5. 2002-2006: Co-Chair of Commission 5 Working Group 5.2 "Reference Frame in Practice" 2006-2010: Chair of Commission 5 Working Group 5.2 "Reference Frame in Practice". 2008-2009: Incoming chair of FIG Commission 5 Since 2011: Chair of FIG Commission 5

ML 05 15



Nomination Template Vice President (2015-2018)

Other activities in FIG	<p>Initiated and responsible for the FIG Technical Seminars on Reference Frame in Practice. We have, together with IAG, UN-GGIM-AP WG 1 and UNOOSA, organised three workshops during 2012 and 2013.</p> <p>Responsible for the technical programs of FIG Commission 5 for Working Weeks and Regional Conferences since many years. Assisted also previous FIG Commission 5 Chairs with the development of technical programs for FIG Working Weeks and Congresses.</p> <p>Responsible for FIG Commission 5 Newsletter 1998-2002 and since 2010. I have also assisted with preparation of numerous Commission 5 reports, newsletters, notices, documents since 1998.</p> <p>Authored numerous technical papers and have presented at various FIG events or symposiums. I have missed only very few FIG events since 1998 and presented at most of them.</p> <p>Chaired numerous technical sessions or open forums at FIG events or symposiums</p> <p>The FIG Liaison to United Nations Office for Outer Space Affairs since 2010. Representing FIG at the annual ICG-meetings.</p> <p>Invited speaker at some occasions as IGS workshop and DVW seminar.</p>
-------------------------	---

ML 05 15



Nomination Template Vice President (2015-2018)

Nominee's statement

My motivation to be FIG Vice President:

FIG has made tremendous progress over last decades by augmenting its global profile in both the established and emerging countries involved with FIG. FIG has become a very important and respected organisation at different levels within survey and mapping agencies, ranging from the decision makers or managers to the operational or field surveyor. FIG is recognized as a significant international organisation to UN based groups such as UN-GGIM, UN-Habitat and UN-OOSA as we assist with the implementation of the technical survey aspects of UN humanitarian initiatives. FIG is known by other technical or similar international associations such as e.g. the International Association of Geodesy, as an integral link between the scientific or theoretical community and the surveyor. Subsequently, FIG plays a vital role in the professional development of surveyors and their networks.

To achieve this modern day profile, the existing cooperative arrangements between FIG and the above mentioned bodies must continue to be productive and successful; consequently I very much would like to enhance these relationships even more. Our role in these affiliations can and should also be developed. The trust and respect that has been established between FIG and our sister agencies are values that I can sustain and improve. Although, it is important that we continue to liaise with our sister organisations, we also need to be aware of what is achievable, have a clear objective, and ensure we use our resources wisely to obtain maximum results.

I would very much like to be involved in the next FIG journey as I am certain that I can contribute to its ongoing success. I strongly believe that FIG has an important role to play at the 'grass root' and operational level for the surveyor, especially in the emerging countries of the world. FIG has an important role and a responsibility to reach out to surveyors so as to facilitate the sharing of knowledge, the education and promotion of the surveying discipline. This can be achieved in many different ways such as meeting and discussing issues 'face to face', producing technical guidelines/fact sheets/documents, facilitating forums or utilising digital technology and communications to disseminate information. I am confident that I am capable of leading and/or facilitating the delivery of such services as well as encouraging and supporting fellow colleagues.

Also, I want the FIG-logo or badge to be more visual to our

12054



Nomination Template Vice President (2015-2018)

	<p>members, surveyors and the spatial industry. We should never undervalue the presence of the FIG logo thus we should endeavour to be more involved in regional/national/local events either by ourselves or in co-operation within other global/regional /national survey associations.</p> <p>Over the years, FIG Commission 5 (and others) has established good support from Sponsors on all levels. The Sponsors have allowed us to achieve what we want to achieve. At the same time we have tried to include them in our initiatives to create a win-win-situation. I am of the opinion that FIG has to improve its relationship with our Corporate Members so as to motivate them to continue the provision of e.g. financial support, which will ultimately benefit FIG and themselves.</p>
<p>What I can offer in support of FIG's aims and objectives:</p>	<p>Even though I have been involved with FIG for over 15 years, I still have the motivation and a lot more to offer to FIG. Being a member of Council would be the next logical step and is a main driver for me to continue my involvement.</p> <p>I have a long and "active" history within FIG Commission 5. I have a very good reputation within the technical Commissions and other associations within this field. I am well known and I am considered as a "doer" amongst my peers.</p> <p>I have a reputation within the Commission and FIG as a trustful, strategic, reliable, and active member. I also have extensive knowledge and practical experience with Commissions' field of interest, aware of emerging issues, and also the workings of ACCO.</p> <p>Basically, I can offer myself to FIG, meaning that I would dedicate time and effort to fulfil the aims and objectives of FIG. I believe that the network of people that I have built up over the years, within and outside FIG will enable me to fulfil my hopes with FIG as well as help FIG as an entity.</p> <p>I have very strong support from my employer, Lantmäteriet, who has agreed to provide me with time and financial assistance to perform the role and duties of FIG Vice President if I was to be successful.</p>
<p>My key skills for the Vice Presidency and FIG Council:</p>	<p>Organised, Strategic, Reliable, Engaging and social able personality</p>
<p>Any other supporting information:</p>	

Mc 05 5



Nomination Template Vice President (2015-2018)

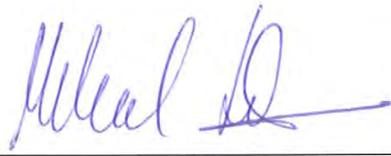
Nominator	
Name of Member Association:	The Swedish professionals for the built environment (Samhällsbyggarna)
Name of Proposer:	Lars Jansson
Position in Association	President
Contact address:	Lantmäteriet 801 82 Gävle Sweden
Email address	Lars.jansson@lm.se
Proposer's Statement	
Why the Association wants to propose the Nominee	Mikael Lilje is a well-known professional with a very good reputation, in Sweden as well as internationally, for his skills. His personal qualities are such that we want to see in a leader. These characteristics make him a role model in our society. Together with his international experience and his work in FIG, Commission 5, this makes him extremely suitable as vice president in FIG. He will contribute with strategic thinking as well as good communication with members and other organizations. Mikael is known as a doer so he will be a guarantor of an active Council.
What support (financial, administrative and others) can the Association provide to the Nominee if elected Vice President	The Swedish professionals of the built environment (Samhällsbyggarna) can provide Mikael with some administrative support from our council. More significant is the support he will get through an agreement between our association and his employer, Lantmäteriet. According to the attached letter from Lantmäteriet they will cover all his expenses and working time for serving as Vice President.
Any other supporting information:	See attached letter from Lantmäteriet.

MC 05 15



**Nomination Template
Vice President
(2015-2018)**

Name of Seconder:	Olof Johansson
Position in Association	Executive Director
Contact address:	Samhällsbyggarna Box 16132 103 23 Stockholm Sweden
Email address	Olof.johansson@samhallsbyggarna.org

Signed I hereby certify the above is true and correct I am available for the election as Vice President for the remaining two year term (2015 – 2016) if vacancy arises.	
Nominee	
Proposer:	
Seconder:	
Date:	

* *Nominee is required to cancel whichever is not appropriate; and
Nominee is requested to initial every page of the nomination template*



Nomination Template Vice President (2015-2018)

Clarifying Notes:	<ul style="list-style-type: none">• The Nominator (Proposer and Seconder) must be principal officers of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)• The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association• Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office• Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives• Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement
-------------------	---

Handwritten signature in blue ink

2014-01-28

Dnr 100-2014/449

International Federation of
Surveyors, FIG
Kalvebod Brygge 31-33
DK- 1780 Copenhagen V
Denmark

Mikael Lilje for Vice President in FIG

Mikael Lilje is employed at Lantmäteriet as Manager of the Geodetic Research Division. As part of his work he is also very much involved in several activities not only nationally but also internationally. Among them is being involved in FIG which he has been since 1998 with the support of Lantmäteriet. Currently he is Chairman of Commission 5 in FIG.

Mikael has now expressed his ambition to be part of the FIG Council by being a candidate for Vice President. Lantmäteriet strongly supports his candidacy because we see the importance of FIG and appreciate the work FIG is doing for the Profession all around the world. We know that Mikael, as a member of the FIG Council, will be a guarantor of, and contributor to, continued good work. His knowledge and understanding of the different aspects of the Surveying profession stretch far beyond his own field of Geodesy, which we believe makes him a very strong candidate for Vice President.

Mikael is nominated for Vice President by The Swedish Professionals for the Built Environment (Samhällsbyggarna). In agreement with this association, Lantmäteriet hereby guarantees that we will give Mikael all the support he needs to carry out the assignment as Vice President. Thus, we will cover the time he will have for the FIG duties and the associated costs not covered by FIG..

Best regards



Bengt Kjellson

Director General

Bengt Kjellson

Lantmäteriet 801 82 Gävle Sweden

Besök: Lantmäterigatan 2 Tel. växel: 0771-63 63 63

E-post: bengt.kjellson@lm.se Internet: www.lantmateriet.se

International Federation of Surveyors,
FIG
Kalvebod Brygge 31-33
DK- 1780 Copenhagen V
Denmark

Stockholm 27 January 2013

Mikael Lilje for Vice President in FIG

Mikael Lilje is a member of The Swedish Professionals for the Built Environment (Samhällsbyggarna). Among his many assignments is currently also Chair of Commission 5 in FIG. Mikael has now expressed his ambition to candidate to vice president of FIG.

Samhällsbyggarna strongly supports this and nominates him for vice president of FIG. Mikael is a well-known professional with a very good reputation, in Sweden as well as internationally, for his skills. His personal qualities are such that we want to see in a leader. These characteristics make him a role model in our society. Together with his national work experiences, other international experience as well as his work in FIG since 1998 makes him extremely suitable as vice president in FIG. He will contribute with strategic thinking as well as good communication with members and other organizations. Mikael is known as a doer so he will be a guarantor of an active Council. Because of this The Swedish Professionals for the Built Society (Samhällsbyggarna) nominates him for Vice President in FIG and we would strongly support him in that work.

Our association can give Mikael administrative and professional support but more important is probably that his employer, Lantmäteriet, will provide him with all the time and financial assistance he needs to perform his FIG duties.

Kind regards



Lars Jansson
Chairman



Olof Johansson
Executive Director



**Nomination Template
Vice President
(2015-2018)**

Nominee:	
Name:	Prof. Dr.-Ing. Rudolf STAIGER 
Member Association:	DVW e.V. - Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement
Country:	Germany
Contact address:	University of Applied Sciences Bochum Fachbereich Geodäsie Lennershofstrasse 140 44 801 Bochum D-Germany
Email address:	rudolf.staiger@hs-bochum.de
Age:	57
Educational background & Qualifications:	<p><u>Degrees:</u> Prof. Dr.-Ing., Diplom-Ingenieur (TU) (geodesy, University of Karlsruhe, Germany), Bachelor of Business Administration (BBA, OEKREAL, Zuerich, Switzerland)</p> <p><u>Educational background</u> 1976-1982: studies of geodesy (University Karlsruhe and École Nationale des Sciences Géographiques, IGN, Paris, France) 1983-1987 : Scientific Assistant, Geodetic Institute, University Karlsruhe</p>
Field of surveying discipline	Surveying Instruments, Calibration, Geodetic Metrology,



Nomination Template Vice President (2015-2018)

	Close Range Coordinate Measurements Laser Tracking, Terrestrial Laser Scanning
History of Employment:	Since 2005: Professor for Surveying Engineering, University of Applied Sciences Bochum, Germany
- Current position	
- Previous position(s)	1983-1987 : Scientific Assistant, Geodetic Institute, University Karlsruhe 1988-1994: Systems Engineer, Product Manager and Department Manager for Industrial Metrology KERN, Aarau, CH (later LEICA-GEOSYSTEMS) 1994-2005: Professor for Surveying Engineering, University of Essen, Germany

Nominee:	
Position of Trust:	Since 2009: Vice-President of the University of Applied Sciences Bochum for Research & Transfer
- Current position(s)	
- Previous position(s)	2007- 2010: Member of ISO-Committee TC 172 Sc 6 Geodetic Instruments Since 2003: Member of the DIN-Kommission 17123-“Geodätische Instrumente” 2002-2010: Chair of the Commission3 of DVW (National equivalent to FIG-Commission 5)
FIG Positions/Responsibilities:	Since 2011 Vice President of FIG (full 4-years-term)
- Current position(s)/ responsibilities	
- Previous position(s)/	2007-2010: Chair of Commission 5 2003-2006: Chair of the working group 5.1



Nomination Template Vice President (2015-2018)

responsibilities	
Other activities in FIG	2009-2010: Chief Editor for Peer Review System Sydney 2010-Congress 2002-2011: National Delegate for Commission 5



Nomination Template
Vice President
(2015-2018)

Nominee's statement	
My motivation to be FIG Vice President:	FIG is the only organization which is representing Surveying and Geodesy as a profession worldwide. In the times of "globalization" this role of representing our profession is extremely important. Therefore FIG needs a professional, experienced and active Council in order to fulfill the mentioned task.
What I can offer in support of FIG's aims and objectives:	<p>I' am active in FIG since almost 14 years. As Chair of one of the technical Commissions and as Chief Editor of the Peer Review for Sydney 2010 I know our organization very well.</p> <p>Additionally I offer strong experience</p> <ul style="list-style-type: none"> - in academic teaching & research (18 years) - in industrial work (6 years with a leading manufacturer of surveying equipment) - in organizing events like Seminars (f. e. Terrestrial Laser Scanning) - in bringing young people into our profession - with my very successful Commission-work in FIG - with my very successful work as Vice President of FIG - with my broad knowledge of our profession
My key skills for the Vice Presidency and FIG Council:	<p>Languages: German (native language) French (Fluent) English (very good)</p> <p>Experience of work in NGOs (like DVW, ISO, etc.)</p> <p>Experience of Leadership from public and private employment.</p> <p>Ability to listen and to find a compromise</p>
Any other supporting information:	./.



Nomination Template Vice President (2015-2018)

Nominator	
Name of Member Association:	DVW e.V. - Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement
Name of Proposer:	Prof. Dr.-Ing. Karl-Friedrich Thoene
Position in Association	President of DVW
Contact address:	DVW Office c/o Dipl.-Ing. Christiane Salbach Feierabendstrasse 12 D-79235 Vogtsburg-Oberrotweil Germany
Email address	karl-friedrich.thoene@dvw.de
Proposer's Statement	
Why the Association wants to propose the Nominee	<p>Rudolf Staiger is nationally and internationally well reputed as a high qualified expert not only in the field of surveying instruments. Moreover, Staiger has gained a strong FIG experience as a Vice-President in the period 2010-2014 and at least as Chair of Commission 5, which was running in parallel to his chairmanship of the DVW Study Group "Measurement Methods and Systems" on both a scientific and practical level.</p> <p>His management skills are fundamental for the internal and external perception of FIG.</p> <p>DVW appreciates very much Staiger`s capability of promoting communication between the FIG membership institutions and the experts standing behind the national associations.</p> <p>As a promotion strategy for our profession Staiger accentuates the close connection between global challenges and the expertise of the surveying branch.</p>
What support (financial, administrative and others) can the Association provide to the Nominee if elected Vice President	DVW will offer any necessary personal, financial and institutional support to the nominee as we have done in the past.



Nomination Template Vice President (2015-2018)

Any other supporting information:	./.
Name of Seconder:	Dipl.-Ing. Eberhard Ziem
Position in Association	DVW CFO
Contact address:	DVW-Office as mentioned above
Email address	eberhard.ziem@dvw.de

Signed I hereby certify the above is true and correct I am available/not available* for the election as Vice President for the remaining two year term (2015 – 2016) if vacancy arises.	
Nominee	<i>Rudolf Staiger</i>
Proposer:	<i>Karl-Friedrich Thöne</i>
Seconder:	<i>Eberhard Ziem</i>
Date:	January 30 th , 2014

* Nominee is required to cancel whichever is not appropriate; and
Nominee is requested to initial every page of the nomination template

Clarifying Notes:	<ul style="list-style-type: none">The Nominator (Proposer and Seconder) must be principal officers
-------------------	--



Nomination Template Vice President (2015-2018)

	<p>of the FIG Member Association (by principal officers, it is construed as President or Chairperson, Deputy or Vice President/Chairperson, Secretary General or Chief Executive Officer or equivalent position)</p> <ul style="list-style-type: none">• The Nomination Template must be accompanied by a letter of support from either the President or the Principal Officer of the nominating FIG Member Association• Nominating FIG Member Association should ascertain the availability of the nominee over the duration of the term of office• Nominee should preferably have prior or current responsibilities within and working knowledge of FIG, its activities, aims and objectives• Nominee and Nominator are requested to pay attention to the Nominee's Statement and the Proposer's Statement
--	---

DVW
Prof. Karl-Friedrich Thöne • c/o TMLFUN • Hallesche Straße 16 • 99085 Erfurt

Ms. Louise Friis-Hansen
FIG Manager

FIG - International Federation of Surveyors
Kalvebod Brygge 31-33
DK-1780 Copenhagen V

Kontakt

Prof. Dr.-Ing. Karl-Friedrich Thöne
DVW-Präsident
c/o Thüringer Ministerium für
Landwirtschaft, Forsten, Umwelt
und Naturschutz
Hallesche Str. 16
99085 Erfurt
Tel. +49 (0)361 3799-701
Fax +49 (0)361 3799-702
karl-friedrich.thoene@dvw.de

30. January 2014

Nomination template of DVW for Prof. Dr. Rudolf Staiger as FIG Vice-President 2015-2018

Distinguished FIG Manager Louise Friis-Hansen,
Dear Louise,

Attached please find our official nomination template for Prof. Dr. Rudolf Staiger as FIG Vice-President 2015-2018.

I hereby declare the official support of DVW for this candidateship and in case of his election during the next period.

I would appreciate a short confirmation of my announcement.

Yours Sincerely



GESCHÄFTSSTELLE
Dipl.-Ing. Christiane Salbach
Feierabendstraße 12
79235 Vogtsburg
Tel. +49 (0)7662 949-287
Fax +49 (0)7662 949-288
christiane.salbach@dvw.de
www.dvw.de

PRÄSIDIUM
Prof. Dr.-Ing. Karl-Friedrich Thöne
Prof. Dr.-Ing. Hansjörg Kutterer
Dipl.-Ing. Christof Rek
Dr.-Ing. Jens Riecken
Dipl.-Ing. Susanne Kleemann
Prof. Dr.-Ing. Jürgen Müller
Dipl.-Ing. Eberhard Ziem

Summary of the bids for 2017

The following clarification is based on information given by the bid documents. No site inspections were made to any of the proposed cities or conference venues.

Below is a summarized comparison from given bids. All variables were submitted in the original bid for proposals. This document is a summary of each country's bid in spreadsheet format for easier comparison and is meant to be a fact based document.

The second document attached is my subjective evaluation of the below variables with a numerical subjective scoring using a 5 point score. The scores are based on how well each bid fulfills each variable criteria mentioned in the left column.

As this is the first year we will be using these criteria and scoring system we hope that it will be useful this first year and can be improved in the coming years.

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
<p>1. Rotation of the conference: Previous and planned conferences: Congresses: 2014: Asia and the Pacific (Malaysia); 2010: Asia and the Pacific (Australia); 2006: Europe (Germany), 2002: North America (USA); 1998: Europe (United Kingdom); 1994: Asia and the Pacific (Australia) Working Weeks: 2016: Asia and the Pacific (New Zealand); 2015: Europe (Bulgaria); 2013: Africa (Nigeria); 2012: Europe (Italy); 2011: Africa/Arab countries (Morocco); 2009: Asia/Middle East (Israel); 2008: Europe (Sweden); 2007: Asia (Hong Kong SAR, China); 2005 Africa/Arab countries (Egypt); 2004: Europe (Greece); 2003: Europe (France); 2001: Asia (Republic of Korea); 2000. Europe: Czech Republic.</p>	Europe (2015, 2012, 2008)	Asia/Pacific (2016, 2014, 2010)	Asia/Pacific (2016, 2014, 2010)
<p>2. Country hosting of earlier FIG events</p>	XIX International FIG Congress 1990 10 - 19 June 1990, Helsinki, Finland 42nd FIG Permanent Committee	There has not been a FIG Conference or General Assembly in Nepal in the past. NICS also applied in 2012 for the	FIG Regional Conference 2009 VCGR has collaborated with Asian Remote Sensing Association to

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
Experience	Meeting 1975 16 - 18 June 1975, Helsinki, Finland	Working Week 2015 NICS has shown interest in other FIG events, e.g. commission events.	organize two conferences on “Asian Remote Sensing” in 2005 and 2010.
3. Member association Its activeness, Commitment to FIG and to FIG 2017 Execution ability for local association	<ul style="list-style-type: none"> - Finnish Association of Geodetic and Land Surveyors (MIL) Member Association, member of FIG since 1956. # of members 785. - Finnish Association of Surveyors (MAKLI) Member Association. Member of FIG since 2001. # of members: 480 Partner: National Land Survey of Finland (NLS) Affiliate member Members not in arrears	Nepal Institution of Chartered Surveyors (NICS), established in 2008. Member of FIG since 2010. # of members: 26 There are about 5000 surveyors practicing in government and private sector. The Nepal Surveyors Society was a member of FIG1994-2000. Nepal has hosted the 23 rd Asian Conference on Remote Sensing (ACRS) in 2002 Member not in arrears	The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR. Member of FIG since 1994. # of members: 300 Working Week will be part of the overall vision of VGCR: To propagate professional knowledge and expertise To upgrade competence of its members To awake people on the role and contribution of the profession To the socio-economic development Member not in arrears
4. Supporting organisations Local support to the Working Week Governmental support Financial support General support	The invitation has the full support of both national and local authorities, particularly so as Finland is celebrating its 100 years of independence that year. National Land Survey of Finland (NLS) will provide necessary support for staffing and practical arrangements of the FIG WW. Preliminary discussions with the Ministry of Agriculture and Forestry to get financial support	Support to the event from: Survey Department, the National Mapping Organization of the country under the Ministry of Land Reform and Management, Land Management Training Center (also under the Ministry of Land Reform and Management), Kathmandu University (School of Engineering), Tribhuwan University (Institute of Engineering),	Government funding: No direct funding but great discount to use the Vietnam National Convention Center (venue proposed for FIG Working Week 2017 Hanoi Opera House (to organize the social program) Government support: - Transportation Clearance for Conference VIP, - Visa procedures: support quickly for conference delegates &

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	<p>The Aalto University (FIG Member) has agreed to encourage students to sign up for assisting tasks during the WW and also give the student volunteers credit for their contributions and participation in the WW.</p> <p>Support from City of Helsinki who has a very positive attitude towards international conferences:</p> <p>City reception (no of guests limited to 1500)</p> <p>Travel cards – free public transport for congress over 1,000 participants</p> <p>Site visit organized by Helsinki Convention Bureau</p> <p>Promotional material</p> <p>Help with promotional activities in previous FIG WW's</p> <p>Welcome desk at the airport</p> <p>Info desk on Helsinki at congress venue</p>	<p>Nepal Surveyors' Association, Nepal (has more than 2000 members)</p> <p>The International Centre for Integrated Mountain Development (ICIMOD)</p> <p>Remote Sensing and Photogrammetric Society (NRSPS), and</p> <p>Nepal GIS Society (NEGISS)</p>	<p>accompanying persons</p> <ul style="list-style-type: none"> - Security check & public orders during FIG working week - Ministry of Natural Resources & Environment will consider to support the Working Week
<p>5. Host city</p> <p>Characteristics and interest from congress programme point of view</p> <p>Host city attractiveness</p> <p>Host city offerings</p>	<p>Helsinki is the capital of Finland with 600,000 residents. A safe, secure and clean city with high standards of education and technology</p> <p>The city reflects nature, sea, design and architecture Helsinki is large enough to provide all the services that a major congress may require, yet small enough to make delegates feel at</p>	<p>Kathmandu is the largest metropolitan city of the country and is the nerve centre of the country's economy. The city has almost 1 mio inhabitants. City is nearly 2000 years old.</p> <p>Average temperature in April/May is 12-28 °C</p>	<p>Hanoi is the capital of Vietnam and has more than 3 mio inhabitants. The International governmental event 25th APEC summit will be held in Hanoi 2017 and therefore the city infrastructure and hospitality's facilities & services will be newly upgraded by 2017.</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	<p>home during their stay.</p> <p>New York Times: Helsinki #2 on the 45 Pleaces to go list in 2012</p> <p>CNN: Helsinki # 7 on the Hottest destination list in 2013</p> <p>Helsinki hosts an average of 100 international conventions each year attended by more than 20,000 delegates and 1,600 international meetings with nearly 100,000 delegates. Reputation as a popular congress destination</p> <p>Over 450 years of history and famous for architecture and design.</p> <p>The days are at their longest in the second half of June when the sun stays above the horizon for 19 hours. Intermediate climate.</p>		
<p>6. Venue</p> <p>Price/affordability</p> <p>Location of venue</p> <p>Internet availability</p> <p>Suitability of rooms, size of venue, structure and layout of the venue</p> <p>Catering</p> <p>Value for money</p> <p>Hotels nearby</p> <p>Facilities for exhibition</p>	<p>Messukeskus Helsinki, Expo and Convention Centre.</p> <ul style="list-style-type: none"> - One of the leading congress centres in Northern Europe and the largest in Finland - Owned by the Finnish Fair Corporation - Total area 113,700 m², gross exhibition area 57,700 m² - 40 meeting rooms, 13 conference rooms in the halls - Largest auditorium 4,373 seats - A four-star hotel with 244 rooms, 4 	<p>1. Birendra International Convention center (BICC) located in the center of Kathmandu Valley close to the Tribhuvan International Airport it has a capacity of accommodating 1,046 persons with 160 desk seats in the front, 240 theatre seats in the back and an additional 150 observer seats.</p> <p>In 2002 23rd Asian Conference on Remote Sensing (ACRS) was organized in the center. The center should meet all requirements to</p>	<p>Proposed venue: The National Convention Center, VCNN (also venue for FIG Regional Conference in 2009).</p> <p>Many various hotels close to the venue</p> <p>VCNN is now an independent organisation with account, private seal and under the control of the Governmental Office. VNCN is used for most important assembly meetings and conferences of the communist party of Vietnam,</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	<p>saunas and a gym</p> <ul style="list-style-type: none"> - Situated 4 km from the city centre, 16 km from the airport - Easy access to and from the city centre by local trains (5 min) - Member of AIPC, ICCA and UFI - Certificates ISO 9001:2000 and ISO 14001:2004 <p>All FIG functions are allocated compactly at the Conference Centre. The entrance of the Conference Centre is situated next to the Holiday Inn Hotel with indoor connection to the hotel</p> <p>1600 m² for exhibition</p> <p>Proposal of rooms for WW given</p> <p>Free wi-fi</p> <p>Competitive rent fee incl it facilities.</p>	<p>organize FIG Events and has sophisticated audio, video, lighting, communications, catering, ventilation and parking facilities.</p> <p>2. Loyalty Crown Plaza – 5 star hotel and should have sufficient facilities to organize international event like FIG Working Week</p>	<p>Government, other meetings and conferences.</p> <p>VNCC has a large hall, nearly 30 other halls and meeting rooms which can hold from 120 to more than 3,500 people. Meeting rooms can be made smaller.</p> <p>Exhibition area over 12,000 m²</p> <p>Modern lighting and sound equipment with digital technology</p> <p>Several catering possibilities</p>
<p>7. Accessibility</p> <p>Flight connections</p> <p>Several access possibilities</p> <p>Security</p> <p>Visa issues</p> <p>Air fare to destination</p>	<p>There are excellent flight connections from many parts of the world especially Asia. More than 180 international landings every day – the second busiest airport in Northern Europe. Served by around 40 International airlines. Over 80 direct flights from Asia weekly. Finnair, the national carrier is awarded the most punctual airline in the world. Helsinki airport is 20 km outside city centre. Regular airport bus running every 20 min. From 2015 there will be</p>	<p>There are several airlines flying to Kathmandu, but number of flights is lower than to many other venues which could impact the travel time and air fare.</p>	<p>Noi Bai International Airport 45 km/28 miles from city center of Hanoi. Travel time 30-45 min. A number of Vietnamese and international airlines operate from Hanoi Noi Bai Airport</p> <p>Shuttle busses from airport will be organized.</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	a train connection running every 10 minutes Helsinki easy to reach from Russia by train. Ferries from Stockholm		
8. Safety and security Political stability Airport safety City safety – is it safe to move around? Political stability in country (rating must be 3 or higher)	In 2011 the Mercer-survey separately identified cities with the highest personal safety ranking based on internal stability, crime levels, law enforcement effectiveness and the host country’s international relations. Helsinki ranked as #2. Finland is ranked #9 in the Institute for Economics and Peace annual Global Peace Index (GPI (2012) Easy to travel around	Nepal is described being the safest destination for international visitors in South Asia	Hanoi is known for a city of peace
Proposed dates Must meet FIG requirements Following FIG statutes Practical dates Availability of venue Other conferences at same time	1: Saturday 27 May – Saturday 3 June 2017 2: Saturday 3 June – Saturday 10 June 2017 3: Saturday 10 June – Saturday 17 June 2017 All the above dates have been preliminary booked at Messukeskus Helsinki. Preferred option locally: 3-10 June 2017 Even though FIG Working Week normally takes place from Friday-Friday LOC suggest Saturday-Saturday as this would allow the City of Helsinki to host a Welcome Reception on	Second Week of April 2017	1: 19-26 May 2017 2: 14-21 April 2017 3: 2-9 June 2017 Option 1 is recommended as the time is not in a peak season of tourism so price for accommodation would be cheaper than usual. Option 3 in beginning of summer vacation. Option 2 is good choice if option 1 is not available. Disadvantage of option 2 is the time before the independent day and labor day that are normally holidays for Vietnamese and will increase demand for accommodation.

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	Monday.		
<p>9. Technical programme</p> <p>Coverage of all FIG Commissions, Potential partners Originality Special ideas</p>	<p>The two associations will provide the necessary contribution to the technical program. Normal FIG program to be planned with FIG.</p>	<p>Activities will include: opening ceremony, technical conferences, meetings social tours, exhibitions, social events, closing ceremony. The organising committee will make best effort to bring the President or the Prime Minister of the country as the Chief Guest of the opening ceremony.</p>	<p>Opening performance with dancers. VCGR initiatives: The combination of excursion tour (post tours)with technical tour Propose to sign a multilateral memorandum among FIG's members to exchange the education program, student, and researcher for studying, researching and teaching VCGR has several proposals for specific topics for the technical program and call for papers Opening ceremony with dancing performance. Participants: officials from Central Government at high level (at least Vice Minister) VUSTA Leader, Hanoi Authority's Leader, Chief Representative of World Bank Vietnam, UNDP Vietnam</p>
<p>10. Technical tours</p> <p>Coverage of all FIG Commissions Originality Ideas proposed</p>	<p>The National Land Survey of Finland The Finnish Geodetic Institute Finnish Environment Institute City of Helsinki – Technical services The Finnish Transport Agency</p>	<p>No detailed proposals made in the bid.</p>	<p>Post tour programs incl tech. program elements The world heritage Phong Nha Ke Bang National Park (2 days 1 night) Cat Ba Island & Cam Pha Mines Tour (3 days 2 nights) Xuan Thuy National Park (2 days 1 night) Moc chau Highland Tour (2 days 1 night)</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
			Vietnam world Heritages Road Tour (6 days 5 nights)
<p>11. Social programme</p> <p>Attractiveness and variety Proposals for dinners Attractiveness of offered dinners Proposals for tours Is the program following the overall FIG concept</p>	<p>City of Helsinki to host a Welcome Reception on Monday. Cultural evening/Foundation dinner: Finnish National Opera in the heart of the city Gala dinner: Finlandia Hall in the centre of the city with the unique architecture of Alvar Aalto</p> <p>Social tours suggestions: Old wooden town of Poorvo (full day) Historical Suomenlinna (3-5 hours) Culture on the Shores of Lake Tuusula (half day) Helsinki Design Walk (3-5 hours) Finnish Nature Centre Haltia (half Day) (dinner proposals following the FIG concept)</p>	<p>Social tour in Kathmandu approximately €36 Farewell banquet: €22 Tours to Site tour to the most beautiful city of the country, Pokhara, and the birth place of lord Buddha, Lumbini, can be arranged. Interested participant will be requested to register before a week of the event. The cost will depend upon the number of participants. (dinner proposals not following the FIG concept)</p>	<p>Welcome reception dinner (included) – buffet styled dinner with authentic Vietnamese food, a recoll of traditional culinary culture with the theme of “village market” FIG Foundation dinner: EUR 120 – set in the special atmosphere of Hanoi 1930’s recalling the previous time of Indochina culture. Traditional Music Concert – Vietnamese folk songs and contemporary international chamber music, Hanoi Opera Houlse Farewell party (included) – partly organized with the theme from a story of the Legend of Dragon and Fairy – the story about the origin of the Vietnamese people – audiences will be continuously amazed with Vietnam’s culture. Vvenue: National Convention centre. Pre-tour: Ha-long Bay tour (2 days, 1 night) Daily city tour Van phuc silk village & tay Phuong pagoda Hanoi cultural & cooking class tour Hanoi old quarter cyclo ride & shopping tour, water puppet show.</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
			Several full day and half day social (dinner proposals not following the FIG concept)
<p>12. Attendance</p> <p>Expectation of international, regional and local attendance Realistic number of international and national participants</p>	1000 international and local (1100 incl complimentary registrations)	<p>Int. part with full reg: 500 Accompanying: 50 Int. students: 100 Local participants: 500 2% of registration fee will cover complimentary registrations.</p>	<p>800 delegates, incl. 600 international and 200 local delegates 100 students 100 accompanying persons</p>
<p>13. Accommodation</p> <p>Hotel costs Value for money Variation in hotel offers Closeness to proposed venue Transportation to venue</p>	<p>About 80 hotels and almost 12,000 rooms ranging from first-class hotels to hostels for those on tighter budgets. Most hotels are within 1.5 km in the city centre with easy access to Messukeskus Helsinki. Holiday Inn Hotel connected to the venue and Sokos Hotel Pasila only ten-minute walk away.</p> <p>Many hotels have been granted the Swan eco-label.</p> <p>No official hotel ratings in Finland. Ratings provided are only approximate: 5 star: rates €230-400 4 star: rates € 120-280 3 star: rates €90-190 2 star and hostels: €35-70</p> <p>Preliminary room reservations have been made in different price categories for all proposed time</p>	<p>Kathmandu has a number of international class hotels. Soaltee Holiday Inn Crown Plaza, Hotel Yak & Yeti, Hotel Everest, Hotel Annapurna, Hotel Radisson, Hotel Hyatt and Hotel Le Meridian are the five star hotels in Kathmandu. The other hotels are Hotel Dwarikas, Summit Hotel, Shanker Hotel, among others. One can also find cheap hotels in the city with affordable accommodation and safety. No info on hotel prices.</p>	<p>Several hotels in the conference area. 3-4 star rooms around €60. 5 star around € 100- 150.</p> <p>Tentative hotel partners:</p> <ul style="list-style-type: none"> - Grand Plaza – 5 star - Crowne Plaza – 5 star - Daewoo Hotel – 5 star - Bao Son Hotel – 4 star - Riverside Hanoi Hotel – 4 star <p>Shuttle buses between hotels and the conference venue</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	periods		
<p>14. Finances</p> <p>Estimate of surplus and financial risks</p> <p>Realistic fees proposed</p> <p>Fees in an acceptable price range</p> <p>Difference between international and national fees</p> <p>Realistic budget</p> <p>Estimated revenue</p>	<p>Proposed fees:</p> <p>Early bird: €550</p> <p>Normal: €650</p> <p>Late: €750</p> <p>(National and International)</p> <p>Cultural/Finnish evening: €100</p> <p>Gala dinner: €120</p> <p>Budget based on 1000 paying participants</p> <p>Thorough draft budget included in bid</p> <p>Draft budget shows a balance of € 80,100.</p> <p>Venue fee based on necessary number of session rooms, exhibition and catering.</p>	<p>Proposed fees International part.:</p> <p>Early Bird</p> <p>Delegate: €435</p> <p>Student: €145</p> <p>Accompanying person: €180</p> <p>Late:</p> <p>Delegate: €580</p> <p>Student: €180</p> <p>Accompanying person: €220</p> <p>Nepalese registrations:</p> <p>Early Bird:</p> <p>Delegate: € 75</p> <p>Student: €22</p> <p>Accompanying persons: €19</p> <p>Late reg:</p> <p>Delegate: €94</p> <p>Student: €38</p> <p>Accompanying persons: €22</p> <p>Delegate + student fee Include admission to GA technical sessions, exhibition, welcome reception, coffee breaks and conference stationaries</p> <p>Social tour in Kathmandu approximately €36</p> <p>NICS will expore sponsorship or financial support from the government organisations in the country.</p> <p>No info on prices on: lunches, dinners, hotels</p> <p>No budget info. Fee will include €10 for</p>	<p>Proposed fees International part.:</p> <p>Meeting package (3 day conference, lunch teabreaks, shuttle bus)</p> <p>Early bird: €400 (student €100)</p> <p>Normal reg: €500</p> <p>Late reg: €595</p> <p>Full package (as above and entry to 3 social programs: Welcome gala dinner, Music Concert and Farewll party</p> <p>Early bird: €595</p> <p>Normal reg: €696</p> <p>Late: €795</p> <p>Acc person €380</p> <p>Local/Vietnamese reg: €295</p> <p>Budget based on 1000 participants.</p> <p>Thorough draft budget included in bid.</p> <p>The draft budget shows a balance of €6000</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
		FIG Foundation	
15. Sponsorship Estimate sponsorship and exhibition income Proposed income How realistic is proposed income Local sponsor offerings Sponsor interest to conference	Proposed exhibition plan in bid Proposed income from sponsors and exhibitors: €157,000	No detailed proposals made in the bid.	Platinum sponsors € 30,000 Gold Sponsors € 20,000 Silver Sponsors € 10,000 Proposed exhibition plan in bid Proposed income from sponsors and exhibitors: €205,650 Tentative official Transporter: Vietnam Airlines Mai Linh Taxi Group Hanoi Taxi Group - Complimentary Air-ticket for organisers Discount rate for conference participants
16. Why host Reason for hosting	Finland is celebrating its 100 years of independence in 2017. The 100 th anniversary of Finnish independence in 2017 adds an extra spark in the commitment but generally the Finnish surveying and GIS community has a lot to offer for the members of FIG.	Never earlier FIG Conference in South Asia.	The association is celebrating its 30 th anniversary.
17. Objectives and outcomes Thought through why conference should be held at destination Difference to other destinations Short term outcome Long term outcome	Both associations would like to raise the profile and increase awareness of the surveying profession and boost the profession internationally. The Aalto University (FIG Member) has agreed to encourage students to sign	No detailed information in bid material	VCGR Objectives: - to propagate the important role and significant means of spatial data management to e-government for all countries – especially for Vietnam - to implement the conclusion of UN-GGIM issued by UN committee of

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	up for assisting tasks during the WW and also give the student volunteers credit for their contributions and participation in the WW.		Experts on Global Geospatial Information Management, February 2013 in Qatar - to create the opened forum to exchange and share the experiences from the world's professionals, surveyors & experts in the field to the theme of Spatial Enablement of governments and societies and issues of spatial data infrastructure - lesson – learning from the global community to organize and manage spatial data in order to address these issues: land governance, management of natural resources, protection of environment, coping with climate changes, and implementation of millennium development goals
<p>18. Suggested theme</p> <p>Thought of possible theme that fits to local/regional situation</p>	Taking into account the rapidly developing and changing world around us LOC will not tie their hands prematurely on a suggested theme	No detailed information in bid material	<p>“For Spatial Enablement of Each Citizen”.</p> <p>Following the first high level forum on global spatial data management in 2011 and the International Symposium on Spatially Enabled Government and Society in 2012 VGCR has proposed an own concept to the Development Strategy of NSDI for Vietnam that to have “Spatial Enablement of Governments and Societies” we need to do “Spatial</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
			Enablement of Each Citizen”.
<p>19. Events organized in the past three years</p> <p>How experienced is the host in organising events</p>	<p>International Conference on the History of Cartography, 2013 EuroGeographics General Assembly 2012 NLS also organizes the annual GIS EXPO in Messukeskus Helsinki – the largest Finnish event in the field of geographic information. No of participants ahs been about 2,000 yearly.</p>	<p>No detailed information in bid material</p>	<p>No detailed information in bid material</p>
<p>20. Major event planned in the proposed city in 2017</p> <p>Many events might affect the price level</p>	<p>The 100 years of indepence celebrations in 2017 will bring a wide range of ther events to Helsinki</p>	<p>No detailed information in bid material</p>	<p>20 Feb-2 March – APEC SOM I & Related meetings 22-25 May 27th Meeting of TPTWG 19-21 July APEC Symposium on Open Source and Open Course for E-learning 26-28 July APEC Trade Capacity Building for the Application of Sanitary and Phytosanitary measures Septemer and November are usually peak months</p>
<p>21. Initiatives for sustainable conference environment</p> <p>Is host city paying attention to environmental issues Is venue paying attention to environmental issues Is host paying attention to environmental issues</p>	<p>Many hotels have been granted the Swan eco-label. Messukeskus Helsinki wants to act responsibly and be a pioneer also in the environmental issues and to reduce its own carbon footprints as well as the carbon footprints of their customers. Environmental system certified n accordance with the ISO</p>	<p>No detailed information in bid material</p>	<p>No detailed information in bid material</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	<p>14001 standard Environment is the responsibility for each and every employee of the Messukeskus.</p> <p>A flexible and efficient public transportation system in the Helsinki area and most of the hotels are known as environmentally conscious.</p> <p>All material provided to the Working Week will be ecologically safe.</p>		
<p>22. New initiatives or activities</p> <p>Originality – but within the overall FIG concept</p>	<p>LOC will build on the ideas and experiences they have from their annual GIS EXPO event and create fresh new ways to further improve the profile of the FIG WW both nationally and internationally. The annual GIS EXPO with its over 2000 visitors is a fruitful setting for marketing the Working Week and reaching a large audience nationally.</p>	<p>No detailed information in bid material</p>	<p>The combination of excursion tour (post tours)with technical tour</p>
<p>23. What legacy to leave locally from the Working week</p> <p>With host Hosting city For the surveying community</p>	<p>There is a lot to learn through international cooperation and exchange of ideas, not to mention creating and maintaining personal relations. Nobody lives in isolation and certainly do better in a networked environment where we can learn from each.</p> <p>The Finnish surveying community will benefit greatly from the Working Week and the Finnish experiences in the profession will be useful for the</p>	<p>No detailed information in bid material</p>	<p>No detailed information in bid material</p>

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	wider international community.		
VALUATION			
Issues supporting destination – subjective rating for Council	<ul style="list-style-type: none"> - There is a specific reason for hosting in 2017 – 100 year independence of Finland - Strong organisation behind - Last FIG conference in Finland was 1990 which is long time ago - Suitable venue - Free internet at venue - Several hotel possibilities around venue - FIG can learn from GEO EXPO - Conference budget is realistic - Venue fees and fees for catering are acceptable - Proposed venue will work for FIG Working Week - Suggestions in bid follow the FIG concept of Working Week - Cooperation between both member association and affiliate member of FIG 	<ul style="list-style-type: none"> - FIG Conference never held in south Asia before - There has never been a FIG event in Nepal or Kathmandu - Nepal would be an attractive venue for tourism, cultural and nature aspects - Nepal is a country where surveyors need support from international surveyors. - Cooperation between the member association and affiliate member of FIG. 	<ul style="list-style-type: none"> - There is a specific reason for hosting in 2017 – association has 30 years anniversary - Strong organisation behind - VCGR is experienced in hosting conferences - VCGR organized a very good regional conference - affordability in Vietnam is good - the conference rates are reasonable - there is a thought through theme of the Working Week - purpose and outcome of the Working Week is carefully considered - Proposed venue will work for FIG Working Week - already suggestions for social events and tours
Issues against destination - rating	<ul style="list-style-type: none"> - Price level in Northern Europe is generally high however both conference venue rental and conference participants costs (catering) seem reasonable. - Celebrating the 100 year of independence might attract many conferences to Finland and increase 	<ul style="list-style-type: none"> - Small association - Not much participation in earlier FIG conferences - No lunches in Fee - No suggestions for dinners - No budget - The venue and destination would fit well for a FIG Regional Conference. 	<ul style="list-style-type: none"> - budget is very tight and there is no space for extra costs - Rotation: FIG Congress 2014 is in Malaysia, FIG Working Week 2016 is in New Zealand - proposed venue may be challenging because of its size but cannot be evaluated from the

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
	costs on venue, hotels, catering etc.	<p>There are limitations for a full size Working Week</p> <ul style="list-style-type: none"> - Difficult to evaluate the venue and its suitability from the bid - Large difference between international and local fee - Target numbers might be difficult to reach - The economic risk is increased by the high number and the registration fee for local participants. This problem could only be solved by big sponsorship income. - Nepal is a “far away destination” to most participants as normal participation from South Asia is very low. - The bid is not given all information about the venue (breakout rooms) and professional programme (technical tours, local contributions to technical programme) - The venues are not planned for major conferences with broad parallel programme - Suggestions in bidding material does not follow the normal FIG Concept for Working Week - According to the FIG policy on organising conferences, Nepal 	<p>bidding material</p> <ul style="list-style-type: none"> - Suggestions in bidding material does in general not follow the normal FIG Concept for Working Week

ITEM and criteria	Finland /Helsinki Finnish Association of Geodetic and Land Surveyors (MIL) and Finnish Association of Surveyors (MAKLI)	Nepal/Khatmandu Nepal Institution of Chartered Surveyors (NICS)	Vietnam/Hanoi The Vietnam Association of Geodesy Cartography and Remote Sensing VGCR
		would normally be considered as host for a Regional conference	

Summary of the bids for 2018

The following clarification is based on information given by the bid documents. No site inspections were made to any of the proposed cities or conference venues.

Below is a summarized comparison from given bids. All variables were submitted in the original bid for proposals. This document is a summary of each country's bid in spreadsheet format for easier comparison and is meant to be a fact based document.

The second document attached is my subjective evaluation of the below variables with a numerical subjective scoring using a 5 point score. The scores are based on how well each bid fulfills each variable criteria mentioned in the left column.

As this is the first year we will be using these criteria and scoring system we hope that it will be useful this first year and can be improved in the coming years.

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
<p>1. Rotation of the conference: Previous and planned conferences: Congresses: 2014: Asia and the Pacific (Malaysia); 2010: Asia and the Pacific (Australia); 2006: Europe (Germany), 2002: North America (USA); 1998: Europe (United Kingdom); 1994: Asia and the Pacific (Australia) Working Weeks: 2016: Asia and the Pacific (New Zealand); 2015: Europe (Bulgaria); 2013: Africa (Nigeria); 2012: Europe (Italy); 2011: Africa/Arab countries (Morocco); 2009: Asia/Middle East (Israel); 2008: Europe (Sweden); 2007: Asia (Hong Kong SAR, China); 2005 Africa/Arab countries (Egypt); 2004: Europe (Greece); 2003: Europe (France); 2001: Asia (Republic of Korea); 2000. Europe: Czech Republic.</p>	<p>Europe (and Asia and Middle East). 2015: Europe, Bulgaria, 2009: Asia-middle east, Israel The geographical area has not hosted any FIG congress before.</p>
<p>2. Country hosting of earlier FIG events Experience</p>	<p>Turkey has never hosted an FIG Congress or Working Week but has tried since 2005. Turkey has hosted Commission 7 annual meetings in 1973 and 1989; Commission 3 annual meeting and international symposium in 2002; and in addition international symposium on deformation measurement in 1994 and on GIS/GPS in 1997. It has hosted together with FIG a joint seminar at the UN-HABITAT II Congress in 1996. The national conferences of CSCE attract about 1,000 participants.</p>

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
	Turkey is facing economical growth in recent years and diversified projects, eg the urban regeneration project and Marmaray rail transport project connecting Europe and Asia with an undersea rail tunnel under the Bosphorus straight.
3. Member association Its activeness, Commitment to FIG and to FIG 2017 Execution ability for local association	The bid is made by Turkish Chamber of Survey and Cadastre Engineers (CSCE) that was founded in 1954 and has been a member of FIG since 1969. CSCE is a qualifying body and partly learned society for exchange of technical information for professional engineers working in the fields of surveying and mapping. The CSCE headquarters are located in Ankara connecting 10 branches and 150 provincial representations in Turkey. CSCE has about 3,000 members. CSCE covers all FIG Commissions and has appointed a delegate to each Commission. CSCE has announced their willingness to host a FIG Congress since 2005 and applied in 2010. Turkey has had a fairly large representation at previous FIG events. CSCE has organized many larger events, symposia, training camps etc in the later years and is experienced in organising several events. Turkey is in arrears with 2013 subscription fee.
4. Supporting organisations Local support to the Working Week Governmental support Financial support General support	The bid is supported by President of the Republic of Turkey: H.E. Abdullah Gül, Prime Minister of Turkey; Governor of Istanbul, Mayor of Istanbul, Ministry of Environment and Urbanization, Istanbul Convention & visitors bureau (providing all necessary coordination with local authorities and local bodies) General Directorate of Land Registry and Cadastre, General Directorate of Agrarian Reform, Yildiz Technical University, Hitit University, Okan University, Istanbul Technical University. The congress will support selected speakers from developing countries by providing 20+ free registrations and 50+ free or affordable accommodation. Additional support will be sought from aid programmes, donors or from the congress budget. Support from state: €100,000
5. Host city Characteristics and interest from congress programme point of view Host city attractiveness Host city offerings	Istanbul is a large metropolis with over 13.9 million inhabitants. Istanbul has hosted several major and scientific events. ICCA-International Conference and Convention Association launched Istanbul as Leading Congress Destination in the world in 2012. There are seven convention centres and three exhibition centres in Istanbul and the city has 89,000 total guestrooms and 94 five-star and deluxe hotels. Rated World #1 congress destination with more than 500 delegates. The only major city on two continents. 6 th tourism destination in the world (2012) Ancient city with a remarkable history and with several interesting sights There is an extensive public transport network
6. Venue Price/affordability	Seven convention centres in Istanbul. Selected venue is Istanbul Congress Center (ICC). ICC is located with easy walking distance of hotels and close to the Taksim cultural district as well as shopping, dining and nightlife. ICC is large and has 7 floors in total and has several halls suitable for the FIG Congress. The venue must be investigated better to value the suitability to a

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
Location of venue Internet availability Suitability of rooms, size of venue, structure and layout of the venue Catering Value for money Hotels nearby Facilities for exhibition	FIG Congress and affordability. There are no other confirmed major events during the proposed dates
7. Accessibility Flight connections Several access possibilities Security Visa issues Air fare to destination	Istanbul is accessible from all parts of the world. Two International Airports in Istanbul (one in European and one in the Asian side. Most airline carriers offer non-stop direct flights to Istanbul’s Atatürk International Airport. Turkish airlines #1 Best airline in Europe in 2011,2012 and 2013. Direct flights to over 240 destinations worldwide. Citizens of 71 countries require no visa to enter Turkey, Citizens of an additional 97 countries can obtain an e-visa. Turkish Airlines offers special discount to FIG participants Taxi ride from airport to city centre is around 13-18 EUR. There is around 20 km. Public bus/metro tickets from airport, - 45-60 minutes, approximately 0.70€
8. Safety and security Political stability Airport safety City safety – is it safe to move around? Political stability in country (rating must be 3 or higher)	Turkey is described as one of the safest countries in the world in which to travel and its crime rate is low in comparison to many Western European countries. Interpol ranked Turkey as the safest holiday destination in Europe for travelers. Travellers need however be careful with their personal possessions. In many places there is special tourism police who speak different languages. The Turkish Government takes air safety very seriously, and maintains strict oversight, particularly on international flights. The U.S. Federal Aviation Administration has placed Turkey’s civil aviation authority in Category 1 – in full compliance with international aviation safety standards in overseeing Turkey’s air carrier operations. There is a “City Information and Security System” enacted under the Istanbul Security Department with the support of Istanbul’s Governorship. With 584 modern cameras installed in several of Istanbul’s streets and squares with the aim of enhancing public services, facilitating administrative function and further decreasing crime rates. Facts based – where to look?
Proposed dates Must meet FIG requirements Following FIG statutes Practical dates	13-21 April 2018 01-09 June 2018 22-30 June 2018 – preferred dates by local host All days have been preliminary booked at the proposed venue

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
Availability of venue Other conferences at same time	Istanbul between April-June has a moderate dry climate with an average temperature around 27C.
9. Technical programme Coverage of all FIG Commissions, Potential partners Originality Special ideas	Several ideas on the technical program have been thought through and will cover all areas within the 10 FIG commissions. There will be dedicated representatives to each commission. Outline for call for papers and time line is proposed.
10. Technical tours Coverage of all FIG Commissions Originality Ideas proposed	Technical tours will be planned for each commission. Ideas are excursions to: - Regional Directorate of Land Registry and Cadastre - Istanbul Municipality Surveying/Planning/GIS Department - Kandilli Observatory and Earthquake Research Center - Harbiye Military Museum - Yildiz Technical University Surveying Department - Private companies
11. Social programme Attractiveness and variety Proposals for dinners Attractiveness of offered dinners Proposals for tours Is the program following the overall FIG concept	The social programme suggests: A welcome reception will be hosted by the City of Istanbul Opening ceremony at ICC Gala Dinner suggestion with a glimpse of Turkish culture and music General Directorate of land Registry and Cadastre will organize a dinner for the National delegates. Several social tours, both full and half days, are suggested. Several suggestions for “unusual venues” Pre and post tours are described
12. Attendance Expectation of international, regional and local attendance Realistic number of international and national participants	2,000-2,500 delegates. Budget is based on 2,000. Hereunder 300 Turkish participants.

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
<p>13. Accommodation</p> <p>Hotel costs Value for money Variation in hotel offers Closeness to proposed venue Transportation to venue</p>	<p>Istanbul has almost 100,000 guestrooms and a variety of hotels to choose from. Hotels are approximately in the following price range (2014 prices) 5 star: €80 – 330 4 star: €60 – 240 1, 2, 3 star: €45 – 110 Hostels: €10 - 60</p>
<p>14. Finances</p> <p>Estimate of surplus and financial risks Realistic fees proposed Fees in an acceptable price range Difference between international and national fees Realistic budget Estimated revenue</p>	<p>Suggested fees: €630 (Early Bird), €680 (Normal), €780 (Late/on-site), Students €280, Accompanying persons €330. Lunch boxes and coffe/tea, welcome reception, is included in registration fee Budget is high but fairly realistic estimations on costs. However low estimated surplus which is a very small margin. Value for money – general prices in Istanbul are low</p>
<p>15. Sponsorship</p> <p>Estimate sponsorship and exhibition income Proposed income How realistic is proposed income Local sponsor offerings Sponsor interest to conference</p>	<p>The congress will support selected speakers from developing countries by providing 20+ free registrations and 50+ free or affordable accommodation. Additional support will be sought from aid programmes, donators or from the congress budget. The expected income from exhibition and sponsors is optimistic. A welcome reception will be hosted by the City of Istanbul. Other potential sponsors might include the Province of Istanbul, Government of Turkey, major resource industries, legal firms, financial institutions and real estate companies. Special offer by Turkish Airlines</p>
<p>16. Why host</p>	<p>- increase awareness about the importance of Surveying/Geodesy and Photogrammetry/Geomatics engineering among all public and private organisations in Turkey</p>

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
Reason for hosting	<ul style="list-style-type: none"> - ensure cooperation between the volunteers and foreign colleagues - increase the number of scientific research projects and articles as much as possible; contribute to the development and application of large-scale projects in public organisations and institutions - help the private sector restructure itself to adopt a new approach to the industry - ensure information exchange among scientists and encourage development of applications - improve qualified workforce to a considerable extent - promote Turkish industry and country to the rest of the world - increase in the number of survey engineering departments at universities and thereby in the potential for workforce - rapid increase in the need for information and experience exchange among experts at an international level - encourage members to actively participate in FIG's activities and commissions - help Surveying/Geodesy and Photogrammetry/Geomatics engineering students and young surveyors cooperate with their foreign counterparts and thus develop universal perspectives - make efforts to encourage neighbouring countries and the experts living in them to join FIG
<p>17. Objectives and outcomes</p> <p>Thought through why conference should be held at destination Difference to other destinations Short term outcome Long term outcome</p>	<p>To ensure that the current professional practices in Turkey be evaluated by experts to address and develop solutions for professional deficiencies, awareness in the professional community be improved, professional information and ideas be exchanged among experts and that the projects conducted in Turkey be promoted to and discussed with foreign experts.</p> <p>Turkey has built very close relations with the Turkish speaking countries which acquired their independence after 1990 and this has stretched into Mid-Asia, Eastern Europe, North and Central Africa and on into the Middle East where many development projects are being supported by Turkey both financially and technically.</p>
<p>18. Suggested theme</p> <p>Thought of possible theme that fits to local/regional situation</p>	<p>No suggestion yet for theme, but will elaborate on this. There is already a suggestion for logo and banner elements.</p>
<p>19. Events organized in the past three years</p> <p>How experienced is the host in organising events</p>	<p>Several larger and smaller conferences, symposia and events have been undertaken by CSCE.</p>

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
<p>20. Major event planned in the proposed city in 2017</p> <p>Many events might affect the price level</p>	<p>There are several, however none confirmed at the proposed dates.</p>
<p>21. Initiatives for sustainable conference environment</p> <p>Is host city paying attention to environmental issues Is venue paying attention to environmental issues Is host paying attention to environmental issues</p>	<p>Many initiatives have been established to “go green in Istanbul”. Environmental concerns have been put on the agenda. Istanbul Metropolitan Municipality and the Governorship of Istanbul help meeting planners in organising environmentally responsible practices. Bureau Veritas and the Turkish Hotels and Investors Association teamed up to launch “The Hotel Greening Project” in order to move the environmental agenda forward encouraging them to employ environmentally friendly strategies.</p> <p>Meeting venues are also working on becoming “green venues” by e.g. maximum natural light, walking distance to hotels, congress facilities located in the city center offer delegates the opportunity of walking, easily accessible public transportation, recycling bins for papers, plastics, glasses placed within the venues, several venues employ a system for distilling waste oils in the kitchens, energy smart lighting within venues, recycling pens are being used at the meeting rooms, smoking is banned in all closed public spaces within the venues. The use of local food</p>
<p>22. New initiatives or activities</p> <p>Originality – but within the overall FIG concept</p>	<p>Proposes a workshop on “Property Ownership” as part of the congress – focus area in the Turkish speaking countries in Mid-Asia.</p> <p>For the past 10 years CSCE has organized the Young Surveyors day to gather Young Surveyors from all over the world. In parallel with the FIG 2018 the Chamber suggests a “Young Surveyors Day”.</p>
<p>23. What legacy to leave locally from the Working week</p> <p>With host Hosting city For the surveying community</p>	<p>See above.</p>
<p>VALUATION</p>	
<p>Issues supporting destination –</p>	<p>- A strong member association whose representatives have been active in FIG for a long time. CSCE is one of</p>

ITEM and criteria	Turkey/Istanbul – Turkish Chamber of Survey and Cadastre Engineers
subjective rating for Council	<p>the bigger FIG member associations and has never hosted an FIG congress or Working Week. CSCE has shown interest to host the congress already since 2005.</p> <ul style="list-style-type: none"> - Istanbul and Turkey is an attractive destination for international conferences, and has easy access from most destinations around the world. - Technical infrastructure is in place (congress centres, hotels etc.) - Attractive social and technical tour programme - Interesting location between east and west and a possibility to also attract the Middle East - interesting ideas on new activities during the congress - Full coverage of all FIG Commissions - Good support from national and local stakeholders - Financially well-prepared.
Issues against destination - rating	<ul style="list-style-type: none"> - It is difficult to value the proposed venue and its suitability to a FIG Congress - Venue rather expensive - Price level - average international price level. High costs in budget. Hotels reasonable.



Nomination Template for Commission Chair Elect 2015-2016

Commission no: 1

Nominee	
Name:	Brian J Coutts
Member association:	New Zealand Institute of Surveyors
Country:	New Zealand
Contact address:	School of Surveying, P O Box 56, Dunedin, New Zealand
Email address:	brian.coutts@otago.ac.nz
Age:	66
Degrees and educational background:	MSc, BSc, DipSurv. FNZIS FRICS FRGS MNZIS MNZPI
Employment history - current position - previous	Senior Lecturer/Deputy Head, School of Surveying Employed at School of Surveying for the last 22 years.
Positions of trust - current - previous	President, Commonwealth Association of Surveying and Land Economy (2004-07) President, New Zealand Institute of Surveyors (1999-2001) Chair, Cadastral Surveyors Licensing Board of New Zealand (2002-10)
Positions in FIG - current - previous	Chair, Working Group on Voting Rights Vice Chair Commission 1 NZ Commission 1 rep 2005- present NZ Commission 8 rep 1994-2005
Other activities in FIG	Regular NZ delegation leader and presenter of papers.
Field of surveying discipline	Land Surveying
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	Commission 1 has not been very active in recent times. I believe it needs to engage better with private practitioners, as well as the government employees and academics that populate it at the moment. It also needs to engage in topical issues wanted by the members, rather than what the Commission officers might see as interests. The challenge is to find out what it is that private practice would like from Commission 1.
What I can offer to FIG in support of the aims and objectives of the Commission	I believe I have a proven record of leadership within the surveying profession in New Zealand and in the international arena through my involvement as President of the Commonwealth Association of Surveying and Land Economy.

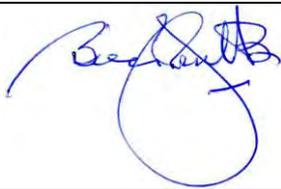


Nomination Template for Commission Chair Elect 2013-2014

My key skills	An analytic approach to problem solving, constitutional and administrative issues and leadership through persuasion, negotiation and consensus.
Any other general comments	

Nominator	
Name of member association	New Zealand Institute of Surveyors (NZIS)
Name and title of contact person	Jeff Needham
Contact address	President
Email address	C/- NZIS, PO Box 831, Wellington 6140, New Zealand

Nominator's statement	
Why the association wants to nominate Nominee	Brian Coutts has been involved on FIG International Commissions, CASLE and RICS for a lengthy period of time dating back to 1994. He is a former President of NZIS. His background, work and educational experience as a Senior Lecturer and Deputy Head of the School of Surveying at Otago University means that he is actively involved in the sector and profession.
Support the association can offer the Nominee (financial and other)	We would support his activities as able.
Any other comments	As outlined, Brian Coutts is a Fellow of NZIS and is well known as an attendee of key FIG events and throughout New Zealand, Australia, Asia and the Pacific.

Signed	
I hereby certify the above is true and correct	
Date	13 March 2014
Nominee Brian Coutts	
Nominator Jeff Needham	



Nomination Template for Commission Chair Elect 2013-2014

Commission no: 1

Nominee

Name:	Brian J Coutts
Member association:	New Zealand Institute of Surveyors
Country:	New Zealand
Contact address:	School of Surveying, P O Box 56, Dunedin, New Zealand
Email address:	brian.coutts@otago.ac.nz
Age:	64
Degrees and educational background:	MSc, BSc, DipSurv. FNZIS FRICS FRGS MNZIS MNZPI
Employment history - current position - previous	Senior Lecturer/Deputy Head, School of Surveying Employed at School of Surveying for the last 20 years.
Positions of trust - current - previous	President, Commonwealth Association of Surveying and Land Economy (2004-07) President, New Zealand Institute of Surveyors (1999-2001) Chair, Cadastral Surveyors Licensing Board of New Zealand (2002-10)
Positions in FIG - current - previous	Chair, Working Group on Voting Rights Vice Chair Commission 1 NZ Commission 1 rep 2005- present NZ Commission 8 rep 1994-2005
Other activities in FIG	Regular NZ delegation leader and presenter of papers.
Field of surveying discipline	Land Surveying

Nominees statement

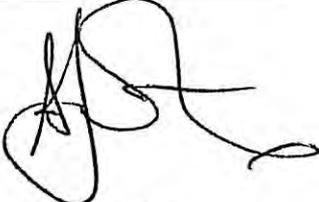
Why I want to be a Commission Chair and what I would like to achieve	Commission 1 has not been very active in recent times. I believe it needs to engage better with private practitioners, as well as the government employees and academics that populate it at the moment. It also needs to engage in topical issues wanted by the members, rather than what the Commission officers might see as interests. The challenge is to find out what it is that private practice would like from Commission 1.
What I can offer to FIG in support of the aims and objectives of the Commission	I believe I have a proven record of leadership within the surveying profession in New Zealand and in the international arena through my involvement as President of the Commonwealth Association of Surveying and Land Economy.



Nomination Template for Commission Chair Elect 2013-2014

My key skills	An analytic approach to problem solving, constitutional and administrative issues and leadership through persuasion, negotiation and consensus.
Any other general comments	

Nominator	
Name of member association	New Zealand Institute of Surveyors
Name and title of contact person	Barry Davidson National Manager
Contact address	PO Box 831 Wellington 6140 New Zealand
Email address	Barry@surveyors.org.nz
Nominator's statement	
Why the association wants to nominate Nominee	NZIS is looking at ways to increase its engagement in FIG activities. Supporting the first NZIS member to seek a Commission Chair is a very tangible way to do that. The nominee has excellent credentials and has served NZIS with distinction. We believe the Nominee would do an excellent job leading Commission 1.
Support the association can offer the Nominee (financial and other)	NZIS is prepared to contribute to travel & accommodation costs.
Any other comments	

Signed	
I hereby certify the above is true and correct	
Date	16.12.11
Nominee	Brian J Coutts
Nominator	 Andrew J Stirling President New Zealand Institute of Surveyors

International Federation of Surveyors
Attn. Ms. Louise Friis-Hansen
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Denmark

Date : 19/3/2014
Feature: 903C140319ph
Subject : Nomination ir. Liza Groenendijk

Dear board members,

GIN appreciates very much and still supports ir. Liza Groenendijk as FIG Commission Chair. Therefore please accept this letter as a formal nomination of Liza Groenendijk for the Chairs Election in Kuala Lumpur, Malaysia for the period 2015-2018.

Sincerely,



P. Hoogwerf MBA, LL.M
President



Nomination for Commission Chair Elect 2013-2014

Commission no: 2. Professional education

Nominee

Name:	Ir. Liza Groenendijk (Elisabeth Maria Cordula)
Member association:	Geo Informatie Nederland
Country:	The Netherlands
Contact address:	University of Twente Faculty of Geo-information Science and Earth Observation (ITC) Department of Urban and Regional Planning and Geo-information Management (PGM) P.O. Box 6 7500 AA Enschede THE NETHERLANDS
Email address:	groenendijk@itc.nl
Age:	56
Degrees and educational background:	Tropical Forest Engineer from Wageningen Research University, The Netherlands, graduated in 1982.
Employment history - current position - previous	January 2010- to date ITC-UNU School of Land Administration Studies Portfolio Manager Eastern Africa. January 2000- to date Faculty of Geo-information Science and Earth Observation, University of Twente. Lecturer at the Urban and Regional Planning and Geo-information Management Department; since January 2010 in Land administration (MSc and PGD Courses). September 2007 – September 2011 Faculty of Geo-information Science and Earth Observation, University of Twente, Department of Urban and Regional Planning and Geo-information Management. Member of Departmental Management Team (Education Portfolio).



Nomination Template for Commission Chair Elect 2013-2014

	See for other professional experiences the attached CV.
Positions of trust - current - previous	Not applicable.
Positions in FIG - current - previous	2010 – present Delegate of The Netherlands in Commission 2. Professional Education. 2007 -2010 Working Group Chair; Working Group 2.2. E-Learning of Commission 2. Professional Education.
Other activities in FIG	Chair of the organizing committee of the FIG International Workshop - Sharing Good Practices: E-learning in Surveying, Geo-Information Sciences and Land Administration, 11-13 June 2008. Editor of the proceedings of this workshop. http://www.fig.net/news/news_2008/enschede_june_2008.htm Editor of FIG Publication 46 (2010). Enhancing Surveying Education through e-Learning. A publication of FIG Commission 2 – Professional Education. http://www.fig.net/pub/figpub/pub46/figpub46.pdf
Field of surveying discipline	Land Administration.
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	I will continue the work initiated by the earlier commission chairs. In addition I will focus in particular on the following areas: <ul style="list-style-type: none">- networking between education institutes and programs in the North and South,- sharing of knowledge and experiences in the domain of professional education, and:- innovative approaches in the key areas of the commission.
What I can offer to FIG in support of the aims and objectives of the Commission	<ul style="list-style-type: none">- International experience and network, in particular in developing countries, and:- Experience in different aspects of higher education: experience-based learning approaches; intercultural teaching and training, e-learning, and management of education.
My key skills	<ul style="list-style-type: none">- Team worker



Nomination Template for Commission Chair Elect 2013-2014

	<ul style="list-style-type: none">- Organizer- Communicator
Any other general comments	See also the attached CV.

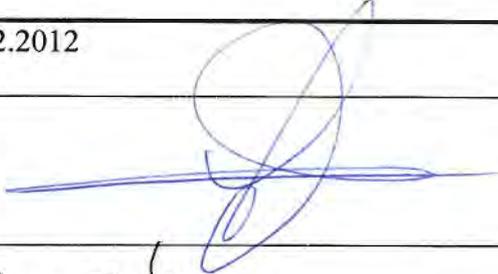
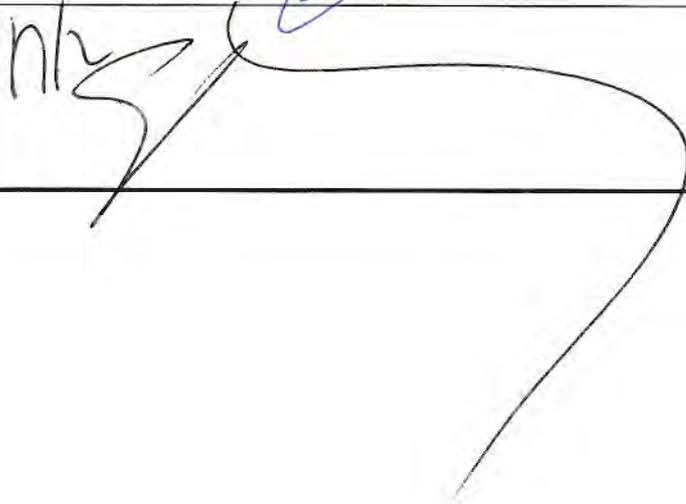
Nominator	
Name of member association	Geo-Informatie Nederland (GIN)
Name and title of contact person	Peter Hoogwerf, Chair
Contact address	Peter Hoogwerf Chair Geo-Information Netherland P.O.Box 3860 BB Nijkerk THE NETHERLANDS
Email address	Peter.Hoogwerf@Kadaster.NL
Nominator's statement	
Why the association wants to nominate Nominee	<p>GIN is aware Liza Groenendijk active involvement within FIG. Liza is the right person on the right place in Commission 2 looking to her:</p> <ul style="list-style-type: none">- international experience in many countries worldwide with a focus to learning and educational methods and innovations in this area;- her basis at ITC, world wide known and recognized – many colleagues in leading positions in cadastre and topographic organizations started from this renowned institute;- involvement in the UNU School for Land Administration Studies at ITC, this is one of the very few places where a MSc programme in Land Administration is running; and- always enthusiastic appearance, creative approaches in all her activities, pro-active and motivating attitude. <p>We are sure that FIG will get a well performing commission chair with Liza in Commission 2</p>
Support the association can offer the Nominee (financial and other)	
Any other comments	



Nomination Template for Commission Chair Elect 2013-2014

Signed

I hereby certify the above is true and correct

Date	02.02.2012
Nominee	
Nominator	



Consiglio Nazionale
Geometri e Geometri Laureati

presso
Ministero della Giustizia

Prot n° 0002517 del 11/03/2014

The President

To
Ms. Louise Friis-Hansen
FIG Manager

E-mail: lfh@fig.net

OBJECT: Formal letter of nomination for Mr. Enrico Rispoli as Chair of FIG Commission 3

Following Mr. Enrico RISPOLI nomination and election as FIG Chair of Commission 3 at the General Assembly in Rome in 2012, herewith I confirm and still support his formal nomination in Kuala Lumpur as Chair of FIG Commission 3 for the period 2015-2018, taking over 1st January 2015.

Best regards,

Geom. Maurizio Savoncelli

MGS -



Nomination Template for Commission Chair Elect 2013-2014

Commission no: 3

Nominee	
Name:	Enrico Rispoli
Member association:	Consiglio Nazionale Geometri e Geometri Laureati
Country:	Italy
Contact address:	Piazza Colonna, 361 – 00187 Rome
Email address:	e.rispoli@cng.it , m.scorza@cng.it
Age:	56
Degrees and educational background:	<p>Diploma in Surveying from “F. GALIANI” Technical Institute in Chieti;</p> <ul style="list-style-type: none">• Law Degree, with studies focused on forensic and legal/administrative topics and concentration in urban-planning law and land management.• Registered in the Roll of Surveyors of Chieti since December 18, 1976;• Entered in the special registry of attorneys kept by the Chieti Bar Association since February 1991.
Employment history - current position	<ul style="list-style-type: none">• Cooperation to the drafting of the town planning scheme of the town of Chieti;• Participation in the setting up of SIT (Land Information System) in the province of Chieti through the correlation of several kind of spatial information about the use of the land, services, road network, heritage and data population;• Owner of a technical and law firm.
- previous	Idem
Positions of trust - current	<ul style="list-style-type: none">• Expert in land management through managerial processes and infrastructure needed for handling data, using information;• Expert in decision makers for extensive use of spatial information also within good e-government, sustainable development and control of the environmental impact;• Expert in spatial data use for planning and related legal aspects, management of spatial knowledge;• Secretary of the Consiglio Nazionale Geometri e Geometri Laureati, headquartered at the offices of the Ministry of Justice, Piazza Colonna, 361, Rome;• Administrative Director of the Foundation of Italian

<p>- previous</p>	<p>Surveyors, Via Barberini, 68, Rome;</p> <ul style="list-style-type: none"> • Member of Board of Directors of Geoweb S.p.A., Piazza G. Marconi, 14/D, Rome; • Member of the Council of European Geodetic Surveyors (CLGE), • Member of the European Group of Surveyors (EGoS). <p>Awards</p> <p>National Award in Urban Planning, Urban Promo – Venice – 2009 Edition, first place for better land-use planning for small historic towns with “General Rules for Protecting and Enhancing the Value of the Architectural, Natural and Rural Heritage of the Municipality of San Martino Sulla Marrucina, in Abruzzo (Province of Chieti), Italy”. Award that was mentioned by the University of Camerino and by the Landscape Commission of the Planning National Institute as one of the most significative Italian work and experience (see attachment).</p> <p>Political offices</p> <ol style="list-style-type: none"> 1. Town Councilor of Chieti, 1975/1985 – 1990/1993 – 2005/2010; 2. Member of the Management Committee of Chieti’s local health authority, 1980/1987 with portfolio for Administrative and Rehabilitation Service; 3. Mayor of Chieti, the provincial capital with 60,000 inhabitants, from May 1993 to November 1994; 4. Councilor of Public Works of Chieti, from November 1997 to November 2001; 5. Deputy Mayor of Chieti from November 2001 to October 2004, with portfolio for Public Works; 6. President of the Provincial Board of Chieti since June 2009 till today. <p>Publications:</p> <ol style="list-style-type: none"> 1. Law, Urban Planning, Environment and Environmental Impact Assessment used as the text book in the post-diploma specialization course offered by “G. Galiani” Technical Institute for Surveyors of Chieti. 1997; 2. Managing Editor of “Geocentro”, a national technical information magazine, registered with the Court of Rome – twice-yearly circulation of 120,000 copies, from 2004 to
-------------------	---



Nomination Template for Commission Chair Elect 2013-2014

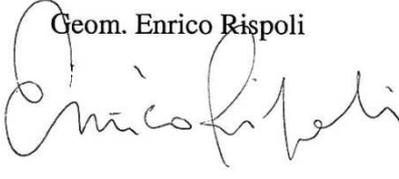
	2008; 3. Commentator for “Italia Oggi”, national business, legal and political daily published out of Milan.
Positions in FIG - current - previous	<ul style="list-style-type: none">• for Italy since 2006, member of Commission no. 8 since 2007• Idem
Other activities in FIG	Local Director of FIG Working Week Rome 2012; Participation in the meetings of Commissions no. 3 and 7
Field of surveying discipline	Preparation of building designs, leader of projects for territorial planning and development, land registry work, technical and legal advice on property, property valuation.
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	I would do my utmost to raise awareness of and disseminate the matters handled by Commission no. 3. I would form working groups to carry out research, studies and proposals for understanding factors related to the development of various regions of the world. I would look at the positive aspects of the best systems for territorial development and land management, identify any factors that create problems in the various regions of the country. I would expand the number of participants involved.
What I can offer to FIG in support of the aims and objectives of the Commission	I would offer the other members my knowledge of the subject matters treated by the commission, as well as my technical and organizational experience in order to share to the greatest extent possible the programming and planning culture in protection of the environment and for sustainable development. Based on my experience, I would prepare guidelines and models synthesizing the work of the entire Commission.
My key skills	I am committed to maintaining the high scientific and cultural quality of the Commission’s work. I would make participation in work spontaneous by fostering interested and enthusiastic participation
Any other general comments	I receive, listen and give responses, especially with regard to the proposals of young people, the needs of members from the weakest economic situations, and innovative proposals.

Nominator



Nomination Template for Commission Chair Elect 2013-2014

Name of member association	Consiglio Nazionale Geometri e Geometri Laureati
Name and title of contact person	Fausto Savoldi – President of CNGeGL
Contact address	Piazza Colonna, 361 – 00187 Rome
Email address	pressavoldi@cng.it , m.scorza@cng.it
Nominator's statement	
Why the association wants to nominate Nominee	The Nominee has distinguished himself with his particular experience and training in the matters addressed by Commission no. 3, and has gained considerable international experience representing the CNGeGL in international professional organizations in the Mediterranean area, Europe and worldwide.
Support the association can offer the Nominee (financial and other)	The CNGeGL can bear the expenses the Nominee must incur to fully carry out his functions once elected. The CNGeGL provides full operational, institutional and material support for activities to be carried out in agreement with the FIG.
Any other comments	Enrico Rispoli possesses the expertise and interpersonal skills to effectively socialize and communicate in public.

Signed	
I hereby certify the above is true and correct	
Date	20 th December 2011
Nominee	Geom. Enrico Rispoli 
Nominator	Geom. Fausto Savoldi 



Nomination Template for Commission Chair Elect 2013-2014

Commission no: 4

Nominee	
Name:	ANGELA KESIENA ETUONOUBE
Member association:	NIGERIAN INSTITUTION OF SURVEYORS (NIS)
Country:	NIGERIA
Contact address:	17 HOSPITAL ROAD, EKPAN-IAARRI DELTA STATE. NISERIA
Email address:	getuonoubre@yahoo.com
Age:	43
Degrees and educational background:	MSc, GIS & ENVIRONMENT (ONGOING) MBA BUSINESS ADMINISTRATION BSC. SURVEYING, GEODESY, HYDROGRAPHY & PHOTOSURAMETRY
Employment history - current position - previous	- PRINCIPAL CONSULTANT, ANSENE SURVEYS & CONSULTANT - PROJECT MANAGER, PICHAMPS INTERNATIONAL LTD.
Positions of trust - current - previous	- ASSISTANT SECRETARY GENERAL, NIGERIAN INSTITUTION OF SURVEYORS (NIS) - NATIONAL COORDINATOR, WOMEN-IN-SURVEYING
Positions in FIG - current - previous	- CHAIR, WORKING GROUP 4.5. HYDROGRAPHY IN AFRICA 2011-2014 - EDITOR, UNDER-REPRESENTED GROUP 2006-2010
Other activities in FIG	COMMISSION 4 REPRESENTATIVE TO AFRICAN TASK FORCE
Field of surveying discipline	SURVEYING, GEODESY & PHOTOSURAMETRY, HYDROGRAPHY
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	TO SUSTAIN MY GOAL TO BRING THE BENEFITS & REALITY OF HYDROGRAPHY TO THE WORLD. - TO ENSURE THAT THE GUIDELINES & STANDARD OF HYDROGRAPHY ARE MET.
What I can offer to FIG in support of the aims and objectives of the Commission	TO SUSTAIN HER GOAL TO DEVELOP THE WORLD IN CAPACITY BUILDING, POTENTIALLY AND INFRASTRUCTURALLY.
My key skills	* ABILITY TO COORDINATE & WORK AS A TEAM - PATIENCE IN ENDURING THAT CHALLENGES ARE SUMMONTED.
Any other general comments	AVAILABLE TO WORK AND TO CARRY OUT ANY ASSIGNED DUTIES

Nominator	
Name of member association	NIGERIAN INSTITUTION OF SURVEYORS
Name and title of contact person	YAKUBU MAIKANO maikano.yakubu@yahoo.co.uk
Contact address	251 HERBERT MACAULAY WAY, ABUJA, NIGERIA
Email address	maikandyakubu@yahoo.co.uk

MAIKANO
18-11-11



Nomination Template for Commission Chair Elect 2013-2014

Nominator's statement	
Why the association wants to nominate Nominee	SHE HAS BEEN CONSTANT IN THE AFFAIRS OF COMMISSION 4 AND CHAIR OF W/GROUP 4.5
Support the association can offer the Nominee (financial and other)	AS THE PRESIDENT OF THE NIGERIAN INSTITUTION OF SURVEYORS I CAN CONFIRM THAT WE WILL SUPPORT HER ACTIVITIES.
Any other comments	A STRONG MEMBER OF THE HYDROGRAPHIC SOCIETY NIGERIA

Signed	
I hereby certify the above is true and correct.	
Date	16 NOVEMBER, 2011
Nominee	Ameghomonah
Nominator	THE PRESIDENT NIGERIAN INSTITUTION OF SURVEYORS

[Signature]
18-11-11

DVW

Prof. Karl-Friedrich Thöne • c/o TMLFUN • Hallesche Straße 16 • 99085 Erfurt

FIG Office
International Federation of Surveyors
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
DENMARK

Kontakt

Prof. Dr.-Ing. Karl-Friedrich Thöne
DVW-Präsident
c/o Thüringer Ministerium für
Landwirtschaft, Forsten, Umwelt
und Naturschutz
Hallesche Str. 16
99085 Erfurt
Tel. +49 (0)361 3799-701
Fax +49 (0)361 3799-702
karl-friedrich.thoene@dvw.de

16. April 2014

Nomination of Prof. Dr.-Ing. Volker Schwieger for Chair of FIG Commission 5 for the period 2015-2018

Distinguished FIG President Teo CheeHai, dear CheeHai,
distinguished FIG Manager Louise Friis-Hansen, dear Louise,

At the FIG Congress 2014 In Kuala Lumpur, Malaysia the Chairs Elect will be formally nominated Chairs for the period 2015-2018 taking over 1 January 2015.

DVW herewith officially declares to provide all necessary support to Prof. Dr.-Ing. Volker Schwieger as FIG Commission Chair as we have done in the past.

Please confirm this letter of support.

Kind regards



Prof. Dr.-Ing. Karl-Friedrich Thöne
DVW President

GESCHÄFTSSTELLE
Dipl.-Ing. Christiane Salbach
Feierabendstraße 12
79235 Vogtsburg
Tel. +49 (0)7662 949-287
Fax +49 (0)7662 949-288
christiane.salbach@dvw.de
www.dvw.de

PRÄSIDIUM

Prof. Dr.-Ing. Karl-Friedrich Thöne
Prof. Dr.-Ing. Hansjörg Kutterer
Dipl.-Ing. Christof Rek
Dr.-Ing. Jens Riecken
Dipl.-Ing. Susanne Kleemann
Prof. Dr.-Ing. Jürgen Müller
Dipl.-Ing. Eberhard Ziem



Nomination Template for Commission Chair Elect 2013-2014

Commission no: 5

Nominee	
Name:	Volker Schwieger
Member association:	DWW
Country:	Germany
Contact address:	University Stuttgart, Institute for Engineering Geodesy (IIGS), Geschwister-Scholl-Str. 24D, D-70174 Stuttgart
Email address:	volker.schwieger@ingeo.uni-stuttgart.de
Age:	47
Degrees and educational background:	1989: Dipl.-Ing. Geodesy / Surveying 1998: Dr.-Ing. (PhD) 2004: Habilitation
Employment history - current position - previous	<ul style="list-style-type: none">- Professor, Director of Institute for Engineering Geodesy (IIGS), University Stuttgart- Senior Lecturer, Institute for Applications of Geodesy to Engineering, University Stuttgart- Research Associate, GeoForschungsZentrum Potsdam;- Research Assistant, Geodetic Institute, University Hannover
Positions of trust - Current - previous	<ul style="list-style-type: none">- Chair of Arbeitskreis 3 "Messsmethoden und Systeme" (Measurement Methods and Systems) of DWW;- Member of Working Group "Geodesy" within "Commission for Standards in Construction" of DIN- Member of Working Group "Galileo Geodesy Interface Working Group" der EC/ESA- Spokesperson of Centre for Transportation Research at University of Stuttgart (FOVUS)- Chair of Working Group "GNSS" of Arbeitskreis 3 of DWW;
Positions in FIG - Current - previous	<ul style="list-style-type: none">- Vice-Chair Commission 5 "Positioning and Measurement"- Chair of Working Group 5.4 "Kinematic Measurements"- Chair of Working Group 5.4 "GNSS"- Member of Working Group 8.4 "Disaster Risk Management"
Other activities in FIG	<ul style="list-style-type: none">- Responsible author for section "Geodetic Engineering and Satellite-Based Positioning" of FIG publication 38 "The contribution of the Surveying Profession to Disaster Risk Management"- Author of fact sheet "GNSS CORS Networks Principles"- Co-author of FIG publication 49 "Cost Effective GNSS Positioning Techniques"- Author of the Paper of the Month in August 2007: "High-Sensitivity GNSS – The low cost future GPS?!"- Co-author of the Paper of the Month in December 2009: "GNSS"



Nomination Template for Commission Chair Elect 2013-2014

	Coors – Reference Frames and Services"
Field of surveying discipline	Measurement Techniques, Positioning and Navigation
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	<ul style="list-style-type: none">- FIG plays the central role for the surveying profession world-wide, especially it is bridging the gap between teaching and practice.- Therefore I would like to contribute to strengthen FIGs role in society and with respect to other disciplines.- Commission 5 "Positioning and Measurements" reflects an essential field within the FIG and the surveying disciplines in general.- Hence I would like to work out the importance of geodetic measurement science as a key skill of the surveying profession for daily life and geo-related management tasks.
What I can offer to FIG in support of the aims and objectives of the Commission	<p>Due to my available academia-practise network and the infrastructure of University Stuttgart, I can support</p> <ul style="list-style-type: none">- Working Weeks and Regional Conferences by organization of technical and plenary sessions,- the edition of FIG publications e.g. related to guidelines for handling of measurement instruments,- the organization of tutorials and workshops related to Commission 5,- the management of the Commission as well as the Working Groups as e.g. GNSS, Kinematic Measurements, Reference Frames, Standards.
My key skills	<ul style="list-style-type: none">- Teaching experience (academic and vocational)- Project management and project-related research- Networking for academia and practice
Any other general comments	The current working atmosphere within Commission 5 is very productive and progressing.

Nominator	
Name of member association	DVW – German Society for Geodesy, Geo-Information and Land Management
Name and title of contact person	Prof. Dr.-Ing. Karl-Friedrich Thoene DVW President
Contact address	DVW Office c/o Dipl.-Ing. Christiane Salbach Feierabendstrasse 12 D-79235 Vogtsburg-Oberrotweil Germany
Email address	karl-friedrich.thoene@dvw.de
Nominator's statement	
Why the association wants to nominate Nominee	Volker Schwieger is nationally and internationally well reputed as a high qualified expert in the field of surveying instruments. Moreover, Schwieger has gained a FIG experience at least as a member of Commission 5, which is running in parallel to his chairmanship of the DVW Study Group "Measurement Methods and Systems" on both a scientific and practical level. DVW appreciates very much Schwieger's capability of promoting



Nomination Template for Commission Chair Elect 2013-2014

	communication between the FIG Commission 5 and the experts standing behind the national Study Group "Measurement Methods and Systems".
Support the association can offer the Nominee (financial and other)	DWW will offer any necessary personal, financial and institutional support to the nominee as we have done in the past.
Any other comments	

Signed

I hereby certify the above is true and correct

Date	19 th November 2011
Nominee	<i>[Signature]</i>
Nominator	<i>[Signature]</i>



**UNION OF SURVEYORS AND LAND MANAGERS IN BULGARIA
UNION DES GEODESIENS ET DES INGENIEURS
D'AMENAGEMENT FONCIER EN BULGARIE
VEREIN DER VERMESSUNGSINGENIEURE UND
LANDEINRICHTER IN BULGARIEN**

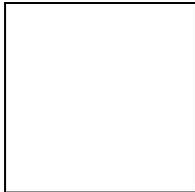
Louise Friis-Hansen
International Federation of Surveyors
Kalvebod Brygge 31-33
DK-1780 Copenhagen V

Sofia, 12.03.2014

Dear Louise,

We still support Ivo Milev as FIG Commission 6 Chairmen for 2015 - 2018.

Best regards



Georgi Milev - President



Nomination Template for Commission Chair Elect 2013-2014

Commission no:

6

Nominee	
Name:	Dr. Milev, Ivo
Member association:	Union of Surveyors and Land Managers in Bulgaria, DVW Germany
Country:	Germany
Contact address:	Hektorstr. 21; 10711 Berlin Germany
Email address:	ivo.milev@technet-rail.de ; ivo.milev@beuth-hochschule.de
Age:	48
Degrees and educational background:	PhD. In Geodesy and Civil engineering
Employment history - current position - previous	Managing Director technet- rail GmbH Scientific Director technet; Lecturer Beuth University of Applied Sciences
Positions of trust - current - previous	
Positions in FIG - current - previous	Chair of Study group 6.2.2 “Laser Scanners”
Other activities in FIG	Co-organizer of FIG Commissions 6 Workshops for the countries of central and east Asia “INNOVATIVE TECHNOLOGIES FOR AN EFFICIENT GEOSPATIAL MANAGEMENT OF EARTH RESOURCES”
Field of surveying discipline	Engineering Surveying – Deformation Analysis ; Laser scanning
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	Raising the international role of engineering surveying and more active exchange with other International organization bodies like UN, RTCM. Standardization effort.
What I can offer to FIG in support of the aims and objectives of the Commission	Activities and Contacts in the Russian speaking part of the world, networking in the field of commercial companies and enterprises
My key skills	Management, scientific
Any other general comments	



Nomination Template for Commission Chair Elect 2013-2014

Nominator	
Name of member association	Union of Surveyors and Land Managers in Bulgaria
Name and title of contact person	Prof. Dr.-Ing. Georgi Milev – President; Prof.Dr.-Ing. Georgi Valev – Vice President
Contact address	108, Rakovski Str., POB 431, Sofia, Bulgaria
Email address	geodesy-union@fnts.bg;
Nominator's statement	
Why the association wants to nominate Nominee	Mr. Milev is one of the most active of international level presented Bulgarian speaking person. Active member of the Bulagrian Union of Surveyors
Support the association can offer the Nominee (financial and other)	
Any other comments	

Signed	
I hereby certify the above is true and correct	
Date	01.02.2012
Nominee	Milev
Nominator	 Valev



Österreichische Gesellschaft für Vermessung und Geoinformation

Austrian Society for
Surveying and Geoinformation

Schiffamtsgasse 1-3
A-1020 Wien
Tel.: +43 1 / 211 10 / 3703
E-Mail: office@ovg.at
Internet: www.ovg.at

18 March 2014

FIG International Federation of Surveyors
p. a. Ms. Louise Friis-Hansen
FIG Manager
Kalvebod Brygge 31-33
1780 Copenhagen V
Denmark

Nomination of Gerda Schennach for FIG Commission 7 Chair

This letter is to confirm the nomination of Ms Gerda Schennach as Chairperson of FIG Commission 7 "Cadastre and Land Management" and the provision of any support after her formal nomination as Chairperson of FIG Commission 7 in the General Assembly to be held in Kuala Lumpur / Malaysia in June 2014 by co-funding travel costs and operational costs for running the daily business resulting from the function throughout her term of office 2015-2018 starting on 1 January 2015.

BEV, to which the Chair Elect is affiliated, will provide assistance for office facilities and travel costs as well as for operational support.

Ms Gerda Schennach has been a very active representative of the Austrian Society of Surveying and Geoinformation OVG in FIG Commission 3 and FIG Commission 7 for many years and has picked up visionary topics for the international FIG Seminar on *e-Land Administration* at Innsbruck in June 2004 and the international FIG Symposium on *Cadastre 2.0* at Innsbruck in September 2011, documented in Proceedings and followed by a number of FIG initiatives starting from the results.

Networking and establishing permanent links between OVG and national partner associations as well as with international associations and/or NGOs is one of the merits of Ms Schennach since her long-term involvement as a member of the Executive Board of OVG.

Her enthusiasm and commitment to work for the benefit of the profession and for the objectives of FIG is to be seen as an important asset for the function of a FIG Commission 7 Chairperson.

A handwritten signature in blue ink, appearing to read 'Gert Steinkellner', with a stylized flourish at the end.

Gert Steinkellner
President of OVG

Herausgeber der einzigen Zeitschrift für Vermessung und Geoinformation in Österreich

NAME: KWAME TENADU

Nationality	Ghanaian	Address F 104/3 Aboom Wells Rd
Date of Birth	29/08/1959	Cape Coast,
Profession	Land Surveyor/Environmental Manager	P. O. Box CC 564
Tel	Cell +233 (0)206654219 mb+233(0)243241121	Email tenaduk@yahoo.com/ kwametenadu@gmail.com
		Business Website: www.geozenithgh.com

HONORARY AWARDS

- November 2011:
Award of Excellence presented to me by International Federation of Surveyors (FIG), Commission 4
“In recognition for my outstanding contributions to the growth of the survey profession”

QUALIFICATIONS AND PROFESSIONAL AFFILIATIONS

- 2012 Professional certificate by the Judicial Training Institute for Skilled Based Court Connected Alternative Dispute Resolution for Members of the Ghana Institution of Surveyors.
- 2008 Master of Arts (M.A.) Environmental Management and Policy
- 2007 Full Member Ghana Institution of Surveyors (MGh.IS).
- 2005 Elected President Licensed Surveyors Association of Ghana (MLisag)
- 2005 Elected Regional Chair, Ghana Institution of Surveyors
- 2003 Associate Member Commonwealth Association of Surveyors and land economists (CASLE)
- 1999 Surveyor’s License – Government of Ghana
- 1998 Technician Member Ghana Institution of Surveyors. (TGh.IS)
- 1998 Certificate of Membership International Federation of Surveyors (FIG)
- 1997 Certificate in Project Management MDPI Ghana
- 1993 University Diploma in Geodetic Engineering
- 1981 Certificate in Land Surveying –School of Survey and Mapping Ghana.

PUBLICATIONS CONFERENCES AND COMMITTEES

- 2012 April Participated in the Joint CASLE/Gh.IS course in ADR for surveyors in Accra, Ghana
- 2011 November 24 – 25 Lokoja, Kogi State, Nigeria; Ghana delegate and speaker on the topic “Hydrographic Survey practice in Ghana – State of affairs”: Hydrography Awareness Workshop hosted by HYDROGRAPHY IN AFRICA, Working group 4.5 of Commission 4 of International Federation of Surveyors (FIG), Theme: “Hydrography and National Development”
- 2011 June 13 -17: Calabar, Cross River State, Nigeria; Delegate to Conference and AGM of the Nigerian Institution of Surveyors on the theme “Land Reforms in Nigeria, Issues and Challenges”
- 2011 February 15 – April 16: Hired by Geotech Systems Ltd in association with Swedesurvey AB of Sweden as Lecturer in land administration for five short courses organized for senior members of the Ghana Lands Commission and funded by Millennium Challenge Account. Focus of the course was “leadership for managing change in land administration”
- 2010 November; Mombasa, Kenya: Institute of Surveyors (ISK) Kenya/FIG Africa Task Force core member and workshop facilitator on developing “TOOLS” for African land professionals in managing Peri-urban development; providing routes for infrastructure and slum prevention.
- 2010 November; Mombasa, Kenya: Global Land Tool Network (GLTN); workshop facilitator and trainer on gender evaluation criteria for African land professionals.
- 2010 Ghana Commission 8 delegate to the XXIV FIG INTERNATIONAL CONGRESS 11 – 16 April, Sydney participating in the following function in capacities as listed below;

- I. Chairman of TS 2E: Climate Change and Environmental Threats;
 - II. Chairman of TS 4E: Coasts and Natural Resources;
 - III. Rapporteur of TS 5J: Spatial Information for Climate Change Monitoring and other Natural Disasters Management;
 - IV. Chairman of FS 4E: Critical Infrastructure Development.
- 2010 Gh.IS / FIG / CASLE 25-28 February: Ghana Commission 8 delegate and presented a paper on “PERI URBAN DEVELOPMENT :The Role of Traditional Authorities and land professionals – An overview of Western Nzema Traditional area - Ghana”.
 - 2010 Food & Agriculture Organization (FAO) /Royal Institute of Chartered Surveyors (RICS) 25-26 January 2010 Private Sector Consultation Meeting: “FAO Voluntary Guidelines on responsible governance of tenure of land and other natural resources”- Ghana delegate and participant in setting up voluntary guidelines on the above theme.
 - 2009 Nominated Member, Africa Task force of FIG Chaired by Dr Diane Dumashie with a 5 year mandate to coordinate and organise African Associations of land professionals to partner traditional leadership in sustainable planning, capacity building and environmental resilience.
 - 2008 FIG Working Week 2008 – Integrating Generations and. FIG/UN-HABITAT TECHNICAL PROGRAMME AND PROCEEDINGS co authored a paper on “Standards and Quality Assurance; a need for The Land Surveyor in Implementing the Land Administration Project (Lap) of Ghana”
 - 2008 UN-HABITAT delegate to a Land Professional’s Workshop in Bagamoyo –Tanzania: Evaluation of Criteria for Land Tools in pro gender land management systems
 - 2008 International Conference in Munich, Germany “Policy meets land management” Contributions to the achievement of the millennium development goals.
 - 2006 FIG / Gh.IS delegate, fig regional conference participant / chairman technical tours and accommodation sub committee
 - 2005 Ghana Delegate, FIG Regional conference in Cairo Egypt - International Federation of Surveyors,
 - 1999 Ghana Institution of Surveyors- THE LAND SURVEYOR- a pillar in national development
 - 1994 Survey Dept./ RECTAS GDTA (France) National Seminar on remote sensing and GIS application for sustainable development and environment protection in Ghana

PROFILE:

Mr. Kwame Tenadu Snr. holds a Master of Arts Degree in Environmental Management and Policy, a Land Surveyor’s License, University Diploma in Geodetic Engineering and a Certificate in Land Surveying. He is a Professional Land Surveyor of the Ghana Institution of Surveyors and a Governing Council Member. He is a key member of the committee responsible for international relations and export of professional services, a member of and the current President of the Licensed Surveyors Association of Ghana www.lisag.org , a member of the International Federation of Surveyors and the Chair-Elect for Commission 8 in charge of spatial planning and economic development www.fig.net , an associate member of the Commonwealth Association of Surveyors and Land Economists and has had over 30 years experience in land surveying and land administration in both Ghana and Nigeria in West Africa.

In the Federal Republic of Nigeria, for nine years, he was extensively involved in major engineering projects such as the expansion of the Benin City airport in charge of setting out buildings, utility infrastructure and precision navigational systems. He was also engaged in studies for the expansion of the Warri and Koko seaports, and later, worked as lead Surveyor for survey, design and construction supervision of several kilometres of water distribution pipeline systems for several towns and Cities in the then Bendel State with OVE ARUP, an Israeli Consultancy firm.

In his later years in Nigeria, he joined Cubiertas Y Tejados (CYT), a leading Spanish company as Chief Surveyor, which had won a design and construct project of a dual carriage highway from Ogun State through Oyo to Kwara States of the Federal Republic of Nigeria.

Since his return to Ghana, he has been the Managing Director of Geo – Zenith Limited, a firm he founded since 1993. He has provided services to the Government of Ghana through the Director of Surveys in the areas of cadastral surveys, staking out of development schemes for residential use, contour mapping, and establishment of ground controls for photogrammetric mapping.

He was a key member of the survey team that studied and designed the dualization of the Accra – Kumasi highway, particularly the diversions at Apedwa and Anyinam by-passes.

He has engaged in others forms of acquisition of lands for mining, oil palm plantation development, and development of housing schemes, designed roads, rural electrification and water supply schemes.

He undertook the mapping; survey and acquisition of site for the Dutch Government supported Amansuri Conservation Integrated Development Project (ACID) for the Wildlife Society of Ghana, Beyin in the Western Region of Ghana. He was a Survey Consultant for His Excellency the President's special initiative on oil palm. He was the Surveying Consultant and later the site services coordinator to the Ministry of Education Sports and Science for the construction of a new Olympic size stadium which hosted the 2008 Confederation of African football tournament in Ghana (CAN2008) in Sekondi/Essipon and the ongoing Cape Coast Stadium.

In the area of land administration, he is a former Chairman of the Central Region Lands Commission (a Constitutional body that is clothed with the management of public and private lands within the region) and served as Chairperson of the standing, Stool and public lands management committees of the commission. Mr. Tenadu attends Court as Licensed Surveyor and an Expert witness in the determination and arbitration of land boundary disputes. He is advisor to His Eminence Cardinal Peter Appiah Turkson, the Papal President for peace and justice at the Vatican in Rome, and a retained land and property advisor for the Catholic Archdiocese of Cape Coast.

He was a Governing Council Member of the Ghana Institution of Surveyors for six years and was a member of several sub committees of Council. In February 2003 he became Individual Associate Member of the Commonwealth Association of Surveyors and Land Economist

He was a delegate to the International Federation of Surveyors (FIG) regional conference held in Cairo, Egypt in March 2005 and was later nominated to Chair the Technical Tour and Accommodation subcommittee of the International Federation of Surveyors / Ghana Institution of Surveyors (FIG-GHIS) joint Regional Conference held in March 2006 in Ghana.

In 2008, he was invited by UN HABITAT and trained in the evaluation of criteria for land tools and pro gender responsive land management systems held in Tanzania and organized by the Global Land Tool Network (GLTN) as a land professional representing Ghana. In the same year he was invited by the Technical University of Munich (TUM) to attend a conference in Munich, to evaluate German government assistance to Ghana in pursuit of the millennium development goals.

He is also a serving member of the following organizations: member, Ghana Wildlife Society, Former Chairman, Ghana National Chamber of Commerce and Industry (Cape Coast Branch), Chairman Central Region Shippers Council and Member, Association for the Protection of Historical and Archaeological Sites.

Mr. Tenadu has also associated with different Consultants for the provision of detailed studies on Land Use Planning and settlement development for the Ada Songhor Lagoon area for the Minerals Commission of Ghana, and again, to the World Bank supported Urban Environmental Sanitation programme for the design revision of Odaw, Onyasia and Dzorwulu basins by WATERTECH.

In the area of mining, He was the team leader for a major mine evaluation study to provide topographical data for bauxite ore development at Ichiniso and Kanayerebo concession near Awaso, a concession of Alcan Canada/Ghana Bauxite Company Limited, doing also a bi-yearly ore stockpile volume measurements for auditing.

In the late nineties, he was involved in establishment of survey control points for then Western Goldfields at Wassa Akropong, demarcation of concession boundaries, detailing of crop farms and assessment for Tournghan Ghana Limited of Tarkwa at Bawdie as well as Golden Rule Resource's prospecting area at Adjakaa Manso all in the western region.

He has been part of an engineering team that has carried out several foundation and geotechnical investigation studies in association with Geological Survey of Ghana on major construction sites such as the Esipon stadium in Sekondi, Cape Coast Stadium, a limestone concession boundary survey and foundation studies for mining and cement manufacturing plant at Buipe, northern Ghana.

He has also carried out Environmental Impact Assessment and auditing for the ongoing Cape Coast sports stadium.

Currently he is consulting for the Ministry of Agriculture under the Twifo Oil Palm Plantations' (TOPP) Out grower scheme which is being supported by the Agence Francais de Development (Afd) to enumerate and create ownership and title database for all small plantation holders on this ten year project.

SPECIALIST CAPABILITY

Kwame is multi – lingual and has working knowledge level of French and Spanish. He also has over twenty year's specialist experience in surveying, land administration and management and business strategies with environmental and sustainable issues. Experience gained in a Land Use and Planning Consultancy adds to his management capability in Land and Resource Management and interest in community development issues relating to urban and rural development. This, combined with Land Information Management experience enables him to add significant value in land, real estate, rural large scale agricultural enterprises, and community development. He has a professional Mediation certification as an Alternative Dispute Resolution (ADR)

COMMITTEE AND BOARD MEMBERSHIP

- 2012 Chair Elect: International Federation of Surveyors (FIG) Commission 8 on spatial planning and Economic Development (www.fig.net)
- 2012 Governing Council Member of the Ghana Institution of Surveyors
 - Vice Chair, Committee on public and International Relations and Export of professional service
 - Member of Finance Committee
- 2010 Member of the committee on draft land bill, chapter on survey and mapping for the republic of Ghana:
- 2010 FIG Member of African Task Force
- 2010 Ghana Institution of Surveyors; Liaison of FIG/Gh.IS
- 2009 to date: Advisor on land and property to Catholic Archdiocese of Cape Coast on the Cape City Project
- 2005- to date: Central Regional Chair; Ghana Institution of Surveyors
- 2008-to date: Central Regional Chair; Ghana Shippers Council
- 2005- to date: President, Licensed Surveyors Association of Ghana (www.lisag.org)
- MEMBER OF GOVERNING COUNCIL OF THE GHANA INSTITUTION OF SURVEYORS FOR 2001/2002, 2002 / 2003, AND 2003/2004 2004/2005 SESSIONS
 - (a) FINANCIAL SECRETARY/TREASURER LAND SURVEY DIVISIONAL COMMITTEE (GHANA INSTITUTION OF SURVEYORS)
 - (b) MEMBER OF THE EXECUTIVE COMMITTEE LAND SURVEYING DIVISION (GHANA INSTITUTION OF SURVEYORS)
 - (c) MEMBER CONTINUOUS PROFESIONAL DEVELOPMENT(CPD), FINANCE, WELFARE, AND LAND SURVEY DAY PLANNING COMMITTEE (LAND SURVEY DIVISION OF GHANA INSTITUTION OF SURVEYORS)
 - (d) MEMBER OF THE PUBLIC AFFAIRS COMMITTEE OF COUNCIL (GHANA INSTITUTION OF SURVEYORS)
 - (e) MEMBER, COMMITTEE FOR THE DRAFTING OF SURVEY COUNCIL LAW;GHANA INSTITUTION OF SURVEYORS
- 2002 - 2004 : Chairman of Central Region Chamber of commerce

- 2000 – 2001: Chairman of the Central Region Lands Commission
- 1998-2002 : Executive Council Member: Association for the protection of historical and archaeological sites (APHAS)

KEY SPECIALIST FIELDS

TRAINING AND CAPACITY BUILDING

- Consulted for Thomson Reuters, formerly International Land Systems (ILS) /USAID by conducting a comprehensive training needs assessment (TNA) and a training plan of the Department of Lands, Survey and Cartography of the Ministry of Lands and Mines of the republic of Liberia in June 2011.
- As a course lecturer in environmental sustainability and land administration, I have since January 2011 up to end of April 2011, offered training in leadership for managing change in land administration for the Lands Commission of Ghana senior management team (a collaboration between Swedesurvey of Sweden and Geotech Systems of Ghana)
- As a core member of the FIG's Africa task force under a five year mandate, I have as a resource person, helped to build capacity and provide training through workshops for Africa land professionals in the areas of sustainability, resilience and urban development
- Mombasa, Kenya: Institute of Surveyors (ISK) Kenya/FIG Africa Task Force; As core member and workshop facilitator on developing "TOOLS" for African land professionals in managing Peri-urban development; providing routes for infrastructure and slum prevention.
- Mombasa, Kenya: Global Land Tool Network (GLTN); As workshop facilitator and trainer on gender evaluation criteria for African land professionals.
- As a resource person lecturing in cadastral survey for candidates applying to join the Ghana Institution of Surveyors
- As President of the licensed surveyors Association of Ghana, I offer leadership and training to members of the Association in key areas of land administration.
- Offer periodic professional and technician training for graduate and non graduate land surveyors in cadastral survey, mapping, and engineering surveys.

LAND MANAGEMENT CONSULTANCY

- Land Acquisition,
- Property development advice and management,
- Strategic Corporate advice on land management,
- Project Management, Plantation Development and rural regeneration,
- Feasibility studies, Land administration, Acquisition, and Resource Management,
- Expert witness on land boundary and ownership determination at the Judicial Service of Ghana (Circuit up to the Supreme Courts).

PROFFESIONAL PRACTICE

1993- Present: Founder and Managing Director, Geo-Zenith Limited.

As the Managing Director of the above named Company I have responsibility for overall policy direction, leadership of this budding company. I have also had varied exposure and experience in projects relating to development management, land and property regeneration, land acquisition and development processes, land administration and asset management, construction supervision and construction as built management.

COUNTRIES WORKED IN

Ghana, Nigeria, Tanzania, Kenya, Liberia

PROFESSIONAL PRACTICE

NOVEMBER 1993 – PRESENT

EMPLOYER

GEO – ZENITH LIMITED

POSITION

MANAGING DIRECTOR AND PROJECTS COORDINATOR

JULY 2011 – MAY 2012

Demarcation of boundary and detailing of encroachment on the property of the Ghana ports and harbours authority at Kasoa in central region

APRIL 2009 – PRESENT

Demarcation and documentation of land parcels for oil palm out grower project: Twifo oil palm plantations limited

MARCH 2009 – PRESENT

Site acquisition and engineering survey for the cape city foundation: catholic archdiocese of cape coast

JUNE 2005 – NOV 2007

Acquisition, demarcation and documentation of land and setting out and monitoring of earthworks for the can 2008 stadium project for Sekondi and cape coast

AUGUST 2005 – MARCH 2007

Associated with Kesse Tagoe and associates to carry out studies for the preparation and formulation of a land use plan for ada songhor salt basin for the minerals commission of Ghana

AUGUST 2002 – 2004

Acquisition, demarcation and documentation of land parcels for the senior staff association, cocoa marketing board Accra and the senior staff association, cocoa research institute, Tafo

MARCH 2002 – SEPTEMBER 2002

Team leader, survey for the dualization of Accra – Kumasi road (Apedwa junction to Anyinam section)

AUGUST 2001 – PRESENT

Consultant to the government of Ghana / survey department for the provision of sectional maps for land title registration of Accra district 010, section 276 and section 277

MAY 2001 – DECEMBER 2001

Consultant on mapping of the Amansuri conservation intergrated development project (acid) for wildlife society of Ghana, Beyin, western region

JUNE 2001 – 2006

Consultant to the government of Ghana on the provision of photogrammetric ground controls for mapping of Shama-Ahanta district in the western region

SERVICE ON BOARDS AND INSTITUTIONS

MARCH 2001 – 2006

EMPLOYER

GHANA INSTITUTION OF SURVEYORS

Member of council of the Ghana institution of surveyors for 2001/2002, 2002 / 2003, and 2003/2004, 2004/2005 sessions

- (f) Financial secretary/treasurer land survey divisional committee (Ghana institution of surveyors)
- (g) Member of the executive committee land surveying division (Ghana institution of surveyors)
- (h) Member continuous professional development(cpd), finance, welfare, and land survey day planning committee (land survey division of Ghana institution of surveyors)
- (i) Member of the public affairs committee of council (Ghana institution of surveyors)
- (j) Member, committee for the drafting of survey council law (Ghana institution of surveyors)

APRIL 2000- SEPTEMBER 2001

EMPLOYER

CENTRAL REGION LANDS COMMISSION

POSITION

1. Chairman of the board of the central region lands commission
Charged with
 - (a) the management of public lands and all lands vested in the president of the republic of Ghana in the region.
 - (b) advise the government, local authorities and traditional authorities on policy framework for the development of particular areas of the region to ensure that the development of individual pieces of land is coordinated with the relevant development plan for the area concerned.
 - (c) formulate and submit to government recommendations on national policy with respect to land use and capability.
 - (d) advise on, and assist in the execution of, a comprehensive programme for the registration of title to land throughout Ghana
 - (e) perform such other functions as the minister responsible for lands and natural resources may assign to the commission.
2. Chairman of the standing, stool and public lands management committees of the central region lands commission.

EMPLOYER

**OCTOBER 2001- 2004
LAND FOR LIFE (NGO)**

POSITION

EXECUTIVE COUNCIL MEMBER

Non profit non-governmental organization for advocacy in sustainable land use and land management systems in Ghana.

FEBRUARY 2002- 2004

EMPLOYER

GHANA NATIONAL CHAMBER OF COMMERCE AND INDUSTRY

POSITION

- (a) acting chairman – central regional branch
- (b) national executive committee member

Coordinating and steering the private sector business concerns in the central region of Ghana

MARCH 1998 – PRESENT

EMPLOYER

**ASSOCIATION FOR THE PROTECTION OF HISTORICAL AND
ARCHAEOLOGICAL SITES (APHAS), CAPE COAST - GHANA**

POSITION

executive member in charge of public affairs

1991 – 1993

EMPLOYER **Geo Engineering Surveys And Benavid Ent. Accra**
PROJECT Land Title Registry/ Survey Dept.
DUTIES part time work on title registration survey in accra

PROFESSIONAL PRACTICE IN FEDERAL REPUBLIC NIGERIA

JANUARY 1986 – FEBRUARY 1989 (FEDERAL REPUBLIC OF NIGERIA)

Employer **Zungus Engineering Surveys / Ove Arup (Nigeria Ltd.)**
Position Surveyor
Project (A) Benin Onwena River Basin Development Authority
Duties Acquisition Survey, Preparation Of Contour Maps, Setting Out
Of Access Roads, Setting Out Of Clay Dams Etc.
Project (B) Housing Scheme Kaduna Textiles Ltd.
Duties Demarcation, Setting Out And Leveling
Project (C) Ajaokuta Steel Mill
Duties Team Leader For The Acquisition Of Over 20,000 Acres Of Land
For The Largest Steel Mill In West Africa, Lay Out Of
Infrastructure For A Modern Township
Project (D) Nigeria Ports Authority, Koko Bendel State
Duties Survey For Rehabilitation And Expansion Of Above Seaport
Project (E) Bendel State Water Board
Duties Line Surveys And Detailing For Pipeline And Water Distribution
Network And Booster Stations For Several Townships In Bendel
State Of Nigeria, Over 250 Km. Of Line Survey.

MAY 1983 – DECEMBER 1985 (FEDERAL REPUBLIC OF NIGERIA)

EMPLOYER **CUBIERTAS Y TEJADOS (NIGERIA LTD.)**
Position Surveyor
Project Badagry Igbhoho Sokoto Express Road
Duties Surveying For Engineering Studies And Setting Out Of 80 Km.
Dual Carriage Road

AUGUST 1982 – MAY 1983 (FEDERAL REPUBLIC OF NIGERIA)

EMPLOYER **HIDROAD CONSTRUCTION COMPANY NIGERIA LIMITED**
Position Surveyor
Project Survey For The Benin City Airport Rehabilitation
Duties Setting Out, As Built Measurements, Computations.

PUBLIC SERVICE IN GHANA

JANUARY 1982 – AUGUST 1982 (GHANA)

EMPLOYER	SURVEY DEPARTMENT OF GHANA
Position	Technical Officer
Duties	Surveying And Computations

HOBBIES

(a) interest in social clubs and societies, studies and interest in traditional and local material for rural and urban housing development using appropriate technology in ghana.

(B) Debating On Topical Issues About Land Administration And The Land Survey Profession

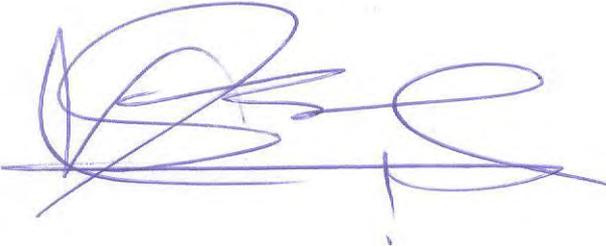
(C) Member Of The Ghana Wildlife Society With Interest In The Conservation Of Wetlands

(D) Farming

REFEREES

J. T ODAMTEY
DIRECTOR OF SURVEYS GHANA
P. O. BOX CT 903
CANTONMENT ACCRA.

TEL 233-21-777334

A handwritten signature in blue ink, appearing to be 'J. T. Odamtey', is written over a horizontal line. The signature is stylized and somewhat illegible.



Nomination Template for Commission Chair Elect 2013-2014

Commission no:8

Nominee	
Name:	KWAME TENADU
Member association:	GHANA INSTITUTION OF SURVEYORS
Country:	REPUBLIC OF GHANA
Contact address:	F104/3 ABOOM WELLS ROAD. P.O. BOX CC 564, CAPE COAST, GHANA
Email address:	tenaduk@yahoo.com / kwametenadu@gmail.com www.geozenithghana.com
Age:	52
Degrees and educational background:	Certificate in surveying; Diploma in Geodetic Engineering; Master of Arts in Environmental Management and Policy
Employment history - current position - previous	<ol style="list-style-type: none">1. Managing Director of Geo Zenith Limited2. Chairman of Central Region Shipper Committee of the Ghana Shippers Authority3. President of Licensed Surveyors Association of Ghana
Positions of trust - current - previous	<ol style="list-style-type: none">1. Regional Chair of Ghana Institution of Surveyors, Central from 2001 to date2. Board Member, Association for the protection of Archaeological and Historical Sites (APHAS) 1998 – date3. Central Region Chamber of Commerce from 2002-20044. Member of the Governing Council of Ghana Institution of Surveyors (GhIS) from 2001 – 20055. Advisor on land and property to the Catholic Archdiocese of Cape Coast since 20096. Member of the Cape City project of the Catholic Church since 2009
Positions in FIG - current - previous	<ol style="list-style-type: none">1. Active Commission 8 Member for several years (From 2005 till date)2. Chair of Accommodation and Technical Visit for FIG/GhIS Regional Conference in Accra, Ghana, in 20063. Chair of Technical Sessions and Rapporteur at working session and Regional conferences at XXIV International Congress 11-16 April, 2010 in Sydney Australia



Nomination Template for Commission Chair Elect 2013-2014

	<ol style="list-style-type: none">4. 2010 Ghana Commission 8 delegate to the XXIV FIG INTERNATIONAL CONGRESS 11 – 16 April, Sydney participating in the following function in capacities as listed below;<ol style="list-style-type: none">I. Chair of TS 2E: Climate Change and Environmental Threats;II. Chair of TS 4E: Coasts and Natural Resources;III. Rapporteur of TS 5J: Spatial Information for Climate Change Monitoring and other Natural Disasters Management;IV. Chair of FS 4E: Critical Infrastructure Development.5. Core Member of the Africa Task Force of Commission 8 and a key resource person in conferences and workshops 2009 & 2010.
Other activities in FIG	<ol style="list-style-type: none">1. Involved in Commission 4 activities on hydrographic survey awareness creation in Africa (held at Lokoja, Nigeria on 24-26 November 2011)2. Presented a paper at this conference on Hydrographic survey in Ghana3. Received award from working group 4.5 of Commission 4 (Hydrography) for service to the survey profession in Africa; 25th November 20114. As a core member of the FIG's Africa Task Force under its five year mandate, is to build capacity and provide training through workshops for Africa Land professionals in the areas of sustainability, resilience and urban development<ul style="list-style-type: none">○ Building capacity and needs assessments for Land professional Associations in Africa○ Planning and implementing workshops on selected themes○ Workshop facilitator○ Liaison of International Federation of Surveyors (FIG) and the Ghana Institution of Surveyors5. 2010 - Mombasa, Kenya: Institute of Surveyors (ISK) Kenya/FIG Africa Task Force; As core member and workshop facilitator on developing "TOOLS" for



Nomination Template for Commission Chair Elect 2013-2014

	<p>African Land professionals in managing Peri-urban development; providing routes for infrastructure and slum prevention.</p> <ul style="list-style-type: none"> ○ Workshop facilitator ○ Presentation of papers <p>6. 2010 - Mombasa, Kenya: Global Land Tool Network (GLTN); as workshop facilitator and trainer on gender evaluation criteria for African Land professionals.</p> <p>7. Attended RICS/FIG/FAO conference on establishing voluntary guidelines on responsible governance on tenure of land and other natural resource in London, UK (from 25-26 January 2010.)</p> <p>8. Presented paper on Standards and Quality Assurance; A Need for the Professional Land Surveyor in Implementing the Land Administration Project (LAP), Ghana under commission 1; (FIG Working Week 2008 in Stockholm, Sweden)</p>
Field of surveying discipline	Land Surveying and; Environmental Policy & Management
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	<p>Capacity building and technology transfer through professional networking and knowledge management will be key in attaining sustainable development across the globe. While Africa lags behind in development, I personally have a vision and a mission of using traditionally established systems, tried and tested norms of developing societies to advance sustainable development.</p> <p>My key focus will be to integrate western development concepts with standards and norms of developing countries. I would also specifically focus on creating synergies between the Anglophone and Francophone National Surveying Associations.</p> <p>I would use my skills and training in gender, pro poor land management principles in engendering societal values.</p>
What I can offer to FIG in support of the aims and objectives of the Commission	<ol style="list-style-type: none"> 1. Commitment, service and unflinching support in developing and deploying ways and means of achieving set objectives of the Commission 2. Strategic alignment of resources of Member Associations in bridging gaps and offering training and capacity building across the globe. 3. Strategic leadership for the implementation of road maps and agenda of the Commission
My key skills	Multi Lingual, (English – good; French –fair; Spanish – fair) inter personal skill, communicator, training and facilitation in



Nomination Template for Commission Chair Elect 2013-2014

	gender issues, leadership, team building and professional educator. Community and Cooperate Governance.
Any other general comments	Africa abounds in natural and human resources however lack of, and or absence proper planning systems has been cited as one the key reason for the many challenges facing the continent. Sharing knowledge amongst and between professional associations becomes very useful and it is my hope that my election will provide an opportunity to sharing ideas across the world.

Nominator	
Name of member association	GHANA INSTITUTION OF SURVEYORS
Name and title of contact person	Surv. ROBERT DWAMENA, FGhIS, PRESIDENT, GHANA INSTITUTION OF SURVEYORS, PALMA HOUSE ACCRA - GHANA
Contact address	P.O.BOX 916, ACCRA, GHANA
Email address	info@ghisonline.org
Website	www.ghisonline.org
Nominator's statement	
Why the association wants to nominate Nominee	<ul style="list-style-type: none"> ➤ Surv. Kwame Tenadu MGhIS, has participated at a number of FIG Congresses and; ➤ Has been a Facilitator and a Resource Person at a number of FIG WWs, ATF Workshops (see dates above); ➤ Has been the voice of Ghana Institution of Surveyors at WWs, etc when the Institution could not be present, having paid his way without its support.
Support the association can offer the Nominee (financial and other)	<ul style="list-style-type: none"> ➤ Ghana Institution of Surveyors will endeavour to offer all necessary support to Surv. Kwame Tenadu, would need to a true ambassador of Commission 8, face of Africa and the Institution. ➤ Where he will need financial support GhIS will assist if in a position to do so, or assist in obtaining sponsorship. ➤ Will ensure he delivers as Commission 8 Chair with utmost efficiency, while assisting him get Surveyors in Ghana to participate fully in all FIG programs and activities.
Any other comments	Ghana has not been able to play a very effective role in FIG programs and activities and we believe the time is now for it to have a face and a link.



Nomination Template for Commission Chair Elect 2013-2014

Signed

I hereby certify the above is true and correct

Date	December 23, 2011
Nominee	<i>Surv. Kwame Tenadu Sur</i> MGh.IS
Nominator	Surv. Robert Dwamena FGh.IS

中国房地产估价师与房地产经纪人学会

18th March, 2014

Nomination from CIREA

The Vice President of China Institute of Real Estate Appraisers and Agents (CIREA), Dr. Liao Junping, has been elected as the Chair of commission 9, FIG during the period 2015-2018. Therewith, CIREA feel glorious as well, and will support Dr. Liao's activities with FIG with financing and logistics. CIREA is sure that Dr. Liao will serve FIG and commission 9 with enthusiasm and specialized knowledge, to seize a better and brighter future.



Chai Qiang

Vice President and Secretary General

China Institute of Real Estate Appraisers and Agents



Nomination Template for Commission Chair Elect 2013-2014

Commission no:9

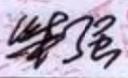
Nominee	
Name:	LIAO Junping
Member association:	China Real Estate Appraisers and Agents
Country:	China
Contact address:	Lingnan College, Sun Yat-sen University, 135 Xin Gang Xi Road, Guangzhou, 510275, China
Email address:	liaojp@mail.sysu.edu.cn
Age:	48
Degrees and educational background:	PhD, Economics MSc, Management BSc, Civil Engineering
Employment history - current position - previous	Professor, Sun Yat-sen University, China
Positions of trust - current - previous	
Positions in FIG - current - previous	
Other activities in FIG	Representative of CIREA to FIG
Field of surveying discipline	Real estate appraisal and economics
Nominees statement	
Why I want to be a Commission Chair and what I would like to achieve	To promote the vision of FIG to China, the country with the most population of the world. To share the experience from China with the members of FIG To make more understanding between the members of FIG.
What I can offer to FIG in support of the aims and objectives of the Commission	CIREA is the organization of real estate appraisers and agents. It maintains good relations with the organizations in appraisal and agency industry of many countries. As the Vice President of CIREA and if I could be the Chair of Commission 9, I will work with the delegates from other real estate related organizations, to work out more industrial standards.
My key skills	Communicating ability. Cooperativeness.
Any other general comments	I've involved in the activities within FIG for ten years and have worked with three Chairs of Commission 9 and the other members in Commission 9 and other commissions. I've learnt much from them and have been looking forward to



Nomination Template for Commission Chair Elect 2013-2014

_____ serving them with my efforts.

Nominator	
Name of member association	China Real Estate Appraisers and Agents
Name and title of contact person	Dr. Chai Qiang, Executive Vice President and Secretary-general
Contact address	11th Floor, Building 7, Interwest Business Center, 9 Shou Ti South Road, Haidian District, Beijing
Email address	Dr.Chq@263.net
Nominator's statement	
Why the association wants to nominate Nominee	Dr. Liao is the Vice President of CIREA and has co-worked with FIG for many years as the representative of CIREA to FIG. He has rich experiences in international cooperations and has good communication with colleagues in FIG.
Support the association can offer the Nominee (financial and other)	CIREA will support Dr. Liao's activities with FIG with financing and logistics.
Any other comments	

Signed	
I hereby certify the above is true and correct	
Date	February 6 th , 2012
Nominee	
Nominator	



March 12, 2014

Ms. Louise Friis-Hansen
FIG Manager

International Federation of Surveyors
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Tel. + 45 3886 1081
Direct: + 45 9391 0810
louise.friis-hansen@fig.net
www.fig.net

Dear Louise

***Re: RICS letter of nomination for the appointment of See Lian Ong FRICS as FIG
Commission 10 chair***

We would like to take this opportunity to re-confirm the RICS nomination of See Lian Ong FRICS for the position of FIG Commission 10 chair.

Yours Sincerely



James Kavanagh MRICS
Director Land Group
RICS
Tel: 0044 (0) 207 695 1598
Email: jkavanagh@rics.org
Web: <http://www.rics.org/land>
Twitter: @jkavanagh99



Nomination Template for Chair Elect

Commission no. 10 (Construction Economics and Management)			
Nominee			
Name	See Lian <u>ONG</u>		
Country	United Kingdom / Malaysia		
Contact Address	28 Jalan PJU 7/26 Mutiara Damansara, 47810 Petaling Jaya, Selangor, Malaysia		
E-mail address	Slong1951@gmail.com		
Age	62		
Degrees and educational background	<p>Academic Qualification: B.Sc. (Hons.) in Quantity Surveying (University of Reading, UK)</p> <p>Professional Qualifications:</p> <ul style="list-style-type: none"> - Fellow of Royal Institution of Chartered Surveyors (FRICS) - Fellow of Royal Institution of Surveyors Malaysia (RISM) - Fellow (Hon.) of Hong Kong Institution of Surveyors (FHKIS) - Fellow (Hon.) of Association of Real Estate Securitisation, Japan (FARES) - Fellow (Hon.) of China Appraisal Society (FCAS) - Fellow of College of Estate Management, UK - Distinguished International Fellow of International Cost Engineering Council (DIF) - Registered Quantity Surveyor, Board of Quantity Surveyors Malaysia - Accredited Mediator, Construction Industry Development Board, Malaysia 		
Employment history - current position - previous	<u>Year</u>	<u>Post</u>	<u>Firm</u>
	2012 – current	Consultant	Cluttons LL, UK
	2012 - current	Head of Delivery	Prima Prai Group, Malaysia
	2010-2011	Consultant	Davis Langdon & Seah Malaysia
	1994-2010	Partner / Director	Davis Langdon & Seah Malaysia
	1989-1994	Technical Director	Davis Langdon & Seah Malaysia
	1982-1988	Senior Associate	Davis Langdon & Seah Malaysia

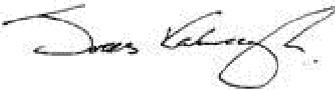
	1980-1982	Senior QS (Superscale)	PWD H/Q, KL
	1978-1980	Senior QS (Senior Time-Scale)	PWD H/Q, KL
	1975-1978	State QS	PWD, Penang
	1974-1975	Quantity Surveyor	PWD H/Q, KL
Positions of trust - current - previous	<u>Year</u>	<u>Post</u>	<u>Institution</u>
	2011-2012	Global President	Royal Institution of Chartered Surveyors
	2010-2011	President-Elect	Royal Institution of Chartered Surveyors
	2009-2010	Vice-President	Royal Institution of Chartered Surveyors
	2005-2010	Chairman, Asia Board	Royal Institution of Chartered Surveyors
	2005-2007	Executive Council Member	Surveyors Alliance Asia (SAA)
	2005-2006	Chairman for Scholarship Fund Committee	Institution of Surveyors, Malaysia
	2005-2006	Past President representing QS Division	Institution of Surveyors, Malaysia
	2004-2005	Immediate Past President	Institution of Surveyors, Malaysia
	2003-2004	President	Institution of Surveyors, Malaysia
	2002-2003	Vice President	Institution of Surveyors, Malaysia
	2003-2010	Management Committee Member	Board of Quantity Surveyors Malaysia
	2002-2010	Member of Advisory Panel for MSc Programme in Construction Contract Management	Universiti Teknologi Malaysia, Johor
	2002-2003	External Examiner for Quantity Surveying Programme	Universiti Sains Malaysia, Penang
	2001-present	Chairman of Sub-Committee for QS Act & Rules (Amendments)	Board of Quantity Surveyors Malaysia
	2001-2002	Chairman (QS Division)	Institution of Surveyors, Malaysia

	2001-2010	Board Member	Board of Quantity Surveyors Malaysia
	2000-2001	Council Member	Institution of Surveyors, Malaysia
	2003-2005	Chairman	Pacific Association of Quantity Surveyors (PAQS)
	2001-2003	1st Vice-Chairman	PAQS
	1999	Committee Member	3rd PAQS Organising Committee
	1997-2002	Chairman of Drafting Committee of the Standard Forms of Building Contract	Construction Industry Development Board of Malaysia (CIDB)
	1995-2003	Member of Consultants Appointment Committee	Kumpulan Guthrie Berhad
	1995-1997	Member of Tender Committee	Kompleks Kewangan Malaysia Bhd
	1991-1995	Chairman of Tender Committee	Kompleks Kewangan Malaysia Bhd
	1986-1987	Member of the Review Committee to examine the contracts and feasibility of projects by SPPK	Permodalan Nasional Berhad
	1982-1985	Committee Member	Institution of Surveyors, Malaysia (ISM)
	1987-1989	Vice Chairman	QS Division, ISM
	1993-1995	Chairman	QS Division, ISM
	1983-1984	Member of Library Committee	Institution of Surveyors, Malaysia
	1984-1987	Member of Examination Board	Institution of Surveyors, Malaysia
	1985-1987	Council Member	Institution of Surveyors, Malaysia
	1985-1989	Chairman of the Standing Committee for Revision of Standard Forms of Building Contract	Institution of Surveyors, Malaysia
	1993-1995	Disciplinary Committee	Institution of Surveyors, Malaysia
	1978-1982	Secretary to JKR 203 Forms	Public Works Department

	<p>of Contract Revision Committee</p> <p>1978-1982 Member of Permanent Committee on Fluctuation of Prices for Contract Works Public Works Department</p> <p>1979 Member of Delegation to London for Assessment of Contractor's Claim on Pahang River Bridges Contract Public Works Department</p> <p>1980-1982 Member of Working Group for Negotiation on Contractor's Claim Claim on Kuantan Port Project Public Works Department</p> <p>1980-1981 Member of Committee for drafting Conditions of Contract for Penang Bridge Project Public Works Department</p>
Positions in FIG - current - previous	N/A
Other activities in FIG	2012 Working Group, Rome – Representing RICS at the Presidents' Council And also spoke at a session on Building Information Modelling
Field of surveying discipline	<ul style="list-style-type: none"> - Quantity Surveying, Construction Economics and Cost Management - Project Management - Value Management - Disputes Resolution
Nominees Statement:	
Why I want to be a Commission Chair and what I would like to achieve	<p>I hope to provide leadership to Commission 10 in order to draw in the expertise in the field of Construction Economics and Quantity Surveying to FIG and also to create an influence in the international arena.</p> <p>I can draw from my past experiences and networking as President of RICS, President of RISM, Chairman of PAQS and Council of Advisors in ICEC to bring the profession of Quantity Surveying, Construction Economics and Management to the next level and to share the knowledge in many of the developing world through FIG.</p>
What I can offer to FIG in support of	<p>The Mission Statement of Commission 10 are:</p> <ul style="list-style-type: none"> - To advance the professional practice of surveyors working in all disciplines of Construction Economics, Commercial Management and Project

the aims and objectives of the Commission	<p>Management</p> <ul style="list-style-type: none"> - To research and identify “best practice” of surveyors working in different cultures and economies - To facilitate the exchange and interchange of information, knowledge and experience between surveyors - To publicise and promote the work of surveyors to the public, particularly young people, governments and non-governmental organisations, and enhance its perception of the value of surveyors and the services that they deliver - To co-operate and work with fellow surveyors in all branches and groupings of the profession to further the objectives of FIG <p>These are noble aims and objectives and I hope to provide some leadership skills and drive to achieve those objectives.</p>
My key skills	Besides my technical skills in the field of my professional expertise, I believe my key skills are in leadership and people management. We need teamwork to achieve the many objectives of the organization and I can draw on people from different parts of the world to contribute their ideas and time to achieve the objectives of the organization.
Any other general comments	

Nominator	
Name of member Association	Royal Institution of Chartered Surveyors
Name and title of contact person	James Kavanagh – Director Land Group, Faculties and Forums (on behalf of RICS President)
Contact address	12 Great George Street, Parliament Square, London SW1P 3AD, United Kingdom
Email address Tel: Fax:	jkavanagh@rics.org
Nominator’s statement	
Why the association wants to nominate Nominee	To take on the further strategic direction of an increasingly important commission. See Lian is an excellent ambassador for RICS and has a deep understanding of the global profession.
Support the Association can offer the Nominee	RICS operates a full delegation to FIG with committed resources (2 mtgs PA) and extensive use of online

(financial and other)	mtg technology, delegates are funded (after discussion) for FIG working weeks etc.
Any other comments	
Signed I hereby certify the above is true and correct	
Date	29/04/13
Nominee	See Lian Ong
Nominator	RICS – James Kavanagh/Gary Strong 



Österreichische Gesellschaft für Vermessung und Geoinformation

Austrian Society for
Surveying and Geoinformation

Schiffamtsgasse 1-3
A-1020 Wien
Tel.: +43 1 / 211 10 / 3703
E-Mail: office@ovg.at
Internet: www.ovg.at

18 March 2014

FIG International Federation of Surveyors
p. a. Ms. Louise Friis-Hansen
FIG Manager
Kalvebod Brygge 31-33
1780 Copenhagen V
Denmark

Nomination of Eva-Maria Unger for FIG Young Surveyors Network Chair

This letter is to confirm the nomination of Ms Eva-Maria Unger as Chairperson of FIG Young Surveyors Network and the provision of any support after her formal nomination as Chairperson of FIG Young Surveyors Network in the General Assembly to be held in Kuala Lumpur / Malaysia in June 2014 by co-funding travel costs and operational costs for running the daily business resulting from the function throughout her term of office 2015-2018 starting on 1 January 2015.

BEV, to which the Chair Elect is affiliated, will provide assistance for office facilities as well as for operational support.

Ms Eva-Maria Unger has been a very active representative of the Austrian Society of Surveying and Geoinformation OVG in FIG Young Surveyors Network for many years. She was involved and co-organised various events, trainings and workshops related to the Network and FIG in general.

Networking and establishing permanent links between OVG and national partner associations as well as with international associations and NGOs is one of the merits of Ms Eva-Maria Unger since her long-term involvement as a member of the Executive Board of OVG.

Her enthusiasm and commitment to work for the benefit of young professionals and for the objectives of FIG is to be seen as an important asset for the function of a FIG Young Surveyors Network Chairperson.

A handwritten signature in blue ink, appearing to read 'Gert Steinkellner'.

Gert Steinkellner
President of OVG

Herausgeber der einzigen Zeitschrift für Vermessung und Geoinformation in Österreich

Bank: PSK BLZ: 60000 Konto-Nr.: 119 0933
BIC: OPSKATWW IBAN: AT21600000001190933

UID: ATU37169808
ZVR-Zahl: 403011926