

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



International Federation of Surveyors

## **General Assembly**

### **AGENDA AND APPENDICES**

**13 and 17 May 2007**

**Kowloon Shangri-La  
Hong Kong SAR, China**



**INTERNATIONAL FEDERATION OF SURVEYORS****FIG 30<sup>th</sup> GENERAL ASSEMBLY****13 and 17 May 2007****Kowloon Shangri-La Hotel, Hong Kong SAR, China****PROGRAMME**

<b>Sunday, 13 May 2007</b>		
<b>Kowloon Shangri-La, Hong Kong SAR</b>		
Sunday	09:00-10:30	General Assembly, First Session
13 May	11:00-12:30 14:00-15:30	
	Grand Ballroom Kowloon Shangri-La	
Sunday	16:00-17:00	Commission Annual Meetings
13 May	See programme	
Sunday	18:30-20:30	Welcome reception
13 May	Orchid	(all participants – registration required)
	Kowloon Shangri-La	
<b>Monday, 14 May – Wednesday, 16 May 2007</b>		
<b>FIG Working Week 2007</b>		
<b>Kowloon Shangri-La, Hong Kong SAR – <a href="http://www.figww2007.hk">www.figww2007.hk</a></b>		
<b>Thursday, 17 May 2007</b>		
<b>Kowloon Shangri-La, Hong Kong SAR</b>		
Thursday	08:30-10:30	President's Meeting
17 May	Rose	for Presidents of Member Associations (or their
	Kowloon Shangri-La	representatives),
		by invitation only
Thursday	11:00–13:00	General Assembly, Second Session
17 May	Orchid	
	Kowloon Shangri-La	
Thursday	14:30– 16:00	Closing Ceremony
17 May	Orchid	
	Kowloon Shangri-La	

# FIG 30<sup>th</sup> GENERAL ASSEMBLY

## AGENDA

for the meetings to be held at the Grand Ballroom (13 May) and  
at the Orchid Room (17 May) at the Kowloon Shangri-La Hotel,  
Hong Kong SAR, China  
on 13 and 17 May 2006

### SUNDAY 13 OCTOBER

**Sunday 13 May, 09:00-10:30, 11:00-12:30 and 14:00-15:30**  
**Grand Ballroom, Kowloon Shangri-La**  
**General Assembly, First Session**

#### 1. OPENING PROCEEDINGS

President Stig Enemark to open the 30<sup>th</sup> General Assembly. That a moment of silence will be held to remember those members that have passed away after the latest General Assembly held in Munich in October 2006.

#### 2. ROLL CALL

Vice President Matt Higgins to take the roll call.

**Please note:** The roll call will be done for member associations only. Delegates representing affiliates, 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 in the meeting hall to the FIG Office Manager. Member associations are asked to inform the FIG Office by **30 April 2007** about their attendance and at the same time to submit the names of their delegates and to inform who is the leader of the delegation. That only member associations that have paid all their membership fees to the end of 2006 are allowed to vote at the meeting.

**Appendix to items 2 & 23:** Roll Call.

**Motion:** That present members are recorded in the minutes.

**Decision:**

#### 3. APPOINTMENT OF TELLERS

**Motion:** The General Assembly shall appoint two persons as tellers following the principle adopted at the 22<sup>nd</sup> General Assembly so that the tellers will represent member associations hosting the preceding (DVW – Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement) and the current General Assembly (the Hong Kong Institute of Surveyors, HKIS). That the General Assembly appoints Mr. Hagen Graeff from Germany and Mr. T.N. Wong from Hong Kong SAR, China as a teller for the two sessions of the General Assembly.

**Decision:**

#### 4. ADOPTION OF THE AGENDA

**Motion:** That the agenda be adopted.

**Decision:**

#### 5. ADOPTION OF THE MINUTES OF THE 29<sup>th</sup> GENERAL ASSEMBLY

Minutes have been circulated previously.

**Appendix to item 5:** Minutes of the General Assembly in Munich, Germany, October 2006, without appendices.

**Motion:** That the minutes be adopted as recorded.

**Decision:**

#### 6. MEMBERSHIP

##### 6.1 Acceptance of new members

##### 6.1.1 Romanian Association of Private Surveyors (APCGCR)

The Romanian Association of Private Surveyors (APCGCR) has submitted its membership application to become a member association of FIG. The association has 262 qualified and 36 qualifying members and in addition 27 members at technical level. The association represents private surveyors in Romania. The application is supported by the current member association from Romania, Union of Romanian Geodesy. The application meets the criteria for membership in FIG as a member association.

**Appendix to item 6.1.1:** Membership application from the Romanian Association of Private Surveyors (APCGCR)

**Motion:** That the Council proposes to the General Assembly that it admits the Romanian Association of Private Surveyors to become a member association of FIG.

**Decision:**

##### 6.2 Expulsions

The subscriptions of the following member associations are more than three years in arrears:

- Bahamas Association of Land Surveyors, The Bahamas
- Unión Nacional de Arquitectos e Ingenieros de la Construcción de Cuba (UNAICC), Cuba
- Singapore Institute of Surveyors and Valuers (SISV), Singapore
- Ordre des Géomètres du Togo, Togo
- Surveyors Institute of Zambia, Zambia
- Survey Institute of Zimbabwe, Zimbabwe

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 these member associations in Hong Kong.

By 13 March a reply has been received only from SISV, Singapore in which it informed that it withdraw its membership in FIG with immediate effect.

**Motion:** That the General Assembly expels the

- Bahamas Association of Land Surveyors, The Bahamas
- Unión Nacional de Arquitectos e Ingenieros de la Construcción de Cuba (UNAICC), Cuba
- Ordre des Géomètres du Togo, Togo
- Surveyors Institute of Zambia, Zambia
- Survey Institute of Zimbabwe, Zimbabwe

from the FIG membership if their membership fees still are in arrears 13 May 2007. That the General Assembly further expels the Singapore Institute of Surveyors and Valuers (SISV) from the FIG membership as the association has not paid its arrears to the Federation.

The Council further informs the members that it will expel all other members (affiliates, academic members and corporate members) whose membership fees are more than 2 calendar years in arrears.

**Decision:**

### 6.3 Other membership issues

#### Affiliates

The Council has admitted following organisation to become an affiliate member of FIG:

- Agency for Land Management, Geodesy under the Government of Tajikistan

After these changes the number of affiliate members is 20.

#### Corporate members

The Council has admitted the following company to become a Corporate Member of FIG:

- Bentley Systems, USA, Platinum member

The Council has registered that Josef Attenberger GmbH has cancelled its membership in February 2007. The Council has further registered that the membership of Kampsax A/S is now under COWI A/S.

The number of Corporate members is now 34.

#### Academic members

The Council wants to inform the General Assembly that 2 new Academic Members have joined FIG after the General Assembly in Munich. The new academic members are:

- School of Public Administration, Renmin University of China, Department of Land & Real Estate Management, China P. R.
- ECAM - Haute Ecole Leonard de Vinci, Département Construction, Belgium

The number of academic members is 87.

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

**Decision:**

## 7. HONORARY PRESIDENT

### Prof. Dr.-Ing. Holger Magel

DVW – Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement has sent the Federation a nomination letter in which it proposes that FIG appoints Prof. Dr.-Ing. Holger Magel, immediate Past President of FIG as an Honorary President of FIG.

According to paragraph 3.1.6 in the statutes “a past president who has rendered outstanding service to the Federation during his period of office can be appointed as an honorary president”. Nomination shall be made by a member association or by the Council, which will consider it and submit it to a vote of the General Assembly. The Council has considered the nomination and considers that it fulfills the criteria for an Honorary President and therefore decided to propose to the General Assembly that it appoints Prof. Dr.-Ing. Holger Magel as an Honorary President of the Federation for the outstanding services he has provided to the Federation as its President 2003-2006.

**Appendix to item 7:** The nomination letter from the DVW.

**Motion:** That the General Assembly appoints Prof. Dr.-Ing. Holger Magel an Honorary President of FIG.

**Decision:**

## 8. REPORT OF THE FIG COUNCIL 2003-2006

The FIG Council 2003-2006 has submitted an end of term report on the activities during its term of office 2003-2006.

**Appendix to item 8:** The An End of Term Report of the FIG Council 2003-2006.

**Motion:** That the General Assembly receives the report and records its thanks to the Council and its members for their excellent work and great contribution to FIG.

**Decision:**

## 9. PRESIDENT’S REPORT

The President of the Federation will give an oral speech at the meeting. The written version will be included in the minutes of the meeting.

**Motion:** That the General Assembly accepts the President’s report.

**Decision:**

## 10. REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS

### 10.1 The FIG Multi-Lingual Dictionary Board

DVW – Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement suggested in November 2006 to close the FIG Multi-lingual Dictionary Board, one of the three permanent institutions of FIG, because the work of the dictionary board has come to an end after 35 years. The Council decided to close the FIG

Multi-lingual Dictionary Board as an FIG permanent institution as proposed by DVW. The Multi-lingual Dictionary will be available on the web at:  
[http://www.bkg.bund.de/nn\\_5594/EN/FederalAgency/InformationServices/fig\\_\\_node.html\\_\\_nn=true](http://www.bkg.bund.de/nn_5594/EN/FederalAgency/InformationServices/fig__node.html__nn=true) and it will be linked from the FIG web site.

**Motion:** That the General Assembly endorses the closing the FIG Multi-lingual Dictionary Board and records its sincere thanks to DVW, BKG and the members of the Dictionary Board Prof. Dietmar Grünreich and Mrs. Sabine Kollenda for the outstanding work that they have provided during so many years.

**Decision:**

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

Prof. Paul van der Molen, Director of OICRF will make a short presentation on OICRF at the meeting.

**Appendix to item 10.2:** 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 Director the members of the permanent institution for their past year's work.

**Decision:**

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

Mr. Jan de Graeve, President of the IIHSM will make a short presentation on the permanent institution at the meeting.

**Appendix to item 10.3:** 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 the members of the permanent institution for their past year's work.

**Decision:**

11. REPORT OF THE PRESIDENT OF THE FIG FOUNDATION

Mr. John Hohol, President of the FIG Foundation will give a report on the activities of the FIG Foundation October 2006 – May 2007.

**Appendix to item 11:** Report of the FIG Foundation activities 2006.

**Motion:** That the General Assembly adopts the report of the President of the FIG Foundation.

**Decision:**

## 12. FIG WORK PLAN 2007-2010

The Council has prepared the FIG Council Work Plan for 2007-2010. Together with the FIG Aim, Objectives and Mission Statement (attached for information only) and Commission Work Plans the Council Work Plan will form the FIG Work Plan for the next four years.

Proposal for the Council Work Plan is attached to the agenda and is based on presentations made during the Council elections at the Congress in Munich and preparations made in two Council meetings and in a meeting with the Commission Chairs in February 2007.

President Stig Enemark will present the Work Plan at the meeting.

The Council has also decided on responsibilities of individual Council members. This list is attached for information of the members and will be updated by the Council as necessary. The updated list will be available on the FIG web site.

### **Appendix to item 12:**

**Appendix 12.1:** FIG Council Work Plan 2007-2010

**Appendix 12.2:** FIG Aim, Objectives and Mission Statement, for information only

**Appendix 12.3:** List of responsibilities of the Council Members, for information only

**Motion:** That the General Assembly adopts the Council Work Plan for 2007-2010.

### **Decision:**

## 13. CO-OPERATION WITH THE UNITED NATIONS AND THE WORLD BANK

The main issues in the co-operation with the United Nations and the World Bank co-operation during this period have been:

- Prof. Stig Enemark visited the World Bank in November (at that time as President Elect) discussing the memorandum of understanding between FIG and the World Bank. This MoU was then finalised in early 2007 and signed in March 2007. The MoU is brought for endorsement of the General Assembly in Hong Kong.
- FIG is committed to the UN-Habitat programme on Global Land Tool Network being one of the main partners in this network. The FIG Council has also established a Task Force to coordinate FIG activities with UN-Habitat. President Enemark will also participate the UN-Habitat Governing Council meeting in Nairobi in April 2007.
- FIG Council has also negotiated on action plan for 2007-2010 to implement the MoU with FAO. This action plan will extend the co-operation to Commission 9.
- FIG has also actively participated in the meetings of UN Office of Outer Space Affairs (UN OOSA)

As part of the Work Plan 2007-2010 the Council has decided to establish a Liaison Committee for co-operation with the United Nations. This Liaison Committee will be chaired by the President and take over the responsibilities of the former UN Liaison Group. A special task of this Liaison Committee will be to create and develop FIG responses to the Millennium Development Goals.

### **Appendix to item 13:** Memorandum of Understanding with the World Bank

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

**Decision:**

14. TASK FORCE ON DEVELOPING GLOBAL LAND TOOLS FOR PRO POOR LAND MANAGEMENT

The Council has established two Task Forces for 2007-2010. The first Task Force will focus on Developing Global Land Tools for Pro Poor Land Management. This Task Force is chaired by Vice President Paul van der Molen. It will work in close co-operation with commissions 7, 8 and 9 working groups whose chairs Christiaan Lemmen, Diane Dumashie and Bengt Kjellson are members of the task force.

**Appendix to item 14:** Terms of Reference for the Task Force on Developing Global Land Tools for Pro Poor Land Management.

**Motion:** That the General Assembly records the Council's decision of establishment of the Task Force on Developing Global Land Tools for Pro Poor Land Management and its terms of reference for information.

**Decision:**

15. TASK FORCE ON ORGANISATIONAL AND INSTITUTIONAL DEVELOPMENT

The Council has established two Task Forces for 2007-2010. The second Task Force will focus on Organisational and Institutional Development. This Task Force will be chaired by Iain Greenway from United Kingdom and the members will be Santiago Borrero Mutis (Colombia), Adam Greenland (New Zealand), Teo CheeHai (Malaysia), John Parker (Australia), and Richard Wonnacott (South Africa), additional members to be appointed.

**Appendix to item 15:** Terms of Reference for the Task Force on Organisational and Institutional Development.

**Motion:** That the General Assembly records the Council's decision of establishment of the Task Force on Organisational and Institutional Development and its terms of reference for information.

**Decision:**

16. LIAISON WITH INTERNATIONAL ORGANISATIONS

The Joint Board of Spatial Information Societies JB-GIS was formally established during the FIG Working Week in Cairo in 2005. The JB-GIS meets annually during a major conference. The next meeting will take place at the ICA conference in Moscow in August 2007. The Joint Board met informally during the World Map Forum in Hyderabad, India in January 2007. The issues discussed were the project on capacity building for Africa and future co-operation. The Joint Board is chaired by President Stig Enemark until the August 2007.

FIG has further bilateral agreements of co-operation with several other international associations like ICEC, IFHP, CIB, FIABCI and IFHS. Some of the partners are also working together in the Habitat Professionals Forum. Since beginning of 2007 the Chairperson of the Habitat Professionals Forum has been President Stig Enemark.

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

The Council has approved a co-operation agreement with the Institute of Navigation (ION), one of the leading partners on navigation issues for FIG, in March 2007. The focal point for this co-operation is FIG Commission 5.

The President will give a report on the co-operation between FIG and other professional associations from October 2006 to May 2007.

**Appendix to item 16:** Co-operation agreement between FIG and the Institute of Navigation (ION).

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

**Decision:**

## 17. CHANGES TO STATUTES AND INTERNAL RULES

The Council has evaluated the final report of the Task Force on FIG Governance Structure given to the General Assembly in Munich. The Council proposes that only changes that are necessary and urgent will be adopted in Hong Kong and the other issues will be postponed for approval in Stockholm in 2008. This will also allow thorough revision of the language and various adjustments to bring the legal base up to date with actual policies and practices. This will mean changes to statutes, internal rules and other FIG guidelines.

The Council has identified following issues to be that urgent that they need to be decided in Hong Kong:

- Abolishing of the current Nomination Review Group and Commission Review Group. Instead the Council will introduce a standard nomination form (template) to ensure that all relevant information is available in a format that allows for immediate comparison of candidates.
- The terms of office of the President and Vice-President should be amended and clarified.
- The internal rules shall be amended to apply with the situation of a globally elected Council. All the issues related to the transition period should be removed, including the rules around the specification of tasks of the Vice Presidents. This should be for Council itself to decide based on the qualifications and interests of the individual Council members.

**Appendix to item 17:** Changes to Statutes and Internal Rules.

**Motion:** That the General Assembly adopts proposed changes to Statutes and Internal Rules and notes that a thorough revision of the Statutes, Internal Rules and other guidelines will be prepared for the General Assembly in 2008.

**Decision:**

## 18. DECISION ON THE VENUE OF THE FIG WORKING WEEK 2012

The FIG Council has received only one bid to host the FIG Working Week 2012. This bid is made by the Consiglio Nazionale Geometri, CNG to host the FIG Working Week 2012 in Rome, Italy.

The bid is based on the material that CNG provided for the General Assembly in Munich. The Council has evaluated the bid and considers that the bid fulfils the FIG requirements and standards.

**Appendix to item 18:** Bid from Consiglio Nazionale Geometri.

The FIG Working Week 2012 will be organised by FIG jointly with the member association. This means that FIG will have responsibility of the arrangements and also of the financial result, naturally together with the local member association. This offers FIG an opportunity in terms of organising events and generating funds in addition to the membership fees. Therefore the Council has taken the decision of the venue of the FIG Working Week 2012 very seriously and considers that CNG and Rome offer an excellent venue for the Working Week.

Representatives of CNG to make a presentation at the meeting on their bid.

**Motion:** That the General Assembly decides that FIG organises the FIG Working Week 2102 in Rome, Italy and to host it together with Consiglio Nazionale Geometri.

**Decision:**

19. FIG ACCOUNTS FOR 2006 AND AUDITOR'S REPORT AND BUDGET FOR 2007 AND 2008

Vice President Ken Allred will present a financial report on the economic situation of the Federation. This report includes summary of the accounts for 2006, an updated budget for 2007 and proposal for budget 2008 with notes.

The Auditors Report includes the auditors report from 2006, official accounts (income statement 2006) and balance sheet 31 December 2006.

**Appendices to item 19:**

**Appendix to item 19.1:** Financial Report – Accounts 2006 and Budgets 2007 and 2008

**Appendix to item 19.2:** Auditor's Report, Income Statement for 2006 and Balance Sheet at 31 December 2006

**Motion:** That the General Assembly adopts the audited accounts for 2006 and budgets for 2007 and 2008.

**Decision:**

20. SUBSCRIPTION RATES FOR 2009

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 4,000 members; member associations with more than 4,000 members pay fees in accordance with a sliding scale. Fees for 2007 and 2008 are:

	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2007	3.90 € per member up to a maximum of 4,000 members Member associations from countries listed by the World Bank as low-income economies or low-middle-income economies shall pay 1.95 € per member up to a maximum of 4,000 members	200 €	130 per cent of the fee payable by an association with 4,000 members
2008	4.02 € per member up to a maximum of 4,000 members. Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay 2.01 € per member up to a maximum of 4,000 members	200 €	133 per cent of the fee payable by an association with 4,000 members

The World Bank lists of the low-income economies and the lower-middle-income economies are available at:

<http://web.worldbank.org/WBSITE/EXTERNAL/DATASTATISTICS/0,,contentMDK:20421402~pagePK:64133150~piPK:64133175~theSitePK:239419,00.html>

The Council proposes to the General Assembly to increase membership fees for member associations for 2009 with 4 per cent to 4.18 € per member and 136 per cent for the maximum fee based on the General Assembly decision from 1997.

**Motion:** That the General Assembly adopts following membership fees payable by member associations in 2009:

	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2009	4.18 € per member up to a maximum of 4,000 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay 2.09 € member up to a maximum of 4,000 members.	200 €	136 per cent of the fee payable by an association with 4,000 members

**Decision:**

## 21. COMMISSION WORK PLANS 2007-2010

Commission chairs presented their draft work plans for 2007-2010 in Munich and they were recorded for information with decisions that the final versions will be brought for adoption of the General Assembly in Hong Kong.

The Work Plans have now been finalised and synchronised with the Council Work Plan. For this also a special ACCO meeting was organised in Bratislava in February 2007. The updated Work Plans are attached to this agenda.

At the General Assembly 1-1.5 hours is reserved for the members to discuss the Work Plans and Commission activities with the Commission Chairs. This will be organised as panel discussion that will be chaired by Vice President Matt Higgins, who together with the ACCO representative (Chryssy Potsiou in 2007-2008) will be in charge for chairing ACCO for 2007-2010.

**Appendices to item 21:**

**Appendix to item 21.1:** Commission 1 Work Plan 2007-2010

**Appendix to item 21.2:** Commission 2 Work Plan 2007-2010

**Appendix to item 21.3:** Commission 3 Work Plan 2007-2010

**Appendix to item 21.4:** Commission 4 Work Plan 2007-2010

**Appendix to item 21.5:** Commission 5 Work Plan 2007-2010

**Appendix to item 21.6:** Commission 6 Work Plan 2007-2010

**Appendix to item 21.7:** Commission 7 Work Plan 2007-2010

**Appendix to item 21.8:** Commission 8 Work Plan 2007-2010

**Appendix to item 21.9:** Commission 9 Work Plan 2007-2010

**Appendix to item 21.10:** Commission 10 Work Plan 2007-2010

**Motion:** That the General Assembly adopts the Commission Work Plans.

**Decision:**

**THURSDAY 17 MAY**

**Thursday 17 May, 8:30-10:30**  
**Rose Room, Kowloon Shangri-La**  
**President's Meeting** (by invitation only)

22. PRESIDENT'S MEETING

Separate invitation to Presidents of the Member Associations.

**Thursday 17 May, 11:00-13:00**  
**Orchid Room, Kowloon Shangri-La**  
**General Assembly, Second Session**

23. ROLL CALL

Vice President Matt Higgins to take the roll call.

**Please note:** The roll call will be done for member associations only. Delegates representing affiliates, 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 in the meeting hall to the FIG Office Manager. That only member associations that have paid all their membership fees to the end of 2006 are allowed to vote at the meeting.

To be noted that the General Assembly has appointed Mr. Hagen Graeff from DVW, Germany and Mr. T.N. Wong from HKIS, Hong Kong SAR, China as tellers to this session of the General Assembly.

**Appendix to items 2 & 23:** Roll Call.

**Motion:** That present members are recorded in the minutes.

**Decision:**

## 24. MEMBERSHIP

The Council will decide on additional membership issues closer to the meeting. These issues will be posted on the agenda on the web as soon as the Council has made its decision.

**Motion:** To be made in additional agenda.

**Decision:**

## 25. ADVISORY COMMITTEE OF COMMISSION OFFICERS

Vice President Matt Higgins to report on the Advisory Committee of Commission Officers (ACCO) meetings and Commission activities.

**Motion:** That the General Assembly records the report.

**Decision:**

## 26. REPORT OF THE 6<sup>th</sup> FIG REGIONAL CONFERENCE IN SAN JOSÉ, COSTA RICA 2007

The General Assembly will be given a presentation on the arrangements of the 6<sup>th</sup> FIG Regional Conference that will be held in San José, Costa Rica 12-15 November 2007.

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

**Decision:**

## 27. REPORT OF FIG WORKING WEEK 2008 IN STOCKHOLM, SWEDEN 14-19 JUNE 2008

The General Assembly will be given a presentation on the arrangements of the FIG Working Week 2008 that will be held in Stockholm, Sweden 14-19 June 2008.

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

**Decision:**

## 28. REPORTS OF WORKING WEEK 2009, CONGRESS 2010 AND WORKING WEEK 2011

The hosts of the Working Week 2009 (ALSI, Israel), the FIG Congress 2010 (ISA, Australia) and the Working Week 2011 (ONIGT, Morocco) have been asked to make an oral report on the preparations for their respective events.

**Motion:** That the General Assembly notes the reports. That the General Assembly confirms the dates of the next FIG events as follows:

- FIG Working Week 2009, Eilat, Israel, 3-8 May 2009
- FIG Congress, Sydney, Australia, 9-16 April 2010

**Decision:**

## 29. PRESENTATION OF CERTIFICATES OF APPRECIATION

## CLOSING CEREMONY



**30<sup>th</sup> General Assembly  
Hong Kong SAR, China May 2007**

**Roll Call**

<b><u>MEMBER ASSOCIATIONS</u></b>	13 May	17 May
<b>Algeria</b> Ordre des Géomètres-Experts Fonciers		
<b>Argentina</b> Federación Argentina de Agrimensores FADA		
<b>Armenia</b> Association of Private Surveyors APS		
<b>Australia</b> The Institution of Surveyors, Australia ISA		
<b>Austria</b> Österreichische Gesellschaft für Vermessung und Geoinformation (Austrian Society for Surveying and Geoinformation) OVG		
<b>Bahamas</b> Bahamas Association of Land Surveyors		
<b>Belarus</b> Land Reform Association		
<b>Belgium</b> Union Belge des Géomètres-Experts Immobiliers		
<b>Benin</b> Syndicat National des Géomètres-Topographes et Assimilés du Bénin SYNAGETAB		
<b>Botswana</b> Botswana Surveying and Mapping Association		
<b>Brazil</b> Brazilian Society of Cartography, Geodesy, Photogrammetry and Remote Sensing SBC		
<b>Brazil</b> FENEA - Federação Nacional dos Engenheiros Agrimensores		
<b>Brunei Darussalam</b> Brunei Institution of Geomatics, BIC		
<b>Bulgaria</b> Union of Surveyors and Land Managers in Bulgaria		
<b>Burkina Faso</b> Association des Geometres et Topographes du Burkina AGT-B		
<b>Cameroon</b> Ordre National des Geometres du Cameroun OGEC		
<b>Canada</b> The Canadian Institute of Geomatics CIG		
<b>China P.R.</b> Chinese Society of Geodesy, Photogrammetry and Cartography		
<b>China P. R.</b> China Institute of Real Estate Appraisers and Agents CIREA		
<b>Colombia</b> Sociedad Colombiana de Topografos SCT		
<b>Congo D. R.</b> Federation des Ingenieurs Geometres-Topographes		
<b>Costa Rica</b> Colegio de Ingenieros Topógrafos de Costa Rica CFIA		
<b>Croatia</b> Croatian Geodetic Society HGD		
<b>Cuba</b> Unión Nacional de Arquitectos e Ingenieros de la Construcción de Cuba UNAICC		
<b>Cyprus</b> Association of Rural Surveying Engineers of Cyprus		
<b>Czech Republic</b> Czech Union of Surveyors and Cartographers CSVTS		
<b>Czech Republic</b> Czech Association of Certified Property Appraisers CSCOM		
<b>Denmark</b> Den danske Landinspektørforening DdL		
<b>Egypt</b> Egyptian Committee of Surveying and Mapping ECSM		
<b>Estonia</b> Eesti Geodeetide Ühing EGÜ (Association of Estonian Surveyors)		

<b>Fiji</b> Fiji Institute of Surveyors		
<b>Finland</b> Suomen Maanmittausinsinöörien Liitto MIL (The Finnish Association of Surveyors)		
<b>Finland</b> Maanmittausalan ammattikorkeakoulu- ja opistoteknisten Liitto MAKLI ry		
<b>France</b> Ordre des Géomètres-Experts OGE		
<b>France</b> Association Française de Topographie AFT		
<b>Georgia</b> Society of Professionals of Land Information Technologies SPLIT		
<b>Germany</b> DVW – Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement		
<b>Ghana</b> Ghana Institution of Surveyors GhIS		
<b>Greece</b> Technical Chamber of Greece TEE		
<b>Greece</b> Hellenic Association of Rural and Surveying Engineers HARSE		
<b>Hong Kong SAR, China</b> The Hong Kong Institute of Surveyors HKIS		
<b>Hong Kong SAR, China</b> The Hong Kong Institution of Engineering Surveyors HKInstES		
<b>Hungary</b> Magyar Földmérési, Térképészeti és Távérzkelési Társaság MFTTT		
<b>Indonesia</b> Ikatan Surveyor Indonesia ISI		
<b>Iran, Islamic Republic</b> Iranian Society of Surveyors ISS		
<b>Ireland</b> The Society of Chartered Surveyors SCS		
<b>Ireland</b> The Irish Institution of Surveyors IIS		
<b>Israel</b> Association of Licensed Surveyors in Israel ALSI		
<b>Italy</b> Consiglio Nazionale Geometri CNG		
<b>Jamaica</b> The Land Surveyors Association of Jamaica LSAJ		
<b>Japan</b> Nippon Sokuryosha Renmei (Japan Federation of Surveyors JFS)		
<b>Kenya</b> Institution of Surveyors of Kenya ISK		
<b>Korea, Republic of</b> Korea Confederation of Surveyors		
<b>Kosovo</b> UNMIK Kosova Surveyors Association		
<b>Latvia</b> Latvian Associations of Surveyors LMB		
<b>Lebanon</b> Ordre des Géomètres-Topographes du Liban		
<b>Lithuania</b> Lithuanian Association of Surveyors LMA		
<b>Lithuania</b> Lithuanian Association of Property Valuers LTVA		
<b>Luxembourg</b> Ordre Luxembourg des Géomètres OLG		
<b>Malaysia</b> Association of Authorised Land Surveyors Malaysia PEJUTA		
<b>Malta</b> Land Surveyor Society		
<b>Mexico</b> Colegio de Ingenieros Topógrafos A.C. CITAC		
<b>Mongolia</b> Mongolian Association of Geodesy and Cartography MAGaC		
<b>Morocco</b> Ordre National des Ingénieurs Géomètres-Topographes ONIGT		
<b>Netherlands</b> Geo-informatie Nederland GIN		
<b>New Zealand</b> New Zealand Institute of Surveyors NZIS		
<b>Nigeria</b> Nigerian Institution of Surveyors NIS		
<b>Nigeria</b> The Nigerian Institute of Quantity Surveyors NIQS		
<b>Norway</b> Norges Jordskifte kandidatforening NJKF, faglig gruppe af NIF		

<b>Palestinian Authority</b> Licensed Surveyors Association in Palestine		
<b>Papua New Guinea</b> Association of Surveyors of Papua New Guinea ASPGN		
<b>Poland</b> Stowarzyszenie Geodetow Polskich SGP		
<b>Portugal</b> Ordem dos Engenheiros, Colégio de Engenharia Geografica ORDENG		
<b>Puerto Rico, USA</b> Colegio de Ingenieros y Agrimensores de Puerto Rico CIAPR		
<b>Romania</b> Union of Romanian Geodesy		
<b>*) Romania</b> Romanian Association of Private Surveyors APCGCR		
<b>Russian Federation</b> Federal Service of Geodesy and Cartography of Russia		
<b>Republic of Serbia</b> Union of Surveying Engineers of Serbia		
<b>***) Singapore</b> Singapore Institute of Surveyors and Valuers SISV		
<b>Slovak Republic</b> Slovak Union of Surveyors and Cartographers		
<b>Slovak Republic</b> Chamber of Surveyors and Cartographers KGK		
<b>Slovenia</b> Association of Surveyors of Slovenia ZGS		
<b>South Africa</b> South African Council for Professional and Technical Surveyors PLATO		
<b>Spain</b> Ilustre Colegio Oficial de Ingenieros Técnicos de Topografía		
<b>Sri Lanka</b> Surveyors' Institute of Sri Lanka		
<b>Sweden</b> Sveriges Lantmätareförening SLF		
<b>Switzerland</b> geosuisse - Swiss society of geomatics and landmanagement		
<b>Syria</b> Order of Syrian Engineers and Architects		
<b>Tanzania</b> Institution of Surveyors of Tanzania IST		
<b>Togo</b> Ordre des Géomètres du Togo		
<b>Trinidad and Tobago</b> Institute of Surveyors of Trinidad and Tobago		
<b>Tunisia</b> Association Nationale des Ingenieurs Géomètres-Experts Tunisiens ANIGET		
<b>Turkey</b> TMMOB Chamber of Surveying Engineers of Turkey		
<b>Ukraine</b> Ukrainian Society of Geodesy and Cartography		
<b>United Arab Emirates</b> Institution of Surveyors of United Arab Emirates, ISUAE		
<b>United Kingdom</b> The Royal Institution of Chartered Surveyors RICS		
<b>United Kingdom</b> Institution of Civil Engineering Surveyors		
<b>United States of America.</b> American Congress on Surveying and Mapping ACSM		
<b>United States of America</b> The Appraisal Institute AI		
<b>Uruguay</b> Asociacion de Agrimensores del Uruguay		
<b>Vietnam</b> Association of Geodesy, Cartography and Remote Sensing VGCR		
<b>Zambia</b> Surveyors Institute of Zambia SIZ		
<b>Zimbabwe</b> Survey Institute of Zimbabwe SIZ		
<b>*) to be decided by the General Assembly 13 May 2007</b>		
<b>***) membership will expire at the General Assembly 13 May 2007</b>		

<b><u>AFFILIATES</u></b>		
<b>Australia and New Zealand (ANZLIC)</b>		
<b>Belgium</b>		
<b>Brunei Darussalam</b>		
<b>Cambodia</b>		
<b>Chile</b>		
<b>El Salvador</b>		
<b>Guatemala</b>		
<b>Hungary</b>		
<b>Iceland</b>		
<b>Jordan</b>		
<b>Macedonia, FYROM</b>		
<b>Mexico</b>		
<b>Mongolia</b>		
<b>Namibia</b>		
<b>Nepal</b>		
<b>Peru</b>		
<b>Romania</b>		
<b>Rwanda</b>		
<b>Saudi Arabia, Kingdom of</b>		
<b>Tajikistan</b>		
<b><u>CORRESPONDENTS</u></b>		
<b>Bahrain</b>		
<b>Benin, Republic of</b>		
<b>Bhutan</b>		
<b>Guyana</b>		
<b>India</b>		
<b>Lesotho</b>		
<b>Madagascar</b>		
<b>Saint Lucia, WI</b>		
<b>Senegal</b>		
<b>Tanzania (Zanzibar)</b>		
<b>Thailand</b>		
<b>Tonga</b>		
<b>Tunisia</b>		
<b>Tuvalu</b>		
<b><u>ACADEMIC MEMBERS</u></b>		
<b>Australia</b> The University of Melbourne		
<b>Australia</b> RMIT University		
<b>Australia</b> University of New South Wales		
<b>Australia</b> University of Southern Queensland		
<b>Australia</b> University of Technology Sydney		
<b>Austria</b> BOKU, Vienna		
<b>Bahrain</b> Arabian Gulf University		
<b>Belgium</b> University of Applied Sciences Kaho Sint-Lieven		

<b>Belgium</b> ECAM - Haute Ecole Leonard de Vinci, Département Construction		
<b>Botswana</b> University of Botswana		
<b>Brazil</b> UNISINOS		
<b>Canada</b> University of Calgary		
<b>Canada</b> University of New Brunswick		
<b>Canada</b> Université Laval		
<b>Chile</b> Universidad de Concepcion		
<b>China</b> Wuhan University		
<b>China</b> Renmin University of China, School of Public Administration		
<b>Colombia</b> Universidad Distrital, Facultad de Ingenieria		
<b>Colombia</b> Universidad Distrital, Facultad del Medio Ambiente y Recursos Naturales		
<b>Costa Rica</b> Universidad Nacional		
<b>Croatia</b> University of Zagreb		
<b>Denmark</b> Aalborg University		
<b>Finland</b> Helsinki University of Technology		
<b>Finland</b> EVTEK		
<b>France</b> Ecole Supérieure des Géomètres et Topographes		
<b>Germany</b> Technische Universität München		
<b>Germany</b> Anhalt University of Applied Sciences		
<b>Germany</b> University of Applied Sciences Oldenburg/Ostfriesland/Wilhemshaven		
<b>Germany</b> Technische Universität Berlin		
<b>Ghana</b> Kwame Nkrumah University of Science and Technology, KNUST		
<b>Ghana</b> University of Mines and Technology (UMaT)		
<b>Greece</b> National Technical University of Athens NTUA		
<b>Greece</b> Technological Educational Institute of Athens		
<b>Guatemala</b> Universidad de San Carlos de Guatemala		
<b>Hong Kong SAR, China</b> The Hong Kong Polytechnic University		
<b>Hungary</b> University of West Hungary		
<b>Indonesia</b> Institute of Technology Bandung (ITB)		
<b>Ireland</b> Dublin Institute of Technology		
<b>Jamaica</b> University of Technology Jamaica		
<b>Kenya</b> University of Nairobi		
<b>Latvia</b> Riga Technical University		
<b>Lithuania</b> Vilnius Gediminas Technical University		
<b>Lithuania</b> Lithuanian University of Agriculture		
<b>Malaysia</b> Universiti Teknologi Malaysia, Department of Geomatics Engineering		
<b>Moldova</b> State Agrarian University of Moldova		
<b>Morocco</b> Institut Agronomique et Vétérinaire Hassan II		
<b>Nepal</b> Land Management Training Centre		
<b>Netherlands</b> ITC International Institute for Geo-Information Science and Earth Observation		

<b>New Zealand</b> University of Otago		
<b>Nigeria</b> University of Lagos		
<b>Nigeria</b> Nnandi Azikiwe University		
<b>Norway</b> Agricultural University of Norway, Dept. of Land Use and Landscape Planning		
<b>Norway</b> Agricultural University of Norway, Department of Mathematical Sciences and Technology		
<b>Oceania</b> University of the South Pacific		
<b>Poland</b> Agricultural University of Krakow		
<b>Puerto Rico, USA</b> Universidad de Puerto Rico		
<b>Puerto Rico, USA</b> Polytechnic University of Puerto Rico		
<b>Romania</b> University Dunarea de Jos din Calati		
<b>Romania</b> 1 Decembrie 1918 University of Alba Iulia		
<b>Romania</b> North University Baia		
<b>Russian Federation</b> Moscow State University of Geodesy and Cartography		
<b>Singapore</b> National University of Singapore		
<b>Slovenia</b> University of Ljubljana		
<b>South Africa</b> University of Cape Town		
<b>Spain</b> Universidad Politécnica de Madrid		
<b>Spain</b> Universidade de Santiago de Compostela		
<b>Spain</b> Institut de Geomàtica, Castelldefels		
<b>Sweden</b> Lund University LTH		
<b>Sweden</b> Royal Institute of Technology		
<b>Switzerland</b> University of Applied Sciences Northwestern Switzerland		
<b>Tanzania</b> University College of Lands and Architectural Studies – UCLAS		
<b>Turkey</b> Istanbul Technical University		
<b>United Kingdom</b> Anglia Polytechnic University		
<b>United Kingdom</b> Kingston University		
<b>United Kingdom</b> Oxford Brookes University		
<b>United Kingdom</b> The University of Nottingham		
<b>United Kingdom</b> Sheffield Hallam University		
<b>United Kingdom</b> University College London		
<b>United Kingdom</b> University of the West of England		
<b>Uruguay</b> University of Oriental Republic of Uruguay		
<b>USA</b> Ferris State University		
<b>USA</b> New Mexico State University		
<b>USA</b> Pennsylvania State University		
<b>USA</b> Texas A&M University – Corpus Christi		
<b>West Indies</b> University of the West Indies		

<b><u>CORPORATE MEMBERS</u></b>		
<b>Platinum level</b>		
Bentley Systems		
Environmental Systems Research Institute, Inc. (ESRI)		
Intergraph Mapping and Geospatial Solutions		
Leica Geosystems AG		
TOPCON Co		
Trimble Navigation Ltd.		
<b>Gold level</b>		
Sokkia Co Ltd		
<b>Silver level</b>		
Blom ASA		
Grontmij nv		
COWI A/S		
<b>Bronze level</b>		
AED-SICAD Aktiengesellschaft		
Eimar Arabia Real Estate Development Co. Ltd.		
GIM International – Reed Business Information – Geo		
IGN France International		
Mason Land Surveys Limited		
MENSI S.A.		
Schonstedt Instrument Company		
SEDIC - Sudan Engineering and Digital Information Center		
<b>Basic level</b>		
Geo:connexion Ltd		
GEOEXPERT		
GeoInformatics		
GIS Development Pvt. Ltd.		
Hansa Luftbild Sensorik und Photogrammetrie GmbH		
Institut Cartogràfic de Catalunya		
International Land Systems (ILS), Inc.		
LKN Earth Research & Consulting		
P. V. Publications Ltd		
<b>Regional level</b>		
Associated Surveyors (Pvt.) Ltd		
Cameroon Engineering		
Galileo Instruments, Inc.		
Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH		
Remote Sensing Center of Environment Consulting		
SEPRET (Société des Etudes de Projets et Réalisation des Travaux)		

<b>HONORARY PRESIDENTS</b>		
Robert W. Foster		
***) Holger Magel		
<b>HONORARY MEMBERS</b>		
Jan de Graeve		
***) to be decided by the General Assembly 13 May 2007		
<b>COMMISSION CHAIRS 2006-2010</b>		
Commission 1 – Yaacoub Saade		
Commission 2 – Bela Markus		
Commission 3 – Chryssy Potsiou		
Commission 4 – Andrew Leyzack		
Commission 5 – Rudolf Staiger		
Commission 6 – Alojz Kopacik		
Commission 7 – András Osskó		
Commission 8 – Simon Adcock		
Commission 9 – Kauko Viitanen		
Commission 10 – Andrew Morley		
<b>PERMANENT INSTITUTIONS</b>		
International Office of Cadastre and Land Records (OICRF)		
International Institution for the History of Surveying and Measurement, Permanent Institution of FIG		
<b>FIG FOUNDATION</b> – President John Hohol		
<b>FIG COUNCIL</b>		
President Stig Enemark		
Vice President Ken Allred		
Vice President Dalal S. Alnaggar		
Vice President Matt Higgins		
Vice President Paul van der Molen		

**INTERNATIONAL FEDERATION OF SURVEYORS**

**FIG 29<sup>th</sup> GENERAL ASSEMBLY**  
**8 and 13 October 2006**  
**Holiday Inn City Centre, Munich, Germany**

**MINUTES**

of the meetings held at the **Grand Ballroom** at  
the **Holiday Inn City Centre**,  
Munich, Germany  
on 8 and 13 October 2006

**First Session, Sunday 8 October 2006, 10:00 – 12:30 and 14:00-18:00**

1. OPENING PROCEEDINGS

President Holger Magel opened the 29<sup>th</sup> General Assembly and welcomed the members and delegates to Munich and to the XXIII FIG Congress.

A moment of silence was held to appreciate those delegates and active FIG people that had passed away during the past year, especially to respect the memory of Mr. Abdel Munem Samara, Director General of the Department of Lands and Survey from Jordan (affiliate member), Prof. Kazimierz Czarnecki, President of the Association of Polish Surveyors and Mr. Geza Apanyi, President of the Hungarian Society of Surveying, Mapping and Remote Sensing.

Noted that several greetings and apologies were received from member associations, other members and Honorary Presidents and several Honorary Members who were no able to attend the General Assembly this time.

2. ROLL CALL

Vice President Andreas Drees took the roll call. The roll call was made only for member associations and affiliate members. Other members were recorded based on the registration information given to the FIG office at the door of the meeting room.

**Appendix to items 2 & 25:** Roll Call.

57 member associations out of 100 were present at this session, which is more than one third of the membership needed for the General Assembly to be constitutionally valid.

**Motion:** That present members are recorded in the minutes.

**Decision:** The motion was adopted.

3. APPOINTMENT OF TELLERS

**Motion:** The General Assembly shall appoint two persons as tellers following the principle adopted at the 22<sup>nd</sup> General Assembly so that the tellers will represent member associations hosting the preceding

(The Egyptian Committee on Surveying and Mapping ECSM) and the current General Assembly (DVW – Deutscher Verein für Vermessungswesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement). Proposals from the member associations will be given at the session. That the General Assembly appoints Dr. Dalal S. Alnaggar from Egypt as a teller for the two sessions of the General Assembly and Mr. Volkmar Teetzmann from Germany as a teller for the first session of the General Assembly and Ms. Christiane Salbach as a teller for the second session of the General Assembly.

**Decision:** The motion was adopted.

#### 4. ADOPTION OF THE AGENDA

**Motion:** That the agenda be adopted.

**Decision:** The motion was adopted.

#### 5. ADOPTION OF THE MINUTES OF THE 28<sup>th</sup> GENERAL ASSEMBLY

Minutes have been circulated previously.

**Appendix to item 5:** Minutes of the General Assembly in Cairo, Egypt, April 2005 without appendices.

**Motion:** That the minutes be adopted as recorded.

**Decision:** The motion was adopted.

#### 6. MEMBERSHIP

##### 6.1 Acceptance of new members

##### 6.1.1 Institution of Surveyors of Tanzania (IST), Tanzania

Institution of Surveyors of Tanzania (IST) from Tanzania has submitted its membership application to become a member association of FIG. The association has 132 qualified members and 164 qualifying members and in addition 64 members and 70 qualifying members at technical level. The association is representing surveyors from public and private sectors in Tanzania. 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 Institution of Surveyors of Tanzania (IST)

**Motion:** That the General Assembly admits the Institution of Surveyors of Tanzania (IST) from Tanzania as a member association of FIG.

**Decision:** The motion was adopted.

##### 6.1.2 Syndicat National des Géomètres-Topographes et Assimilés du Bénin (SYNAGETAB), Republic of Benin

The Syndicat National des Géomètres-Topographes et Assimilés du Bénin (SYNAGETAB) from Benin has submitted its membership application to become a member association of FIG. The association has 251 qualified members and 52 qualifying members. It is the only association regulated

by law representing surveyors in Benin. The Council has considered the application and believes that the association meets criteria for membership of FIG as a member association.

**Appendix to item 6.1.2:** Membership application from the Syndicat National des Géomètres-Topographes et Assimilés du Bénin (SYNAGETAB)

**Motion:** That the General Assembly admits the Syndicat National des Géomètres-Topographes et Assimilés du Bénin (SYNAGETAB) from the Republic of Benin as a member association of FIG.

**Decision:** The motion was adopted.

#### 6.1.3 The Iranian Society of Surveyors (ISS), Islamic Republic of Iran

The Iranian Society of Surveyors (ISS) from the Islamic Republic of Iran has submitted its membership application to become a member association of FIG. The association has 1,000 qualified members and 400 members with technician education. The association is representing surveyors in Iran. The Council has considered the application and believes that the association meets criteria for membership of FIG as a member association.

**Appendix to item 6.1.3:** Membership application from the Iranian Society of Surveyors (ISS)

**Motion:** That the General Assembly admits the Iranian Society of Surveyors (ISS) from the Islamic Republic of Iran as a member association of FIG.

**Decision:** The motion was adopted.

#### 6.1.4 Federation des Ingenieurs Géomètres-Topographes (Geomètre Pluriel Asbl), Democratic Republic of the Congo

Federation des Ingenieurs Géomètres-Topographes (Geomètre Pluriel Asbl) from the Democratic Republic of the Congo has sent the Council a letter and membership application to become a member association of FIG. The association has 24 active members at the moment and their work is based on governmental decision. In D.R. Congo about 200 surveyors have been educated since 1984 at Masters level and about 1,000 at Bachelor level. The Council has considered the application and believes that the association meets criteria for membership of FIG as a member association.

**Appendix to item 6.1.4:** Membership application from the Federation des Ingenieurs Géomètres-Topographes (Geomètre Pluriel Asbl)

**Motion:** That the General Assembly admits the Federation des Ingenieurs Géomètres-Topographes (Geomètre Pluriel Asbl) from Democratic Republic of the Congo as a member association of FIG.

**Decision:** The motion was adopted.

#### 6.1.5 Mongolian Association of Geodesy and Cartography (MAGaC), Mongolia

The surveyors associations have been reorganized in Mongolia. The current FIG member association Mongolian Association of Surveying and Mapping (MASM) has expired. A new association called the Mongolian Association of Geodesy and Cartography (MAGaC) was established in May 2004 and registered in July 2004. The total number of members is 128. The new association has sent its application to become a member of FIG. The Council has considered the application and believes that the association meets criteria for membership of FIG as a member association.

**Appendix to item 6.1.5:** Membership application from the Mongolian Association of Geodesy and Cartography (MAGaC)

**Motion:** That the General Assembly admits the Mongolian Association of Geodesy and Cartography (MAGaC) from Mongolia as a member association of FIG.

**Decision:** The motion was adopted.

#### 6.1.6 Society of Professionals of Land Information Technologies (SPLIT), Georgia

The Society of Professionals of Land Information Technologies (SPLIT) from Georgia has sent the Council an application to become a member association of FIG. The establishment of SPLIT is a result of the visit of the President to Georgia in May 2006. The association has been registered in July and has applied immediately FIG membership. The current number of members is 50 in total. The Council has considered the application and believes that the association meets criteria for membership of FIG as a member association.

**Appendix to item 6.1.6:** Membership application from the Society of Professional of Land Information Technologies (SPLIT)

**Motion:** That the General Assembly admits the Society of Professionals of Land Information Technologies (SPLIT) from Georgia as a member association of FIG.

**Decision:** The motion was adopted. Mr. Merab Nadaraia, President of SPLIT addressed the General Assembly on behalf of the new member association and the association was given its membership certificate.

#### 6.1.7 The Hong Kong Institution of Engineering Surveyors (HKInstES), Hong Kong SAR, China

The Hong Kong Institution of Engineering Surveyors (HKInstES) applied the membership of FIG in 2001. The General Assembly agreed after negotiations with the HKInstES and the Hong Kong Institute of Surveyors (HKIS), which is a current member of FIG, at its meeting in Washington in April 2002 to:

- Postpone the vote on the application from the HKInstES until the FIG General Assembly meeting in 2003, and in the intervening period
- Establish an FIG Forum in the HKSAR (Hong Kong Special Administrative Region)

The FIG Forum in HKSAR was thereafter established but according to the reports from HKInstES and HKIS has not worked in the way that the General Assembly hoped and has not developed to a Forum that could represent Hong Kong SAR in FIG. Recently also interest to attend the meetings of the Forum has been low.

The Council has discussed the situation with both HKInstES and HKIS several times between 2002 and 2006 including a visit of Vice President Drees to Hong Kong SAR and has decided to bring the membership application of the HKInstES to the General Assembly in Munich for decision without any recommendation from the Council. In the FIG statutes and internal rules following is stated on handling on the membership application:

##### Statutes

§ 3.1. There shall be the following categories of members ... member association: a national association representing one or more of the disciplines of surveying ...

##### Internal Rules

§ 2.1 A member association is comprised of individuals who possess relevant academic qualifications (which should normally be equivalent to at least UNESCO International Standard Classification of

Education (ISCED) level 5 degrees) plus approved professional experience; and who provide professional services in accordance with ethical standards.

§ 2.2 Associations which include technician grades of membership are also eligible for membership of the Federation.

§ 2.4 In the case of an application received from an association in a country which already has one or more member associations, these associations shall be informed of the application and their comments sought.

§ 2.5 An association wishing to become a member of the Federation shall make an application to the Council which will consider it and submit it to a vote of the General Assembly.

The Council decided to give the application to the General Assembly for its decision.

**Appendices to item 6.1.7:**

- Membership application Hong Kong Institution of Engineering Surveyors (HKInstES), 2002 and letter from HKIS, 2002
- Membership application Hong Kong Institution of Engineering Surveyors (HKInstES), 2006
- Letter from the Hong Kong Institute of Surveyors (HKIS), 2006

Mr. Mannars CHAN, Honorary President of HKInstES, presented the HKInstES application to the General Assembly. Mr. WONG Chung Hung, President of HKIS made speech on behalf of HKIS on the application.

**Motion:** That the General Assembly decides on the membership of the Hong Kong Institution of Engineering Surveyors.

**Decision:** The decision on the HKInstES membership was made by a vote with secret ballots. In the vote 54 ballots were cast. The result was 26 votes in favour of the membership application, 24 votes against and 4 abstained or spoiled ballots.

The General Assembly thereby adopted the application of the HKInstES as a new member association of FIG. Mr. Mannars CHAN, Honorary President of the HKInstES addressed the General Assembly on behalf of the new member association and the association was given its membership certificate.

After the voting the HKIS submitted a letter to FIG President Magel questioning whether the voting was made according to the FIG statutes as there may have been member associations attending the meeting that have unpaid membership fees or other arrears to FIG and therefore should have not had the right to vote.

During the session the statutes were checked. In the statutes it is stated in para 6.5 that "*... Only member associations which have paid their fees for the previous calendar year and have no other arrears and which are represented at the meeting by an individual member shall be entitled to vote...*".

After the arrears of all member associations were reviewed, it was found that there was one association present that had not paid its membership fee for 2005 and 9 member associations that had small amounts in arrears consisting of banking costs and differences in exchange rates.

The General Assembly voted and decided by a clear majority that those member associations whose arrears consist of banking costs or other small amounts will be allowed to vote in the General Assembly. The General Assembly then agreed unanimously that those member associations that have not paid their membership fees for the previous year would not be allowed to vote.

The General Assembly then voted with a clear majority that it will not vote again on the membership of the HKInstES as there was only one vote that was given by a member association that had no right to vote, and that this vote would not change the result of the voting since the vote was carried by a majority of two votes.

The result of the original voting was therefore declared valid and the membership of the HKInstES as a member association of FIG was confirmed.

#### 6.1.8 China Institute of Real Estate Appraisers and Agents (CIREA)

China Institute of Real Estate Appraisers and Agents (CIREA) from China P. R. has submitted its membership application to become a member association of FIG. The association has 16,000 qualified members. The association is representing appraisers in China and the application has been approved by the Ministry of Construction of the People's Republic of China. Representatives of CIREA will be present at the meeting and present their application to the General Assembly. CIREA will discuss the application with the current member association from China the Chinese Society of Geodesy, Photogrammetry and Remote Sensing in Munich during the congress.

The FIG Council has considered the application and believes that the association meets criteria for membership of FIG as a member association and therefore proposes to the General Assembly that it adopts the membership application in the second session of the General Assembly after the current member association has been consulted and its opinion sought.

**Appendix to item 6.1.8:** Membership application from the China Institute of Real Estate Appraisers and Agents.

Dr. (Patrick) LIAO Junping, Vice President of CIREA presented the application to the General Assembly.

**Motion:** That the General Assembly postpones decision on the member application of CIREA to the second session of the General Assembly 13 October 2006.

**Decision:** The motion was adopted.

#### 6.2 Other membership matters

The Council wants to inform the General Assembly on the following changes in the membership of FIG:

##### Member associations

##### Union of Surveying Engineers of Serbia, Republic of Serbia

After Serbia and Montenegro was divided into two independent states, the Union of Surveying Engineers of Serbia has sent the Council a formal letter that the association represents the Republic of Serbia in FIG and that it will be responsible for the commitments of the former member. A separate membership from the Republic of Montenegro is expected in the near future.

##### Mongolian Association of Surveying and Mapping (MASM), Mongolia

After the rearrangements in Mongolia the Mongolian Association of Surveying and Mapping (MASM) has expired. The new association the Mongolian Association of Geodesy and Cartography

(MAGaC) was established and registered in 2004 and has joined FIG in 2006. At the time of the new member association joins FIG the membership of MASM will expire.

### Affiliates

The Council has admitted following organisations to become an affiliate member of FIG:

- ANZLIC - the Spatial Information Council, Australia and New Zealand
- The Land Registry of Iceland (Fasteignamat ríkisins), Iceland
- Administration of Land Affairs, Geodesy & Cartography, Mongolia
- State Authority for Geodetic Works, Macedonia FYROM

The Council has expelled the Instituto Geográfico Agustín Codazzi from Colombia from FIG membership based on unpaid membership fees.

After these changes the number of affiliate members is 18.

### Corporate members

The Council has admitted the following companies to become a Corporate Member of FIG:

- Grontmij nv, the Netherlands, membership category C
- Mason Land Surveys Limited, United Kingdom, membership category D
- GIS Development Pvt. Ltd., India, membership category E
- Oxfordgeospatial, United Kingdom, membership category E
- P. V. Publications Ltd, United Kingdom, membership category E
- Galileo Instruments, Inc., USA, membership category F

The Council has further approved the application from AED-SICAD Aktiengesellschaft from Germany to change its membership level to level D.

One of the corporate members has changed its name: GITV Bv. GIM International is now GIM International – Reed Business Information - Geo.

The Council has restored the membership of Cameroon Engineering as a corporate member.

The number of Corporate Members is after these changes 32.

### Academic members

The Council wants to inform the General Assembly that 12 new Academic Members have joined FIG after the General Assembly in Cairo. The new academic members are:

- University of Southern Queensland, Department of Surveying and Land Information, Australia
- University of Technology Sydney, School of Construction Property & Project Management, Australia
- University of Applied Sciences Kaho Sint-Lieven, Department of Engineering in Construction and Land Surveying, Belgium
- Université Laval, Department of Geomatics Sciences, Canada
- Ecole Supérieure des Géomètres et Topographes (ESGT), France
- Technological Educational Institute of Athens, Department of Topography (Surveying), Greece
- Land Management Training Centre, Ministry of Land Reform and Management, Nepal
- North University Baia, Surveying Department, Romania
- Oxford Brookes University, School of Built Environment, United Kingdom
- Ferris State University, Surveying Engineering, USA

- Texas A&M University – Corpus Christi, Conrad Blucher Institute for Surveying and Science, USA
- Universidad de San Carlos de Guatemala, Faculty of Agronomy, Postgraduate Studies, Guatemala

Following academic members have resigned from the membership:

- Annamalai University, Department of Earth Sciences, India
- Michigan Technological University, Surveying, USA
- The University of Southern Mississippi, Department of Marine Science, USA

The Council has further expelled following academic members because of unpaid membership fees:

- Facultad de Ciencias Exactas y Tecnologías / UNSE, Departamento Academico de Agrimensura, Argentina
- Universidad del Valle, Departamento del Valle del Cauca, Colombia
- Department of Geodesy of the Mongolian Technical University (MTU), Mongolia
- Mongolian Agricultural University, School of Agrobiological Land Management, Mongolia
- Federal School of Surveying, Oyo, Nigeria
- The Royal School of Military Survey, Geographic Engineer Group, United Kingdom
- Leeds Metropolitan University, School of the Built Environment

Membership of Istanbul Technical University, Civil Engineering Faculty, Department of Geodesy and Photogrammetry, Turkey has been restored.

Following academic member has changed its name: University of Applied Sciences Northwestern Switzerland (former FHBB Basel Institute of Technology and Management, University of Applied Sciences)

The number of academic members 8 October 2006 is 82 from 51 nations.

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

**Decision:** The motion was adopted. ANZLIC and the State Authority for Geodetic Works, Macedonia FYROM were given their membership certificates.

## 7. HONORARY MEMBERS

### 7.1 Prof. Dr. habil. Ing. Kazimierz Czarnecki

The Association of Polish Surveyors SGP has sent the Federation a nomination letter in which it proposes that FIG appoints Prof. Dr. Ing. habil. Kazimierz Czarnecki as an Honorary Member of the Federation. About his Prof. Czarnecki's CV can be mentioned:

- Prof. Warsaw University of Technology and Prof. Military University of Technology
- Head of the Teaching Section of Geodesy at the Institute Geodesy and Geodetic Astronomy WUT and at the same time he served as the vice-director (1993-2002) and Director (2002-05) of the Institute.
- Dean of the Faculty
- President of the Association of Polish Surveyors for two successive terms of office (1983-86, 1986-89) and then elected for three terms (1998-2001, 2001-04, 2004-07).
- Author of ca 100 publications and papers presented to the international symposia.

Prof. Czarnecki's activities in FIG:

- Chairman of FIG Commission 2 "Professional Education and Literature" (1988-91), vice-chair (1984-88).

- Organised the Working Group on Professional Education of the International Union of Surveying and Mapping and he chaired this Group (1990-91).
- In 1985 he chaired the local organizing Committee of the FIG Permanent Committee Meeting in Katowice, Poland.
- Coinitiator and organizer of two Cadastral Congresses held in Poland (Warsaw, 1998, Cracow 2003) under FIG umbrella.

**Appendix to item 7.1:** The nomination letter from the Association of Polish Surveyors and CV of Professor Czarnecki.

According to the Statutes paragraph 3.1.7 an individual who has materially assisted the development and promotion of the surveying profession at the international level can be appointed as an honorary member. Nomination for this appointment shall be made by a member association or the Council, which will consider it and submit it to a vote of the General Assembly.

The Council has considered the proposal and decided to propose to the General Assembly that it appoints Prof. Kazimierz Czarnecki as an Honorary Member of the Federation for the outstanding services he has provided to the Federation in different positions and functions.

Prof. Czarnecki passed away 23 August 2006.

**Motion:** That the General Assembly appoints Professor Kazimierz Czarnecki an Honorary Member of FIG posthumously.

**Decision:** The General Assembly appointed Prof. Kazimierz Czarnecki as an Honorary Member of FIG. The badge with silver oak leaves and certificate of Honorary Member were given to Dr. Adrianna Pulecka, daughter of Prof. Czarnecki.

## 7.2 Mr. Jürg Kaufmann

The Swiss Association for Geomatics and Land Management – geosuisse has proposed to the Council that its long-time member Dipl.Ing. ETH Jürg Kaufmann to be awarded with the Honorary Membership of FIG. About the contributions of Mr. Kaufmann following should be mentioned:

- Mr. Kaufmann has been a long time delegate in Commission 7 from 1990 to 2003; in this period he chaired twice a working group, each time with significant contributions in terms of organizational, social and professional development; the first working group from 1994-98 focused on visions for the cadastre, resulting in the publication of "Cadastre 2014", and the second working group from 1998-2002 focused on "Benchmarking the Cadastre", also resulting in a publication.
- He organized the annual meeting of Commission 7 in 1992 in Switzerland
- Publication of "Cadastre 2014" as a result of the 1994-98 working group "Vision cadastre" was a major contribution to the profession; it has been translated into over 25 languages and still is a reference nowadays and talked about prominently in the profession worldwide
- on the national level in Switzerland, Cadastre 2014 also stood at the beginning of discussions and developments, which will soon be culminating in the new Law on Geoinformation, which very likely will entail the development of a cadastre of public rights and restrictions
- within Switzerland he has participated in uncountable workshops, working groups, commissions and by producing many reports and publications
- since June 2003 serves as the President of geosuisse

**Appendix to item 7.2:** The nomination letter from the geosuisse and CV of Mr. Kaufmann

According to the Statutes paragraph 3.1.7 an individual who has materially assisted the development and promotion of the surveying profession at the international level can be appointed as an honorary member. Nomination for this appointment shall be made by a member association or the Council, which will consider it and submit it to a vote of the General Assembly.

The Council has considered the proposal and decided to propose to the General Assembly that it appoints Mr. Jürg Kaufmann as an Honorary Member of the Federation for the outstanding services he has provided to the Federation in different positions and functions.

Mr. Thomas Glatthard presented the nomination on behalf of geosuisse.

**Motion:** That the General Assembly appoints Mr. Jürg Kaufmann an Honorary Member of FIG.

**Decision:** The General Assembly appointed Mr. Jürg Kaufmann as an Honorary Member of FIG. Mr. Kaufmann was presented his badge with silver oak leaves and certificate of Honorary Member.

## 8. PRESIDENT'S REPORT

The report of the President of the Federation includes a review on the activities of the Federation, the Council and the FIG office from April 2005 to July 2006.

**Appendix to item 8:** President's report

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

**Decision:** The motion was adopted. The General Assembly recorded its thanks to the President and the FIG Council and all officers for the past year's work.

## 9. REPORT FROM ACCO 2002-2006

Vice President Andreas Drees and the ACCO representatives in the Council Gerhard Muggenhuber (2003-2004) and Matt Higgins (2005-2006) have prepared a report on the activities of the joint Commission and the Advisory Committee of Commission Officers (ACCO) activities and also recommendations for the commissions and commission activities in the future. Vice President Drees will present the report.

**Appendix to item 9:** Report from ACCO 2002-2006

**Motion:** That the General Assembly accepts the ACCO report and records its thanks to Dr. Andreas Drees as chair of the ACCO 2002-2006, ACCO representatives in the Council and all members of ACCO.

**Decision:** The motion was adopted. The General Assembly recorded its thanks to Vice President Drees and members of ACCO for the excellent work they have implemented during the last four years.

## 10. REPORTS FROM CHAIRS OF COMMISSIONS 2002-2006

The Commission chairs have submitted their written reports on the Commission activities. These reports cover the term of office of the current commissions from the Congress in Washington 2002 to the Congress in Munich 2006. Their reports include reports of the working groups in each Commission. Some of the Working Group reports will be printed before the Congress and be tabled in Munich at the General Assembly.

The chairs of the Commissions were admitted to make a short oral presentation on the main results of their commission work.

**Appendices to item 10:**

- 10.1/1 Commission 1
- 10.1/2 Report of the Standards Network
- 10.2 Commission 2
- 10.3 Commission 3
- 10.4 Commission 4
- 10.5 Commission 5
- 10.6 Commission 6
- 10.7 Commission 7
- 10.8 Commission 8
- 10.9 Commission 9
- 10.10 Commission 10

**Motion:** That the General Assembly adopts the reports of the Commission chairs and records its thanks to the chairs and officers of the Commissions for their excellent work in 2002-2006 and decided to award the chairs and officers with the FIG certificate of appreciation, the FIG table banner and the FIG globe.

**Decision:** The motion was adopted.

## 11. REPORTS FROM THE DIRECTORS OF PERMANENT INSTITUTIONS

**Appendices to item 11:**

- 11.1 Report from the International Office of Cadastre and Land Records (Office International du Cadastre et du Régime Foncier) OICRF
- 11.2 Report from the FIG Multi-Lingual Dictionary Board
- 11.3 Report from the International Institution for the History of Surveying and Measurement, Permanent Institution of FIG

**Motion:** That the General Assembly adopts the reports and records its thanks to the Directors for their past year's work.

**Decision:** The motion was adopted.

## 12. REPORT OF THE PRESIDENT OF THE FIG FOUNDATION

Mr. John Hohol, President of the FIG Foundation gave a short report on the activities of the FIG Foundation April 2005 – July 2006.

**Appendix to item 12:** Report of the FIG Foundation activities 2005-2006.

**Motion:** That the General Assembly adopts the report of the President of the FIG Foundation.

**Decision:** The motion was adopted.

## 13. REPORT OF UN ACTIVITIES

The President has provided a report on the co-operation between FIG and the United Nations and its agencies from April 2005 to July 2006.

**Appendix to item 13:** Co-operation with the United Nations and Its Agencies April 2005 – July 2006.

**Motion:** That the General Assembly adopts the report on the co-operation with the United Nations and its agencies and records its thanks to the UN Co-operation Network.

**Decision:** The motion was adopted.

#### 14. LIAISON WITH INTERNATIONAL ORGANISATIONS

After the International Union for Surveys and Mapping (IUSM) was disbanded in 1999 the co-operation with sister organisations has been based on bilateral agreements. Memoranda of understanding have now been signed with all former members of IUSM. A new body called the Joint Board of Spatial Information Societies JB-GIS was formally established during the FIG Working Week in Cairo in 2005. The JB-GIS met at its annual meeting in Vienna in July 2006. The Joint Board is chaired by President Holger Magel and the office services are provided at the moment by FIG.

FIG has further bilateral agreements of co-operation with several other international associations like ICEC, IFHP, CIB, FIABCI and IFHS. Some of the partners are also working together in the Habitat Professionals Forum. Since September 2004 the Chairperson of the Habitat Professionals Forum has been Prof. Holger Magel, FIG President.

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

The President has provided a report on the co-operation between FIG and other professional associations from April 2005 to July 2006.

**Appendix to item 14:** Report on the Co-operation with International Organisations April 2005 – July 2006.

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

**Decision:** The motion was adopted.

#### 15. REPORTS FROM EVENTS 2005

The Council has asked the organisers of the major FIG events during the past year to report orally to the General Assembly on the outcome and impacts that the FIG Working Week and Regional Conference have had to the surveying profession, role of surveyors and the member association in their own country. Therefore the following two member associations have been asked to make oral reports on the outcome of the two events held during the past year:

- The Egyptian Committee on Surveying and Mapping ECSM to report on the Working Week in Cairo and its impacts and results to the surveying profession in Egypt
- The Ghana Institution of Surveyors GhIS to report on the Regional Conference in Accra and its impacts and results to the surveying profession in Ghana.

The report of the FIG Working Week 2005 in Cairo was given by Dr. Dalal S. Alnaggar, ECSM and the report of the 5<sup>th</sup> FIG Regional Conference in Accra by Mr. Samuel Ofori-Offei, Senior Vice President of GhIS.

**Motion:** That the General Assembly records the oral reports.

**Decision:** The motion was adopted.

## 16. TASK FORCE ON THE FUTURE GOVERNANCE OF FIG

The Council established in January 2005 a Task Force to study the commission structure after 2010 and also to study if there are any needs to the current statutes and internal rules after the experiences with the new statutes and internal rules were approved in Seoul, Korea in 2001. This study should also include the review of the role and format of the Nomination Review Group and Commission Review Group. The Council decided to appoint the members of the Task Force as follows: Vice President Ken Allred, Canada as the chairperson and Matt Higgins, ACCO, Iain Greenway, United Kingdom, Teo CheeHai, Malaysia and Stephen Djaba, Ghana as members.

The task and ideas have been discussed at meetings during the Working Week in Cairo and the regional conference in Accra. The chair has also presented the ideas of the Task force to the Council and to the Commission chairs. The interim report will be introduced to the member associations in Munich. The members will have a chance to make written comments on the draft until 24 November 2006 to the FIG office.

The Council has not discussed the interim report and has therefore not made any recommendations on the report and its proposals. The new Council will decide on its proposal to the General Assembly on any changes to the statutes and internal rules.

**Appendix to item 16:** Interim report of the Task force on the Future Governance of FIG.

**Motion:** That the General Assembly notes the interim report of the Task force and that any member association willing to make written comments on the report should provide these to the FIG Office by **24 November 2006**. The Council 2007-2010 will decide on its recommendations and proposal to the General Assembly in beginning of 2007 and then bring the issue for decision of the General Assembly.

**Decision:** The motion was adopted.

## 17. FIG PUBLICATION ON ENHANCING THE REPRESENTATION OF UNDER-REPRESENTED GROUPS IN FIG

The joint Commission Working Group (earlier Task force) on Under-represented Groups in FIG has prepared a policy paper on enhancing the representation of under-represented groups in FIG. The Working Groups has been chaired by Ms. Gabriele Dasse from Germany who was also the chair of the Task force.

The report has been adopted by the Council to be published in the FIG publication series as publication number 35. The printed version will be circulated with the minutes of the General Assembly.

**Appendix to item 17:** FIG publication 35: Enhancing the Representation of Under-Represented Groups in FIG.

**Motion:** That the General Assembly endorses the FIG policy paper on enhancing the representation of under-represented groups in FIG and to use its recommendations as guidelines when preparing FIG policies and events. That the General Assembly records its thanks to Ms. Gabriele Dasse and her working group and those who have contributed to this report.

**Decision:** The motion was adopted. Ms. Gabriele Dasse was given certificate of appreciation as thanks for the work she has done in the task force and in preparing the report.

## 18. INTRODUCTION OF FIG PUBLICATIONS

At the end of the term of office of the Commissions, there will be several publications and reports from the Commissions and their Working groups. Following reports were launched in Munich:

- FIG Publication no 36 - Administering Marine Spaces: International Issues  
<http://www.fig.net/pub/figpub/pub36/figpub36.htm>
- FIG Publication no 37 - Guide on the Development of a Vertical Reference Surface for Hydrography  
<http://www.fig.net/pub/figpub/pub37/figpub37.htm>
- FIG Publication # 38 - The Contribution of the Surveying Profession to Disaster Risk Management  
<http://www.fig.net/pub/figpub/pub38/figpub38.htm>

These publications will be circulated together with the minutes of the General Assembly.

The Council is further considering preparing an FIG policy statement on Disaster Risk Management that would be endorsed by the General Assembly in Hong Kong.

**Motion:** That the General Assembly records the reports and records its thanks to the Commissions and Working group chairs and all those who have contributed to the get the reports done.

**Decision:** The motion was adopted.

## 19. FIG ACCOUNTS FOR 2005 AND AUDITOR'S REPORT AND BUDGET FOR 2006 AND 2007

Vice President Ralf Schroth has prepared a financial report on the economic situation of the Federation. This report includes summary of the accounts for 2005, an updated budget for 2006 and proposal for budget 2007 with notes.

The Auditors Report includes the auditors report from 2005, official accounts (income statement 2005) and balance sheet 31 December 2005.

### **Appendices to item 19:**

**19.1** Financial Report – Accounts 2005 and Budgets 2006 and 2007

**19.2** Auditor's Report, Income Statement for 2005 and Balance Sheet at 31 December 2005

**Motion:** That the General Assembly adopts the audited accounts for 2005 and budgets for 2006 and 2007.

**Decision:** The motion was adopted.

## 20. SUBSCRIPTION RATES FOR 2008

The General Assembly is required 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 4,000 members; member associations with more than 4,000 members pay fees in accordance with a sliding scale. Fees for 2006 and 2007 are:

	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2006	3.85 € per member up to a maximum of 4,000 members Member associations from countries listed by the World Bank as low-income economies or low-middle-income economies shall pay 1.93 € per member up to a maximum of 4,000 members	200 €	127 per cent of the fee payable by an association with 4,000 members
2007	3.90 € per member up to a maximum of 4,000 members. Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay 1.95 € per member up to a maximum of 4,000 members	200 €	130 per cent of the fee payable by an association with 4,000 members

The World Bank lists of the low-income economies and the lower-middle-income economies are available at:

<http://web.worldbank.org/WBSITE/EXTERNAL/DATASTATISTICS/0,,contentMDK:20421402~pagePK:64133150~piPK:64133175~theSitePK:239419,00.html>

The Council proposes a modest increase in the membership fees for 2008 (3.07 per cent) and 133 per cent for the maximum fee based on the General Assembly decision from 1997.

**Motion:** That the General Assembly adopts following membership fees payable by member associations in 2008:

	<u>Per capita fee</u>	<u>Minimum fee</u>	<u>Maximum fee</u>
2008	4.02 € per member up to a maximum of 4,000 members Member associations from countries listed by the World Bank as low-income economies or lower-middle-income economies shall pay 2.01 € member up to a maximum of 4,000 members.	200 €	133 per cent of the fee payable by an association with 4,000 members

**Decision:** The motion was adopted.

## 21. ELECTION OF THE FIG PRESIDENT FOR 2007-2010, TWO VICE PRESIDENTS FOR 2007-2010 AND ONE VICE PRESIDENT FOR 2007-2008 (OPTIONAL) – INTRODUCTION OF CANDIDATES

### 21.1 Election of the FIG President

According to the FIG Statutes and Internal Rules the General Assembly has to appoint the new President for the term of office 1.1.2007-31.12.2010.

Member associations have made three nominations for the open post of the FIG President. These nominations are:

- Mr. Ken Allred, CIG, Canada
- Prof. Stig Enemark, DdL, Denmark
- Mr. TN Wong, HKIS, Hong Kong SAR, China

The Nomination Review Group, appointed by the General Assembly, has made its evaluation of the candidates. The NRG is chaired by Mr. Robert Foster, Honorary President of FIG and its members are John Parker, Tom Kennie, Teo CheeHai and Stephen Djaba. In their report the NRG considers that all three candidates are qualified for the position of the FIG President.

Each of the three candidates was given max 5 minutes to introduce himself and his agenda how to develop FIG.

The election will take place in the second session of the General Assembly.

**Appendices to item 21:**

Candidates for the FIG President for 2007-2010

**21.1/1** Nomination letter and CV of Mr. Ken Allred

**21.1/2** Nomination letter and CV of Prof. Stig Enemark

**21.1/3** Nomination letter and CV of Mr. TN Wong

Reports

**21.4** Report of the Nomination Review Group

**Motion:** That the General Assembly listens to the introductions of the candidates and notes that the election will take place in the second session of the General Assembly.

**Decision:** The motion was adopted.

21.2 Election of two FIG Vice Presidents for 1.1.2007-31.12.2010

According to the FIG Statutes and Internal Rules the General Assembly has to appoint two new Vice Presidents for the term of office 1.1.2007-31.12.2010.

Member associations have made two nominations for the two open posts of the FIG Vice President. These nominations are:

- Dr. Dalal S. Alnaggar, ECSM, Egypt
- Mr. Matt Higgins, ISA, Australia

The Nomination Review Group, appointed by the General Assembly, has made its evaluation of the candidates. In their report the NRG considers that both candidates are qualified for the position of the FIG Vice President.

Each of the two candidates was given max 5 minutes to introduce her/himself and her/his agenda how to develop FIG.

As there are only two candidates for the two open posts the General Assembly will appoint both candidates to FIG Vice Presidents in the second session of the General Assembly.

**Appendices to item 21.2:**

Candidates for the FIG Vice President for 2007-2010

**21.2/1** Nomination letter and CV of Dr. Dalal S. Alnaggar

**21.2/2** Nomination letter and CV of Mr. Matt Higgins  
Reports

**21.4** Report of the Nomination Review Group

**Motion:** That the General Assembly listens to the introductions of the candidates and appoints Dr. Dalal S. Alnaggar and Mr. Matt Higgins as an FIG Vice President at the second session of the General Assembly.

**Decision:** The motion was adopted.

#### 21.3 Election of an FIG Vice Presidents for 1.1.2007-31.12.2008 (optional)

According to the FIG Statutes and Internal Rules the General Assembly has to appoint a new Vice Presidents for the term of office 1.1.2007-31.12.2008 in the case that a current Vice President will be elected as the President of FIG and that his term of office is not at the end. In the case that either Mr. Ken Allred or Prof. Stig Enemark will be elected as the new President of FIG the General Assembly has to elect a new Vice President for the remaining time of his term of office, which will be 1.1.2007-31.12.2008.

Member associations have made three nominations for the one open post of the FIG Vice President for term of office 1.1.2007-31.12.2008 in the case that this post will be opened. These nominations are:

- Prof. Yerach Doytsher, ALSI, Israel – nomination has been cancelled
- Prof. Ralf Schroth, DVW, Germany
- Prof. Paul van der Molen, GIN, the Netherlands

The Nomination Review Group, appointed by the General Assembly, has made its evaluation of the candidates. In their report the NRG considers that all three candidates are qualified for the position of the FIG Vice President.

Ralf Schroth and Paul van der Molen were given max 5 minutes to introduce himself and his agenda how to develop FIG.

The election will take place in the second session of the General Assembly in the case that the election will be needed.

#### **Appendices to item 21.3:**

Candidates for the FIG Vice President for 2007-2008 (optional)

**21.3/1** Nomination letter and CV of Prof. Yerach Doytsher – nomination has been cancelled

**21.3/2** Nomination letter and CV of Prof. Ralf Schroth

**21.3/3** Nomination letter and CV of Prof. Paul van der Molen

Reports

**21.4** Report of the Nomination Review Group

**Motion:** That the General Assembly listens to the introductions of the candidates and notes that the election will take place in the second session of the General Assembly.

**Decision:** The motion was adopted.

## 22. DECISION ON THE VENUE OF THE FIG WORKING WEEK 2011 – INTRODUCTION OF CANDIDATES

The FIG Council has received four bids from member associations to host the FIG Working Week 2011. These bids are from:

- Consiglio Nazionale Geometri CNG, Italy – Rome, Italy
- National Order of Surveyors and Topographers ONIGT, Morocco – Marrakech, Morocco
- Nigerian Institute of Surveyors NIS – Abuja, Nigeria
- Colegio de Ingenieros y Agrimensores de Puerto Rico (CIAPR) – San Juan, Puerto Rico

The FIG Office has made a summary report to evaluate the bids. The bid from the Nigerian Institute of Surveyors arrived first 18 September 2006 because the original bid was not received by the FIG Office. Therefore the bid from NIS has not been included in the evaluation report on equal level as the other bids.

The FIG Working Week 2011 will be organised by FIG jointly with the member association. This means that FIG will have responsibility of the arrangements and also of the financial result, naturally together with the local member association. This offers FIG an opportunity in terms of organising events and generating funds in addition to the membership fees. Therefore the Council has taken the decision of the venue of the FIG Working Week 2011 (as the Working Weeks 2008-2009 and the Congress 2010) very seriously.

When starting the evaluation procedure the Council decided on special criteria for the valuation process. The requirements are that the venue is attractive, has easy access from all over the world, has good meeting and accommodation facilities (different price categories), is affordable to the participants, is attractive for exhibitors, offers good social events and easy and reliable to manage (communication, quality conference organisers etc), possibilities for joint events / overlap with other international conferences and finally safety issues are considered. In the decision-making the regional balance having the congresses and working weeks in and outside Europe should be considered.

Based on the bids and evaluation report the Council has decided to give all four candidates the opportunity to make their presentation at the General Assembly. Each member association will be given five minutes for its presentation.

The Council has not made a recommendation on the venue of the Working Week 2011 but suggests to the member associations that they should take into account the selection criteria described by the Council.

**Appendices to item 22:**

- 22.1** Bid from the Consiglio Nazionale Geometri CNG, Italy – Rome, Italy
- 22.2** Bid from the National Order of Surveyors and Topographers ONIGT, Morocco – Marrakech, Morocco
- 22.3** Bid from the Colegio de Ingenieros y Agrimensores de Puerto Rico (CIAPR) – San Juan, Puerto Rico
- 22.4** Bid from the Nigerian Institute of Surveyors (NIS) – Abuja, Nigeria 18.09.2006
- 22.5** Summary report of all bids

The General Assembly will vote on the venue of the FIG Working Week 2011 at its second session.

**Motion:** That the General Assembly records the presentations and decides to make the decision on the venue at its second session on Friday 13 October 2006.

**Decision:** The motion was adopted.

## 23. DRAFT COMMISSION WORK PLANS 2007-2010

The new Commission chairs have prepared their draft work plans for 2007-2010. The draft work plans will be presented at the Commission meetings and discussions during the Congress in Munich. At the end of the Congress at the second session of the General Assembly the chairs will be allowed briefly to comment on any major changes to their work plans. The final work plans will be brought to the General Assembly together with the Council Work Plan in Hong Kong in May 2007.

New Commission chairs have appointed Dr. Chryssy Potsiou as the ACCO representative to the Council for term of office 1.1.2007-31.12.2008. Dr. Potsiou presented the summary of the work plans at the meeting.

### **Appendices to item 23:**

- 23.1** Commission 1 draft Work Plan, attached as appendix to the minutes
- 23.2** Commission 2 draft Work Plan
- 23.3** Commission 3 draft Work Plan
- 23.4** Commission 4 draft Work Plan
- 23.5** Commission 5 draft Work Plan
- 23.6** Commission 6 draft Work Plan
- 23.7** Commission 7 draft Work Plan
- 23.8** Commission 8 draft Work Plan
- 23.9** Commission 9 draft Work Plan
- 23.10** Commission 10 draft Work Plan

**Motion:** That the General Assembly records the draft work plans and discussion for information at this time and that the final work plans will be brought for the General Assembly for approval in May 2007 and further confirms the appointment of Dr. Chryssy Potsiou as the ACCO representative in the Council for 2007-2008.

**Decision:** The motion was adopted.

## **President's Meeting, Friday 13 October 2006, 9:00–11:00, Forum 8, Holiday Inn City Centre**

### 24. PRESIDENT'S MEETING

Totally 63 people attended this President's Meeting out of which 52 were Presidents or leaders of delegations. At the meeting co-operation between FIG and its member associations as well as actual issues raised by the member associations were discussed. A separate memorandum of this meeting is circulated to the participants of the meeting and to the Presidents of member associations.

## **General Assembly, Second Session, Friday 13 October, 11:30–13:00, Grand Ballroom, Holiday Inn City Centre**

### 25. ROLL CALL

Vice President Andreas Drees took the roll call. The roll call was made only for member associations and affiliate members. Other members were recorded based on the registration information given to the FIG office at the door of the meeting room.

**Appendix to items 2 & 25:** Roll Call.

65 member associations out of 101 were present at this session, which is more than one third of the membership needed for the General Assembly to be constitutionally valid.

General Assembly had appointed Dr. Dalal S. Alnaggar from ECSM, Egypt and Ms. Christiane Salbach from DVW, Germany as tellers to this session of the General Assembly. Under item 30 and 31 the teller was Mr. Hannu Ridell from MIL, Finland.

**Motion:** That present members are recorded in the minutes.

**Decision:** The motion was adopted.

## 26. MEMBERSHIP

### 26.1 Member associations

#### 26.1.1 China Institute of Real Estate Appraisers and Agents (CIREA)

China Institute of Real Estate Appraisers and Agents (CIREA) from China P. R. has submitted its membership application to become a member association of FIG. The association has 16,000 qualified members. The association is representing appraisers in China and the application has been approved by the Ministry of Construction of the People's Republic of China. CIREA has discussed the application with the current member association from China (the Chinese Society of Geodesy, Photogrammetry and Remote Sensing) during the congress in Munich.

The FIG Council has considered the application and believes that the association meets criteria for membership of FIG as a member association and therefore proposes to the General Assembly that it adopts the membership application.

**Appendix to item 26.1.1:** Membership application from the China Institute of Real Estate Appraisers and Agents.

**Motion:** That the General Assembly admits the China Institute of Real Estate Appraisers and Agents (CIREA) from China P. R. as a member association of FIG.

**Decision:** The motion was adopted. Dr. (Patrick) LIAO Junping, Vice President of CIREA addressed the General Assembly on behalf of the new member association and the association was given its membership certificate.

#### 26.1.2 FENEA – Federação Nacional dos Engenheiros Agrimensores

FENEA – Federação Nacional dos Engenheiros Agrimensores from Brazil has submitted its membership application to become the second member association of FIG from Brazil. The association has about 300 qualified members. The application has been discussed with the official delegate of the current member association from Brazil (Brazilian Society of Cartography, Geodesy, Photogrammetry and Remote Sensing – SBC) in Munich and SBC has supported the application.

The FIG Council has considered the application and believes that the association meets criteria for membership of FIG as a member association and therefore proposes to the General Assembly that it adopts the membership application.

**Appendix to item 26.1.2:** Membership application from FENEA – Federação Nacional dos Engenheiros Agrimensores, will be attached to the minutes of this meeting.

**Motion:** That the General Assembly admits FENEA from Brazil as a member association of FIG.

**Decision:** The motion was adopted. Prof. Jose Sergio Pahor addressed the General Assembly on behalf of the new member association and the association was given its membership certificate.

The Council further informs the General Assembly that surveyors association from Montenegro will join FIG by the next General Assembly in Hong Kong.

**Motion:** That the General Assembly notes this report.

**Decision:** The motion was adopted.

## 26.2 Other membership issues

The Council informs the General Assembly:

- that the Council has adopted following new affiliate member:
  - National Agency for Cadastre and Land Administration from Romania
- that the Council has adopted following new academic member:
  - Riga Technical University, Department of Geomatics, Latvia
- that the Council has adopted following new corporate member:
  - SEDIC – Sudan Engineering & Digital Information Center, level D

**Motion:** That the General Assembly endorses the new members.

**Decision:** The motion was adopted.

## 27. ELECTION OF THE FIG PRESIDENT FOR 2007-2010, TWO VICE PRESIDENTS FOR 2007-2010 AND ONE VICE PRESIDENT FOR 2007-2008 (OPTIONAL)

### 27.1 Election of the FIG President

Introduction, nominations and appendices are under item 21.1.

In the election of the FIG President every member association has one vote to give to one of three candidates. If one candidate gets more than 50 per cent of the given votes, he will be elected. If there is no majority in the first vote, a second vote will be carried between those two candidates that have got most votes in the first vote. The candidate with most votes will then be elected.

**Motion:** That the General Assembly elects the FIG President for the term of office 1.1.2007-31.12.2010 following the election procedure described above.

**Decision:** In the election 61 votes were given. Prof. Stig Enemark got 35 votes, Mr. Ken Allred 16 votes and Mr. TN Wong 10 votes. Because Prof. Enemark got an absolute majority of the votes available he was elected as the FIG President for term of office 1.1.2007-31.12.2010. The General Assembly welcomed Prof. Enemark as the new President of FIG and he gave a short speech of thanks.

### 27.2 Election of two FIG Vice Presidents for 1.1.2007-31.12.2010

Introduction, nominations and appendices are under item 21.2.

**Motion:** That the General Assembly appoints Dr. Dalal S. Alnaggar and Mr. Matthew Higgins as FIG Vice Presidents for the term of office 1.1.2007-31.12.2010 as there are no other candidates.

**Decision:** Motion was adopted and Dr. Dalal S. Alnaggar and Mr. Matthew Higgins as FIG Vice Presidents for the term of office 1.1.2007-31.12.2010.

### 27.3 Election of an FIG Vice President for 1.1.2007-31.12.2008 (optional)

After Prof. Stig Enemark was elected as the new FIG President, an election for a Vice President for his remaining term of office 1.1.2007-31.12.2008 was needed.

Introduction, nominations and appendices are under item 21.3.

In the election of the FIG Vice President every member association has one vote to give to one of three candidates. If one candidate gets more than 50 per cent of the given votes, he will be elected. If there is no majority in the first vote, a second vote will be carried between those two candidates that have got most votes in the first vote. The candidate with most votes will then be elected.

**Motion:** That the General Assembly elects the FIG Vice President for the term of office 1.1.2007-31.12.2008 following the election procedure described above

**Decision:** In the election 62 votes were given. Prof. Paul van der Molen got 40 votes and Prof. Ralf Schroth got 22 votes. Because Prof. van der Molen got an absolute majority of the votes available he was elected as the FIG Vice President for term of office 1.1.2007-31.12.2008. The General Assembly welcomed Prof. van der Molen as the new Vice President of FIG and he addressed the General Assembly briefly after the election.

### 28. DECISION ON THE VENUE OF THE FIG WORKING WEEK 2011

Introduction, nominations and appendices are under item 22.

The presentations of the candidates to host the FIG Working Week 2011 has taken place at the first session of the General Assembly.

The voting of the venue will take place so that each member association will have one vote. If one of the candidates will get the absolute majority of the given votes on the first vote, it has been selected. If there is no majority for any of the candidates a second vote will be organised between the two venues that have got most votes in the first vote. The venue that gets most votes on the second vote will be selected as the venue of the FIG Working Week 2011.

**Motion:** That the General Assembly decides on the venue of the FIG Working Week 2011.

**Decision:** In the voting 62 votes were given in total as follows: Marrakech, Morocco 30 votes, Rome, Italy 16 votes, San Juan, Puerto Rico 10 votes and Abuja, Nigeria 4 votes, in addition two abstained or rejected votes. As there was no absolute majority for any of the candidates a second vote between the destinations that got most votes in the first round should have taken place. These were Marrakech and Rome. Consiglio Nazionale Geometri however informed that they withdraw their bid. After this it was announced that the FIG Working Week 2011 will be held in Marrakech, Morocco hosted by FIG and ONIGT.

## 29. COMMISSION WORK PLANS 2007-2010

The new Commission chairs will be given an opportunity to briefly report back to the General Assembly on any major changes to their work plans based on commission and planning meetings during the Congress.

Draft Commission Work Plans are introduced under item 23.

**Motion:** That the General Assembly records the progress reports and notes that the final work plans will be brought to the General Assembly for its approval in Hong Kong in May 2007.

**Decision:** The motion was adopted.

## 30. REPORTS OF THE WORKING WEEKS 2007, 2008 AND 2009 AND THE CONGRESS 2010

The hosts of the Working Week 2007 (HKIS, Hong Kong SAR, China), 2008 (SLF, Sweden) and 2009 (ALSI; Israel) and the FIG Congress 2010 (ISA and SSI, Australia) have been asked to make brief oral reports on the preparations for their respective events.

Report on the 6<sup>th</sup> FIG Regional Conference to be held in San Jose, Costa Rica 11-15 November 2007 will be given at the meeting.

**Motion:** That the General Assembly notes the reports. That the General Assembly confirms the dates of the next FIG events as follows:

- FIG Working Week 2007, Hong Kong, Hong Kong SAR, China, May 13-17, 2007
- 6<sup>th</sup> FIG Regional Conference in San Jose, Costa Rica, 11-15 November 2007
- FIG Working Week 2008, Stockholm, Sweden, June 14-19, 2008
- FIG Working Week 2009, Eilat, Israel, 3-8 May 2009
- FIG Congress, Sydney, Australia, 9-16 April 2010

**Decision:** The motion was adopted and the General Assembly confirmed the dates of the future FIG events as proposed.

## 31. PRESENTATION OF CERTIFICATES OF APPRECIATION

President Holger Magel presented at the closing ceremony certificates of appreciation to members of the local organising committee of the XXIII FIG Congress and to other persons that had actively participated in the arrangements of the successful Congress. Special thanks were recorded to Mr. Hagen Graeff, President of DVW for hosting the FIG Congress and Council for the past four years and to Mr. Thomas Gollwitzer, FIG Congress Director.

## CLOSING CEREMONY

The President formally closed the 29<sup>th</sup> General Assembly of FIG.

At the closing ceremony the FIG banner was handed over by Mr. Hagen Graeff, President of DVW to Graham Marion, President of ISA. The FIG Congress 2010 will be held in Sydney, Australia, 9-16 April 2010. The next FIG event is the FIG Working Week in Hong Kong SAR 13-17 May 2007.

**FIG:APPLICATION FORM FOR MEMBERSHIP AS A MEMBER**  
**ASSOCIATION**

**1. Name of association**

in own language: Asociatia Patronala din Cadastru, Geodezie si Cartografie

in English: Romanian Association of Private Surveyors

**2. Adress**

Splaiul Independentei 202 A, et.5, ap.23, 6<sup>th</sup> district, Bucharest,  
Romania

**3. Telephone no.: 0040/21/323.48.96**

**4. Fax no.: 0040/21/321.62.82**

**5. E-mail address: [valeriu.m@theotop.ro](mailto:valeriu.m@theotop.ro), [apcgc@zappmobile.ro](mailto:apcgc@zappmobile.ro).**

**Home page address: [www.apcgc.ro](http://www.apcgc.ro)**

**6. Name of President: Valeriu Manolache**

**7. Administration**

The President: Valeriu Manolache, the Administration Council has 9  
members.

**8. Date of formation of association: 20.03.1996**

**9. Objectives and ethics (please find enclosed Annex I)**

**10. Routes of entry to membership (please find enclosed Annex II)**

**11. Members**

No. of holders the title qualified: 262

qualifying: 36

No. of technician or sub-professional members qualified: 27

qualifying: 0

**12. Specialisations**

% of qualified members whose principal specialization is ?

• Hydrography	1%
• Positioning/measuring	15%
• Engineering/surveys	30%
• Cadastre/ land management	46%
• Spatial planning/ development	6%



• Valuation/real estate management	2%
• Construction cost management	0%

**13. Statutory recognition**

Is the association constituted by statute?

Yes (please find enclosed Annex III)

**14. Employment**

% of qualified members

- a. self-employed and employed in private practice .....98%
- b. teaching .....2%
- c. employed by government .....0%
- d. employed in the commercial or other sectors .....0%

**15. Subscriptions**

Please state the annual subscription payable by each grade of membership:

240 USD/ year/ legal person.

**16. Services to members**

Does the association publish a journal (if so, please state title and frequency)

The Romanian Association of Private Surveyors does not yet publish a journal, but this activity is included on the agenda of 2007.



## **Annex I**

The Romanian Association of Private Surveyors represents the technical, economical and juridical interests of its members in the relation with the Romanian or foreign public authorities, the governmental and non governmental institutions, the labour organizations and the private partners.

APCGC supports the elaboration and the implementation of its own or group strategies regarding the legislation and the norms related to the fair trade practice in the economic activity and concerning the relations with its members.

APCGC assures a mutual technical and economical support among its members, and also in relation with the financial institutions in order to provide an economic development for its members.

The Romanian Association of Private Surveyors

- Provides for its members information and data concerning the related commercial activity.
- It facilitates for its members the following services: consultancy, informatization, specialized assistance, expertise, juridical and economical assistance, training courses.
- It creates a positive image for its members:
  - By increasing the transparency of its activities
  - Through the relations with the mass media
  - Through the mediation with the state institutions.
- It assures the dialogue with the syndicates and the employees' representatives.
- It mediates and supports the relations with the financial institutions in order to obtain creditation opportunities and to attract foreign investments.
- At international level:
  - It assures the information exchange and the participation at professional events worldwide.
  - It assures the experience exchange and the visits between similar companies.
- It promotes and protects the interests of its members by:
  - Set-up cooperation relations with local or foreign professional associations and similar federations.
  - The affiliation to national and private professional associations.
  - The publication of journals, magazines, other media products.

## **Annex II**

The members of the Romanian Association of Private Surveyors are surveying engineers. The level of academic qualification required to obtain this degree is provided by the Faculty of Geodesy, the Technical University of Constructions – Bucharest.

The training programme at this level lasts 5 years.

Prior to the acquisition of the title, it is necessary to have an experience of at least 3 years, as it is regulated by the statute of APCGC.

The requirements for continuing the professional development are not mandatory. APCGC has a partnership with the Technical University of Constructions regarding the possibility for its members to continue their professional qualification by doing post-universitary courses.

APCGC organized together with the Romanian Union of Geodesy and the Faculty of Geodesy national symposiums and conferences in the fields of cadastre and land measurements.

The Romanian Association of Private Surveyors allows, under the statutory provisions the professionals with an academic level as members associates. The technicians can become only affiliate members.



### **Annex III**

The members of the Romanian Association of Private Surveyors can perform all the activities related to their profession, as follows:

Engineering, mine surveying, cartography, cadastre, photogrammetry, mapping, remote sensing, spatial planning, hydrography, valuation.



Hamburg, den 2. März 2007

President  
Prof. Stig Enemark  
International Federation of Surveyors, FIG  
Kalvebod Brygge 31-33

DK 1780 Copenhagen V  
Denmark

***Nomination for Honorary***

Dear Stig,

the German association for geodesy, geoinformation and land management, DVW e.V. had their last General assembly on 23. February in Leipzig. There we decided to make, the proposed to the FIG-Council to appoint Prof. Dr. Holger Magel by the FIG-GA in Hongkong as Honorary President of FIG.

We are sure, that Prof. Holger Magel was an outstanding FIG-President. In that period he and his whole council did more than a good job.

Prof. Magel was always active to get new members for FIG, made many contacts to the UN, broadened connections to the other international Organisations and associations and found new ways to make FIG an important partner especially in the field of Land Management.

We think, the most important activity of Prof. Holger Magel was his focus on Africa. He found new partners, new members and a new task for us all: Africa as challenge to support our profession.

I hope, the Council can agree with us, that Prof. Holger Magel will be a deserving Honorary President.

With kind regards

A handwritten signature in black ink that reads 'Hagen Graeff'.

**Präsident**  
Hagen Graeff  
Tel.: 040/42 826-50 50  
Fax: 040/42 826-59 65  
Hagen.Graeff@dvw.de

**Präsidiumsmitglieder**  
Prof. Dr. Günter Schmitt  
Dr. Karl-Friedrich Thöne  
Christof Rek  
Eberhard Ziem  
Dr. Hartmut Fritzsche

**Geschäftsstelle**  
Feierabendstrasse 12  
79235 Vogtsburg

**Geschäftsstellenleiterin**  
Christiane Salbach  
Tel.: 07662/949-287  
Fax: 07662/949-288  
Christiane.Salbach@dvw.de

**Konten des DVW**  
Postbank Hamburg BLZ: 200 100 20  
Kto.Nr.: 755 3209  
Stadtsparkasse Düsseldorf  
BLZ: 300 501 10  
Kto.Nr. 140 159 78  
Umsatzsteuerident.nr. DE174561914  
Steuernummer: 105/5888/1340

## An End of Term Report of the FIG Council 2003-2006

### 1. General

The FIG Council 2003-2006 (German Council) selected "Shaping the Change" for its motto. The motto was very appropriate for following reasons as described in the work plan: "The world and its societies are changing rapidly and so does the profession of surveyors. The most essential changes for FIG are the continuing process of democratisation and the increasing commitment of the profession to sustainability and more equity all over the world. This happens in coincidence with the well-known principles of good governance and the development towards a civil society. To protect and to develop the position of the profession in international and national surroundings and to assist the transition to the already adopted new administrative structure of FIG the important challenge for the new Council is to shape the change within and outside FIG in 2003–2006." The leading topics for the period 2003-2006 were:

1. Promoting democratisation
2. Increasing participation both numerical and multicultural
3. Taking on responsibility in global and national affairs
4. Learning from each other
5. Helping in the process of globalisation
6. Broadening the view and practice of the profession
7. Co-operating and communicating especially also with politics and politicians
8. Searching optimal structures
9. Increasing professionalism
10. Enhancing and assessing of quality and costs

The detailed work plan is described in the FIG publication no. 32 ([http://www.fig.net/pub/figpub/pub32/pub\\_32.pdf](http://www.fig.net/pub/figpub/pub32/pub_32.pdf)). The implementation of the work plan is described in more detail in the FIG Annual Review 2006 that will be available before the Working Week in Hong Kong. In the following only some major achievements are described.

### 2. Governance

The German Council concluded the transition period of FIG administration from a member association hosted Council and congress to a fully international Council that is independent on the venues of FIG events. The transition period was started over ten years ago during the British administration and continued during the US administration.

### 3. Membership and communication with members

The membership basis of FIG ([www.fig.net/members/membindex.htm](http://www.fig.net/members/membindex.htm)) has been broadened so that 20 new member associations have joined FIG in 2003-2006 and at the same time 5 associations have resigned, total number of member associations being 101 at the end of 2006. New countries represented in FIG by a member association include in the Arab countries: Algeria (new association), Tunisia and United Arab Emirates and in Latin America: Brazil, Costa Rica, Cuba and Mexico. The most successful development has been in Africa,

where Botswana, Benin, Democratic Republic of the Congo, Tanzania and Togo are now represented in FIG. Africa was a special focus of the “German “period! In Asia new members come from Brunei Darussalam, Iran and Mongolia (new association) and in Europe from Kosovo MIK, Slovakia (second association), Serbia (new association) and Georgia. In addition new affiliate members have joined from Australia/New Zealand, Belgium, Hungary, Iceland, Mongolia, Peru and Saudi Arabia while one has been expelled. The number of corporate members was 34 at the end of 2006 including new platinum members Intergraph and Topcon.

The first membership to FIG is often through academic membership. During 2003-2006 the number of academic members increased from 48 to 77 academic institutions from 48 countries (39 new members and 8 resigned/expelled). The new memberships were very often the result of visits and on site lectures of the President and Council or commission representatives.

The Council strengthened its support to member associations by increasing co-sponsored events and participation to national conferences (by linking visits to such events). During the visits and at the events the Council managed to focus discussion on the professional qualifications of member associations and their individual members.

#### **4. Co-operation with the United Nations and other international organizations**

At the end of the term of office of the German Council FIG is now considered to be one of the main professional partners of the United Nations. These partners include especially the United Nations Programme for Human Settlements (UN-Habitat) and the Food and Agricultural Organisation (FAO) on land related issues. The co-operation with the United Nations Environment programme (UNEP) has been intensified during the FIG conferences in Marrakech 2003 and in Munich 2006. New memorandum of understanding has been signed with the United Nations Office for Outer Space Affairs (OOSA) in 2004. First time since its establishing the President of FIG was also chairing the Habitat Professionals Forum. FIG participated following UN events in 2003-2006: United Nations Programme for Human Settlements (UN-Habitat): 19<sup>th</sup> Session of the Governing Council of UN-Habitat (Nairobi, May 2003), 2<sup>nd</sup> World Urban Forum (Barcelona, September 2004), World Habitat Day (Nairobi and Geneva, October 2004), Expert Group Meeting (co-organised by FIG Commission 7, Nairobi November 2004), Global Land Tools Network (Oslo, March 2006) and 3<sup>rd</sup> World Urban Forum (Vancouver, June 2006); UN Economic and Social Council (ECOSOC): High Segment Round table on Urban-Rural Interface and Slums (Geneva, June 2003); UN Statistics Division: Regional Cartographic Conference for Asia and the Pacific (Okinawa, July 2003), Regional Cartographic Conference for the Americas (New York, June/July 2005); UN Economic Commission for Europe (UN ECE): Working Party on Land Administration (Athens, May 2003 and Tbilisi May 2006); UN Economic Commission for Africa (UN ECA): Committee on Development Information (CODI III) (Dar-es-Salam, May 2003); UN Office for Outer Space Affairs (OOSA): GNSS Meeting (Vienna December 2003, December 2004 and December 2005). FIG organised also together with INEGI and PC-IDEA on behalf of the United Nations the Seminar in Aguascalientes in October 2004 and further an Expert Group meeting together with UN-Habitat in Bangkok in November 2005 (Commission 7).

The main activities in promoting sustainable development have been joint activities with the United Nations and participation to UN events e.g. the ECOSOC High Level Segment Round table in Geneva in June 2003 and the two UN-Habitat World Urban Forums in Barcelona and Vancouver. FIG further established a working group on risk and disaster management under Commission 8 after the tsunami catastrophe which then was extended to co-operation with other sister organisations in JB-GIS.

Co-operation with the professional sister organisations is based on bilateral agreements. In 2004 a memorandum of understanding was signed with the International Hydrographic Organisation (IHO) and in 2005 with the International Federation of Hydrographic Societies (IFHS). The co-operation with sister organisations is by initiative of FIG now coordinated by the Joint Board of Geospatial Information Societies (JB-GIS) whose position was formalised at a JB-GIS meeting during the FIG Working Week in Cairo. The FIG President is currently the chair of the JB-GIS. The President also attended the World Congress of the International Union of Architects in 2004.

Co-operation with the JB-GIS includes also a committee on capacity building and education in Africa.

## **5. FIG events**

The joint activities of the Federation were collected to the working weeks and regional conferences, however allowing commissions to have their annual meetings and expert group meetings separately when these have been considered more effective. The professional activities have been the task of commissions on the first place while the Council has been the main actor in external co-operation including co-operation with professional sister organisations and the United Nations, however using the special expertise of the technical commissions.

The quality of professional presentations at the FIG events has been two folded balancing between quality and allowing broader participation by allowing delegates to make presentations on their activities and professional studies. Different models to highlight best papers have been studied. These included recommended papers and idea of best practice studies. At the moment selected high profile papers are published as the article of the month on the FIG web site. Further the model of invited papers has been extended beyond plenary sessions to special high profile sessions at the congress. Further co-operation with scientific sister organisations (especially with the International Association of Geodesy, IAG) has been extended by organising joint expert meetings (Commissions 5 and 6) and by organising expert group meetings together with the United Nations (Commission 7). This better cooperation has a lot of positive impact on education and profession of geodesy, GIS and land management in the member countries!

The concept of regional conferences turned out to be a successful initiative. Regional conferences in Marrakech 2003, in Jakarta 2004 and in Accra 2006 all have gathered good participation from the hosting country and the region attracting participants that normally do not have change to attend FIG events. This has also promoted cultural diversity in the contents and context of the FIG events. In addition it has been possible to organise these event with reasonable registration fees and at the same time giving more financial surplus.

Unfortunately the regional conference planned for Havana had to be cancelled in 2005. A very positive outcome of these regional conferences was a better public and political awareness and marketing of our profession and our commitment for society and nature!

The establishment of regional conferences has gathered some commission events and has benefited smaller commissions, but at the same time increased the pressure on commissions and their officers. The bigger commissions still organise their own events which together with other international events makes the competition harder as it is not possible to attend all events. Commissions 5 and 6 have intensified co-operation with other organisations by organising joint seminars and workshops. FIG Office is now in charge for organising working weeks and regional conferences, which has generated more income to the Federation.

The importance of getting young surveyors to the work of FIG has been recognised. One result is the report prepared by the working group on under-represented groups in surveyors offering proposals how to help young surveyors and students to attend FIG activities and events. At the latest working weeks a special session and meeting has been organised for students. At the congress in Munich there was special programme for students. FIG and the FIG Foundation have supported also the meetings of the International Geodetic Students Meetings during last three years. The role of the FIG Foundation has increased, although the funds available have not increased as rapidly as one would have hoped. A very hopeful result is the increased commitment of members associations from Sweden, Denmark or Germany which have supported young students to participate FIG events. This could be a model at least for all wealthier member associations!

## **6. Information policy**

Services to member associations were strengthened by improved communication (e.g. monthly e-Newsletters and President's letters and by effective use of the FIG web site).

The FIG conferences have been covered in the media better than earlier and it is now standard to have media conferences at all events as well as articles on the national newspapers and television. A "political" opening speech and Summary reports and conclusions by the President have focussed the message of the events to national and international audience. The individual members of member associations have direct access on all FIG material on the web site and they are able to subscribe the monthly e-Newsletter directly (estimated more than 4,000 subscriptions). The Annual Review works as a more general marketing tool for FIG activities.

After intensive discussions with the Commissions the FIG World Report was replaced by the Surveyors Reference Library ([www.fig.net/srl](http://www.fig.net/srl)), which includes at the moment all papers from the FIG congress, working weeks and regional conferences since December 2003.

The e-Newsletter and the article of the month have resulted in more material about FIG in national surveying journals and newsletters.

## **7. Council and administration**

The responsibilities of the Council members were shared based on their professional expertise and regions where they come from. When the Council members represented several regions (Asia, North America, Europe and by the ACCO representative also Australia and the Pacific) this allowed closer co-operation with member associations and other members in the regions. The position of the FIG Office has been financially secured and the actions made to secure long-term efficiency.

## **8. Finances**

The financial situation has improved very well during the German administration. The equity has grown from € 219,660 at the end of 2002 to € 392,875 at the end of 2006, which means an increase of 79 per cent. The reserves have increased from € 226,270 to € 375,314 (increase of 66 per cent). The reserve covers now approximately one year's expenditure that was the minimum goal of the German Council.

The equity of the FIG Foundation has increased from € 72,510 at the end of 2002 to 116,767 at the end of 2006 and the reserves at the same time from € 83,396 to € 119,457.

## **9. Conclusion**

It was a great honour and wonderful enrichment to serve FIG and the global community of surveyors in more than 100 countries. Due to the impressive hospitality and technical support of our members and commissions the outgoing Council is deeply convinced that we could keep and even increase the strength and attractiveness of FIG. This was overwhelmingly demonstrated on all conferences and commission meetings, especially at the FIG Congress 2006 in Munich. Special thanks go to my loyal and efficiently working Council members. All what we have achieved is our common success!

Prof. Dr.-Ing. Holger Magel  
FIG President 2003-2006

March 2007

## International Office of Cadastre and Land Records (OICRF) Report of Activities 2006-2007



OFFICE INTERNATIONAL DU CADASTRE ET DU RÉGIME FONCIER  
INTERNATIONAL OFFICE OF CADASTRE AND LAND RECORDS  
INTERNATIONALES AMT FÜR KATASTER UND GRUNDBUCHWESEN

### 1. Report of activities 2006

This annual report gives an overview of the activities of the International Office of Cadastre and Land Records, one of the Permanent Institutions of the FIG.

### 2. Tasks

OICRF is a documentation and study centre for land administration. OICRF performed its activities in all areas of its tasks, namely:

- to collect and systematically file and index all documentary material relating to existing cadastral and land registration systems in all countries
- to make comparative studies of that material followed by publication of the results
- to give information and advice on all cadastral and land registration systems to all interested institutions or persons, whether for the purpose of study or to help countries wishing either to introduce a cadastre or a land registration system or to improve their existing system
- to maintain the documentary material on a day to day basis

OICRF makes every effort to offer best and quick services to anyone who requests for information, with a focus to members of FIG and professionals in Cadastre, Land Administration, Land Consolidation, Cadastral Surveying and Mapping and direct related fields of expertise as Geo Information and Communication Technology for Cadastral purposes.

### 3. [www.oicrf.org](http://www.oicrf.org)

The Office maintains a digital library containing in this moment about 6,700 publications, e.g. conference proceedings, magazine's articles, reports, etc. etc. on Land Administration. Since OICRF brings in the available and new documents digitally at [www.oicrf.org](http://www.oicrf.org), it has the most recent publications always digitally available for its users. Publications and documentation can be downloaded on line in .pdf format.

In 2006 the digital library got about 280,000 hits, with 208,000 page views, about 30,000 articles have been downloaded.

#### 4. Comparative studies

In 2006 OICRF published several comparative studies:

van der Molen, P. and Lemmen, C.H.J. (2006) Expert group meeting on secure tenure : new legal frameworks and tools, Bangkok, 8-9 December 2005 : editorial. In: FIG 2005 : Secure land tenure : new legal frameworks and tools in Asia and the Pacific : proceedings of an expert group meeting held by FIG commission 7, December 8-9, 2005, Bangkok, Thailand. / ed. by P. van der Molen and C.H.J. Lemmen. Frederiksberg, International Federation of Surveyors (FIG), 2006. ISBN: 87-90907-50-7. pp. 5-15.

van der Molen, P. (2006) Unconventional approaches to land administration : a first attempt for an international research agenda. In: FIG 2005 : Secure land tenure : new legal frameworks and tools in Asia and the Pacific : proceedings of an expert group meeting held by FIG commission 7, December 8-9, 2005, Bangkok, Thailand. / ed. by P. van der Molen and C.H.J. Lemmen. Frederiksberg, International Federation of Surveyors (FIG), 2006. ISBN: 87-90907-50-7. pp. 197-208.

van der Molen, P. and Lemmen, C.H.J. (2006) Unconventional approaches to land administration : a point of view of land registrars and land surveyors. In: FIG 2005 : Secure land tenure : new legal frameworks and tools in Asia and the Pacific : proceedings of an expert group meeting held by FIG commission 7, December 8-9, 2005, Bangkok, Thailand. / ed. by P. van der Molen and C.H.J. Lemmen. Frederiksberg, International Federation of Surveyors (FIG), 2006. ISBN: 87-90907-50-7. pp. 127-144 This paper has been presented earlier to the Expert Group Meeting held by FIG Commission 7 on 11-12 November 2004 at UN Gigiri Nairobi, Kenya: Secure Land Tenure – New Legal Frameworks and Tools’.

van der Molen, P. and Lemmen, C.H.J. (2006) Innovative technology for land administration : proceedings of a symposium held by FIG commission 7, June 24 - 25, 2005 University of Wisconsin, USA. Frederiksberg, International Federation of Surveyors (FIG), 2006. 124 p. ISBN: 87-90907-47-7.

van der Molen, P. and Lemmen, C.H.J. (2006) Secure tenure : report of an expert group meeting : Bangkok, Thailand, 8 - 9 December 2005. In: GIM international : the global magazine for geomatics, 20 (2006)2, pp. 57.

Lemmen, C.H.J., van Oosterom, P.J.M., Zevenbergen, J., Quak, W. and van der Molen, P. (2006) Further progress in the development of the core cadastral domain model. In: Innovative technology for land administration : proceedings of a symposium held by FIG commission 7, June 24 and 25, 2005 University of Wisconsin, USA. / ed. by P. van der Molen and C.H.J. Lemmen. Frederiksberg, International Federation of Surveyors (FIG), 2006. ISBN: 87-90907-47-7. pp. 81-106 This paper has been presented earlier: Peter van Oosterom, Christiaan Lemmen, Jaap Zevenbergen, Wilko Quak and Paul van der Molen, The Netherlands: Further Progress in the Development of the Core Cadastral Domain Model, FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005, From Pharaohs to Geoinformatics.

van der Molen, P. and Lemmen, C.H.J. (2006) Technology and land administration: developments and innovations. In: GIS Development : the geospatial resource portal. 3 p.

van der Molen, P. (2006) Unconventional approaches to land administration : a first attempt for an international research agenda. In: Land administration : the path to tenure security, poverty alleviation and sustainable development : land administration sessions ITC lustrum conference, Spatial information for civil society, capacity building for the international geo - information society, 14-16 december 2005, Enschede, The Netherlands / ed. by J. Kalf. Enschede : ITC, 2006. ISBN 90-6164-251-5. pp. 65-80. Paper published earlier in: FIG 2005 : Secure land tenure : new legal frameworks and tools in Asia and the Pacific : proceedings of an expert group meeting held by FIG commission 7, December 8-9, 2005, Bangkok, Thailand. / ed. by P. van der Molen and C.H.J. Lemmen. Frederiksberg, International Federation of Surveyors (FIG), 2006. ISBN: 87-90907-50-7. pp. 197-208.

- Lemmen, C.H.J., van Oosterom, P.J.M., Zevenbergen, J., Quak, W. and van der Molen, P. (2006) Further progress in the development of the core cadastral domain model. In: Land administration : the path to tenure security, poverty alleviation and sustainable development : land administration sessions ITC lustrum conference, Spatial information for civil society, capacity building for the international geo - information society, 14-16 december 2005, Enschede, The Netherlands / ed. by J. Kalf. Enschede : ITC, 2006. ISBN 90-6164-251-5. pp. 97-127.
- van der Molen, P. (2006) Democratic people's republic of Korea : editorial. In: *Abroad* : periodical newsletter of Kadaster International, 10 (2006)1, pp. 3.
- van der Molen, P. and Lemmen, C.H.J. (2006) Secure tenure : report of an expert group meeting : Bangkok, Thailand, 8 - 9 December 2005. In: *GIM international* : the global magazine for geomatics, 20 (2006)2, pp. 57.
- van der Molen, P. (2006) Unconventional approaches to land administration : the need for an international research agenda. In: *Proceeding of the 5th FIG regional conference for Africa : promoting land administration and good governance*, 8-11 March 2006, Accra, Ghana. 14 p.
- Augustinus, C., Lemmen, C.H.J. and van Oosterom, P.J.M. (2006) Social tenure domain model requirements from the perspective of pro - poor land management. In: *Proceeding of the 5th FIG regional conference for Africa : promoting land administration and good governance*, 8-11 March 2006, Accra, Ghana. 52 p.
- Mishra, S. and Lemmen, C.H.J. (2006) Enhancing land registration and cadastre and economic growth in India : 31st January to 1st February 2006, New Delhi. In: *GIM international* : the global magazine for geomatics, 20 (2006)4, pp. 57.
- van der Molen, P. and Mishra, S. (2006) Enhancing land administration and cadastre : land administration and social development. In: *GIM international* : the global magazine for geomatics, 20 (2006)4, pp. 15-17.
- Lemmen, C.H.J. and van Oosterom, P. (2006) Cadastral system IV : editorial. In: *Computers, Environment and Urban Systems* : an international journal, 30 (2006)5, pp. 523-528.
- van Oosterom, P.J.M., Lemmen, C.H.J., Ingvarsson, T., van der Molen, P., Ploeger, H.D., Quak, W., Stoter, J.E. and ... [et al.] (2006) The core cadastral domain model. In: *Computers, Environment and Urban Systems* : an international journal, 30 (2006)5, pp. 627-660.
- Villikka, M. and Lemmen, C.H.J. (2006) Promoting land administration and good governance : 5th FIG regional conference held in Accra, Ghana, March 8-11, 2006. In: *GIM international* : the global magazine for geomatics, 20 (2006)5, pp. 57.
- Akingbade, A.O., Paresi, C.M.J. and Lemmen, C.H.J. (2006) Land registration and cadastral information for good governance in Ondo state, Nigeria. In: *Proceedings of the Akure 41st annual general meeting and conference 'Sunshine 2006' : 2006 pre-AGM workshop on legal aspects of surveying and professional practise : theme: surveying mapping and disaster management*, 9-13 May 2006, Akure, Nigeria. Lagos : Nigerian Institute of Surveyors, 2006. pp. 74-86.
- van der Molen, P. (2006) A UNU school for land administration studies : editorial. In: *Abroad* : periodical newsletter of Kadaster International, 9 (2006)2, pp. 3.
- Lemmen, C.H.J. (2006) ICT and land administration : benefiting from technological innovations. In: *GIM international* : the global magazine for geomatics, 20 (2006)7, pp. 44-45.
- Heuel, S.R.K.B., Lemmen, C.H.J., Stoter, J.E. and van der Molen, P. (2006) Mutual dependencies of technology and business in geo - information management and its impact on education. Presented at EUGISES : 5th European GIS Education Seminar, September 7-10, 2006 Cracow-Pieniny Poland. 6 p.
- Lemmen, C.H.J. (2006) GIM interviews FIG president Holger Magel : well - grounded specialised generalists. In: *GIM international* : the global magazine for geomatics, 20 (2006)10, pp. 7-9.

Lemmen, C.H.J. and van Oosterom, P.J.M. (2006) Version 1.0 of the FIG core cadastral domain model. In: FIG 2006 : Proceedings of the conference : Shaping the change, XXIII FIG congress, München, Germany, 8-13 October 2006. 18 p.

van Oosterom, P.J.M., Ploeger, H.D., Stoter, J.E., Thompson, R. and Lemmen, C.H.J. (2006) Aspects of a 4D cadastre : a first exploration. In: FIG 2006 : Proceedings of the conference : Shaping the change, XXXIII FIG congress, München, Germany, 8-13 October 2006. 23 p.

van der Molen, P., Tuladhar, A.M., de Meijere, J.C., Morales Guarín, J.M., Lemmen, C.H.J., Loran, T.M. and van Elstrand, P. (2006) New : a school for land administration studies. In: FIG 2006 : Proceedings of the conference : Shaping the change, XXIII FIG congress, München, Germany, 8-13 October 2006. 12 p.

van der Molen, P. and Tuladhar, A.M. (2006) Corruption and land administration. In: FIG 2006 : Proceedings of the conference : Shaping the change, XXIII FIG congress, München, Germany, 8-13 October 2006. Frederiksberg: International Federation of Surveyors (FIG), 2006. ISBN 87-90907-52-3. 16 p.

van der Molen, P. (2006) Kadaster and China : editorial. In: *Abroad* : periodical newsletter of Kadaster International, 9 (2006)4, pp. 3.

Lemmen, C.H.J. (2006) Building the capacity : GIM International Interviews Prof. Stig Enemark, FIG President 2007-2010. In: *GIM international : the global magazine for geomatics*, 20 (2006)12, pp. 7-9.

Lemmen, C.H.J. (2006) Mapping software : product survey. In: *GIM international : the global magazine for geomatics*, 20 (2006)12, pp. 26-29.

Lemmen, C.H.J. and van Oosterom, P.J.M. (2006) FIG core cadastral domain model version 1.0 : distributed cadastral systems. In: *GIM international : the global magazine for geomatics*, 20 (2006)11, pp. 43-47.

## **5. Final Remark**

Activities of OICRF are possible by the generous support of its host, the Netherlands Cadastre, Land Registry and Mapping Agency.

Prof. Ir. Paul van der Molen  
Director OICRF

Ir. Christiaan Lemmen  
Secretary OICRF

## **International Institution for the History of Surveying & Measurement**

### **Report of Activities 2006-2007**

#### **1. Congress in Munich**

One and a half days were devoted to the History of Surveying. A good selection of papers on a wide range of topics was enjoyed by over 50 delegates. This was held at the LVG (Bavarian Survey Department). A visit to the in-house museum was greatly enjoyed, particularly so the store full of lithographic stones – 27 000 in all.

A visit was organised to the Survey display at the Deutsches Museum and this was followed by a special display of the 50 rarest historical surveying books. This was prepared by Jan de Graeve in the Deutsches Museum Library and was officially opened by FIG President Holger Magel. The display remained for two months and was visited by 1700 people after the Congress.

For the Congress the Group produced a 2007 Calendar using some of the etchings illustrated in the rare book display. Jan de Graeve prepared a 150 page description of the book exhibit which was offered to all delegates on a CD. Whilst all delegates received a copy of each of these items unfortunately no delegate or organisation ordered copies in bulk. Thus the effort to raise money for future work through the sale of these items did not materialise. Hence financing of the extension of the Struve Arc World Heritage Monument into Africa will require external funding.

#### **2. Working week in Hong Kong**

Efforts were made to get local interest in running a History session(s) in Hong Kong but unfortunately all efforts came to nothing. Even a trawl of some other S E Asian countries did not produce sufficient offered papers to warrant the effort.

#### **3. Working Week Stockholm 2008**

Unlike for Hong Kong where we found zero interest, with Stockholm it is different. This is particularly because it is one of the 10 countries that has part of the Struve World Heritage Monument. It is certainly expected that one or two days of historical sessions can be organised and the possibility of a visit to some of the Struve points is being investigated.

#### **4. Struve World Heritage Monument**

Work is progressing on the translation from French to English of the two volumes written by Struve detailing the work on the Arc. This runs to almost 1000 pages. The Norwegian Survey Department has financed the translation relating to some of the content that refers to that

country and it is hoped that other of the ten countries will assist similarly so that the work can be completed.

As mentioned in the last Report, in June 2006 Norway held inauguration ceremonies for two of its Struve Arc points. Both Jan de Graeve and Jim Smith were able to attend in Alta and Hammerfest. Unfortunately neither were able to get to the similar event held in August 2006 by Sweden. Jan de Graeve was at the time attending historical events in Australia organised by John Brock and colleagues. Jim Smith, whilst expecting to go to Sweden had to cancel because of the airport chaos at Heathrow that coincided with the event. This was based in Haparanda and included a visit to points as far as Hammerfest. Some of the other countries including Moldova and Latvia held similar ceremonies. Norwegian and Swedish colleagues invited Vitali Kapjug to the annual Struve Conference in Sweden.

Work continues slowly on efforts to extent the WHM to include the 30<sup>th</sup> Arc in Eastern Africa, but we will be forced to find external funding.

## **5. Future events**

The Group will continue to strive to improve the image of the surveyor through conferences and exhibitions.

J de Graeve expects to attend the Conference in Quebec in the autumn of 2007 and give a series of talks in Poland in October 2007.

There is an exhibition “Evolution from agricultural measurements to the decimal system”, planned for 15 February to 15 March 2008 in Braene l’allend, South of Brussels.

Jan de Graeve  
March 2007

## Report of the FIG Foundation 2006

### 1. Administration

The FIG Foundation is located in the FIG office in Copenhagen.

A Board of Directors chaired by the President of the FIG Foundation makes the decisions of the Foundation. In 2004-2006 the Board of Directors was:

- John Hohol, President of the FIG Foundation (USA)
- Prof. Michael Barry, Director (Canada)
- Iain Greenway, Director (Ireland)
- Prof. Bela Markus, Director (Hungary)
- Prof. Dr.-Ing. Ralf Schroth, Director (Germany)

Further Mr. Jack Dangermond, President and Founder of ESRI, has been acting as an Honorary Chair of the Foundation Fundraising Campaign.

At the Council Meeting 2 March 2007 the FIG Council decided to appoint the following persons to the Board of Directors of the FIG Foundation for period 1.1.2007-31.12.2010:

- John Hohol, President of the FIG Foundation (USA)
- Prof. Michael Barry, Director (Canada)
- Iain Greenway, Director (Ireland)
- Prof. Bela Markus, Director (Hungary)
- Ken Allred, Director and Council Representative (Canada)

### 2. Programmes in 2006

There are two grant programmes under the FIG and the FIG Foundation:

- The ESRI/FIG Grant Programme was introduced in 2002
- The Intergraph/FIG Grant Programme was introduced in 2003 including different categories of grants.

### 3. Donations in 2006

The FIG Foundation has received following donations at the FIG Congress in Munich:

- Donations from registrations	€ 12,250
- INTERGEO Treff	€ 5,940
- Voluntary donations	€ 1,809
In total	€ 20,000

Other donations

- Special Christmas donation from FIG	€ 815
- Donation from Klaus Rürup	€ 486

## List of donators in conjunction to the FIG Congress in Munich

Klaus Rürup  
Iain Greenway  
Andrew Morley  
Ralf Schroth  
Zlatan Zlatanow  
Adedeji Adewale  
Abdurrahman Kuleta  
Andreas Drees  
Tom Kennie  
Kjeld Lohmann Schöler  
Ken Allred  
John Brock  
John Hohol  
Volkmar Teetzmann  
Christian Kaul  
Zlatko Curik  
Arve Leiknes  
Paul van der Molen  
Cho Kyn-Jon  
Karl Friedrich-Thoene  
Larry Hothem  
Paul Marshall  
Luke Asika  
Christer Rek  
Pedro Cavero  
Jürg Kaufmann  
David Smejkal  
Alfred Bollinger  
Kevan Mason  
Annette Mason

### **4. Grants 2006**

The FIG Foundation received this year nine applications. The Board of Directors decided to give three grants at its meeting during the FIG Congress in Munich. The grants were admitted to following projects:

- Parama Anandan (India): Educating Voluntary Organizations in Disciplines of Surveying in Various Districts of Tamilnadu
- Catherine Kariuki (Kenya): The Impact of HIV/AIDS on Land Values and the Women's Property Rights in the Context of HIV/AIDS
- Ganesh Prasad Bhatta (Nepal): Institutional and Legal Aspects in Land Disputes: the Context of Nepalese Cadastral Surveying

The total amount of grants in 2006 was € 6,938.

The Board of Directors has announced the grants from The FIG Foundation for 2007. Applications shall be submitted to the FIG Foundation at the FIG Office by 30 August 2007. The FIG Foundation offers total grants up to € 20,000 in 2007.

## **5. Accounts 2006**

The income statement for 2006 and the balance sheet at 31 December 2006 are attached to this report.

The total income in 2006 was € 29,421 and expenses € 7,043 which gives the net result of €22,378

The total assets are € 122,784

**John Hohol**

President of the FIG Foundation

March 2007

**Income statement for 2006**

	<u>2006</u> EUR	<u>2005</u> EUR
<b>Profit, the FIG Foundation</b>		
<b>Income</b>		
Donations:		
Personal donations	486	2.572
Other donations	20.815	0
FIG Conferences:		
Regional conferences	4.493	11.445
Bank interest	<u>3.627</u>	<u>1.716</u>
<b>Income</b>	<u><u>29.421</u></u>	<u><u>15.733</u></u>
<b>Expenses</b>		
Grants	6.938	7.382
Bank costs	104	227
Fluctuation	<u>1</u>	<u>-2.126</u>
<b>Expenses</b>	<u><u>7.043</u></u>	<u><u>5.483</u></u>
<b>Net profit</b>	<u><u>22.378</u></u>	<u><u>10.250</u></u>

**Balance sheet at 31 December 2006**

**Assets**

	<b>2006</b>	<b>2005</b>
	<b>EUR</b>	<b>EUR</b>
Account receivable FIG	2.825	6.489
Other accounts receivable	502	1.348
<b>Receivables</b>	<b>3.327</b>	<b>7.834</b>
Cash	119.457	91.070
<b>Cash</b>	<b>119.457</b>	<b>91.070</b>
<b>Current assets</b>	<b>122.784</b>	<b>98.904</b>
<b>Assets</b>	<b>122.784</b>	<b>98.904</b>

**Equity and liabilities**

Equity at 1 January	94.333	84.082
Fluctuations	56	
Retained earnings	22.378	10.251
<b>Equity</b>	<b>116.767</b>	<b>94.333</b>
<b>Equity</b>	<b>116.767</b>	<b>94.333</b>
Other payables	6.017	4.571
<b>Short-term liabilities other than provisions</b>	<b>6.017</b>	<b>4.571</b>
<b>Liabilities other than provisions</b>	<b>6.017</b>	<b>4.571</b>
<b>Equity and liabilities</b>	<b>122.784</b>	<b>98.904</b>

## The Council Work Plan 2007-2010

### “Building the Capacity”

#### 1. Introduction

The Council believes that FIG should both “*fly high and keep the feet on the ground*”. As the leading international non-governmental organisation (NGO) on land issues, FIG must be able to interact with the key players in the field such as the United Nations agencies, the World Bank, and our sister organisations. FIG should therefore contribute to solving the global challenges as presented through the Millennium Development Goals (MDGs) and endorsed by the United Nations. At the same time FIG must be able to interact with politicians at national level to improve and promote the basic conditions for our services and role in society. And we should of course interact in a dialogue with the individual member associations and the individual surveyors to make FIG a relevant and proud icon for our profession. We must be able to strengthen the links between the global agenda and individual surveyors.

The Council proposes an overall theme for the next period of office: “*Building the Capacity*”. This theme applies to flying high and keeping our feet on the ground in the sense that capacity is needed in developing countries to meet the challenges of fighting poverty and developing a basis for a sustainable future, and at the same time capacity is needed in developed countries to meet the challenges of the future in terms of institutional and organisational development in the areas of surveying and land administration.

In general, the Council will strive to enhance the global standing of the profession through both education and practice, increase political relations both at national and international level, help eradicating poverty, promote democratisation, and facilitate economic, social and environmental sustainability.

On this basis, the key topics of the Council work plan are the following:

- Promoting and enhancing the role of FIG
- Continuing and enhancing the dialogue with member associations
- Promoting FIG as a truly global organisation
- Responding to the Millennium Development Goals
- Revising the conference structure
- Empowering Advisory Committee of Commission Officers (ACCO) and commission activities
- Sustaining the FIG office administration and finances.

FIG will execute these goals through the coordinated efforts of Council and commission activities. The Council will develop an action plan for implementation.

## 2. Promoting and Enhancing the Role of FIG

This relates to the key activities at all levels of the organisation. FIG will continually promote professional development through conferences and commission activities; capacity building and institutional development through guidelines and institutional support; and global development through cooperation with UN agencies and sister organisations. Finally, the Council will strengthen the links between the global agenda (*“flying high”*) and individual surveyors (*“keeping our feet on the ground”*)

- **Professional development**

FIG will continually provide a global forum for discussion and exchange of experiences and new developments between member countries and individual professionals in the broad areas of surveying and mapping, spatial information management, and land management. This relates to FIG annual conferences, regional conferences, and the work of the ten technical commissions within their working groups and commission seminars. The Council will ensure that this global forum offers opportunities to take part in the development of all aspects of surveying practice and the various disciplines including ethics, standards, education and training, and the total range of professional areas.

- **Capacity building and institutional development**

The Council will establish a Task Force to deal with Institutional and Organisational Development in surveying and land administration. The Task Force will provide guidelines for building the capacity of national mapping agencies, national surveying associations and survey companies to meet the challenges of the future. The Council will also provide institutional support to individual member countries or regions with regard to developing the basic capacity in terms of educational programmes and professional organisations.

- **Global development**

FIG will continually provide a global forum for institutional development through cooperation with international organisations such as the United Nations and its agencies (Food and Agriculture Organization of the United Nations (FAO), United Nations Human Settlements Programme (UN-Habitat), United Nations Environmental Programme (UNEP), United Nations Office for Outer Space Affairs (UN OOSA), the World Bank, and international non-governmental organisations such as our sister organisations (International Association of Geodesy (IAG), International Cartographic Association (ICA), International Hydrographic Organization (IHO), International Society for Photogrammetry and Remote Sensing (ISPRS) and Global Spatial Data Infrastructure Association GSDI). The cooperation will include a whole range of activities such as joint projects and joint policy making. The Council will ensure that this leads to joint efforts in addressing topical issues on the international political agenda, such as the reduction of poverty and the enforcement of sustainable development.

- **Linking the global agenda and individual surveyors**

The Council will serve the needs of our member associations, other members and individual surveyors and make sure that they benefit from our global activities and from the work of the technical commissions. This should be enhanced through an increased

dialogue with member associations with a focus on explaining the relevance and importance of global activities as a basis for developing the capacity and societal status of surveyors at national and local levels.

### **3. Continuing and Enhancing the Dialogue with the Member Associations**

The ongoing dialogue between Council, the commissions and member associations is of vital importance for FIG. This relates to all levels of FIG activities. The Council will ensure that this dialogue is continued and enhanced for the benefit of the global standing of the surveying profession. The Council will also strive to increase our member base and promote the benefits of being a member of FIG.

- **Promoting the benefits of being a member**  
The benefits of membership in FIG include issues such as international recognition and enhancement of the profile of the surveying profession; access to the international surveying community for exchange of experiences and new developments; and opportunities through the commission working groups to take part in the development of all aspects of surveying practice and professional issues. The Council will promote these benefits by all available means.
- **Increasing the membership base**  
The Council will strive to increase the FIG membership base by approaching potential new members and explaining the benefits of being a member of the global surveying community. Key regions in this regard are India, Central Asia, Central Africa and parts of Latin America.
- **Ongoing implementation of the information and communication policy**  
Sufficient, timely, and readily accessible information and communication is vital for FIG to ensure an ongoing dialogue with member associations. The FIG website is the key means in this regard. The Council will initiate an evaluation of the current website to make it even more informative and easily accessible. The Council will also review the current FIG information and communication policy that includes other means such as newsletters, President's letters, annual reports, FIG publications, etc., and prepare a more attractive and informative FIG brochure explaining about the organisation and its activities. The Council will also support efforts to establish an online peer reviewed FIG Journal.
- **Establishing a forum for mapping agency chief executives**  
The Council will consider establishing a special forum at FIG Working Weeks and Congresses aiming at chief executives of national mapping and cadastral agencies commencing at the 2010 FIG Congress. This should ensure a focus on organisational issues relevant to this group of participants.
- **Establishing a forum for corporate members**  
The Council will consider appointing an FIG ambassador for corporate members to increase the base of sponsorship at all levels of activity and establish a special forum for corporate members during FIG conferences.

- **Including students and young surveyors**

The Council will develop a policy for better integrating students and young surveyors into FIG activities. This should include easy access to the FIG conferences, and special sessions related to students and young surveyors.

#### **4. Promoting FIG as a Global Organisation**

FIG is now a truly global organisation based on the direct election of Council members from all regions of the world. The Council will strive to ensure a truly global representation at all levels of governance and at all FIG events. In this regard the term “*global*” covers both regional and cultural diversity.

- **Encouraging global representation in Council and commission officers**

The Council will encourage global representation in the Council as well as among Commission officers. This should reflect both regional and cultural diversity and ensure that FIG is governed and recognised as a truly global organisation. At the same time the election process should be fully democratic and aim to find the persons most suitable for the positions. The Council will strive to facilitate this process of maturing the organisation in a thoroughly global perspective.

- **Encouraging global distribution of and representation at FIG conferences**

The Council will strive to ensure that the FIG conferences are distributed in a way that reflects the truly global perspective of the organisation. The Council will also encourage a more global representation at the conferences with a special focus on facilitating an increased participation from developing countries.

- **Interacting with regional organisations and respecting cultural diversity**

The Council will increase interaction with regional surveying organisations sharing similar aims and objectives as FIG. Such organisations may relate to geographical regions or cultural background. This approach should increase the overall standing of the surveying profession at all levels. The Council will also consider appointing FIG Regional Ambassadors where appropriate to implement this approach.

#### **5. Responding to the Millennium Development Goals**

The eight Millennium Development Goals (MDGs) form a blueprint agreed to by all of the world’s states and the world’s leading development institutions. The MDGs represent a powerful concept towards development, security and human rights for all. These goals are now placed at the heart of the global agenda.

Surveyors play a key role in this regard in terms of providing some of the fundamental preconditions for development. FIG will identify its role in this process and spell out areas where the global surveying profession can make a significant contribution. Issues such as tenure security, pro-poor land management, and good governance in land administration are all key issues to be advocated in the process of reaching the MDGs. Modern surveying technologies offer good opportunities for FIG’s technical commissions to contribute in this

process. Measures such as capacity assessment, institutional development and human resource development are all key tools in this regard as well. FIG and the world wide surveying profession have already contributed in many ways to the implementation of the MDGs. However, a more focused approach is needed if FIG is going to present a clear profile in contributing to this global agenda.

- **Developing an FIG policy on the MDGs in cooperation with the UN agencies and the World Bank**

The Council will establish a UN Liaison Committee chaired by the President to bring together expertise to analyse, explain, and present an FIG response to the MDGs. The Committee will cooperate with UN agencies and especially the World Bank in developing an FIG policy document and a strategy for implementation of necessary actions. The policy should also help the world better understand the important contribution of the global surveying community in providing the basic conditions for social, economic, and physical development.

- **High level FIG/WB conference in 2008 to promote the FIG global profile in this area**

The Council will develop a Memorandum of Understanding with the World Bank that will outline the common interests and future cooperation between the two parties. On this basis the Council will liaise with the World Bank to establish a high level joint conference to be held at the World Bank headquarters in Washington DC, USA, in November 2008. The conference will present FIG and World Bank policies in this area and further develop common efforts on achieving the MDGs with a special focus on capacity building in land administration and good governance.

## **6. Revising the Conference Structure**

The FIG conference structure is a major concern in terms of possible overload and also allocating the necessary financial and human resources. The concept of having two conferences every year is too demanding in this regard. The Council will therefore implement the following structure:

- **Even years: Major conference such as the FIG Congress or a major Working Week**

The FIG congresses are held every four years on even years. Given the size of the congress there is then no capacity to have a regional conference the same year. Likewise, in even years between the congresses a major Working Week should be held e.g. in cooperation with a sister organisation or a UN agency.

- **Odd years: Working Week and regional conference in partnership with the UN organisations**

In odd years normal Working Weeks will be held. This will be complemented by a regional conference, normally held in a developing country, and having a more targeted approach related to the problems of that specific region.

- **Council initiated expert symposia on topical issues e.g. linked to national events**  
The Council will ensure that the conference structure is further complemented by various expert symposia focusing on specific themes and linked to national or sub-regional events.

## **7. Empowering ACCO and the Commission Activities**

The work of the commissions is the very heart of FIG activities. The Council will support this work by all available means. The Council will ensure that the Advisory Committee of Commission Officers (ACCO) is an empowered and innovative forum for professional development and strategic enhancement of FIG activities. This also includes issues such as the quality of the technical programme at conferences and the opportunity for having papers peer reviewed and published in an FIG Journal.

- **ACCO as a dynamic forum for strategic advice and professional development**  
The Council will facilitate and support the potential of the forum of the commission chairs and ensure an innovative dialogue with the Council. ACCO will be chaired by an appointed Council member in cooperation with the ACCO representative in the Council. ACCO meetings will also include time allocated for discussions with the President.
- **Enhancing the profile of the technical programme at the conferences including peer reviewed papers**  
The Council will encourage an enhancement of the quality of the technical programme e.g. by establishing key sessions within each commission with selected or invited high profile speakers. The Council will also encourage the establishment of a peer review system that allows for the possibility of getting papers peer reviewed based on academic standards. These measures will be balanced to ensure FIG conferences are still a forum for both academic and professional presentations.
- **Establishing an online FIG journal**  
The Council will support efforts to establish an online FIG Journal for publishing peer-reviewed papers. The format and profile of such a journal is to be further discussed with ACCO and FIG Academic Members.
- **Establishing Task Forces to deal with inter-commission activities and policy implementation**  
The Council will establish Task Forces to deal with relevant inter-commission activities especially in response to external requests and demands. e.g. the Council will establish a Task Force to deal with the FIG contribution to the UN-Habitat agenda on a Global Land Tools Network. This Task Force will include contributions from a range of commissions and especially 7, 8 and 9. The aim is to develop substantial input in this area to be launched at the UN-Habitat World Urban Forum in Nanjing, November 2008.

## 8. Sustaining the FIG Office Administration and Finances

The Council considers that the FIG Office, after the re-organisation of the office administration and the move to new premises, is functioning well. In the future services provided by the Office will be considered against resources, activities and new income generated through organising FIG events. During this term of office the Council will consider how FIG can be developed into a more self-financed organisation independent of the hosting member association. The Council will perform annual reviews of the FIG Office.

- **Administration**

The Council will allocate appropriate resources to the FIG Office to enable it to respond to the requirements set out in the work plan. The Council will also ensure that the services provided by the Office reflect the resources available. The FIG Office is currently hosted by DdL in Copenhagen free of charge. As a longer-term strategy, the Council will prepare for FIG to become fully economically independent. This process depends on the success of generating more revenue from FIG events.

- **Finance**

The Council will strive to ensure that the financial reserves become at least 1.5 times the annual expenditure of the Federation in order to guarantee the continuing operation of the FIG Office. To achieve this aim the Council will commit to only small increases in the membership fees to secure the current service level. The increases in financial reserves should be funded by increased sponsorship and by generating other sources of revenue including increased income from FIG conferences. The strategy of supporting countries with low or low-middle income economies will be continued and enhanced by various means.

- **Meetings**

Council meetings will take place at regular intervals, at a minimum of three times a year including meetings during the FIG conferences. Additional meetings will be organised by email or by teleconferences.

- **Events**

- FIG XXX General Assembly and Working Week, Hong Kong SAR, China, 13-17 May 2007
- 6<sup>th</sup> FIG Regional Conference, San Jose, Costa Rica, 12-15 November 2007
- FIG XXXI General Assembly and Working Week, Stockholm, Sweden, 14-19 June 2008
- FIG XXXII General Assembly and Working Week, Eilat, Israel, 3-8 May 2009
- 7<sup>th</sup> FIG Regional Conference, in the second half of 2009. Venue and dates to be decided in 2007
- FIG XXIV Congress and XXXIII General Assembly, Sydney, Australia, 9-16 April 2010

In addition FIG will organise or co-sponsor joint conferences and seminars together with other international organisations. The ten technical commissions will also organise their annual meetings, seminars, and symposia. All these events will be announced on the FIG web site.

## **International Federation of Surveyors**

### **Aim, Objectives and Mission Statement**

#### **1. Aim**

The aim of FIG is to be the premier international non-governmental organization that represents the interests of surveyors and users of surveying services in all countries in the world. It is a Federation of member associations all of whom seek excellence in the services that they deliver.

#### **2. Objectives**

The objectives of the Federation as defined in its Statutes are:

1. to provide an international forum for the exchange of information about surveying and for the development of fellowship between surveyors
2. to collaborate with the United Nations and other international and regional agencies in the formulation and implementation of policies affecting the use, development and management of land and marine resources
3. to promote the disciplines of surveying, particularly in developing countries and countries in economic transition
4. to promote the role of the surveyor in the management of natural and man-made environments
5. to promote the development of national associations of surveyors and to promote professional standards and codes of ethics and the exchange of surveying personnel
6. to promote high standards of education and training for surveyors and to facilitate continuing professional development (CPD)
7. to encourage the development and proper use of appropriate technology
8. to encourage research in all disciplines of surveying and to disseminate the results.

#### **3. Mission Statement**

The Mission of the International Federation of Surveyors is to ensure that the disciplines of surveying and all who practice them meet the needs of the markets and communities that they serve.

## Responsibilities of the Council Members 2007-2010

The individual responsibilities of the members of the Council for 2007-2010 are as follows.

### President Stig Enemark

- provide the professional and strategic leadership of the Federation
- take appropriate initiatives to ensure that the Federation achieves its principal objectives as laid down in the statutes and defined within the plan of work
- clarify and communicate a future vision for the Federation and oversee the development of the Federation's strategic plan
- promote the Federation to external agencies and ensure the co-ordination of the Federation's relations with such agencies
- recommend and ensure the appointment of task forces to undertake specific tasks which are not within the ambit of the commissions or to assist the work of the Council
- consult the General Assembly whenever a question arises outside the administrative powers of the Council
- submit a written report to each meeting of the General Assembly.

### Vice president Ken Allred

- be responsible for financial strategy and its implementation based on the guidelines given by the Council, advice the FIG office on finance issues, presentation and reporting back to the General Assembly on finance issues, and negotiation on salaries and issues related to the office staff in cooperation with the President
- develop fundraising policies for the Federation
- provide the link between the Federation and the FIG Foundation
- lead on links with member associations within North America
- co-operate with other international and with regional bodies according to the decisions of the Council
- chair and participate in task forces as appropriate
- report as required to meetings of the General Assembly.

### Vice president Matt Higgins

- chair the Advisory Committee of Commission Officers together with the ACCO representative
- ensure that commission chairs develop their plans of work for inclusion in the Federation's work plan
- ensure that commission chairs implement tasks assigned to them in congress resolutions and included in their work plans
- ensure that commission chairs deliver high quality technical programmes at the FIG events
- ensure liaison as required between the commissions together with the ACCO representative

- ensure liaison between the Council and the local organizing committee of FIG Congress 2010 as agreed with the President
- lead on links with member associations within Australia and the Pacific
- co-operate with other international and with regional bodies according to the decisions of the Council, especially UN OOSA
- chair and participate in task forces as appropriate
- report as required to meetings of the General Assembly.

Vice president Dalal S. Alnaggar

- be responsible for co-operation with students, young surveyors and under-represented groups
- lead on links with member associations within Arab countries and co-operation with the Arab Union of Surveyors
- develop the Federation's information policy and quality of FIG events
- co-operate with other international and with regional bodies according to the decisions of the Council, especially UNESCO
- chair and participate in task forces as appropriate
- report as required to meetings of the General Assembly.

Vice president Paul van der Molen

- be responsible for relations to the United Nations and the World Bank based on agreement with the President
- chair and participate in task forces as appropriate and chair the Task force on Developing Global Land Tools for Pro Poor Land Management
- co-operate with other international and with regional bodies according to the decisions of the Council
- report as required to meetings of the General Assembly.

Congress Director Paul Harcombe

- Congress Director of FIG Congress 2010 will not be a member of the Council, but will consult the Council and FIG Office on congress matters.

This list of responsibilities will be updated in relation to the plan of action that will be prepared for implementing Council Work Plan when adopted by the General Assembly.

**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT,  
INTERNATIONAL DEVELOPMENT ASSOCIATION**

**AND**

**INTERNATIONAL FEDERATION OF SURVEYORS**

**[DATE]**

---

---

This Memorandum of Understanding (“Memorandum”) represents a statement of intent by the International Bank for Reconstruction and Development (“IBRD”) and the International Development Association (“IDA”) (together, the “World Bank” or the “Bank”) and the International Federation of Surveyors (“FIG” or the “Other Party”) (together the “Parties”), to work together towards the achievement of common objectives and outlines the basis for collaboration between them.

## **1. Background**

- (a) The Bank is an international development institution established by Articles of Agreement adopted by its member countries. The Bank’s mission is to reduce poverty, improve living conditions, and promote sustainable and comprehensive development in the developing world. It achieves these objectives by providing loans, concessional financing, technical assistance, and knowledge-sharing services to its member countries and through partnerships with other organizations.
- (b) Further to its mission, the Bank, through its Land Policy and Administration Thematic Group, has an interest in collaborating with others to foster knowledge sharing, information dissemination, policy dialogue, training and capacity building in land administration and management in the developing world, across both rural and urban areas.
- (c) FIG is an international, non-government organization which is a federation of more than one hundred national surveying associations whose purpose is to support international collaboration for the progress of surveying in all fields and applications.. FIG’s activities are governed by a plan of work which is regularly reviewed against a longer-term strategic plan. The current plan of work focuses on the surveyor’s response to social, economic, technological and environmental change and the particular needs of countries in economic transition. FIG is committed to the United Nations’ Millennium Development Goals. FIG also recognizes that markets for surveyors’ services are constantly changing. The plan accordingly lays emphasis on strengthening professional institutions; promoting professional development; and encouraging surveyors to acquire new skills and techniques so that they may be properly equipped to meet the needs of society and the environment
- (d) FIG and the Bank seek to collaborate to foster knowledge sharing, information dissemination, policy dialogue, training and capacity building in land administration and management in the developing world. Through these collaborative efforts, the Bank and FIG seek to strengthen the capacity of civil society and governments, both central and local, to formulate and implement in a participatory mode integrated policies that promote sustainable land use, providing opportunities for access to land and security of tenure for all classes and sections in the community by developing and improving information bases, management tools, market mechanisms, legal frameworks and training and educational facilities for such policies and their implementation. Such collaboration is aimed at improving global, regional and local capacity in land tenure related issues such as land reform, land administration and land management, land valuation and land use, and appropriate technologies which would facilitate increased access to land and security of tenure for all classes and sections in the community, but particularly in relation to the disadvantaged.

## **2. Common Objectives**

- (a) Consistent with their respective mandates, the Parties desire to cooperate in carrying out activities conducive to foster knowledge sharing, information dissemination, training and capacity building in land administration and management in the developing world.. In so doing, the Parties will advance the achievement of strengthening property rights and improving households’ security of tenure, making land markets function better, reducing the time and cost of land transactions, improving land access and making improvements in governance and conflict resolution

- (b) The Parties anticipate that their collaboration will focus on a number of specific substantive areas which will include, but not be limited to:
- (i) a joint conference to be held in Washington D.C., in October or November 2008, to present the common efforts of the Bank and FIG in relation to the millennium development goals.;
  - (ii) FIG annual Working Weeks, regional conferences and workshops;
  - (iii) quadrennial FIG Congresses;
  - (iv) encouraging the participation of developing countries in FIG events such as forums, expert meetings, conferences and workshops;
  - (v) joint land administration and management policy publications;
  - (vi) peer review of publications and review of technical papers;
  - (vii) participate on agreed committees and technical panels; and
  - (viii) Strengthening local training and capacity-building institutions in land tenure, land management, land administration, land use planning and valuation-related issues..

### **3. Forms of Collaboration**

- (a) Further to the achievement of their common objectives, the Parties intend to consider ways to :
- (i) Share knowledge, ideas and lessons learned;
  - (ii) Plan joint activities in areas of common interest;
  - (iii) Collaborate on the promotion, preparation and organization of regional and global workshops, conferences and training seminars;
  - (iv) Collaborate on the organization and execution of research;
  - (v) Jointly engage in a dialogue with stakeholders and others interested in activities being pursued under this Memorandum;
  - (vi) Collaborate on the dissemination of the lessons learned and results of research to the public through publications, the Internet, seminars, workshops, conferences and other easily accessible and inexpensive means; and
  - (vii) Periodically evaluate the effectiveness of working in collaboration with each other, with reference to their respective organizational mandates and priorities.
- (b) The Parties anticipate that each Party will contribute to the activities undertaken pursuant to this Memorandum, in one or more of the following ways :
- (i) By providing staff time;
  - (ii) By providing facilities for workshops, conferences or training seminars;
  - (iii) By sharing materials, information, data and analytical tools with the other Party;
  - (iv) By providing support to relevant stakeholders; and
  - (v) By such other means as the Parties may agree.

- (c) **FIG agrees that the participation of World Bank representatives at FIG activities will be free of charge.:**

### **4. Implementation**

- (a) This Memorandum provides a framework within which the Parties may develop and undertake collaborative activities. Specific arrangements for individual activities and projects to be carried out pursuant to this Memorandum will be set forth in written work plans to be jointly formulated by the Parties. The 2007-10 proposed work plan attached.

- (b) Each work plan will specify the:
- (i) Major activities to be undertaken or major topics to be researched;
  - (ii) Budget and sources of funding or in-kind contributions for the activities to be carried out;
  - (iii) Relevant knowledge and expertise needed;<sup>1</sup>
  - (iv) Names of persons and institutions designated to perform the activities;
  - (v) Timeline for the activities to be undertaken;
  - (vi) Parties' agreement on the intellectual property rights, publication and use of the outputs, as appropriate (see Section 9 below); and
  - (vii) Expected follow-up steps, if any;
- (c) Upon agreement being reached between the Parties on a given work plan, each Party shall be responsible for its own share of the associated financial and other engagements.

**5. Key Points of Contact**

- (a) Each Party hereby designates and appoints below its representative with overall responsibility for implementing this Memorandum, including responsibility for formulating work plans for activities to be undertaken pursuant to it:

For the World Bank:

Keith Clifford Bell  
Senior Land Policy Specialist  
1818 H Street , NW  
Washington, D.C. 20433, USA  
Phone: +1 202 458 1889 ] Fax: +1 202 477 2733  
Email: kbell@worldbank.org

For the International Federation of Surveyors

Markku Villikka  
FIG Director  
FIG Office, Kalvebod Brygge 31-33  
DK 1780 Copenhagen V]  
Tel: +45 3886 1081 (switch board)  
Tel: +358 44 357 0911 (direct)  
Fax +45 3886 0252  
Email: markku.villikka@fig.net

**6. Limits to Agreement**

- (a) This Memorandum does not constitute an agreement or commitment by either Party to enter into or provide support for any specific activity or project.
- (c) Nothing in this Memorandum shall be construed as creating a joint venture, an agency relationship, or a legal partnership between the Parties.
- (d) Nothing in this Memorandum is intended to be, or should be construed as a waiver of the privileges and immunities of either Party or its officers and employees, which privileges and immunities are hereby specifically reserved.

**7. Names, Marks and Logos**

---

<sup>1</sup> This language would be appropriate for collaborations involving research.

- (a) The Parties acknowledge that the names and marks “International Bank for Reconstruction and Development,” “IBRD,” “International Development Association,” “IDA,” “World Bank,” and all variations thereof including their associated logos (collectively, the “Bank Name”) and “International Federation of Surveyors,” “FIG“ and all variations thereof including their associated logo(s) (collectively, the “FIG Name”<sup>2</sup>) are the sole and exclusive properties of the Bank and FIG, respectively. Neither Party shall acquire any right, title or interest in the other Party’s Name under this Memorandum.
- (b) The Parties acknowledge that any and all uses by one Party of the other Party’s Name shall inure solely to the benefit of the other Party. The Parties understand and agree that neither Party may use the other Party’s Name in any manner whatsoever that conveys or suggests, directly or indirectly, endorsement or support of the Party or its products or services by the other Party. All uses by one Party of the other Party’s Name in any manner (other than casual or generally accepted uses) shall be subject to the written approval of the other Party (including electronic correspondence). Upon termination of this Memorandum, or at the request of either Party at any time, each Party shall immediately discontinue any and all use of the other Party’s Name and shall destroy stationery, brochures, proposed paid media and other similar materials bearing any form of the other Party’s Name that then are in the possession or control of each Party.

**8. Disclosure and Publicity**

- (a) The Bank may disclose to the public this Memorandum and information with respect to activities and projects contemplated herein in accordance with the Bank’s Policy on the Disclosure of Information. FIG may make such disclosure in its internal reporting to its employees, officers and directors, but shall not make any reference to the collaboration in any manner in its advertising of its products or services or in the solicitation of any contracts or other business, whether or not to be financed by the Bank or an affiliate thereof, except as otherwise agreed in writing by the Bank (including electronic correspondence).
- (b) No activity, and no work created by any activity, undertaken in connection with this Memorandum may be used for commercial purposes. FIG may not seek to directly or indirectly benefit commercially from the Bank’s involvement in such activity. However, publications resulting from such collaborative activity and projects may acknowledge the collaboration of the parties; provided the text is jointly formulated by the Parties.
- (b) Any sharing of information between the Parties will be subject to their respective policies and procedures relating to the disclosure of information.
- (c) Confidential information of the one Party shall be handled by the other Party with no lesser standard of care than it would use in handling its own confidential information.
- [(c) *Use when a large component of the collaborative activities relates to research and the public dissemination of information.* Unless the Parties otherwise agree, seminars, workshops, and conferences organized by the Parties pursuant to this Memorandum shall be open to the general public. [ No fees or other costs shall be charged to attendees of such seminars, workshops, and conferences except to cover the actual costs of the organization, preparation and promotion of such seminars, workshops, and conferences].]

**9. Intellectual Property**

The Parties recognize the importance of protecting and respecting intellectual property rights. This Memorandum does not grant on the part of either Party the right to use materials belonging to, or created by, the other Party. The Parties shall agree in writing on the ownership of any intellectual property rights that may arise in any work to be created by the collaborative activities to be

---

2

undertaken pursuant to this Memorandum, at the time of agreeing on the work plan for such activities. In the absence of any such written agreement, any intellectual property rights arising in any work created by the Parties' collaborative activities undertaken pursuant to this Memorandum shall belong to the Bank.

#### **10. Non-Exclusive Relationship**

No relationship exclusive of a third party or parties shall be established between the Parties, whether under this Memorandum generally or with respect to any specific activities or projects undertaken pursuant thereto, unless explicitly agreed to by the Parties under a separate agreement. Neither Party is restricted in any way from engaging a third party or parties to pursue independently of the other Party the objectives described in this Memorandum except that such engagement with a third party or parties shall not conflict or otherwise unduly interfere with the implementation of this Memorandum or any activities or projects undertaken pursuant thereto.

#### **11. Conflict of Interest**<sup>3</sup>

- (a) The Bank's collaboration with FIG on activities under this Memorandum is not intended to confer a special advantage or preference to FIG in competing with any other entity as regards the procurement of goods, works or services by the Bank or third parties, where such procurement results from or has a direct relationship to such activities.
- (b) FIG acknowledges the receipt of the Bank's *Guidelines for Selection and Employment of Consultants by World Bank Borrowers* and the Bank's *Guidelines for Procurement Under IBRD Loans and IDA Credits* (collectively, the "Bank's Guidelines"), which set forth, *inter alia*, Bank policy requiring consultants to strictly avoid conflicts of interest and imposing certain limitations on their subsequent activities to prevent such conflicts from arising. FIG agrees that it will be deemed to be a "consultant" in relation to the activities undertaken pursuant to this Memorandum, as such term is used in the Bank's Guidelines. With respect to any prospective activities undertaken in connection with, or any work related to or arising from the activities under, this Memorandum, FIG agrees to adhere to the limitations imposed by the Bank's conflict of interest policy as set forth in the Bank's Guidelines.
- (c) The Bank agrees to make available any other materials needed or provide further guidance to explain the application of the Bank's conflict of interest policy to FIG and to assist FIG in understanding the limitations that may be imposed.

#### **12. Indemnification and Insurance**

- (a) Each Party shall indemnify, hold and save harmless the other Party, and such other Party's officers, agents, servants, and employees from all suits, claims, demands, and liability of any nature or kind, including, but not limited to, their costs and expenses, arising out of its gross negligence or willful misconduct or that of its officers, employees, agents, or sub-contractors, in the implementation of this Memorandum or any activities or projects undertaken in connection therewith, including, but not limited to, claims from the other Party's employee(s) for damages in excess of damages covered by workers' compensation.
- (b) The obligations under this Section do not lapse upon termination of this Memorandum or agreement under a work plan for any specific activity or project pursuant thereto.

---

<sup>3</sup> This is the latest version of language suggested by the Bank's Procurement Department for MOUs of this type. We are working with the Bank's Procurement lawyers to explore the possibility of including something that is less restrictive and, in any event, more self-explanatory. The Bank's Consultant Guidelines are in the process of being revised and the Bank's Procurement Department has acknowledged that devising appropriate policies for partnerships should be an important part of that revision.

- (c) Throughout the implementation of this Memorandum and any activity or project pursuant thereto, each Party will maintain its usual and customary insurance for its own officers, employees and operations.

**13. Disputes, Controversies and Claims**

- (a) In case of a dispute, controversy, or claim between the Parties arising out of or relating to this Memorandum or an agreement for any activity or project undertaken pursuant thereto, the Parties shall attempt to reach an amicable resolution in good faith.
- (b) In the event an attempt to reach an amicable resolution proves unsuccessful within thirty days after the first Party has formally notified the dispute, controversy, or claim to the other Party in writing, any such dispute, controversy, or claim shall proceed to arbitration to be finally settled in accordance with the then-current UNCITRAL Arbitration Rules. The number of arbitrators shall be three. The appointing authority shall be the Secretary-General of the Permanent Court of Arbitration in The Hague. The language of arbitration shall be English.

**14. Term**

- (a) This Memorandum shall come into force and effect upon signature by both Parties on the date set forth below with an initial term of four years. Unless modified or terminated as provided below, the term of this Memorandum shall be automatically extended at the end of the initial term for another term of four years.
- (b) At the end of the initial term of this Memorandum, a joint assessment by both Parties will be carried out to review the results and lessons learned from their collaborative activities. The views of stakeholders on the nature and progress of activities or projects may be obtained by the Parties in connection therewith. The Parties will discuss and share any conclusions reached which may have a bearing on the Parties' collaboration under this Memorandum. On the basis of such assessment, the Parties may keep in force, modify or terminate this Memorandum as provided for below.

**15. Modification and Termination**

- (a) This Memorandum may be modified or terminated at any time by mutual written agreement of the Parties. Further, the Memorandum may be terminated by either Party at its sole discretion with 60 days prior notice in writing to the other Party.

**16. Miscellaneous**

- (a) The section headings in this Memorandum are for convenience only and are not intended, and shall not be construed, to alter, limit, or enlarge in any way the scope or meaning of the language contained in this Memorandum.
- (b) This Memorandum will supersede any previous intentions or agreements communicated and agreed upon between the Parties in respect of the collaborative activities and projects contemplated herein.
- (c) The person signing this Memorandum on behalf of each Party hereby represents and warrants to the other Party that he or she has the requisite legal power and authority to execute this Memorandum on behalf of the Party and bind the Party to the obligations herein.

In witness whereof, the Parties have caused this Memorandum to become effective as of the day and date written below.

**INTERNATIONAL BANK FOR RECONSTRUCTION  
AND DEVELOPMENT,  
INTERNATIONAL DEVELOPMENT ASSOCIATION**

**INTERNATIONAL FEDERATION OF SURVEYORS**

Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Name: Stig Enemark  
Title: FIG President

Date: \_\_\_\_\_

### **Attachment 1**

#### **Proposed Work Plan (2007-1010) for Collaboration between the Bank and FIG**

##### **1. Conferences, Forums and Meetings**

For all conferences, forums and meetings, wherever possible, both FIG and the Bank will endeavor to provide prominent roles in such events for representatives of each organization to participate, including but not limited to keynote presentations, lead speakers, chairmanship and expert panel membership.

##### **a. May 13-17, 2007, Hong Kong, FIG Working Week**

Bank may participate with keynote speaker and encourage participation from Bank-funded project staff in the East Asia region.

##### **b. November 12-15, 2007, San Jose, Costa Rica, FIG Regional Conference**

The Bank may participate to present and discuss current land administration projects and other initiatives in the region, and encourage participation for Bank-funded staff in the region.

##### **c. June 14-19, 2008, Stockholm, Sweden, FIG Working Week**

The Bank may participate to present and discuss current projects and initiatives.

##### **d. October/November 2008, Washington D.C. or another date as agreed by the Parties**

A joint conference will be held in Washington D.C to present the common efforts of the Bank and FIG relation to the MDGs. This should be a high level conference to ensure proper media coverage. The conference may also include the outcome of the project on Good Governance.

##### **e. May 3-8, 2009, Eliat, Israel, FIG Working Week**

Arrangements to be determined and agreed.

##### **f. October/November 2009, FIG Regional Conference**

Arrangements to be determined and agreed.

**g. April 9-16, 2010, Sydney, Australia, FIG Congress**

Arrangements to be determined and agreed.

**h. World Bank Land Thematic Group Annual Workshop (normally November each year)**

FIG representative may participate to present and discuss projects and initiatives.

**2. Collaborative Projects**

**World Bank Land Administration Good Governance Project**

FIG will participate on the steering committee of this project.

**Self-Assessment for Land Administration Capacity**

Bank may test the Self-assessment Framework developed by FIG in collaboration with FAO Land Tenure Service. FIG and FAO have developed a framework (comprising 17 steps) for countries to undertake a self-assessment of land administration capacity. This draft tool has significant potential to assist in the preparation of land administration projects. The Bank may to identify appropriate country projects to test this framework, subject to any Bank operational, policy and financial issues.

**3. Publications**

The Bank and FIG may agree to jointly publish reports and papers relevant to land administration and management policy and best practice for the rural and urban sectors. Each publication will be agreed to on a case by case basis including the content and any requirements for funding the preparation and publication.

**4. Promotion of Land Administration and Management in the Rural and Urban Sectors**

Both the Bank and FIG will collaborate on a case by case mutually agreed basis to promote opportunities and initiatives for the dissemination of knowledge, information and experience in land administration and management using the communications media that each institution may utilize, such as internet and intranet. Where appropriate, FIG may use the FIG website for such purposes, and the Bank may use the web site of its Land Policy and Administration Thematic Group.

**5. Sabbatical Periods at the World Bank**

Where appropriate, FIG may seek opportunities for its representatives to undertake sabbatical periods at the World Bank. Such sabbatical periods would be at the expense of FIG.

wb264660

C:\Documents and Settings\WB264660\My Documents\FIG\WorldBank.MOU\_WB and FIG\_Vers

3.0\_Feb 01 2007.doc

02/01/2007 1:03:00 PM

**FIG Task Force on  
the FIG Response to the UN-HABITAT Agenda on  
the Global Land Tool Network**

**Terms of Reference**

**1. Rationale**

UN-Habitat and FIG confirm the importance of the Global Land Tool Network and the mutual interest in contributing to the further development of the network by land surveyor's expertise and experience.

For this purpose FIG establishes a Task Force under the FIG Council to safeguard a coordinated communication and response of FIG to UN-Habitat.

The deliveries will take place at the FIG Working Week in Stockholm (June 2008), the World Urban Forum in Nanjing (November 2008), and the FIG Congress in Sydney (April 2010).

**2. Aim of the Task Force**

The aim of the Task Force is to facilitate and coordinate the efforts of FIG to be delivered through its Commissions and their working groups in the fields relevant for the cooperation between FIG and UN-Habitat.

The fields that UN-Habitat and FIG believe are relevant for this cooperation are determined by both GLTN and FIG work plans:

- (a) methods and tools to support the enumeration of the continuum of rights and various spatial units for tenure security,
- (b) methods and tools for citywide spatial planning and slum upgrading,
- (c) methods and tools for improving slum conditions through innovative financing.

UN-Habitat emphasizes to focus on 'tools' rather than on abstract deliverables.

The Task Force aims at the delivery of

- (a) papers and presentations for the WW Stockholm June 2008, and
- (b) one or more comprehensive reports to be presented at during World Urban Forum in Nanjing, November 2008
- (c) high profile session at the FIG Congress in Sydney, April 2010

**3. Composition of the Task Force**

The Task Force will comprise the working groups and/or commission chairs responsible within FIG for the indicated fields of work. This includes Dr. Chryssy Potsiou (Commission 3), Mr Christiaan Lemmen (Commission 7), Dr. Diane Dumashie (Commission 8) and Mr. Bengt Kjellson (Commission 9).

The Task Force will be chaired by FIG Vice-president, Prof. Paul van der Molen.

#### **4. Objectives**

Commission 3 (Dr. Chryssy Potsiou) will work to develop low cost methods and tools for city wide environmental monitoring of unplanned urban developments. This will be based on the outcome the WPLA/FIG workshop on Informal Settlements held in Athens, Greece, March 2007.

Commission 7 (Mr. Christiaan Lemmen, working group 7.1) will work to develop a working prototype of the social tenure domain model, testing procedures against the continuum of rights and various spatial units, and the applicability of various data acquisition tools. Part of this work will include a peer review of the Social Tenure Domain Model and the Concept of Continuum of Rights.

Commission 8 (Dr. Diane Dumashie, working 8.3) will work to develop tools that impact directly on the supply of land in a pluriform legal environment, with participation of traditional leaders, and tools and guidelines for citywide upgrading of informal settlements including provision of public utilities.

Commission 9 (Mr. Bengt Kjellson, working group 9.4) will work to develop tools that bring the financial market and the housing market together for better slum upgrading, such as private investments funds, guarantee funds, fast track loans.

The outcome of this work will be in the form of one or more reports to be presented at the World Urban Forum in Nanjing, November 2008.

Furthermore, Mr. Bengt Kjellson (Commission 9) will also be in charge of organising a joint FIG/UN-Habitat seminar on “Slum Upgrading and Improving of Financial Mechanisms” to be held as an integrated part of the FIG Working week in Stockholm, June 2008. The seminar will include a coordinated input also from Commission 3, 7, and 8.

The final outcome of the Task Force will be presented at a high profile session during the FIG Congress in Sydney 2010.

7 March 2007

## FIG Task Force on Institutional and Organisational Development

### Terms of Reference

#### 1. Background

Land administration systems are concerned with the social, legal, economic and technical framework within which land managers and administrators must operate<sup>1</sup>. These systems support efficient land markets and are, at the same time, concerned with the administration of land as a natural resource to ensure its sustainable development. However, in many developing and transition countries, there is a lack of institutional and organisational capacity to undertake land administration action activities in an adequate and sustainable way. Some of this may flow from institutional and organisational structures and remits; other parts may flow from inappropriate systems that the organisations are required to administer. These latter elements also need consideration in determining appropriate frameworks for sustainability.

A key component of capacity building is therefore to ensure that a country's organisations are sufficiently robust to develop, enable and ensure the effective operation of surveying and land administration activities. The relevant organisations include the professional surveying associations (the FIG member associations) and private surveying companies, as well as government agencies such as the mapping organisations, hydrographic survey organisations and the organisations with land registration and land administration responsibilities. Given the pivotal role of secure ownership of and access to land in underpinning nation building and economic development, it is vital that appropriate, sustainable structures are in place. Capacity building and development are required to ensure this in many countries.

#### 2. What the Task Force can contribute

Different countries have different levels of development of land registration, administration and management systems. The surveying and mapping profession therefore needs to develop appropriate, contextualised and practical approaches. Within this general approach, the key questions that the Task Force will need to address, for each type of organisation (professional survey associations, private sector firms, public sector bodies) include:

- Where are the key barriers to effectively functioning institutions and organisations? (These blockages could be systemic, financial, skills-based, structural,...)
- Who are the key influencers who can help to remove the barriers?
- What key materials are needed to remove the barriers?
- Which types of organisation are most affected and therefore most in need of the Task Force's early attention?

From analysis of the answers to these questions, the Task Force will be able to develop and refine its work programme, including the most appropriate types of outputs. These outputs will be developed to meet the needs identified by the Task Force, and to dovetail with other

---

<sup>1</sup> Land here is used in a broad sense, including the necessary activities to survey waterways and oceans, recognising the key role that such features play in sustainable development

related work. Without prejudging the development of the work programme, possible activities and outputs include:

- Running workshops to assist managers to determine the key challenges in the development of their organisations to meet national needs, and to give them the tools and confidence to respond to those challenges;
- Creating best practice guides on, for instance: implementing organisational development; managing technical change; sourcing funding for investment; and effectively creating networks across and between relevant organisations;
- Making links between those who are willing and able to travel to developing countries to support their organisations in their development activity, the developing country's organisations, and possible sources of funding.

FIG is well-placed to play a key role, given that it brings together leading professionals from every continent and has already completed a range of work impacting organisational and institutional development. This includes publications on constituting professional associations (Number 16), as well as work on land administration, including the Bathurst Declaration (Number 13). The Task Force will bring together a number of key individuals, supported by links within and beyond FIG, to give a focus to the key task of institutional and organisational development to allow the effective management and administration of land. The Task Force will therefore deliver, by 2010, key components in the 2007-2010 FIG theme of 'Building the Capacity'.

### **3. Work of the Task Force**

The Task Force's activity is likely to encompass a number of phases. These are set out in brief below, but this plan will be further developed as the Task Force begins and continues its work.

#### (1) Assess needs

This phase is likely to involve the members of the Task Force using their own experience to draft a 'requirements catalogue' which will then, during events such as the FIG Working Week 2007 and the Cambridge Conference (to be held in July 2007), be tested on relevant experts and organisations and subsequently adjusted.

#### (2) Determine how best to meet the needs

In the period from mid-2007 to the FIG Working Week in 2008, the Task Force is likely to focus on creating a prioritised response to the agreed needs in the different types of organisation. This may include:

- guidance material on good practice
- workshops
- direct support mechanisms

The Task Force will also determine the practicality of delivering the responses, and how time and funding might be made available. All of this work will be collated into a mid-term report to the 2008 FIG Working Week, by which stage it should have been exposed to comment by experts identified during Phase 1.

### (3) Deliver the required outputs

The period 2008-2010 will focus on delivering the agreed, required outputs from the Task Force, using the members of the Task Force and other experts identified during Phases 1 and 2.

### (4) Produce a final report

The Task Force will prepare a final report for the FIG Congress 2010. This will include a formal report to the General Assembly, as well as a consolidated version of all relevant material created in Phases 1, 2 and 3.

## **4. Key linkages**

FIG has a wide range of links on which the Task Force could usefully draw. Additional linkages will be provided through members of the Task Force. Links are likely to include:

- World Bank – coordinating with FIG’s efforts to build closer links with the World Bank, and recognising that a key requirement of many of the Bank’s projects is for there to be stable and sustainable institutions;
- UN Agencies – FIG has strong links with many UN Agencies, and their work will also be supported by the presence of strong institutions in developing countries. They may therefore be able and willing to provide a range of support to the Task Force;
- GSDI Association – the Association has discussed the issue of organisational and institutional development in recent meetings (including at its Chile meeting in November 2006), and is currently exploring the possibility of developing a portal which will include a knowledge database, a commitment database and an equipment database. The best links between the GSDI and FIG work will need to be discussed and agreed;
- EuroGeographics – this is the association of European National Mapping and Cadastral Agencies. They will be willing to offer support, for example in expertise, to facilitate the building of strong peer organisations, particularly in Eastern Europe and some parts of Asia;
- Cambridge Conference – this quadrennial event began in 1928 as the Empire Survey Officers’ Conference. It has over the decades evolved into a conference of heads of national mapping agencies, brought together at St John’s College, Cambridge. It therefore provides a very appropriate gathering at which to highlight the work of the Task Force, and to test its developing work;
- International Hydrographic Organisation (IHO) – the Organisation has a worldwide remit and therefore contributes significantly in the development of national hydrographic organisations. FIG and IHO have a joint International Advisory Board, along with ICA.

Appropriate links will also be developed with regional bodies.

Internally, the Task Force can gain by working with FIG’s Commissions, particularly:

- Commission 1 (management and ethics are part of its portfolio)
- Commission 2 (provision of the necessary professional training and support)
- Commission 3 (national mapping agencies form one of the cores of the commission)
- Commission 4 (hydrographic agencies are relevant to the work of the Task Force)

- Commission 7 (cadastral agencies are a vital underpinning to much of the commission's work) – including the proposed Working Group 7.2 to consider the creation of an FIG humanitarian arm, Surveyors without Frontiers

Commissions 8, 9 and 10 are also pertinent to the Task Force, and appropriate links will be maintained with them.

#### **4. Task Force membership**

The Task Force will operate with a core membership, which will be complemented by a wider group, which will provide support as it is able, and review the developing work of the Task Force. The wider support group will be assembled during the early Phases of the Task Force, and is likely to include people drawn from the relevant bodies highlighted in section 3 above.

The core membership of the Task Force will be as follows:

Iain Greenway (UK) – Chair	Chief Executive of a National Mapping Agency
Santiago Borrero Mutis (Colombia)	Secretary General, Instituto Panamericano de Geografía e Historia (IPGH), with significant experience as a senior manager in surveying organisations in developing countries; a former chair and current Board member of the GSDI Association
Adam Greenland (New Zealand)	Senior hydrographic manager in a national mapping/ cadastral/ hydrographic Agency; ex-Chair of Commission 4
Teo Chee Hai (Malaysia)	Past President, the Institution of Surveyors Malaysia; Past Secretary General, ASEAN Federation of Land Surveying and Geomatics. Chartered & Licensed Surveyor
John Parker (Australia)	Former Surveyor General; ex-Chair of Commission 1
Richard Wonnacott (South Africa)	Senior manager of a mapping Agency

Additional members will be appointed as necessary.

#### **5. Task Force working arrangements**

The Task Force will meet whenever a critical mass of members is present at the same event. This will include FIG Working Weeks, and some of the other events highlighted in Section 3. The Task Force's workplan will be developed (during the first half of 2007) in such a way that the bulk of the work can proceed via email or teleconferences, probably with sub-groups of the members working on different elements. It is recognised that all members of the Task Force are volunteers, doing the work in addition to their other paid and unpaid duties. The volume, pace and sharing of the Task Force's work will reflect the other priorities that members have.

Iain Greenway  
Chair  
28 February 2007

**COOPERATION AGREEMENT  
BETWEEN  
THE INSTITUTE OF NAVIGATION (ION)  
AND  
THE INTERNATIONAL FEDERATION OF SURVEYORS  
(FIG)**

## **1. Background**

The International Federation of Surveyors (Fédération Internationale des Géomètres, hereinafter referred to as FIG) and the Institute of Navigation (hereinafter referred to as ION) both recognize that each is an organization with many complementary activities serving similar professional constituencies involving research, development and education into varied aspects related to navigation, surveying, and positioning techniques.

FIG specializes in technical and professional areas, such as positioning and measurement, engineering surveys, hydrography, geographic information systems, infrastructure development, land and environmental planning, development and management, property valuation, and construction economics and procurement. FIG Commission 5 on Positioning and Measurement is the most closely aligned to the work of ION.

ION specializes in scientific, technical and professional areas, such as positioning, navigation, guidance, advanced space technology, such as Global Navigation Satellite System (GNSS). ION is dedicated to the advancement of the art and science of navigation and serves a diverse community including those interested in air, space, marine, land navigation, and position determination. Although basically a national organization, ION's international membership, areas and scope of activities makes it a significant organization on the international scene. ION is affiliated with the International Association of Institutes of Navigation.

## **2. Objective and scope of this Cooperation Agreement**

The objective of this Cooperation Agreement (CA) is to provide an effective framework for a continuing liaison between the two organizations, for maintaining and increasing the opportunities of technical exchange between their members through a continuing program of cooperation, leading to mutual sharing of knowledge and expertise to the advantage of the membership of both organizations.

The motivation behind these collaborative efforts is the existing substantial overlap in the membership and the research and professional goals and objectives between ION and FIG, and the potential benefits that may include:

- Cross-advertising of professional meetings and regular information exchange
- Jointly sponsored meetings or sessions at professional meetings
- Joint professional workshops, schools and seminars
- Growth of the organizations' memberships and increased professional visibility.

### **3. Program of Activities**

In accordance with the background, objectives and purpose, as described above, both organizations agree to endeavor to establish and promote their cooperation for mutual benefit. The proposed activities will include, but are not limited to the following steps:

1. Regular contact should be established between both organizations and their elected leaderships to institute and maintain continuing liaison between the two organisations. Both FIG and ION should appoint contact persons to ensure such liaison. The focal point in FIG for this cooperation is Commission 5.
2. The organizations should inform each other about the structure of the established active entities, such as Commissions, Working Groups, Task Forces, Projects, etc., and invite representation from the other organization to each of these entities, where it is agreed that it would be appropriate and sensible.
3. The themes of mutual interests identified at the moment are:
  - Reference frames and observing systems
  - Positioning, measurements and applications
  - Navigation and tracking
  - Geoid determination and height systems
  - Sensors and platforms
  - Hydrographic surveying, marine geodesy
  - Systems for data processing, analysis and representation
  - Special applications of geodesy to engineering
  - Theory and algorithms
  - Education and training
  - Cooperation with other international organizations such as the United Nations (UN) and International Organization for Standardization (ISO)
  - Contributing to multi-disciplinary research and advisory teams
4. The program of proposed schools, seminars, workshops, etc. should be communicated to the other organization to enable consideration as to whether joint participation would be of mutual benefit. Final announcement of such events should be communicated to the members of both organizations either by e-mail or via a posting on the organization's web site.
5. Both organizations should investigate possibilities to organize specialized joint seminars or workshops to serve broader professional communities.
6. Decision on joint or co-sponsored activities will be made by the ION and FIG Councils upon receiving favorable recommendations from the appropriate operational Office Bearers in ION and FIG.
7. Each organization should invite a representative from the other organization to attend their primary professional event (i.e., Congress, General Assembly, etc.).

8. If it is agreed that it would be appropriate and sensible, each organization should consider inviting a representative from the other organization to become a member (representative) of the appropriate bodies of each organization.

#### **4. Financial Commitment**

Recognizing that both ION and FIG are non-profit organizations, participation at jointly organized events or events organized either by ION or FIG should be funded by their respective organizations or from the budget of the event as agreed.

It is understood that neither organization can commit the other to any expenditure, save that from administering this agreement, without the specific written agreement of both organizations.

#### **5. Intellectual Property Rights and Legal Status**

Intellectual property rights, in particular copyright, of material such as information, software and designs, made available by ION and FIG to be used to carry out the activities under this CA shall remain with the originating party. Appropriate grants for use of such materials will be further described as specific activities and projects under this CA are formalized.

Copyright of the information, as well as rights to any other intellectual property, developed jointly by ION and FIG shall be jointly vested in both parties. Each organization shall have full rights to exploit such jointly owned works after informing the other organization without the need of approval of the other.

This Cooperation Agreement does not create any legal link between the two organizations, who will remain mutually independent entities.

This Cooperation Agreement is valid until ION or FIG proposes changes to it. Each organization has the right to propose changes to this Cooperation Agreement at any time. Any changes shall be subject to the agreement of both organizations.

Neither ION nor FIG will make any agreements with associations, which may conflict or compete with this Cooperation Agreement before giving advance notice and securing the agreement of the other organization.

On behalf of ION



Jim Doherty  
President of ION

On behalf of FIG



Prof. Stig Enemark  
President of FIG

## Changes to Statutes and Internal Rules

### Statutes

#### Current:

§ 5.5 The term of office for all elected members of the Council is four years. 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 the preceding General Assembly.

#### New:

§ 5.5 The term of office for all elected members of the Council is four years. 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.*

#### Current:

§ 6.3 The powers of the General Assembly are  
- - -  
3. to elect members and to confirm appointments to the Council and to approve the responsibilities delegated to each of its members

#### New:

§ 6.3 The powers of the General Assembly are  
- - -  
3. to elect members and to confirm appointments to the Council. [*deleted*]

### Internal Rules

#### Current:

§ 9.4 The General Assembly shall establish a Nominations Review Group (NRG) on the recommendation of the Council. The NRG shall normally consist of three to five persons with considerable experience of the Federation and take into account the geographical representation. It shall be chaired by the immediate past president. Its members shall hold office for four calendar years, starting in the year following the Congress. A member of the current Council cannot be a member of the NRG. If any member of the NRG is unable to complete his or her period of office, a replacement

shall be appointed by the Council and ratification of that appointment sought from next meeting of the General Assembly.

New:

§ 9.4 [Deleted]

Current:

§ 9.5 The Council shall promulgate guidance notes for the NRG requiring it, inter alia, to review the nominations for president and vice-presidents and, in making its selection, to consider the candidates' qualifications and ensure a balanced distribution of candidates as between different geographical regions and different surveying disciplines. The recommendation of the NRG, together with relevant information on the candidates, shall be circulated to members with the agenda and papers for the General Assembly which will be voting on the recommendation. If a nominee of a member association is not included in the recommendation of the NRG that member association has to reconfirm that its candidate remains a nominee and for which post(s) before or at the General Assembly.

New:

§ 9.5 *The Council shall prepare a template document specifying the background information required from each candidate for any open post on the Council. This document shall be available on the FIG website. Additional information may be provided at the discretion of the candidate and member association. All nominations must be accompanied by a letter from the candidate consenting to the nomination together with a completed template document.*

Current:

§ 9.6 If the recommendation of the NRG is not adopted as a package the General Assembly shall be invited to vote for each candidate. The first vote shall be between all candidates, including the one proposed by the NRG, for the post in question. If no single candidate for that post gains an absolute majority of the votes cast, a second vote will be held between the three candidates that have the most votes. If there is no absolute majority a final vote will take place between the two candidates that have gained the largest number of votes in the second round. In the event of a tie on that vote, the President shall order a ballot.

New:

§ 9.6 *The General Assembly shall vote for each candidate of their choice. The first vote shall be between all candidates for the post in question. If no single candidate for that post gains an absolute majority of the votes cast, a second vote will be held between the three candidates that have the most votes. If there is no absolute majority a final vote will take place between the two candidates that have gained the*

*largest number of votes in the second round. In the event of a tie on that vote, the successful candidate shall be decided by the drawing of lots by the President.*

Current:

§ 11.8 The appointment of chair-elect shall be decided by a vote of the General Assembly at the meeting which takes place two years prior to the meeting at which chairs are appointed. In the case of each commission nominations may be made either by the chair on behalf of the commission or by member associations. The nominations shall be called for at least six months in advance of the General Assembly at which the appointments are to be made to enable the Council to ensure that the nominees command the support of their member associations and the relevant commissions. In the event of no nomination being received for the chair elect of a particular commission, the Council shall take such action as may be needed to ensure that the position is filled.

New:

§ 11.8 The appointment of chair-elect shall be decided by a vote of the General Assembly at the meeting which takes place two years prior to the *General Assembly at which chairs are elected*. In the case of each commission nominations may be made either by the chair on behalf of the commission or by member associations. The nominations shall be called for at least six months in advance of the General Assembly at which the appointments are to be made to enable the Council to ensure that the nominees command the support of their member associations and the relevant commissions.

*The Council shall prepare a template document specifying the background information required from each candidate for chair or chair-elect. This document shall be available on the FIG website. Additional information may be provided at the discretion of the candidate and member association. All nominations must be accompanied by a letter from the candidate consenting to the nomination together with a completed template document.*

In the event of no nomination being received for the chair elect of a particular commission, the Council shall take such action as may be needed to ensure that the position is filled.

Current:

§ 11.9 All nominations received for the post of chair-elect will be considered by the Commission Review Group (CRG). The CRG will consist of the Nomination Review Group supplemented by three members appointed by ACCO. The CRG will submit via the Council to the General Assembly a balanced portfolio of candidates for consideration, and where necessary identify where a vote may be required to select between candidates. Independently the Council will advise the General Assembly which Commissions should coordinate specific Inter-Commission activities.

New:

§ 11.9 [Deleted]

### **Additional Changes**

List of Responsibilities of the Council Members to be removed from the statutes and internal rules and replaced with a list of responsibilities in the FIG Work Plan, which is a subject to the General Assembly anyhow.



**CONSIGLIO NAZIONALE GEOMETRI'S  
APPLICATION TO HOST  
THE FIG WORKING WEEK 2012**

**CONTENTS:**

1. WELCOME LETTER
2. LETTERS OF INVITATION
3. INTRODUCTION
4. WHY ROME
5. PROPOSED CONFERENCE VENUES
6. SUGGESTED PROGRAMME OF FIG WORKING WEEK 2012
7. HOTELS
8. TRANSPORTATION
9. SUGGESTIONS FOR ACCOMPANYING PERSONS PROGRAMME
10. SUGGESTIONS FOR EXCURSIONS IN THE SURROUNDINGS OF ROME
11. THE SUGGESTED PRELIMINARY BUDGET FOR THE FIG WORKING WEEK  
2012 IN ROME

*Please consider that all the contents can be discussed and modified.*

**PEOPLE IN CHARGE OF THE BID:**



Piero Panunzi  
President  
Via Barberini, 68 00187 Roma  
Tel: +39 06 4203161  
Fax: +39 06 4814026  
E-mail: [presidenza@cng.it](mailto:presidenza@cng.it)

The Board of the Consiglio Nazionale Geometri  
Via Barberini, 68  
Tel: +39 06 4203161  
Fax: +39 06 48912336  
E-mail: [cng@cng.it](mailto:cng@cng.it)

**LETTERS OF INVITATION AND SUPPORT PROVIDED BY:**

NATIONAL GOVERNMENT

THE CITY OF ROME

LOCAL GOVERNMENT

NATIONAL ORGANISATIONS

## INTRODUCTION:

### THE CONSIGLIO NAZIONALE GEOMETRI

The Consiglio Nazionale Geometri (CNG) was established in 1929. It is a Body that represents, at national level, the category of the surveyors free professional men. The first regulative source that gave to CNG an organic order was the D.lgs. lgt. n. 328 of 23<sup>rd</sup> November 1944. This law regulates the functions between CNG – as national representative Body – and the single Provincial Colleges of the Surveyors – as local professional Bodies. In particular, the law mentioned above concerns the sectors of registration of surveyors, of disciplinary power and of electoral matter.

The operative ambit of CNG concerns both the instrumental aspects of the professional practice (for example the field of the professional code of conduct, of quality and education) and the specific technical activities (for example cadastre, topography, real estate, building and town planning).

In fact, CNG has established several Study Commissions, each of them regards to a precise sector: Agriculture, Cadastre-Topography, Competence, Building, Education-Data Processing System-Civil Protection, International, Revenue-Rate, Real Estate-Expert Activity-Quality, Territory-Environment-Urban Planning, Learning).

CNG has also established a Political Commission that has the task to entertain relationship with local and national political Bodies, and a Press Commission for the external communication.

CNG Institutional tasks are:

- The function of special judge within disputes between surveyors concerning the disciplinary actions, registration and striking off the roll and electoral contentious;
- The representation and the safeguarding of surveyors' free professional men interests, professional improvement, education and quality.

Moreover, CNG Members express opinions on all the matters concerning the practice of the profession both towards the administrative authorities and, when requested, towards the legislatives bodies. It is the holder of the right to privacy with regard to the category's image as the exponential body of the profession.

The Consiglio Nazionale Geometri is a public, juridical non economic body and it is established under the Ministry of Justice. It is composed by a collective and elective body of 11 members in office for 3 years. For the carrying out of the administrative activities, it makes use of an internal operative structure constituted by the staff which supports and realizes the policy within the matter where the CNG operative ambit is fulfilled. It guarantees cadastral and data processing services to all free professional and registered surveyors. It works also through the "Fondazione Geometri Italiani", which publishes the periodical about surveyors entitled "Geocentro".

Membership includes:

- Free professional surveyors who carry out activities in the following fields:
- Building-Safety-Public works;
- Cadastre-Topography;
- Real Estate;
- Territory-Environment-Town planning;
- Agriculture.

As indicated above the CNG produces regular updates on national dailies having an economical and professional profile and it updates also the quality and the education both towards costumers and providers. The Institute also has an interactive website which can be accessed by members of the Institute and non members. This can be accessed at [www.cng.it](http://www.cng.it).

## DURATION & TIMING

The FIG Working Week of 2012 is proposed to take place in spring. During this period of the year, in april-may, the days in Rome are long and warm. The average temperature in april-may is around 25 degrees.

## WHY ROME



**Rome** : Trajan's Forum and Column

The **founding of Rome** is enveloped in myth: the story goes that the first city center sprang up in 753 B.C. on the Palatine hill, built by Romulus after he had killed his twin brother Remus.

Romulus was the first of the **seven kings of Rome**, who started off the basic characteristics of this city that would go on to make Rome powerful throughout the ancient world: public works, institutional reforms, aqueducts.

With the arrival of the Republic, Rome increased its expansion policy and after the **Punic Wars**, Carthage, Corsica and Sardinia were all annexed to the Republic.

The end of the Republic determined the beginning of Silla's dictatorship (82 B.C.)

The dictator Caius Julius Caesar oversaw a period of heavy expansion overseas. He was assassinated in 44 B.C.

The Emperor **Octavius Augustus** brought Rome to its "golden era": a lengthy period of peace and stability, which was celebrated with monumental [works of art](#).

Many emperors came after him, each of whom was famous for some work, conquest or edict. Under **Traianus**, the empire enjoyed its period of maximum expansion and reached as far as ruling land that stretched from the Danube to the Nile.

With the passing of the years, the city became increasingly Christian, while the empire fell into a fatal period of difficulty. The Pope became more and more powerful, building the grounds for the birth of the **Holy Roman Empire** (800 A.D.), which gave rise to the coronation of Charlemagne by the Pope.

The Church's power continued to increase and Rome became the representation of this power on earth. Between 1300 and 1600, many [churches](#) were built, beautifully painted with frescoes by Renaissance artists such as Raffaello and Michelangelo. Crowds of pilgrims flocked to the Eternal City from all over the world to admire its [Baroque squares](#), its fountains and its monumental basilicas.

After the patriotic unrest that started in 1848 and which was headed by **Garibaldi**, a plebiscite approved the annexing of Rome to the **Kingdom of Italy** in 1870, which set up its official center in the city soon after.

Starting from 1920, Rome was shaken by the terrible rise to power of Fascism that culminated in the pact made between the Italian Government and Nazi Germany. After Italy was liberated by the Allies during the Second World War, a referendum held on June 2<sup>nd</sup> 1946 sanctioned the end of the monarchy and the beginning of the **Republic**.



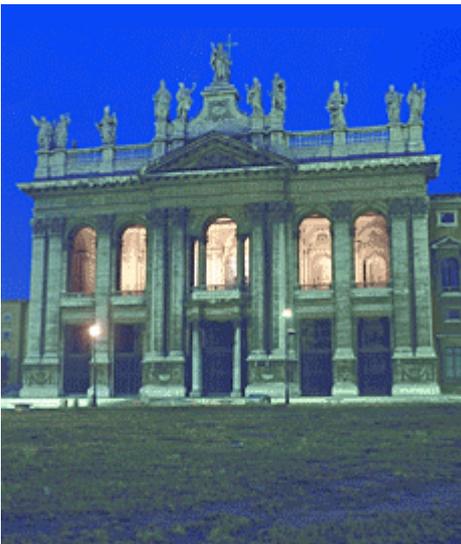
**Rome:** Coliseum

The greatest historical architecture from the Roman Empire:

- **Coliseum** – This is the most ancient monument from ancient Rome. Its building began in 75 A.D. and was opened in 80 A.D., an opening celebrated with a full day of bloody games during which, according to legend, five thousand animals were killed. This was a gruesome leisure activity for the ancient Romans: prisoners condemned to death were torn to pieces by ferocious beasts, animals were killed by archers and there were fights to the death between “professional” gladiators. The surface area of the Coliseum, which totals about 19,000 square meters, was arranged into four sections, each of which could hold up to 70,000 spectators. The Emperor’s box was placed in the center from where he could decide the gladiators’ fate with a simple hand gesture. The underground area of the Coliseum was used to organize and create the settings for the games, such as how to make the ferocious beasts appear unexpectedly in the arena, bringing them up to the main area with an elevator hoist that was hidden in the sand. In 438, the games were prohibited and the Coliseum was gradually abandoned.
- **Roman Forum** - The Roman Forum was built in the 6th century B.C. on marshland that was drained by the creation of a sewer and drainage network. It rapidly became the center of social and political life in Ancient Rome, and new palaces, statues, temples and courts were added to the area century after century. From Via Salaria (parallel to Via dei Fori Imperiali) it is possible to enter this amazing archeological site, which is almost a city within a city.
- **Circus Maximus** – This enormous structure was used for entertainment events such as the gripping chariot races that were a huge favorite of the Roman people. The area could hold up to 230,000 spectators and is one of the oldest areas in Rome.
- **Domus Aurea** – This structure was built on the ashes of a terrible fire that destroyed a large part of Rome in 64 A.D. Domus Aurea was built on the wishes of Nero, who was also probably responsible for the fire. During one of his famous ravings of omnipotence, the

prince wanted a more majestic Rome with his enormous, new residence as the center of this newly-styled city. Inside this new palace there were buildings, gardens and a lake called "Stagnum Neronis". The palace was disproportionately large, but was in perfect harmony with the 35-meter high bronze statue of the prince that was sculpted and placed at the entrance to the Domus Aurea. The Domus Aurea has recently been opened to the public after years of restoration work.

- **Pantheon** – This is one of the best-preserved buildings that date back to ancient Rome. This building dates back to 27 B.C., but was partly destroyed and then rebuilt between 118 and 125 A.D. It later became a Christian place of worship where the tombs of Raffaello, Vittorio Emanuele II, Umberto I are still kept, The huge dome and the fine marble decorations inside the Pantheon are worthy of note.
- **Castel Sant'Angelo** – The original building, dating back to 123 A.D., was very different from the one that stands on the site today. Around 1200, Castel Sant'Angelo became the property of the Vatican and a sort of fortified corridor was built to connect the building with the Vatican Palaces.
- **Catacombs** – The catacombs were the places where the early Christians celebrated funerals and where they were buried when they died. The catacombs, the oldest of which dates back to the 2nd century, were built outside the city walls.
- **Terme di Caracalla** – These were the most luxurious and sophisticated thermal spa baths in ancient Rome. They were built using the finest marble and had a sophisticated plumbing system that supplied the baths with hot water. It is still possible to imagine the original splendor of this place when we visit what is left of the site today.



Rome : San Giovanni in Laterano

The most spectacular churches in the Eternal City:

- **St. Peter's Basilica** – A huge sanctuary of Christian religion. Its façade is 45 meters high, and its enormous dome is 136 meters. St. Peter's Basilica, the largest church in the world, overlooks the square that carries the same name that was designed by Bernini and which is surrounded by a colonnade. Grandeur and majesty: this is the sensation that one gets walking up Via della Conciliazione towards Piazza San Pietro. One of the most important works of art inside is the "Pietà" sculpture by Michelangelo, that was created between 1498 and 1500.
- **The Sistine Chapel** – This chapel owes its name to Sixtus IV, the Pope who commissioned the building of the chapel at the end of the 14<sup>th</sup> century. The Chapel was decorated by

famous 15<sup>th</sup> century painters such as Botticelli and il Ghirlandaio. Later, in the 16<sup>th</sup> century, Michelangelo was called upon to paint all the frescoes on the chapel's vaulted ceiling: about 1000 square meters. He painted frescoes representing stories from the Bible such as the amazing Universal Judgment, which caused a scandal because of the nudity of about four hundred people in it, and the Creation of Mankind.

- **San Giovanni in Laterano** – This is the Cathedral of Rome, the most important church after St. Peter's. The first church was built in 314, when the Emperor Constantine gave the land to the Pope. The current building complex is made up of the Church, the Baptistery, Palazzo Lateranense, the Scala Santa and the Hospital of San Giovanni.
- **San Paolo fuori le mura** – This church is in Via Ostiense and was founded in 330. It was only finished, however, in the 5th century. The Church was built on the wishes of Constantine, who wished to commemorate the Deacon Lorenzo, who became a martyr together with Pope Sixtus II in the middle of the 3<sup>rd</sup> century, with a magnificent tomb.
- **Santa Maria Maggiore** – This church stands on the Esquilino hill and is the first Roman church to be named after the Holy Virgin. Its bell tower is the highest in Rome. There is a story that this was the site where fragments of wood from Jesus' crib were kept. For this reason, the church was called Santa Maria ad Praesepe for a certain period of time.



Rome: Piazza Navona

All the city's squares to admire:

- **Piazza di Spagna** – This is maybe the most charming square in the city. Its unique shape, that narrows in the middle, reminds us of a butterfly. The square's name comes from the fact that the Spanish Embassy stood in the square in the 17th century. The square is permanently full of tourists and as far back as 1600 it was the favorite place for visitors to Rome from all over the world. The steps that connect the Church of Trinità dei Monti to Piazza di Spagna are amazing, a mixture of curves, straight line and terraces, where it is possible to see the house of poets such as Keats and Shelley (Keats-Shelley Memorial, info: 066784235).
- **Piazza Navona** – This is a truly wonderful square to see. It has an unusual, elongated oval shape that is the same as that of the ancient Domiziano Stadium over which the square was built. The predominating style is Baroque and there are so many monuments and buildings to admire such as the Fontana dei Fiumi by Bernini, which is the base of the Egyptian obelisk in the center; Palazzo Pamphili and Fontana del Moro.
- **Piazza Venezia** – This square was named in honor of the Republic of Venice that opened up its embassy in this very square. Piazza Venezia was unfortunately made famous when it

became the stage for Mussolini's speeches that he pronounced from the balcony of Palazzo Venezia, an imposing building that dates back to the second half of the 15th century. The Vittoriano, dedicated to Vittorio Emanuele II, is another important building.

- **Piazza del Popolo** – This square is located at the top of the triangle that is formed by three long streets: the central one is the famous Via del Corso. At the center of the square there is an obelisk that was brought to Rome by the Emperor Augustus after he conquered Egypt. The magnificent Porta del Popolo has two identical neoclassical buildings on each side of it.
- **Campidoglio** – This hill next to Piazza Venezia has been a seat of government since ancient times: religious ceremonies and political discussions took place in the Temple of Jupiter on the Capitol Hill. Today the Rome City Council meets in Palazzo Senatorio, a wonderful example of Renaissance architecture. The square, which is dominated by the Capitoline Museum, and the "Cordonata" staircase were both designed by Michelangelo in the 16th century.

The fountains, everlasting works of art:

- **Trevi Fountain** – The most majestic in Rome, and the most famous throughout the world. The Trevi Fountain dominates a small square in the heart of Rome and entered everyone's imagination thanks to the nighttime bathing scene with Anita Ekberg in the film "La Dolce Vita" by Fellini. This huge Baroque construction, inspired by sea mythology, took 30 years to build, starting in 1732, and was started by Niccolò Salvi who did not live to see the completion of his work. Legend says that anyone who throws a coin into the fountain will return to the Eternal City.
- **Fontana del Tritone** – Built by Bernini, this fountain is in Piazza Barberini and was commissioned by the Barberini family in 1642. The fountain shows Triton who is blowing into a shell while four dolphins hold him up.
- **Fontana della Barcaccia** – This fountain is in Piazza di Spagna, at the foot of the Spanish Steps (*Scalinata di Trinità dei Monti*) and was built in 1629 by Bernini. The structure is reminiscent of a boat sunk by water, in remembrance of the Tiber flood that hit Rome in 1598.
- **Fontana dei Fiumi** – This fountain is in the center of Piazza Navona. It was designed by Bernini for Pope Innocent X. One of the many obelisks that can be seen in Rome has been placed on top of the fountain. The four giants sculpted around the fountain base represent four rivers: the Ganges, the Danube, the Nile and Rio della Plata.



Rome: Palazzo Montecitorio

The magnificent Palaces of the Republic that were once the residences of Popes and kings:

- **Palazzo del Quirinale** – This has been the President of the Republic’s residence since 1948. In the past it was used as the summer residence for Popes who had the Cappella Paolina and the Cappella dell'Annunziata chapels built inside it. In 1871, it became the residence of the Savoia dynasty and it was completely renovated. The East wing of the Palace was called the Sabauda Wing. The palace’s wonderful outdoor gardens that lie on four hectares of land are full of tree-lined avenues, fountains and rare plants.
- **Palazzo Montecitorio** - Around 1600, Pope Innocent X commissioned the project for this palace by Bernini. It then became the courts of Rome and since 1870 it has been the Lower House of Parliament. Inside the building there are several antique and modern works of art.
- **Palazzo Chigi** – This palace was bought by the Chigi family, an aristocratic, Roman family, in 1659, and it was furnished with their private collection of furniture and works of art that can still be seen in its rooms. At the beginning of the 20th century the palace was sold to the Italian State and it has been the seat of the Council of Ministers since 1961.
- **Palazzo Madama** – This palace dates back to the 15th century. It was turned into a luxurious residence by Pope Leo X, who belonged to the powerful De Medici family. The palace still contains a huge library and several works of art. It became the House of the Italian Senate in 1871.

The wonderful Villas and luxuriant gardens in Rome, magical places for romantic walks:

- **Villa Borghese** – This is the largest public park and the favorite of the Roman people. This park covers eighty hectares and contains buildings, sculptures, fountains and one of the most interesting collections of all, the one inside Galleria Borghese, which was recently reopened to the public. Villa Borghese was built around 1600 following the wishes of Cardinal Scipione Borghese, who bought the land surrounding the first central part, which already belonged to the Borghese family. At the end of the 18th century, the park was enriched even further by the building of the “Giardino del Lago”: a small island with luxuriant vegetation on which a temple was built.
- **Villa Pamphilj** – Due to its position and the particularly favorable climate in this area, this park was named "Villa Belrespiro". This wonderful villa was first built in 1644 on a huge piece of land just outside the center of Rome. Now those beautiful gardens, full of animated fountains are just a memory: around 1800 a large part of the park was transformed into an English-style garden. Today you can walk along the long pine tree-lined avenues, and can see the wonderful woodland.
- **Pincio** – This garden stretches out above Piazza del Popolo: from Piazzale Napoleone one has a wonderful panoramic view of the city. The Pincio gardens already existed in ancient Rome, but were redesigned in the 19th century into their current form: wide avenues lined with pine and oak trees and several marble busts of famous personalities from Roman history. The Egyptian obelisk, the old water clock and the Casina Valadier, a famous old restaurant that has recently been restored and where it is possible to taste refined Italian cuisine, are all interesting sites to see.
- **Gianicolo** - Passeggiata del Gianicolo is very romantic and charming and a perfect place from where to admire Rome from above: in fact, the Gianicolo hill is 88 meters high. The walk begins at the Fontana dell'Acqua Paola and goes right across the Gianicolo as far as Piazza Garibaldi. From here it is possible to see the entire city and every day at noon a cannon fires a blank shot that echoes all over the city. Villa Farnesina, full of frescoes by Raffaello is another site to see.



### **Eating and drinking:**

Simple, with strong flavors, overflowing with dressings and anything but low-calorie. Perhaps a little unrefined but this contributes to its authentic, genuine style. Traditional Roman cooking is made up of simple, meager ingredients, that follow the seasons and which are therefore extremely fresh.

A typical Roman menu begins with the essential **bruschetta** “ammazzavampiri” (so full of garlic it would kill vampires), and maybe also a wonderful **mozzarella in carrozza**. The large pasta course that follows could be: **spaghetti alla carbonara**, **bucatini all'amatriciana**, **bucatini cacio e pepe** or **gnocchi alla romana**. If you want to try rigatoni pasta with the famous pajata sauce, we recommend that first you eat it and then ask what the ingredients are: you might be so shocked that you no longer want to try the dish otherwise and lose your chance to try out new types of food.

Onto the main course. You can choose between: **coda alla vaccinara**, **saltimbocca alla romana**, **costolette d'abbacchio**. For side dishes, don't miss the chance to try **artichokes “alla giudia”**, a typical way of cooking artichokes from Jewish-Roman traditional cooking. If you still have room in your stomach, to finish why not try a couple of **maritozzi**, or freshen up with a lovely **"grattachecca"**, the typical Roman crushed-ice drink. Wash the whole meal down with a white wine from **Frascati** or **Cerveteri**.

Let's take a look at food and wine you can buy. Every morning in the picturesque market in **Campo de' Fiori**, fruit and vegetable stalls show off their seasonal wares: the effect you get is an explosion of color and aromas that makes your mouth water. The bakers' shops and food shops surrounding the square are also culprits in stirring up this desire for food. For good wine lovers, many **wine cellars** in the city organize wine tasting courses and information-giving meetings about vineyards, harvesting, fermentation and all the processes linked to the production of this nectar of the gods. Among some of the places in the city that organize such events, we can name "La Tradizione" and "Franchi".

The **historical coffee shops** in the city are our last stop in this section, where it is possible to try typical Roman food in unique surroundings that combine culture, history and tradition. Meeting places and places to swap ideas for artists and writers in the 19th and 20th centuries such as Caffè Greco, Babington's Tearooms, Caffè Rosati and Caffè Canova. For espresso coffee-lovers, we

recommend Caffè Sant'Eustachio located in the square with the same name, a fine coffee shop founded in the 1930s where the coffee is roasted by hand over wood fires.



Rome: Porta Portese

If you want to spend time shopping in Rome, there is an endless choice of places for you to choose from: from the most famous designer labels in Italian fashion that dominate the more elegant city streets to the outlets outside the city, to the old craftsmen's shops and laboratories and the flea markets.

For more detailed information about what to buy in Rome, we recommend you read our itinerary on [Shopping in Rome](#). Here will just tell you the places in Rome where most of the shops are for you to be able to give vent to your consumer passion.

The most famous fashion streets in Rome are three parallel streets that all meet up with Via del Corso, starting from [Piazza di Spagna](#) or near there: **Via Condotti**, **Via Borgognona** and **Via Frattina**.

The most famous of the three is Via Condotti, which owes its name to the channels that carried water to the Agrippa thermal spa baths. Today it is one of the most elegant streets in the world, lined with the shops of the most famous fashion labels such as Bulgari, who opened his "atelier" here in 1905, Hermès, Cartier, Ferragamo and Battistoni, a historical Roman atelier of male tailored fashion that was a favorite of the Duke of Windsor.

In Via Borgognona there are other famous names: Ferré, Fendi, Laura Biagiotti, "the queen of cashmere" and Gai Mattiolo, a young Roman fashion designer who has recently entered the elite of famous designer labels. Finally, in Via Frattina, there are the ateliers of Tiffany, Versace and Byblos.

Many streets in the old city center are still full of traditional Roman craftsmen's shops: old-style carpenters and expert restorers are still concentrated in Via dei Cappellari. Via dei Sediari has been famous for hundreds of years for chairs, armchairs and other household objects made from wickerwork. The expert wrought iron forgers' laboratories can be found in Via degli Orsini. Via Santa Dorotea is the place to go for vases and other painted ceramic pieces. In Via dei Gigli d'Oro you can find reproductions of antique mosaics. Rome's antique shops are located in Via dei Coronari, Via Giulia, Via Margutta, Via del Babuino and Via del Pellegrino.

## PROPOSED CONFERENCE VENUES:

### SHERATON ROME HOTEL AND CONFERENCE CENTRE \*\*\*\*

VIALE DEL PATTINGGIO - 00144 ROME

*RESERVATION DEPARTMENT* TEL +44 20 71 08 11 33 | FAX +33 4 89 88 40 25

Rome, the Eternal City offers you a thousand reasons to come, and a thousand things to discover. The colors of the Spanish steps and Trastevere, the view of the Roman forum, the Colosseum and the St. Peter's Square, the Pantheon, the Trevi Fountain, elegant fashion boutiques, friendly people. Sheraton Roma Hotel, one of the largest hotels in Italy, located in the EUR district, just 20 minutes from Leonardo Da Vinci International Airport and the city center (Piazza Venezia, Termini train station ) via courtesy scheduled bus service leaving every hour. One of the largest hotels in the city, the Sheraton Roma is also one of the most attractive and complete with Executive floors, comprised of 177 Executive rooms and 13 suites along with a dedicated Lounge offering private check-in and checkout facilities and concierge service. Superior amenities, in-room safe, free newspaper, bathrobe and slipper and an evening turndown service add to the exceptional comfort that guests may enjoy while staying on the Executive floors.



### GRAND HOTEL PARCO DEI PRINCIPI ROMA \*\*\*\*\*

Via G. Frescobaldi, 5 – 00198 Roma



*Suite*



#### ■ Hotel Facilities:

Those who choose the Grand Hotel Parco dei Principi are for us more than clients, they are guests. And as such they must be able to enjoy every comfort and have every need satisfied.

After a dip in our lovely **pool** surrounded by trees, our guests at the Grand Hotel Parco dei Principi can relax in the cool of our splendid **private park**.

For the true sportsman or woman, we suggest a visit to our **Fitness Club** which has all the best and latest gymnastic equipment. Banquets, ceremonies, receptions, or romantic candlelight dinners.

The Grand Hotel caters for all this. The hotel's award-winning principal **restaurant**, the Pauline Borghese, is considered unsurpassed among hotel restaurants in Rome where (weather permitting) guests may dine outdoors, on the terrace, where they can fully appreciate the beauty of the hotel's surroundings.

For conferences or meetings choose one of our **fourteen Conference Halls**.

The Congress Centre at the Grand Hotel Parco dei Principi has been planned to meet the demands of any occasion. Our halls can accommodate up to 900 people and can be arranged to suit your requirements. For exhibitions, sales events and shows, give vent to your creativity.

The Grand Hotel Parco dei Principi will be more than pleased to put one of its **Event Halls** at your disposal. Our Halls are carefully decorated and elegantly furnished, an ideal setting for any exhibition, or show. For weddings, first communions, any memorable occasion, we are at your service.

Here at the Grand Hotel Parco dei Principi every dinner becomes a Gala Banquet: tables exquisitely laid, fine silverware and crockery, special Menus, impeccable waiter service and discreet and fast catering.

#### ■ Room Facilities:

There are no less than 140 ways of spoiling yourself and 35 to enjoy luxury.

In either case you cannot fail to be satisfied with our delightful, comfortable, finely furnished rooms, or one of our exclusive suites, each with its own balcony with a view on the pool and private park.

All you have to do is to choose the type of luxury you desire and tell us when you want your wake-up call.

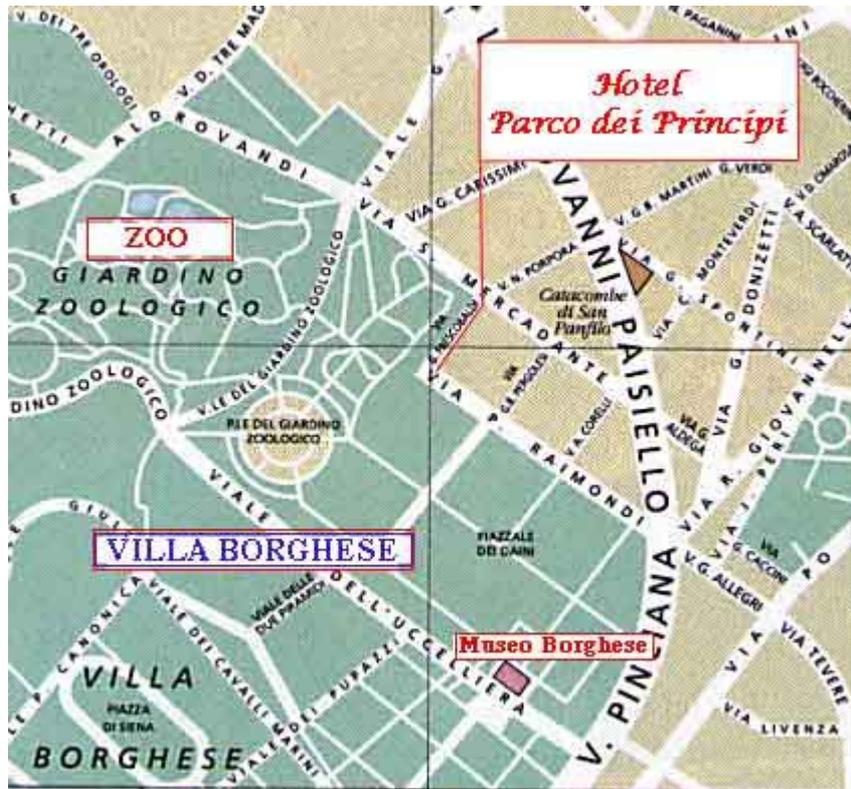
We will see to the rest.

Each room is equipped with:

- Private bathroom (some with hydro-massage)
- Hair-dryer
- TV Sat
- Pay Tv
- Direct telephone line
- Air conditioning
- Minibar
- Safe deposit box
- Internet access
- Soundproof windows
- Room service
- Laundry service

With careful preparation and planning we make sure your ceremony will be an occasion to remember. From the Reception to Room Service we will see that every wish is fulfilled, every command obeyed. Handicap facilities. **Garage** available from 14 Euro per day. Small pets are welcome in the rooms but not in the common areas.

---



## THE WESTIN EXCELSIOR\*\*\*\*\*, ROME

Via Vittorio Veneto 125, 00187 Rome



As Rome's most celebrated avenue, Via Veneto is the cradle of "la dolce vita" immortalized by Fellini. It is also home to the recently refurbished The Westin Excelsior, Rome - its most distinguished address.

Our spacious guest rooms boast rich custom fabrics and Imperial style furnishings. We also offer the largest suite in Europe - Villa La Cupola. Enjoy Roman specialties at Restaurant Doney.

Named one of the "Top 75 Hotels in Europe" by Condé Nast Traveler in 2005 as well as to their 2005 Gold List, The Westin Excelsior, Rome is a monument to turn-of-the-century style.

### [GUEST ROOMS & AMENITIES](#)

- The Heavenly Bed
- Non-Smoking Room
- Air-Conditioned Room
- In-Room Electronic Safe
- 24-Hour Room Service

### [HOTEL SERVICES](#)

- WestinWORKOUT® Gym
- Running Maps by Runner's World
- Multilingual Staff
- Service Express®
- Internet Service Provided in Business Center (Charge)

### [MEETING & EVENT FACILITIES](#)

- Number of Meeting Rooms: 7
- Largest Meeting Room Seats: 500
- Smallest Meeting Room Seats: 5

### [RESTAURANTS & LOUNGES](#)

- h club > Doney
- Excelsior Bar
- Restaurant Doney

### [LOCAL AREA](#)

- Castel Saint Angelo (Hadrian's Mausoleum)
- Colosseum/Il Colosseo
- Forum Romanum/Foro Romano
- Galleria Borghese Museum
- La Sapienza University

### [DRIVING DIRECTIONS](#)



**SUGGESTED PROGRAMME OF THE FIG WORKING WEEK 2012:**

DATE	MORNING	LUNCH	AFTERNOON	EVENING
THURSDAY/ FRIDAY/ SATURDAY/ 10/11/12 <sup>TH</sup> JUNE				Social activity of choice
ADM DAY 1 SUNDAY	Council Meeting		Council Meeting	Dinner at the hotel of choice
ADM DAY 2 MONDAY	ACCO Meeting		ACCO Meeting	“Get together dinner” at the Conf. Centre
DAY 1 SUNDAY	Opening Ceremony at the Conf. Centre  General Assembly <i>Accompanying programme:</i>	<i>Accompanying programme:</i>	General Assembly  Commission Annual Meetings  <i>Accompanying programme:</i>	Welcome Reception at the Rome City Hall
DAY 2 MONDAY	Technical Sessions/ Workshops  <i>Accompanying programme:</i>	<i>Accompanying programme:</i>	Commission Annual Meetings  Technical Sessions/ Workshops  Exhibition <i>Accompanying programme</i>	Evening dinner at the hotel of choice
DAY 3 TUESDAY	Technical Sessions/ Workshops  Technical Tours  Exhibition		Technical Sessions/ Workshops  Technical Tours  Exhibition	Evening dinner
DAY 4 WEDNESDAY	Technical Tours  Exhibition		Technical Tours	Farwell banquet
DAY 5 THURSDAY	General Assembly  Presidents Meeting		Closing Ceremony at the City Conference Centre	
POST CONF. DAY FRIDAY- SUNDAY				

## TRANSPORTATION

### TRAVEL TO AND FROM ROME:

Rome is located approximately in the middle of the Italian peninsula and therefore is easily reached either from the north or from the south of the country. The capital is well connected to the rest of Italy and the world, thanks to the two airports and the excellent highway and train systems.

- **By car:** Rome is circumscribed in its entirety by a ring road (Raccordo Anulare) where highways coming from all parts of Italy meet. Those coming **from Naples and from the South** generally must travel the whole length of highway A1. For those coming **from the North of Italy, from Tuscany or Umbria**, follow A1 "Autostrada del Sole" up to the capital. **From Genoa, Pisa** and from the Tyrrhenian coast take A12 up to Rosignano and continue on Superstrada S1 "Aurelia" up to Rome. **From Pescara and from the Adriatic coast** you must take A24/A25 up to destination.
- **By train:** The capital's main station is **Roma Termini**: from here depart the majority of fast long distance trains (Eurostar, Intercity, Espresso) to all points in Italy. From Termini buses take off for all destinations and there is a subway stop also. Some trains, especially night ones, come and go from **Roma Tiburtina**. It is the second train station in Rome and is reachable from Termini by bus and by metro. For times please consult the Trenitalia site or call the green number 89 20 21.
- **By plane:**  
Rome's main airport is **Fiumicino "Leonardo da Vinci" (FCO)** with flights for Italian, European, and Intercontinental destinations. The airport is very well connected to Roma Termini station by the Leonardo Express train, with departures every 30 minutes or by metro FM1, with some stops, to Roma Tiburtina. Between 11.30pm and 5am there is a Cotral night bus linking Fiumicino to Stazione Termini and Stazione Tiburtina. A shuttle bus connects the parking with arrivals and departures from terminal A, B and C. **Ciampino (CIA)** is the second airport of Rome and is mainly used by low-cost airlines. To get to the city you must first take a Cotral bus (every half hour) and then subway A from Anagnina station. Also available is the Terravision Shuttle in conjunction with Ryanair and Easy-Jet flights.

### TRAVEL WITHIN ROME:

Rome has a well organized public transport system of buses, metro-underground lines as well as a lot of numerous companies providing private transport services.

## SUGGESTIONS FOR ACCOMPANYING PERSON PROGRAMME & OPTIONAL SOCIAL ACTIVITIES IN ROME

### CITY SIGHTSEEING OLD TOWN WALKABOUT:

Bus sightseeing and guided walks in and around central ROME.

The best way to explore the Centre of the Town is on foot.

You will visit several museums:



**Musei Vaticani/ Vatican Museums** Viale Vaticano, Tel. 69.883.333

The museums are opened all week round from 8.45 to 13.45. The last Sunday of the month the entrance is free. From April to mid June, in September and October, from Monday to Friday, entry from 8.45 a.m. to 4 p.m. (closing time 4.30 p.m.), Saturday from 8.45 a.m. to 1.45 p.m.. The Museums are closed on January 1<sup>st</sup> and 6<sup>th</sup>, February 11<sup>th</sup>, Easter Monday, May 1<sup>st</sup>, June 29<sup>th</sup>, August 15<sup>th</sup>, November 1<sup>st</sup>, December 8<sup>th</sup>, Christmas day and all other religious holidays.  
Admission 7.50 €

**Musei Capitolini** Piazza del Campidoglio, Tel. 67102071

*Hosted in the palaces designed by Michelangelo. Among the most famous works you can see the Etruscan She-Wolf with the twins sculptured by Pollaiuolo. Free entrance on the last Sunday of the month. Entrance 5 €*

**Galleria Doria Pamphili** Piazza del Collegio Romano 1/A, Tel. 6797323

Opened from 10 a.m. to 5 p.m., Thursday closed. Closed from August 15<sup>th</sup> to 31<sup>st</sup>. *Works by Giovanni Bellini, Filippo Lippi, Caravaggio, Tiziano, Dosso Dossi, Andrea del Sarto, Velazquez, etc. Entrance 6 € - Private Apartment 2.50 €*



**Galleria Borghese** Villa Borghese, Piazza Scipione Borghese 5, Tel. 8548577

Opened from 9 a.m. to 5 p.m., Sunday from 9 a.m. to 1 p.m., Monday closed. *Works by Raffaello, Giotto, Tiziano, Rubens and others.. Entrance 5 €.*

**Galleria Comunale d'Arte Moderna e Contemporanea** Via Francesco Crispi 24, Tel. 4742848

Opened from 9 a.m. to 7 p.m., on Thursday from 9 a.m. to 1.30 p.m., closed on Monday. *Works of the 19<sup>th</sup> cent. (Rodin, Balla, Carrà,...) Entrance 5 €*

**Galleria Nazionale d'Arte Antica (Palazzo Barberini)** Via Quattro Fontane,13, Tel. 4814591

Hours: from 9 a.m. - 14 p.m., Sunday from 9 a.m.-13 p.m.; Closed on Monday. Entrance 4 €. *Works of Raffaello, Caravaggio...*

**Antiquarium Comunale** Viale Parco del Celio, 22, Tel.7001569

H.9 a.m. -7 p.m.; Sunday 9 a.m. -1.30 p.m.; Closed on Monday. Entrance: 2 €. *Vases, statuettes, mosaics ...*

**Museo Nazionale Romano** Via B. de Nicola,79, Tel. 4880530

H.9 a.m. -14 p.m.; Sunday 9 a.m. -1 p.m.; Closed on Monday. Entrance 6 €. (Valid for palazzo Massimo) *Worth seeing the Chiostro of Michelangelo and the hall of Discobolo*

**Galleria Nazionale Di Palazzo Corsini** Via della Lungara,10 - Tel. 68802323

Hours: 9-19; Sabato 9-14; Domenica 9-13; Lunedì chiuso. Ingresso Lit.8 000. *Works from the end of the 15<sup>th</sup> and the 16<sup>th</sup> cent.*

**Museo Nazionale di Castel Sant'Angelo** Lungotevere Castello.Tel. 6875036

Hours: 9 a.m. -7 p.m.; 2<sup>nd</sup> e 4<sup>th</sup> Wednesday of the month closed. Entrance 4 €

**Galleria Spada** Piazza Capodiferro, 3. Tel.6861158

Hours: 9 a.m. - 7 p.m.; Sunday 9 a.m. -1.30 p.m.; Closed on Monday. Entrance: Lit.8000. *Works of Guido Reni, Tiziano, Andrea del Sarto...*

**Galleria Nazionale Di San Luca** Piazza dell'Accademia di San Luca, 77.Tel. 6798850

Mon., Wed., Fri. and the last Sunday of the month opened from 10 a.m. to 2 p.m. All other days closed. Free entrance. *Works of Raffaello, Canova, Van Dyck...*



**Galleria Nazionale d'Arte Moderna** Viale delle Belle Arti, 13, Tel. 322981

Hours: 9 a.m. - 7 p.m.; Sunday 9 a.m. - 5 p.m.; Closed on Monday. Entrance 4 €.

**Museo Barracco** Via dei Baullari, 1.Tel.68806848

Hours: 9 a.m. -7 p.m.; Sunday 9 a.m. - 1.30 p.m.; Closed on Monday. Entrance 2 €. *Sculptures of Assyrian, Egyptian, Greek, Roman ... origin.*

**Museo di Palazzo Venezia** Via del Pebliscito, 118.Tel.6798865

Hours: 9 a.m. -1.30 p.m.; Sunday 9 a.m. -12.30 p.m.; Closed on Monday. Entrance 4 €.

**Museo Etrusco di Valle Giulia** P.le Valle Giulia, 9. Tel.3201951

Hours: 9 a.m. -7 p.m.; Sunday and festivities 9 a.m. -2 p.m.; Closed on Monday. Entrance 4 €. *The villa of Pope Giulio, a wonderful work of Vignola,*

**Museo dell'Alto Medioevo** Via Lincoln, 3. Tel. 5915656

Hours: 9 a.m. - 2 p.m., Sunday and festivities 9 a.m. - 1 p.m.; Closed on Monday. Entrance Lit.4000.  
*Museum of national interest for its richness and variety of archaeological exposé.*

**Palazzo Massimo** Piazza del Cinquecento, 68 (Termini) Tel. 48903500

Hours: 9 a.m. - 2 p.m.; Sunday 9 a.m. - 1 p.m.; Closed on Monday. Entrance: 6 €. (Valid also for the Museo Nazionale Romano)



**Museo Nazionale D'Arte Orientale** Via Merulana, 248-250 (Esquilino). Tel. 4874415

Hours: 9 a.m. - 2 p.m.; Tuesday and Thursday 9 a.m. - 7 p.m.; Sunday and festivities 9 a.m. - 1 p.m.; Closed the 1<sup>st</sup> and 3<sup>rd</sup> Monday of the month. Entrance 4 €. *In the museum are sections dedicated to the near and middle orient, China, Tibet and the art of Gandhara.*

**Aula Ottagana** Via Romita (Piazza della Repubblica). Tel. 4070690

Hours: 10 a.m. - 19 p.m. Free entrance.

**Terme di Diocleziano** Viale E. De Nicola, 79. Tel. 4880530

Hours: 9 a.m. - 14 p.m.; Sunday and festivities 9-13; Closed on Monday. Entrance 6 €. (Valid also for Palazzo Massimo).

## SUGGESTIONS FOR EXCURSIONS IN THE SURROUNDINGS OF ROME:

The area around the city of Rome has lots to offer for furthering your knowledge of this complex city. Knowledge that can range from archeology, art and wine-making. All you need is a little time and travel plan. It can give you a hand here, suggesting some trips outside the city's gates, near to Rome. If however, you have the chance to take things easy, book a [hotel near Rome](#) and use it as a base for your trips.

As always, our [tourist's guide to Rome](#) and surrounding areas has tried to group together the places to see into various sections of interest, trying to satisfy everyone's tastes:

- **Ostia Antica**

Ostia Antica was founded in the 4<sup>th</sup> century B.C. For a long time it was Rome's only river port: once upon a time, the Tiber ended its course in this very town, whose name actually means "mouth", before flowing into the Tyrrhenian Sea. Ostia was a cosmopolitan city and essential from a military and commercial point of view. There were various temples dedicated to the various "foreign" divinities that were uncovered during archeological digs. Ostia Antica was rediscovered fairly recently in historical terms: digs began around 1800 and are still continuing today. **Piazza delle Corporazioni**, with its floors entirely made up of mosaics, and that was once home to the offices of the "trade representatives" of ancient times, is an interesting site to see. From the steps of the Theater, that is still used during the summer season for shows, there is a wonderful view of the area.

- **Tivoli**

Tivoli (about 20 km from Rome), which was used by the Romans as a holiday resort in ancient times too, is famous for its magnificent villas. One of the most spectacular is **Villa Adriana** that became the residence of the Emperor Hadrian when he retired from political life. This is the place where Hadrian wanted to recreate the wonders of the world that he had seen during his travels. For this reason, spread out over the one hundred hectares of parkland, there are groups of buildings that remind us of Greek constructions, such as the reproduction of the Athens Academia and Egyptian buildings such as the reproduction of the city of Canopus. Another Villa of great artistic interest is **Villa d'Este**, the residence of Cardinal Ippolito d'Este. It is famous for the amazing amount of fountains and waterfalls built using the principle of connecting tubs, vases and grottoes inside the park, which totals 35.000 square meters.

- **Frascati**

Lying amongst the Colli Albani and Colli Tuscolani hills, there is an area that groups together about 15 villages and towns full of history, which make up the area known as the "**Castelli Romani**".

We have chosen one of these towns, perhaps the most well-known and popular with visitors: Frascati, about 20 km from Rome. Famous for its wonderful villas and above all for the wine, usually white, that is produced in this area. Frascati bianco D.O.C. is produced from a mix of grapes grown in the surrounding countryside: Malvasia di Candia and Malvasia del Lazio, Trebbiano Greco and Toscano. The result can be tasted in Frascati directly, in one of the many wine cellars in the town, accompanied by a few typical snacks from the area. As well as your glass of wine, if you go to Frascati, don't miss a chance to visit the Renaissance-style **Villa Aldobrandi** that stands over the beautiful town square, which was once invaded by carts that overflowed with the wine sellers' barrels.

## Independent Auditor's report

To the members of International Federation of Surveyors

We have audited the Annual Report of International Federation of Surveyors and the FIG Foundation for the financial year 1 January – 31 December 2006. The annual report comprises the statement by the Director and the Council on the Annual Report, the accounting policies, the income statement and the balance sheet. The Annual Report is prepared in accordance with the Danish Financial Statements Act.

### The Federation's Council and Director's' responsibility for the annual report

The Council and Director are responsible for the preparation and fair presentation of the Annual Report in accordance with the Danish Financial Statements Act. This responsibility includes: designing, implementing and maintaining of internal control relevant to the preparation and fair presentation of an Annual Report that is free of material misstatement, whether due to fraud or error; selecting and applying appropriate accounting policies; and making accounting estimates that are reasonable in the circumstances.

### Auditor's responsibility and basis of opinion

Our responsibility is to express an opinion on this Annual Report based on our audit. We conducted our audit in accordance with Danish Auditing Standards. Those standards require that we fulfil ethical requirements and plan and perform the audit to obtain reasonable assurance that the Annual Report is free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Annual Report. The procedure selected depends on auditor's judgement, including the assessment of the risks of material misstatement in the annual report, whether due to fraud or error. In making those risk assessments, the auditor considers the internal control relevant to the entity's preparation and fair presentation of the Annual Report 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 assessing the appropriateness of accounting policies used and reasonableness of accounting estimates made by the Council and Director are fair, as well as evaluating the overall annual report presentation.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Our audit has not resulted in any qualification.

### Opinion

In our opinion, the Annual Report gives a true and fair view of the financial position at 31 December 2006 as well as of the results of its operations of the Federation and the FIG Foundation for the financial year 2006 in accordance with the Danish Financial Statements Act and Danish Accounting Standards.

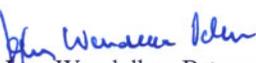
### Additional information

The Council and the Director have chosen to incorporate the budget approved by the Council in the Annual Report. Our audit has not included the budget.

Glostrup, 3 March 2007

**SC Revisorerne**

Statsautoriseret Revisionsaktieselskab



Jørn Wendelboe Petersen

State Authorised Public Accountant

## **Accounting policies**

The Annual Report has been presented in accordance with generally accepted accounting principles of associations as well as in accordance with the accounting requirements of Danish legislation and the regulations.

The accounting policies are consistent with those applied last year and are mainly as follows:

### **Income and expenses**

Items of income or expenses are stated within the period to which they relate irrespective of the payment date.

### **Receivables from members**

Receivables from members are stated at the estimated value.

### Income statement for 2006

	<u>Note</u>	<u>2006 EUR</u>	<u>2005 EUR</u>	<u>Budget 2006 EUR</u>
<b>Income</b>				
Subscriptions, member associations		251.432	230.779	252.000
Subscriptions, affiliated members		8.646	5.981	5.600
Subscriptions, corporate members		89.713	81.156	78.500
Subscriptions, academic members		16.152	15.086	15.700
Sale of publications		143	50	1.000
Advertisements				1.000
Financial income		8.911	8.944	10.000
Projects	1	52.181	83.062	47.700
Various	2	14	798	0
<b>Income</b>		<u>427.192</u>	<u>425.856</u>	<u>411.500</u>
<b>Expenses</b>				
Administration, FIG Office and Council	3	111.946	95.740	103.900
Council meetings	4	60.232	31.262	29.600
FIG meetings	5	53.609	43.326	62.400
Member support	6	51.585	53.547	51.700
Commission activities	7	64.306	37.787	62.500
Promotion	8	36.315	30.666	30.400
Projects	9	44.344	50.117	42.500
<b>Expenses</b>		<u>422.337</u>	<u>342.445</u>	<u>383.000</u>
<b>Net profit</b>		<u>4.855</u>	<u>83.411</u>	<u>28.500</u>

**Balance sheet at 31 December 2006**

**Assets**

	<b>2006</b>	<b>2005</b>
	<b>EUR</b>	<b>EUR</b>
Receivables from members	65.235	80.657
Other accounts receivable	8.393	16.835
Prepayments	2.306	852
<b>Receivables</b>	<b>75.934</b>	<b>98.344</b>
Bonds	197.019	
Cash	178.295	374.136
<b>Cash</b>	<b>375.314</b>	<b>374.136</b>
<b>Current assets</b>	<b>451.248</b>	<b>472.480</b>
<b>Assets</b>	<b>451.248</b>	<b>472.480</b>

**Equity and liabilities**

Equity at 1 January	388.020	304.609
Retained earnings	4.855	83.411
<b>Equity</b>	<b>392.875</b>	<b>388.020</b>
Account payable, The FIG Foundation	2.825	6.486
Other payables	55.548	77.974
<b>Short-term liabilities other than provisions</b>	<b>58.373</b>	<b>84.460</b>
<b>Liabilities other than provisions</b>	<b>58.373</b>	<b>84.460</b>
<b>Equity and liabilities</b>	<b>451.248</b>	<b>472.480</b>

## Financial Report

### Accounts 2006 and Budgets 2007 and 2008

#### 1. Financial situation at the end of 2006

All information in the report is presented in Euros and all FIG activities are based on this currency.

The current financial situation can be considered reasonably good. However, there are some observations to be made. First of all we continuously seem to have too many membership fees in arrears. At the end of 2006 the arrears amounted to € 65,235 in total. This is however an improvement compared to the end of 2005 when the receivables amounted to € 80,657 equivalent to about 18% of the annual membership fees. Most of these arrears will be paid during the next year, but they do have a negative impact on the cash flow and income from interest rates. A strict follow up on members that are in arrears has been implemented.

Again, there has been a very positive development in the membership of FIG. We have new member associations, academic members and corporate members. At the same time, 2006 was the fourth year when the member associations from the less developed countries received a 50 per cent discount on their membership fees. This has helped some member associations from developing countries to continue their membership.

The change of currency policy some years ago according to which the official currency of FIG is now the Euro has minimized the risk of losses relating to currency fluctuations. Thus in 2006 FIG actually gained Euro 3,596 on exchange rates, mostly because of the decline in the US dollar.

The result also includes provisions for bad debts (€ 3,000) and actual loss from expulsions € 6,992, which is remarkably higher than in 2005. In the future the amount of bad debts should decrease further as a result of the actions of Council to get the fees paid in time.

During the year 2006 a re-engineering of the FIG office was completed which will hopefully have a positive impact on the FIG finances. We have maintained the number of staff and the salary base will be similar. But the structure of the staff is now more administrative and accounting oriented to be efficient at organizing FIG events, which is an essential income.

At the end of 2006 FIG has a financial reserve of € 375,314 compared to € 374,136 at the end of 2005, which is further improving the situation compared to previous years. The total reserve is about the level of one year's expenditure. In the strategic plan of the current Council the goal is to collect a financial reserve, which covers expenditures for 1.5 years. The budgets for 2007 are expected to make a small surplus whereas 2008 looks better. The total assets at the end of 2006 were € 451,248 compared to € 472,480 in 2005. The equity has increased to € 392,875.

## **Accounts 2006**

The operational result from 2006 is showing a surplus of € 4,855 compared to € 83,411 in 2005. The main reasons for the lower surplus are:

- Travelling was higher than budgeted in the last year of the German Council
- Printing, postage and mailing were much higher because the agenda for GA in Munich was much more voluminous than previous agendas which had a negative impact on the costs of sending hard copies
- Audit/accounting was higher due to the re-arrangement of the office
- Office supplies were higher due to establishment of the new office setup
- Loss on debtors were higher due to non payment and expulsion of members

## **Budget 2007**

The revised budget for 2007 shows a surplus of € 6,944 that is a little better than 2006 but far less than 2005. Under income there is an increase in the membership subscriptions based on new members. Revenue from member associations and corporate members has increased.

Income from events in 2007 will be less than 2006. The 2 events FIG WW2007 in Hong Kong and the Regional Conference in Costa Rica are expected to yield only a minor surplus to FIG.

Travelling will be high in 2007 due to the 2 events in Asia and in Latin America and due to travelling duties during the first year of office.

## **Budget 2008**

The budget 2008 shows a surplus of € 25,333. The surplus very much depends on income from FIG events, which in 2008 will rely on the WW2008 in Stockholm, Sweden. This is the first event where FIG will undertake full financial responsibilities and duties.

FIG has decided to start a move towards a higher degree of financial independence and thus we have made a provision for this in the 2008 budgets.

On the member side we expect also in 2008 to see an increase in members and hopefully less expulsions than in 2006 and 2007.

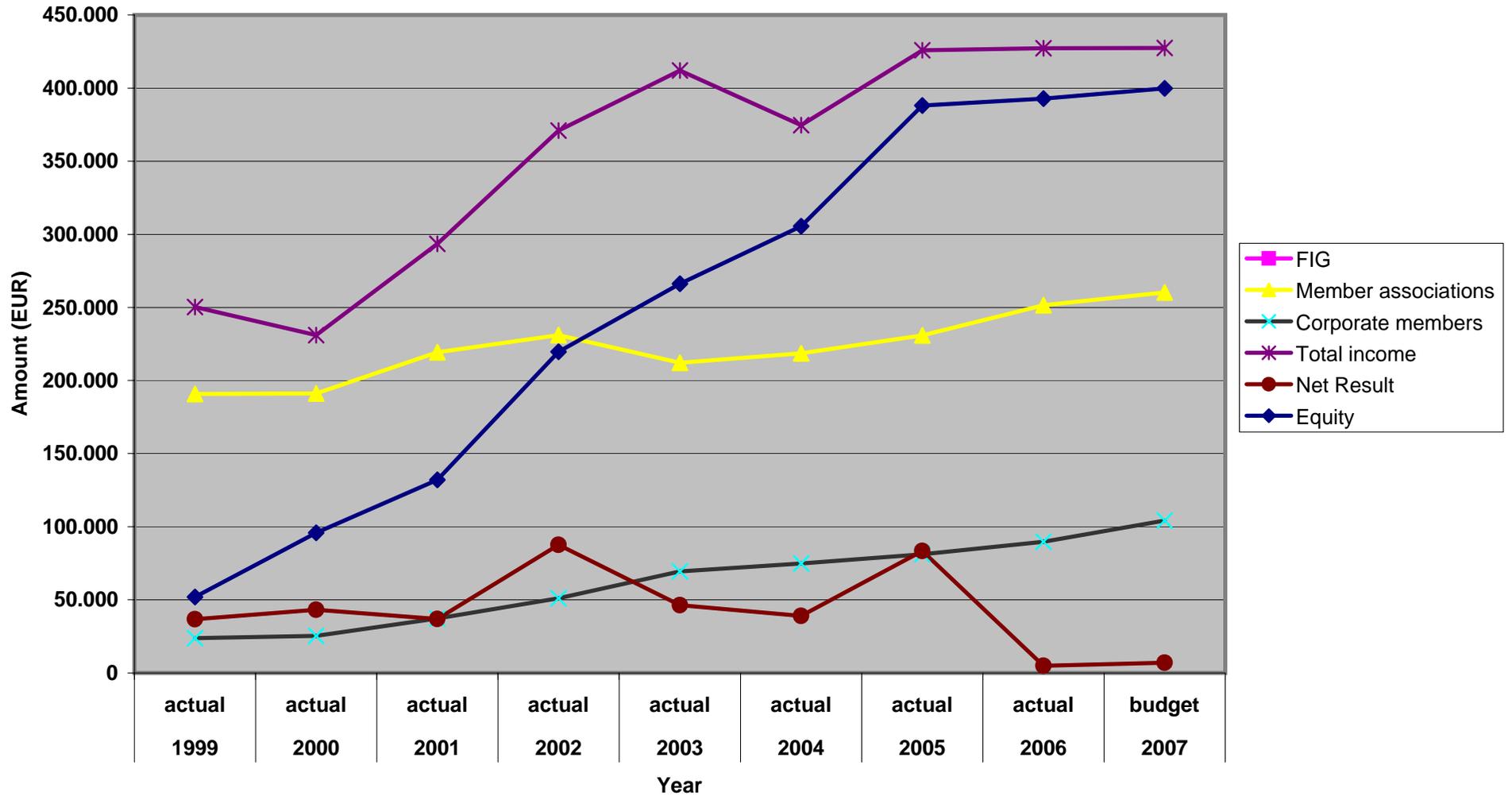
Travelling is budgeted lower in 2008, as there will only be one major event – the FIG WW2008 in Stockholm.

**Ken Allred**  
Vice President

**Per Wilhelm Pedersen**  
FIG Office Manager

March 2007

## Financial Report FIG 1999 to 2007



## FIG Budget for 2007

	<b>Budget 2007 Euro</b>	<b>Actual 2006 Euro</b>	<b>Actual 2005 Euro</b>	<b>Actual 2004 Euro</b>
	<b>GA 2007</b>			
<b>Income</b>				
<b>Subscriptions</b>				
Member associations	260.315	251.432	230.779	218.683
Affiliates	8.910	8.646	5.981	4.683
Corporate members	104.320	89.713	81.156	74.799
Academic members	16.799	16.152	15.086	12.979
<b>Total <sup>1)</sup></b>	<b>390.344</b>	<b>365.943</b>	<b>333.002</b>	<b>311.144</b>
<b>Other income</b>				
Sale of publications	100	143	50	35
Interest income	12.000	8.911	8.944	8.038
External projects <sup>2)</sup>	25.000	52.181	83.062	47.733
Various	0	14	798	7.622
<b>Other income total</b>	<b>37.100</b>	<b>61.249</b>	<b>92.854</b>	<b>63.428</b>
<b>Total Income</b>	<b>427.444</b>	<b>427.192</b>	<b>425.856</b>	<b>374.572</b>
<b>Expenditure</b>				
Admin, Office and Council <sup>3)</sup>	113.500	112.719	95.740	98.309
Council meetings <sup>4)</sup>	46.000	59.998	31.262	23.270
FIG meetings <sup>5)</sup>	58.000	53.609	43.326	56.639
Member support <sup>6)</sup>	56.000	51.585	55.799	32.469
Commission activity <sup>7)</sup>	68.000	64.306	35.535	43.238
Promotion <sup>8)</sup>	33.000	36.315	30.666	28.483
Projects <sup>9)</sup>	46.000	44.345	50.117	53.107
<b>Total Expenditure</b>	<b>420.500</b>	<b>422.337</b>	<b>342.445</b>	<b>335.515</b>
<b>Result for the Year</b>	<b>6.944</b>	<b>4.855</b>	<b>83.411</b>	<b>39.057</b>

## NOTES TO BUDGET 2007

1. The income in 2007 is based on the membership changes as known at this point and the fees as they were adopted in 2005.
2. We are budgeting two events in 2007 – The FIG WW2007 in Hong Kong in May and the FIG Regional Conference in San José, Costa Rica in November. These two projects are expected to yield only a minor surplus for the Federation.
3. Administration includes part of wages, most of the office expenses such as accounting, telephone, insurance, supplies, banking costs, etc.
4. Council meetings include 3 meetings during the year, viz. one in Copenhagen, one in Hong Kong, and one in Costa Rica.
5. FIG meetings include costs of the General Assembly and administrative costs directly linked to the General Assembly.
6. Expenditures for member support include assistance to member associations, visits to member associations, and project costs directly related to members. It also includes most of the up dating on the FIG website.
7. Commission activities are this year budgeted with € 68,000 and include commission grants (now €2,500 per commission), ACCO meetings, and support to commission projects.
8. Promotion and member support include member visits and conferences around the world. Thus, various visits to India, Nairobi, Cuba, Uruguay, Monaco, Bulgaria, Canada, Finland, USA, Italy, Russia, Hungary, and others. Many of these trips have been almost fully or partly covered by the member associations visited and most of them are a mixture of member support and promotion of FIG.
9. Expenditure for external projects includes FIG Office assistance to WW2007 in Hong Kong and to the Regional Conference in Costa Rica. It also includes external expenditure directly related to projects, e.g. production of CD-ROMS and flyers, etc.

## FIG Budget for 2008

	Budget 2008 Euro	Budget 2007 Euro	Actual 2006 Euro
	GA 2007	GA 2007	
<b>Income</b>			
<b>Subscriptions</b>			
Member associations	269.298	260.315	251.432
Affiliates	9.315	8.910	8.646
Corporate members	109.480	104.320	89.713
Academic members	17.640	16.799	16.152
<b>Total <sup>1)</sup></b>	<b>405.733</b>	<b>390.344</b>	<b>365.943</b>
<b>Other income</b>			
Sale of publications	100	100	143
Interest income	14.000	12.000	8.911
External projects <sup>2)</sup>	40.000	25.000	52.181
Various	0	0	14
<b>Other income total</b>	<b>54.100</b>	<b>37.100</b>	<b>61.249</b>
<b>Total Income</b>	<b>459.833</b>	<b>427.444</b>	<b>427.192</b>
<b>Expenditure</b>			
Admin, Office and Council <sup>3)</sup>	117.735	113.500	112.179
Council meetings <sup>4)</sup>	44.042	46.000	59.998
FIG meetings <sup>5)</sup>	60.709	58.000	53.609
Member support <sup>6)</sup>	58.584	56.000	51.585
Commission activity <sup>7)</sup>	70.822	68.000	64.306
Promotion <sup>8)</sup>	34.448	33.000	36.315
Projects <sup>9)</sup>	48.159	46.000	44.345
<b>Total Expenditure</b>	<b>434.500</b>	<b>420.500</b>	<b>422.337</b>
<b>Result for the Year</b>	<b>25.333</b>	<b>6.944</b>	<b>4.855</b>

## NOTES TO BUDGET 2008

1. The income in 2008 is based on the membership changes as known at this point and the fees as they were adopted in 2006.
2. We are budgeting only one event in 2008 – The FIG WW2008 in Stockholm, Sweden in June. This project will yield a nice surplus for the Federation.
3. Administration includes part of wages, most of the office expenses such as accounting, telephone, insurance, supplies, banking costs, etc.
4. Council meetings include 3 meetings during the year, viz. one in Copenhagen, one in Stockholm, and perhaps one more with Venue still to be decided.
5. FIG meetings include costs of the General Assembly and administrative costs directly linked to the General Assembly.
6. Expenditures for member support include assistance to member associations, visits to member associations, and project costs directly related to members. It also includes most of the up dating on the FIG website.
7. Commission activities are 2008 budgeted with € 70,000 and include commission grants (now €2,500 per commission), ACCO meetings, and support to commission projects.
8. Promotion and member support include member visits and conferences around the world and costs directly related to member projects.
9. Expenditure for external projects includes FIG Office assistance to WW2008 in Stockholm. It also includes external expenditures directly related to projects. Production of CD ROMs and flyers, etc.

## **FIG Commission 1 – Professional Standards and Practice Work Plan 2007-2010**

### **1. Title**

Professional Standards and Practice

### **2. Terms of reference**

- Perception of surveying profession
- Professional practice, legal aspects and organisational structures
- Standards and certification
- Code of ethics and applications
- Under-represented groups in surveying
- Students and young surveyors
- Information technology management and professional practice
- Project-management, quality and best practice
- Support to under-represented groups

### **3. Mission Statement**

- Capability of development: Changes are affecting the operation of surveying practices, their management and their professional structures under the challenges of widening professional activities.
- Change of technology: Managing processes and infrastructure with ever changing business infrastructures in the areas of IT, internet, networks and total quality management.
- Improving surveyors' reputation: Supporting the essential dialogue between politicians and surveyors with regard to further development and setting up the own business in strengthening surveyors' role in economy and politics.
- Under represented groups: To focus public attention on under represented groups by surveying activities taking place to improve representation.

To implement this mission statement by

- Promoting the profession everywhere by developing applicable codes of standards and ethics
- Conserving the human aspect of the profession
- Gathering data on problems, successes and researches and by analysing these to expose new issues for professional practice discussion
- Working on establishing standard rules and legislations that can be used in developing countries to promote the surveyors institutional position.

## 4. General

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## 5. Working Groups

### Working Group 1.1 – Standards Network

#### Policy issues

- Developing the involvement of practising surveyors in the development and use of standards
- Increasing the influence of surveyors on key international standardisation bodies
- Building the linkage between FIG workplans and standardisation activities
- Advising FIG officers and members on standards and standardisation
- Supporting the implementation of FIG's policy on standards

#### Chair

- Iain Greenway (United Kingdom), e-mail: iain.greenway@btinternet.com

#### Specific projects

- Continuing to research the most effective way to influence the standardisation process, building relationships with member associations and sister societies as necessary
- Coordinating FIG's input to and relationship with ISO (in particular TC211 and TC172 SC6) and IVSC
- Working with Commissions to provide appropriate briefings to FIG's members on developing and recently published standards
- Maintaining and updating a standards area on the FIG website and the FIG Guide on Standardisation

#### Publications

- At least one paper at each FIG Working Week, providing an update on activities and progress

#### Timetable

- The Working Group will continue until at least to Congress in Sydney in 2010, but options for new chair will be considered in 2008.

#### Beneficiaries

- Surveyors and surveying practices;
- Other professionals working in land management and development;
- Member associations and sister associations involved in standard setting;
- ISO and IVSC;
- All Commissions;
- Universities and educational organisations

## **Working Group 1.2 – Students and Young Professionals (a Joint Working Group with Commission 2)**

### **Policy issues**

- To improve the number of young professionals participating within the FIG.
- To help young professionals in the beginning of their careers with contacts.
- To increase co-operation between the commission boards and the Students and Young Professionals working group.

### **Chair**

Miss Cecilia Lindén (Sweden), e-mail: [clinden@kth.se](mailto:clinden@kth.se)

Vice-chair: Mr. Torsten Schwing (Germany), e-mail: [t\\_schwing@web.de](mailto:t_schwing@web.de)

### **Specific project(s)**

In a time where many of the member organizations are facing difficulties to attract young people to the profession of surveying this working group have been created. The goal is to create connections between “older” and “younger” surveyors.

### **Workshop(s)**

Meeting at the FIG Working Weeks.

### **Publication(s)**

Internal and external progress reports will be prepared, working towards the final formation of the group.

### **Beneficiaries**

The target groups of this working group are Master- and PhD Students, young professionals and commission delegates.

## **Working Group 1.3 – Surveyors Changing Role in Society**

### **Policy issues**

To study surveyors as entrepreneurs – Surveyors changing role in Society. This would show in detail how Surveyors are taking new roles in a changing world over and above the typical thoughts/mindset around the role of Surveyors.

### **Chair**

Ms. Leonie Newnham (Australia), e-mail: [Leonie.Newnham@dse.vic.gov.au](mailto:Leonie.Newnham@dse.vic.gov.au)

Vice-chair: Prof. John Parker (Australia): e-mail: [jrp001@attglobal.net](mailto:jrp001@attglobal.net)

### **Specific project(s)**

To produce papers or case studies on topics related to the topic of the Working Group.

### **Workshop(s)**

Meeting at the FIG Working Weeks.

### **Publication(s)**

To be decided.

## **6. Commission Officers**

### **Commission Chair**

Yaacoub Saade  
c/o Order of Surveyors – Lebanon  
Dekouane Danay Centre  
Floor 5  
Beirut  
LEBANON  
Tel. + 961 1 489 605 – 6 – 7  
Fax + 961 1 489 605-6  
E-mail: comandool@yahoo.com

### **Vice Chair and Chair of WG 1.1 – Standards Network**

Mr. Iain Greenway  
26 Ballycrochan Avenue  
Bangor  
BT19 7LA  
UNITED KINGDOM  
Home Tel. + 44 2891 466 865  
Mobile: + 44 7920 186 623  
Office Tel. +44 2890 255 702  
E-mail iain.greenway@btinternet.com

### **Vice Chair and Chair of WG 1.2 – Students and Young Professionals**

Miss. Cecilia Lindén (Sweden)  
Student  
Royal Institute of Technology  
Stockholm  
SWEDEN  
E-mail: clinden@kth.se

### **Vice Chair and Chair of WG 1.3 – Surveyors Changing Role in Society**

Ms. Leonie Newnham, Manager Asset Strategy  
Department of Sustainability and Environment  
Level 13/8 Nicholson Street  
East Melbourne. 3001  
AUSTRALIA  
Tel. + 61 9637 8651  
E-mail: Leonie.Newnham@dse.vic.gov.au

13 March 2007

## **FIG Commission 2 – Professional Education Work Plan 2007-2010**

### **1. Title**

Professional education

### **2. Terms of reference**

- Curriculum development
- Learning and teaching methods and technologies
- Educational management and marketing
- Continuing professional development
- Networking in education and training

### **3. Mission Statement**

Promoting good practices:

- Endorsing universities and other educational organisations to explore the needs of society and to manage in a pro-active way the necessary changes in the “knowledge age”.
- Supporting academic institutions and industry with new methods of knowledge management, helping surveyors continuously to update their academic and professional profiles.
- Advancing educational business and curriculum tuning processes.
- Promoting content development experiences, facilitating international researches in surveying education and training and to initiate joint projects on this field (curriculum development, educational material development, joint courses, quality assurance etc.).
- Strengthening knowledge transfer between FIG Commissions, inspiring activities on knowledge networks.
- Improving dissemination of information on educational theory and practice to the members across the world.
- Reinforcing contacts to Educational Commissions of International Organisations on the related professions, including the International Cartographic Association (ICA), the International Society for Photogrammetry and Remote Sensing (ISPRS), the Association of Geographic Information Laboratories in Europe (AGILE) and the International Association of Geodesy (IAG).

### **4. General**

The Commission 2 Work Plan 2007-2010 building on the experiences of the previous period tries to fulfil and implement the FIG Council Work Plan. Commission 2 in general aims:

- To perform needs analysis of Commission representatives and FIG Academic members
- To develop further the FIG Surveying Education Database and facilities using educational and internet standards
- To organize annual workshops on actual topics related to education and training

- To investigate the use of information and communication technology to support networked professional education
- To organise, jointly with other Commissions, Regional Summer Schools for solving problems, filling educational gaps and for building communities within young professionals.

The mission and aims will be realized by the following Working Groups:

#### Working Group 2.1 – Curriculum development

Quality curriculum and instruction are - as they have always been - the bedrock of education and the way to developing thoughtful and fulfilled professionals. The society, science and technology around our profession are changing rapidly. These changes continuously generate new educational and training needs, which should be responded by educators to ensure that their learners gain knowledge as effectively and efficiently as possible.

#### Working Group 2.2 – e-Learning

To successfully disseminate the knowledge, it is essential to have an up-to-date learning environment. Thanks to the development in information and communication technologies, there have been lots of possibilities and tools re-engineer the classical teaching methods. Because of e-Learning methods are expected to play an increasing role in professional education there is a growing need for knowledge transfer on this field.

#### Working Group 2.3 – Educational Management and Marketing

Knowledge dissemination is not only a methodological / technical problem. Institutes have to own the rights how the published materials may be available for others as well as taking commercial aspects into account. According to the rapidly changing world and demands in professional education business-based survey can help us to manage successful curricula.

#### Working Group 2.4 – Real Estate Valuation and Management Education

This is a joint with Commission 9 to ensure the surveying education keeps up with the rapidly changing field.

By the end of period 2006-2010 Commission 2 will deliver a publication on ‘*The Future of Surveying Education*’. This will be the main outcome of the four years of activity and will include topics such as:

- Needs analysis
- Curriculum development
- Methods
- Web services
- Knowledge pool
- Experiences in Continuing Professional Development and Life-long Learning
- Educational SDI
- Meta-database
- Global and Regional Networks
- Marketing

- Best practices

To support the development of the publication, the Commission will also conduct:

- Workshops
- Summer Schools
- Joint Projects.

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## **5. Working Groups**

### **Working Group 2.1 – Curriculum development**

#### Policy issues

- To support the mobility among professionals, teaching staff and students using credit transfer.
- To support the implementation of „Bologna” changes (BSc / MSc / PhD / Professional masters) and recognition.
- To facilitate the harmonization of curricula.
- To define a “core knowledge base”.
- To guarantee life-long learning with educational and training services.
- To serve the needs in the new professional challenges.
- To exchange ideas on Quality Management and Accreditation.

#### Chair

Prof Bela Markus (Szekesfehervar, Hungary), email: mb@geo.info.hu

#### Workshop

7-9 June, 2007. Czech Technical University, Prague, Czech Republic

#### Final report

It will be given during the Congress in Sydney.

### **Working Group 2.2 – e-Learning**

#### Policy issues

- To explore the movement from traditional face-to-face teaching towards an integrated learning environment, the changing role of the academic staff.
- To discuss the technical, political, legal, organisational and cultural problems of e-Learning.
- To exchange experiences on content development methods (Multimedia, CBT, Quizzes etc) and student support (Virtual Club / Library, Communication techniques, Teamwork tools).
- To identify the Educational Portal functions
- To disseminate Educational Metadata

### Chair

Liza Groenendijk, ITC (Enschede, Netherlands), email: groenendijk@itc.nl

### Workshop

June 2008. Enschede (Netherlands)

### Final report

It will be given during the Congress in Sydney.

## **Working Group 2.3 – Educational Management and Marketing**

### Policy issues

- To observe and register the new challenges of our profession respond to them.
- To survey the needs for academic members and provide required services.
- To analyse the market and respond by LLL services.
- To promote the need on CPD (Continuous Professional Development).
- To disseminate experiences in recruitment and marketing.
- To distribute know-how in Project and Quality Management.
- To encourage young surveyors (students) on their career.
- To serve ALUMNI and use its power.
- To build twinning and thematic networks.

### Chair

Gert Steinkellner, BEV (Vienna, Austria), e-mail: gert.steinkellner@bev.gv.at

### Workshop

June 2009. Vienna (Austria)

### Final report

It will be given during the Congress in Sydney.

## **Working Group 2.4 – Real Estate Valuation and Management Education (Joint WG with Commission 9)**

### Policy Issues

- Surveyors are traditionally well educated to basics of real estate legislation and markets. In the present world requirements for knowledge in real estate are expanding fast. It is not anymore possible to educate surveyors to all traditional tasks in unified programs but the programs have to have real options where students can really specialise in real estate economics. This is needed in the market (thousands of new jobs) and examples of some countries show that this kind of education is possible and also very attractive for students and markets.

### Chair

Prof. Arvo Vitikainen (Helsinki, Finland), e-mail : arvo.vitikainen@tkk.fi

Co-Chair Prof. Kauko Viitanen (Helsinki, Finland), e-mail : kauko.viitanen@tkk.fi

### Final report

It will be given during the Congress in Sydney.

## **6. Communication**

### **Newsletters**

Commission 2 will inform its delegates and member associations via Commission newsletter.

## **7. Calendar of Events**

- Workshop on Curriculum Development  
Scientia Est Potentia - Knowledge is power. FIG Commission 2 Symposium.  
7-9 June 2007, Czech Technical University, Prague, Czech Republic  
Web site: <http://geoinformatics.fsv.cvut.cz/>
- Workshop on e-Learning, June 2008, Enschede (Netherlands)
- Workshop on Educational management and marketing, June 2009, Vienna, Austria

## **8. Commission Officers**

### **Commission Chair and Chair of WG 2.1**

Prof. Bela Markus  
Faculty of Geoinformatics  
University of West Hungary  
Pirosalma u. 1-3  
P.O. Box 52  
H-8000 Szekesfehervar  
HUNGARY  
Tel. + 36 22 516 523  
Fax + 36 22 516 521  
Email: [fig2@geo.info.hu](mailto:fig2@geo.info.hu)

### **Vice Chair of Administration**

Tamas Jancso  
Faculty of Geoinformatics  
University of West Hungary  
Pirosalma u. 1-3  
P.O. Box 52  
H-8000 Szekesfehervar  
HUNGARY  
Tel. + 36 22 516 522  
Fax. + 36 22 516 521  
Email: [fig2@geo.info.hu](mailto:fig2@geo.info.hu)

**Vice Chair and Chair of WG 2.2**

Ir. E.M.C. (Liza) Groenendijk  
Lecturer/Instructional Designer  
Department for Urban and Regional Planning and Geo-Information Management  
International Institute for Geo-information Science and Earth Observation (ITC)  
P.O.Box 6  
7500 AA Enschede  
THE NETHERLANDS  
Tel. +31 53 4874 528  
Fax + 31 53 4874 575  
E-mail: groenendijk@itc.nl

**Vice Chair and Chair of WG 2.3**

Mr. Gert Steinkellner  
Federal Office of Metrology and Surveying  
Schiffamtsgasse 1-3  
A-1025 Wien  
AUSTRIA  
Tel. + 43 1 211 76 4604  
Fax + 43 1 216 7550  
Email: gert.steinkellner@bev.gv.at

**Vice Chair and Chair of WG 2.4**

Prof. Arvo Vitikainen  
Helsinki University of Technology  
Institute of Real Estate Studies  
P.O. Box 1200  
FIN-02015 HUT  
FINLAND  
Tel. + 358 9 451 3872  
Fax + 358 9 465 077  
Email: arvo.vitikainen@tkk.fi

5 March 2007

## **FIG Commission 3 – Spatial Information Management (SIM) Work Plan 2007-2010**

### **1. Title**

Spatial Information Management

### **2. Terms of reference**

- Management of spatial information about land, property and marine data (data, tools, methods, policies, processes, procedures);
- Spatial data infrastructure – data collection, analysis, visualization, standardization, and dissemination (technical, organizational, personnel, administrative, financial, policy, and legal aspects);
- Management and transfer of knowledge and skills for SIM (educational, professional development and capacity building aspects);
- Impacts on organizational structure, business models, public-private-partnerships, professional practice and administration;
- Management of spatial information supporting good governance (sustainable development, social and economic growth and poverty reduction, environment protection, democracy, freedom, participation in decision making, social security).

### **3. Mission Statement**

- Increase awareness about successful SIM approaches in the “e-Society” by showing good practice like available, reliable and accessible spatial information for better decision-making.
- Support the use of spatial information and SIM tools by surveyors and by all participants in decision-making to serve the goals of good governance.
- Share good practices on managerial processes and infrastructure required for handling data, using information and distributing knowledge.
- Share good practices and develop high-level methods and techniques for merging and managing updated spatial information at various levels according to market requirements.
- Encourage the use of spatial information within e-government and e-commerce.
- Implement the general FIG Work Plan through working groups (WGs), Joint-WGs, Task Force, annual meetings, workshops, and seminars held during and/or outside FIG Working Weeks (WWs) and Regional Conferences; publications; and progress reports about these events.
- Present the final outcomes of Commission work through the web.
- Cooperate and coordinate with the related United Nations committees and other geo-spatial information societies and organizations active in the field, such as the International Society for Photogrammetry and Remote Sensing (ISPRS), the International Cartographic Association (ICA), the International Association of Geodesy (IAG), the Global Spatial Data Infrastructure Association (GSDI), the European Umbrella Organisation for Geographic Information (EUROGI), the United Nations Economic Commission for

Europe, Working Party on Land Administration (UN/ECE WPLA), the United Nations Economic Commission for Europe, Committee on Housing and Land Management and the United Nations Human Settlements Programme (UN-Habitat).

- Increase the contribution of the surveying profession to the implementation of the UN Millennium Development Goals.

#### 4. General

Commission 3 and its Working Groups (WGs) focus on contribution of spatial information for sustainable development. The main output of Commission 3 will be a publication on the topic: “*Spatial Information toward Managing Mega Cities*”, to be delivered by 2010. For that purpose Commission 3 will organize three specific annual Workshops under the sub-topics:

1. *Spatial Information Management toward Legalizing Informal Urban Development*”, 28-31 March 2007, Athens, Greece ([http://www.psdadm.gr/fig\\_Commission\\_3\\_wpla.htm](http://www.psdadm.gr/fig_Commission_3_wpla.htm))
2. *Spatial Information in Environmental Management of Mega Cities*, January 2008, Valencia, Spain
3. Seminar 2009 (Topic and venue to be decided)

Commission 3 delegates will organize additional specific Workshops and meetings either during the FIG Working Weeks and Regional Conferences and/or independently, according to the needs.

In addition, Commission 3 will contribute to joint activities:

- FIG Task Force (involving Commissions 3, 7, 8, 9, 10) for the preparation of the FIG/UN-Habitat Seminar on “*Improving Slum Conditions through Innovative Financing. Bridging the gap between affordable shelter that is inadequate and adequate shelter that is unaffordable*” in Stockholm in June 2008, and
- FIG Task Force (involving Commissions 3, 7, 8, and 9) for cooperation between FIG and UN-Habitat in the framework of the Global Land Tools Network (GLTN); especially in the field of raising awareness in SIM tools and in providing low cost methods, tools and policies toward promoting sustainable development, environmental monitoring of unplanned urban development, and sustainable urbanization. Commission 3 will also provide for this Task Force methods and tools as facilitators among professionals in a well-understood context of planning, development and control.

FIG Commission 3 delegates have expressed their strong interest in:

- Activating the national delegate, the correspondent, and the academic member network in order to work together, identify the needs in our common fields of interest, and exchange experience and knowledge for the common benefit
- Organizing Commission 3 annual meetings and workshops focused on the specifically identified needs and topics. Commission 3 will provide and certify optional double blind peer review for authors of papers submitted for Commission 3 Workshops. Papers of authors not wishing peer review will be equally welcome in the Commission 3 Workshop proceedings. Commission 3 delegates consider that the close cooperation and coordination

among delegates coming from the public and private sectors and from the FIG academic members is of great and equal value for all.

Commission 3 delegates have identified the following sub-topics to be of interest:

- e-Governance for the citizen, democracy, and transparency
- Web Services and Metadata
- SIM Infrastructure
- State of the Art of Spatial Data Infrastructure
- Technical aspects, integration of information, 3D / 4D applications of SDI, visualization of information, seamless information management
- Standardization of Information (technical, legal, semantics and ontology)
- Geo-data policy issues with a focus on pricing and access policies for National Spatial Data Infrastructure (NSDI), equal opportunities and access to spatial information
- SIM applications for environmental protection, disaster management and risk assessment, social and economic growth, cultural heritage documentation and development, informal/unplanned development management, quantifying and localizing cultural diversity, coastal zone and marine data management, real estate markets, valuation and taxation, real estate finance and development
- Educational aspects in SDI and SIM, e-learning
- Transferring / sharing knowledge focusing on “low-cost” methods and tools for spatial information collection and management

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## **5. Working Groups**

### **Working Group 3.1 – e-Government and e-Citizen**

Interactive information flow and communication between providers, partners and customers  
Public Private Partnerships (PPP).

#### Policy Issues

SIM is a facilitator for IT based services for administration as well as for citizens. By this SIMS will have the role of an integrator of components for a Spatial Information Infrastructure within an information society.

- Services and workflows for decision makers and citizens in participatory democracy
- Government – business – customers: relations and activities
- Integration and cooperation in a distributed environment
- Individual vs. business in SIM
- Mobile society
- SIM and Location Based Services (LBS) in an e-Government context

#### Chair:

Kari Strande, Norway, E-mail: kari.strande@statkart.no

### Specific Projects and Outputs

Based on cooperation with other WGs and other commissions WG 3.1 will:

- Report on good practice of Spatial Information within e-Government in order to support citizens in participatory democracy, providing equal access to information for all with transparency, and to reduce corruption caused by inefficient land governance in Mega Cities
- Facilitate experience exchange in e-Government toward sustainable development and environmental management of Mega Cities
- Provide recommendations to the way forward within SIM in e-Government development; low cost approaches for upgrading informal settlements
- Provide links to information and publish minutes of workshops
- Facilitate network and meeting places for local authorities for their e-Government development and experience exchange
- Contribute to the Commission 3 annual meetings and specific Workshops
- Contribute to the publication on the topic: “*Spatial Information toward Managing Mega Cities*”, to be delivered by 2010.
- Contribute to the FIG Task Force for the preparation of the FIG-UN Habitat Seminar on “*Improving Slum Conditions through Innovative Financing. Bridging the gap between affordable shelter that is inadequate and Adequate shelter that is unaffordable*”
- Contribute to the deliverables that Commission 3 will provide to the FIG Task Force in the framework of the UN-Habitat Global Land Tool Network.

A detailed work plan with milestones will be published on the website of Commission 3.

### Workshops

- Athens, 28-31 March 2007
- Norway, sub-Working Groups meetings
- FIG WW Hong Kong, 12-17 May 2007
- FIG Regional Conference, Costa Rica, 12-15 November 2007
- Valencia, January 2008
- Workshop and FIG Working Week, Stockholm, 14-19 June 2008
- Commission 3 Workshop, 2009
- Workshop and FIG Working Week, Eilat, Israel, 3-8 May 2009
- FIG Regional Conference, 2009
- FIG Congress, Sydney, Australia, 9-16 April 2010

### Beneficiaries

Surveyors, planners, politicians, and citizens accessing and contributing to e-Government on a national as well as on a local level. Contributing to better access to general users of spatial data, and to better tools and more participation in local authorities.

### **Working Group 3.2 – Spatial Data Infrastructure**

Requirements for data, information, tools and workflows as components of local, national and global spatial data infrastructures (SDI).

### Policy Issues

- Institutional arrangements, information policy and legal frameworks needed to create and share data, information and tools within and between levels of government
- Respective roles of government, private sector, professional bodies and community groups in creating and managing SDI
- Technical innovation needed to enable use of SDI, including spatial data capture, management, visualization and access
- Implementing international best practice standards in SIM at all levels, including use of ISO/TC 211, Open GIS Consortium, etc.
- Sharing experience, developing visions for the future, identifying productive roles for surveyors and other spatial professionals and informing relevant forums of the role of SIM.

### Chair

Paul Kelly, Director, Spatial Strategies Pty Ltd, Australia, E-mail: [spatials@smartchat.net.au](mailto:spatials@smartchat.net.au)  
Co-Chair: Prof. Dr.-Ing. Hartmut Mueller, Fachhochschule Mainz, Germany,  
E-mail: [mueller@geoinform.fh-mainz.de](mailto:mueller@geoinform.fh-mainz.de)

### Specific Projects and Outputs

Based on cooperation with other WGs and other commissions this WG will:

- Support discussion on the role of local and regional SDI in managing mega cities; low cost and realistic policies and infrastructure for unplanned urban sprawl management and control
- Identify institutional, policy and legal frameworks that can be incorporated in SDI to address mega city issues related to sound land governance
- Identify specific technical innovations in SIM that can improve management of mega cities
- Contribute to the Commission 3 annual meetings and specific Workshops
- Contribute to the publication on the topic “*Spatial Information toward Managing Mega Cities*”, to be delivered by 2010.
- Contribute to the FIG Task Force for the preparation of the FIG-UN Habitat Seminar on “*Improving Slum Conditions through Innovative Financing. Bridging the gap between affordable shelter that is inadequate and Adequate shelter that is unaffordable*”
- Contribute to the deliverables that Commission 3 will provide to the FIG Task Force in the framework of the UN-Habitat Global Land Tool Network(GLTN)

### Workshops

- Athens, 28-31 March 2007
- FIG Working Week, Hong Kong SAR, 13-17 May 2007
- FIG Regional Conference, San José, Costa Rica, 12-15 November 2007
- Valencia, January 2008
- Workshop and FIG Working Week, Stockholm, Sweden, 14-19 June 2008
- Commission 3 Workshop, 2009
- Workshop and FIG Working Week, Eilat, Israel, 3-8 May 2009
- FIG Regional Conference, 2009
- FIG Congress, Sydney, Australia, 9-16 April 2010

### Beneficiaries

Surveyors, government, associations engaged with spatial data and users of spatial data and spatial information.

### **Working Group 3.3 - Multi Dimensional Aspects in Spatial Information Management**

Review, evaluation and further development of technologies and technological trends for multi dimensional spatial information management in general and data models, visualization and data fusion techniques in particular.

Some novel approaches in modeling, visualization and fusion of spatial data have recently gained the attention of both academic and commercial communities, due to an increase of capabilities of Spatial DataBase Management Systems (SDBMS), as well as the awareness in the necessity for 3D geospatial information within the surveying and the engineering communities.

### Policy issues

WG 3.3 will focus on the topics related to above targets, such as (but not limited to):

- Methods for measuring and gathering 3D spatial information and databases
- 3D data model for building information systems (built on top of SDBMS)
- Algorithms for detection of relations between spatial objects in 3D
- Fully www based approach to visualization of spatial data in 2D and 3D
- Event oriented approach to modeling changes in spatial information systems
- Continuous temporal approaches for handling 2D and 3D spatial information systems
- Accuracy aspects of spatial information vs. needs & budgets of the public and private sectors

### Specific Projects and Outputs

- Support discussion on the role of local and regional SDI in managing mega cities; low cost and realistic policies and infrastructure for unplanned urban sprawl management and control
- Expansion and development of existing data models
- Increase the involvement of surveyors in development of data models
- Disseminate accumulated knowledge and experience
- Provide new methods and tools for city-wide environmental monitoring of unplanned urban development
- Contribute to the Commission 3 annual meetings and specific Workshops
- Contribute to the publication on the topic “*Spatial Information toward Managing Mega Cities*”, to be delivered by 2010.
- Contribute to the FIG Task Force for the preparation of the FIG-UN Habitat Seminar on “*Improving Slum Conditions through Innovative Financing. Bridging the gap between affordable shelter that is inadequate and Adequate shelter that is unaffordable*”
- Contribute to the deliverables that Commission 3 will provide to the FIG Task Force in the framework of the UN-Habitat Global Land Tool network (GLTN)

### Chair:

Prof. dr. sc. Miodrag Roic, Croatia, E-mail: mroic@geof.hr

## Workshops

- Athens, 28-31 March 2007
- FIG Working Week, Hong Kong SAR, 13-17 May 2007
- FIG Regional Conference, San José, Costa Rica, 12-15 November 2007
- Valencia, January 2008
- Workshop and FIG Working Week, Stockholm, Sweden, 14-19 June 2008
- Commission 3 Workshop, 2009
- Workshop and FIG Working Week, Eilat, Israel, 3-8 May 2009
- FIG Regional Conference, 2009
- FIG Congress, Sydney, Australia, 9-16 April 2010

## Beneficiaries

Surveyors, governments, associations engaged with spatial data and users of spatial data and spatial information.

## **6. Commission 3 Workshops**

- 37th CIPA International Workshop on the “*e-volution of Information Technology in Cultural Heritage - Where Hi-Tech Touches the Past: Risks and Challenges for the 21st Century*”, held on 30 October - 4 November 2006, Cyprus.  
(<http://www.vast2006.org> or <http://www.cipa2006.org>)
- FIG Commission 3 2007 annual meeting and workshop in Athens, Greece, on 28-31 March 2007, in parallel to the joint Workshop of the UN/ECE Committee on Housing and Land Management and the UN/ECE Working Party on Land Administration on “Informal Settlements”.
- The topic of the FIG Commission 3 Workshop is:
  - “*Spatial Information Management toward Legalizing Informal Urban Development*”.
  - ([http://www.psdadm.gr/fig\\_com3\\_wpla.htm](http://www.psdadm.gr/fig_com3_wpla.htm))
- FIG Commission 3 2008 annual meeting and Workshop in Valencia, Spain, in January 2008, on environmental and cultural heritage documentation issues, in parallel to the International Congress of Cartography and Surveying and the National Spanish Congress TOP-CART 2008. FIG Com2 organizes a Workshop in Valencia at the same time. Plans are made for some joint sessions of Commission 2 and Commission 3 on educational issues and other sub-topics of common interest.
- The topic of FIG Commission 3 2008 annual meeting and Workshop is: “*Spatial Information in Environmental Management of Mega Cities*”
- FIG Commission 3 annual meeting and Workshop of 2009. Topic, venue (declared interest for hosting the workshop by the Association of Nigeria), and dates remain to be decided.
- XXI CIPA International Symposium on “AntiCIPAting the Future of the Cultural Past”, to be held in Athens, 1-6 October 2007 (Co-sponsored by Commission 3)  
([http://www.survey.ntua.gr/hosted/cipathens\\_2007/](http://www.survey.ntua.gr/hosted/cipathens_2007/))
- Workshop on “Improving Slum Conditions through Innovative Financing. Bridging the gap between Affordable shelter that is inadequate and Adequate shelter that is unaffordable” during the FIG WW 2008 in Sweden as a Follow-up of the Commission 3 annual Workshops in Athens (2007) and in Valencia (2008)

- A specific Workshop on “3D and 4D Spatial Information Management”, during the FIG WW 2009, in Eilat, Israel (proposed by Prof Y. Doytsher) (to be confirmed)
- Commission 3 delegates may organize a specific Workshop on “Pricing of Spatial Data and Services”, (proposed by Dr J.A. Zevenbergen, the Netherlands) (to be confirmed)

Commission 3 will always provide and certify *optional double blind peer review* of papers if requested by the authors. Since the experience and knowledge sharing among all participants, professionals of the public and private sectors and academics, is considered to be of great value for the common benefit of all countries, *all papers* (reviewed or not) will be included at the proceedings of the workshops. Commission 3 has established a group of reviewers for the responsibilities of the Athens Workshop in 2007. The composition of the reviewers group may vary according to the specific topics and availability of the reviewers.

Prof Yerach Doytsher, Israel, will be the director of the peer review process for the Commission 3 specific Workshops.

## **7. Co-operation with Sister Associations**

### Cooperation with UN/ECE WPLA, UN/ECE Committee on Housing and Land Management and UN-Habitat

Cooperation on Spatial Information Management toward Legalizing Informal Urban Development with UN-ECE-WPLA and UN-ECE-Committee on Housing and Land Management.

The FIG Commission 3 2007 annual meeting and Workshop will be followed by joint FIG Commission 3 and UN/ECE Working Party on Land Administration, and Committee for Housing and Land Management sessions, on March 2007, under the general topic: “*Informal Settlements and National Economy -The Value of Good Land Administration and Land Management*”.

### Cooperation with UN-HABITAT

Commission 3 delegates will support the cooperation between FIG and UN Habitat (Land and Tenure Section) in the framework of the Global Land Tools Network (GLTN)

### Cooperation with Professional Organisations

Commission 3 supported the 37th CIPA International Workshop on the “*e-revolution of Information Technology in Cultural Heritage - Where Hi-Tech Touches the Past: Risks and Challenges for the 21st Century*”, held on 30 October - 4 November 2006, Cyprus. Prof Hartmut Mueller, Germany, represented Commission 3 in that event. Web site: <http://www.vast2006.org> or <http://www.cipa2006.org>.

Commission 3 delegates will contribute to the XXI CIPA International Symposium on “*AntiCIPAting the Future of the Cultural Past*”, to be held in Athens, 1-6 October 2007 ([http://www.survey.ntua.gr/hosted/cipathens\\_2007/](http://www.survey.ntua.gr/hosted/cipathens_2007/))

## Cooperation with ISPRS

Commission 3 may organize some joint sessions with ISPRS Commission 2, WG 6 (<http://www.commission2.isprs.org/wg6/>) during the Workshop and annual meeting 2008 in Valencia, Spain (to be decided).

## Cooperation on international standards on spatial data with ISO and OPENGIS

Commission 3 supports the FIG inter-commission activity in this field. Commission 3 representative to the joint WG on standards Network, chaired by I. Greenway, is Ms Helen Murray, from Ireland.

## **8. List of the International Partners of Commission 3**

### Professional Associations

- International Society for Photogrammetry and Remote Sensing (ISPRS), especially with ISPRS-Commission IV-Spatial Information Systems and Digital Mapping (<http://www.commission4.isprs.org>)
- International Committee for Architectural Photogrammetry (CIPA) ([cipa.icomos.org](http://cipa.icomos.org))
- International Cartographic Association (ICA) <http://www.icaci.org>
- International Geographical Union, Commission on Geographical Information Science (<http://www.hku.hk/cupem/igugisc>)

### United Nations and other international partners

- Food and Agriculture Organization (FAO) [www.fao.org](http://www.fao.org)
- UN-Cartographic section: [www.un.org/Depts/Cartographic/english/htmain.htm](http://www.un.org/Depts/Cartographic/english/htmain.htm)
- United Nations Economic Commission for Europe, Working Party on Land Administration (UN/ECE WPLA - [www.unece.org/env/hs/wpla/welcome.html](http://www.unece.org/env/hs/wpla/welcome.html))
- United Nations Economic Commission for Europe Committee on Housing and Land Management (UN/ECE CHLM
- )
- United Nations Economic Commission for Africa (UN/ECA)
- ISPRS-COM4 and [www.oeepe.org](http://www.oeepe.org)
- Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP)
- European Umbrella Organization for Geographic Information (EUROGI)
- Permanent Committee on SDI for the Americas (PC-IDEA)
- GSDI, including a FIG-Commission 3-position paper for GSDI-conference Budapest
- International Standards Organization, Technical Committee 211 (ISO-TC-211)
- Open Geospatial Consortium (OGC - [www.opengeospatial.org](http://www.opengeospatial.org))
- High Level Commission for the Legal Empowerment of the Poor

## **9. Inter-Commission Activities**

- FIG Commission 3 will contribute in a seminar to be held during the FIG Working Week 2008 in Stockholm about “slum upgrading”.
- Inter-commission activity with FIG Commission 7 on 3D Cadastre
- FIG Commission 9 WG 9.2 - Improving Slum Conditions through Innovative Financing and in WG 9.5 – GIS analyses in Real Estate Market Analyses and Valuation.

Involvement is planned by Commission 3 delegate: Mr. Tassos Labropoulos (taslab@central.ntua.gr)

- Commissions 3, 4 and 8 are discussing the possibility of organizing Joint Workshops.

## **10. Active Involvement of Regions**

Commission 3 will continue to be actively involved with underrepresented regions like Africa, Latin America, Middle East, and Asia by exchanging information. Commission 3 will try to reduce conference fees in order to enable or to encourage regional participation and try to raise money for funding participation of groups like students. Commission 3 will also encourage participation by using e-mail and web.

Commission 3 will support the Workshop on “*Good Land Administration and its Role in Economic Development*”, to be held on the 27-28 of June 2007, in Ulanbaatar, Mongolia. Commission 3 chair is invited to present the highlights of the Athens 2007 annual meeting and Workshop on “*Spatial Information Management toward Legalizing Informal Urban Development*”, for the benefit of the country and the region.

## **11. Calendar of Events**

### **2006**

- 30 October - 4 November, Cyprus, 37th CIPA International Workshop on the e-evolution of Information Technology in Cultural Heritage - Where Hi-Tech Touches the Past: Risks and Challenges for the 21st Century. Co-sponsored by FIG Commission 3.

### **2007**

- 28-31 March, FIG Commission 3 annual meeting and Workshop, Athens, Greece
- 13-17 May, FIG XXX General Assembly and Working Week Hong Kong SAR, China
- 1-6 October, XXI CIPA International Symposium, Athens, Greece
- 12-15 November, FIG Regional Conference, San Jose, Costa Rica
- 27-28 June 2007, Ulanbaatar, Mongolia

### **2008**

- January, Commission 3 annual meeting and Workshop, Valencia, Spain
- 14-19 June, FIG Working Week and XXXI General Assembly, Stockholm, Sweden
- 3-11 July, XXI Congress of the International Society for Photogrammetry and Remote Sensing - Silk Road for Information from Imagery. Beijing, China P. R.

### **2009**

- 3-8 May, Workshop and FIG Working Week and XXXII General Assembly, Eilat, Israel

### **2010**

- 9-16 April, FIG XXIV Congress and Working Week and XXXIII General Assembly Sydney, Australia

## **12. Commission Officers**

### **Commission Chair**

Dr Chryssy A Potsiou  
Special Research and Teaching Scientist  
Lab of Photogrammetry, School of Rural & Surveying Engineering  
National Technical University of Athens  
9 Iroon Polytechniou st, National Technical University Campus  
15780 Zografos  
GREECE  
Tel. + 30 210 7722688 or 7722651  
Fax + 30 210 7722677  
E-mail: chryssyp@survey.ntua.gr

### **Vice Chair of Administration**

Mr. Gerasimos Apostolatos  
Surveyor Engineer, Technical Governmental Consultant  
29, Ag. Filotheis str.  
Filothei, 15237  
GREECE  
Tel. + 30 210 6825 905  
E-mail: gapos@tee.gr

### **Deputy Vice Chair of Administration**

Dr. Panos Lolonis  
Panos Lolonis, Ph.D.  
Director of the Planning Department and  
Head of the Quality Management Division  
KTIMATOLOGIO S.A. (Hellenic Cadastre S.A.)  
GREECE  
E-mail: plolonis@ktimatologio.gr  
Web: <http://www.ktimatologio.gr>

### **Director of the Commission 3 Peer Review Procedure**

Prof Yerach Doytsher  
The Abel Wolman Chair in Civil Engineering  
Dean, Faculty of Architecture and Town Planning  
Technion - Israel Institute of Technology  
Technion City  
Haifa 32000  
ISRAEL  
Israel  
Tel. + 972 4 829 4001 (Office)  
Fax + 972 4 829 5641 (Office)  
E-mail: doytsher@technion.ac.il

**Vice Chair and Chair of WG 3.1 - e-Government and e-Citizen**

Ms. Kari Strande  
Statens Kartverk  
Adviser International Affairs  
N-3507 Hønefoss  
NORWAY  
Tel. + 47 32 118 101  
Fax + 47 32 118 182  
Mobile: + 47 9099 6515  
E-mail: kari.strande@statkart.no

**Vice Chair and Chair Working Group 3.2 - Spatial Data Infrastructure**

Mr. Paul Kelly, Director  
Spatial Strategies Pty Ltd  
AUSTRALIA  
Tel. + 61 437 274 449  
Email: spatials@smartchat.net.au

**Co-Chair**

Prof. Dr.-Ing. Hartmut Müller  
Fachhochschule Mainz  
FBI - Geoinformatik und Vermessung  
Holzstr. 36  
55116 Mainz  
GERMANY  
Tel. + 49 6131 2859 674  
Fax + 49 6131 2859 699  
E-mail: mueller@geoinform.fh-mainz.de

**Vice Chair and Chair of WG 3.3 - Multi Dimensional Aspects in Spatial Information Management**

Prof. dr. sc. Miodrag Roic  
Faculty of Geodesy  
Institute of Engineering Geodesy and Spatial Information Management  
Kaciceva 26  
HR-10000 Zagreb  
CROATIA  
Tel. + 385 1 4639 229  
Fax + 385 1 4828 081  
E-mail: mroic@geof.hr

5 March 2007

## **FIG Commission 4 – Hydrography Work Plan 2007-2010**

### **1. Title**

Hydrography

### **2. Terms of reference**

- Hydrographic surveying
- Hydrographic education, training and Continued Professional Development (CPD)
- Marine environment & Coastal Zone Management (CZM)
- Data processing and management
- Nautical charting and bathymetric maps – analogue and digital, including ENC's (Electronic Navigational Charts)

### **3. Mission Statement**

- Promote the aims and objectives of FIG to hydrographers through the active involvement of national delegates from member associations and other interested parties in the activities of the commission.
- Foster closer links with all sister organisations currently active within the global Hydrographic community.
- Develop guidelines and standards that will assist hydrographers in the provision of their services.
- Disseminate information relevant to the profession through participation in international meetings, conferences and committees.

### **4. General**

Commission 4 is committed to achieving both the long term and immediate aims and objectives of the FIG organisation. The commission strategy over the next four years is aligned with that of the incoming Council and will include:

- Co-operation with other FIG Commissions, including joint working groups;
- The development of best practice guides in Hydrography;
- Active support and participation in FIG regional events;
- Contributing to the work of the FIG Task Force on Institutional Development;
- Cooperation with National surveying and mapping agencies where common applications exist; and
- Respond to directions from FIG Council to address emerging issues on an ad-hoc basis.
- Support the International Hydrographic Organisation (IHO), Capacity Building Committee (CBC).

## 5. Working Groups

### Working Group 4.1 – Hydrographic Surveying in Practice

#### Policy issues

- Monitor and report on new directions in Hydrographic surveying.
- Good practice recommendations for project management and the delivery of Hydrographic products and services.
- Respond to opportunities to offer CPD at regional meetings.
- Promotion of Pathways to Professionalism (seeking common terminology with International Advisory Board (IAB).
- Cooperation with FIG Commission 2 on matters pertaining to Professional Education.

#### Chair

John McCarthy (Australia), e-mail: john@mhshydro.com

#### Specific project(s)

- Develop guidelines for planning and managing Hydrographic projects.
- Provide a review of IFHS Special Publication-3 *Hydrographic Surveying as a Career*.
- Assist Commission 4 Working Group 4.4 on Capacity Building in the delivery of CPD at regional venues.

#### Workshop(s)

- Participation in FIG Working Weeks, Regional Meetings and other major Commission events (see Calendar of Events) with dedicated Technical Sessions and/or Workshops as appropriate.

#### Publication(s)

- Handbook on Hydrographic project planning and management.
- FIG Working Weeks will include Technical Papers on specific issues and presented by Working Group Members and other invited experts.

#### Timetable

- Draft publication will be presented at FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chair.
- Working group will present a final report at the FIG Congress, 2010.

#### Beneficiaries

- FIG member associations, managers in surveying businesses, national surveying and mapping agencies, academia and as well as individual surveyors.

### Working Group 4.2 – Standards and Guidelines

#### Policy issues

- Development and recognition of standards of competency.
- Review of technical standards and guidelines .
- Cooperation with sister organizations and other appropriate bodies.

- Promotion of the use of standards and guidelines to the surveying community.
- Cooperation with FIG Standards Network.

#### Chair

Andrew Leyzack (Canada), e-mail: leyzacka@dfo-mpo.gc.ca

#### Specific project(s)

- Review Standards coming from ISO TC211 for relevance to Hydrography.
- Assess the impact of international standards on current industry practice.
- Represent Commission 4 on the FIG Standards Network.
- Provide a review of the IHO New Manual of Hydrography.

#### Workshop(s)

- Participation in FIG Standards Network Meetings and other major Commission events (see events section below).

#### Publication(s)

- FIG Working Weeks will include Technical Papers and/or reports to the FIG Standards Network on emerging standards, guidelines and specific issues.
- Ongoing contribution to the maintenance of the FIG Guide on Standardisation.

#### Timetable

- Ongoing work will be reported FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chair
- Review IHO New Manual of Hydrography by May 2008
- Working group to present a final report at FIG Congress, 2010.

#### Beneficiaries

- FIG Standards Network
- Sister organizations, national surveying and mapping agencies
- FIG member associations, surveyors in industry and government, academia
- Instrumentation and software producers.

### **Working Group 4.3 – Administering Marine Spaces**

#### Policy Issues

- Focus on land management within the near-shore, land/sea interface of a Coastal Zone.
- To promote and develop the work of FIG Publication 36, Administering Marine Spaces.

#### Chair

Michael Sutherland, (Canada) e-mail: michael.d.sutherland@unb.ca

#### Specific project(s)

Climate Change Impact upon Coastal Communities (In cooperation with other planned activities of Commissions 7 and 8 relevant to Coastal Communities)

### Workshop(s)

Participation in FIG Working Weeks, Regional Meetings and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.

### Publication(s)

- Technical papers with regard to FIG Working Weeks, Regional Meetings and other major Commission events;
- Possible joint publication(s) with Commission 8 with regard to climate change impacts upon coastal communities.

### Beneficiaries

FIG member associations, governments, industry and academia.

## **Working Group 4.4 – The Economic Benefits of Hydrography**

### Policy issues

- Clearly identify the cost/benefits associated with Hydrographic products and services
- Promote Hydrographic Surveying as an investment.
- Market the Profession and the development of qualified personnel.
- Support FIG Task Force on Institutional Development.
- Coordinate efforts to focus professional development where required.
- Investigate cost effective alternatives for the delivery of Hydrographic services and training.

### Chair

Gordon Johnston (United Kingdom), e-mail: [gordon.johnston1@orange.net](mailto:gordon.johnston1@orange.net)

### Specific project(s)

- Work closely with the International Hydrographic Organisation (IHO) and sister associations to present and promote the benefits realised from Hydrographic information.
- Engage and encourage users of Hydrographic information to help demonstrate the benefits of using quality Hydrographic information.
- Support the International Hydrographic Organisation (IHO), Capacity Building Committee (CBC).

### Workshop(s)

Participation in FIG Working Weeks, Regional Meetings and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.

### Publication(s)

- Pamphlet on Economic Benefits of Hydrography to market the profession and services.
- Internal and external reports will be prepared from participation at IHO, CBC meetings.
- FIG Working Weeks will include Technical Papers on specific issues and presented by Working Group Members and other invited experts.

## Beneficiaries

- FIG member associations, surveyors in government, industry, academia and the IHO.

## **6. Co-operation with Sister Organisations**

### **6.1 FIG/IHO Committees**

Commission 4 currently represents FIG on the International Advisory Board (IAB) on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (jointly with IHO and ICA). The commission will also support the IHO in its Capacity Building Initiatives with representation on the IHO Capacity Building Committee (CBC).

### **6.2 FIG and the International Federation of Hydrographic Societies (IFHS)**

Commission 4 has begun to cooperate with the IFHS whereby the Federation has provided input into the 2006-2010 work plan and the commission will continue to lend its support towards sponsoring IFHS conferences and other initiatives. For example, the commission has provided financial support and resources for updating the IFHS special publication (SP-3) entitled „*Hydrographic Surveying as a Career*”. It is important for Commission 4 to maintain contact with all national Hydrographic Associations (whether members of the IFHS or not) to foster communication and cooperation for the betterment of the profession.

Notes:

1. FIG and IHO cooperate under a Memorandum of Understanding (MOU) which was signed in Athens, May 2004. Our liaison is IHB Director, Mr. Hugo Gorziglia.
2. The role of the International Advisory Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers is to develop and up-date international standards of competence and to review the academic programmes of educational institutions that are seeking IHO accreditation of their Hydrographic training courses. Our liaisons with the IAB is past Commission 4 Chair, Mr. Andrew Armstrong (USA). FIG is represented by Adam Greenland (NZ), Gordon Johnston (UK), Mohammed Razali Mahmud (Malaysia) and Ms. Tiina Turnala (Finland).
3. FIG and the International Federation of Hydrographic Societies (IFHS) cooperate under a MoU which was signed in Cairo, April 2005. Our liaison with the IFHS is their President, Mr. Paul Hornsby.

## **7. Co-operation with the United Nations agencies**

On the guidance of FIG Council, Commission 4 will participate in co-operation with the United Nations agencies on topics that are related to commission expertise (e.g. marine cadastre).

## **8. Cooperation with other FIG Commissions**

Commission 4 will collaborate with:

- Commission 1 on standards issues (Standards Network)
- Commission 2 on matters pertaining to Professional Education.
- Commission 3 on matters pertaining to Hydrographic information management;

- Commission 5 to review and revise (where required) FIG Publication 37, Vertical Reference Surface for Hydrography;
- Commission 7 on Administering Marine Spaces; and with
- Commission 8 on Urban Planning in Coastal Regions.

## **9. Other Activities**

Maintain and develop the commission web page, with links to other relevant home pages and new pages or other networks for special projects, to keep commission delegates, the Hydrographic community and the public involved in and informed about the work of the commission. Contribute editorials, reports and articles to Hydrographic publications including but not restricted to the Hydrographic Journal, Hydro International, The International Hydrographic Review, Sea Technology and Lighthouse. Produce a bi-annual Commission 4 CD ROM for distribution to commission delegates, our sister organizations and national Hydrographic societies.

## **10. Calendar of Events**

### **2006**

- IFHS Hydro 2006, Antwerp, Belgium, 6-9 November

### **2007**

- IHO Conference, Monaco, 7-11 May
- U.S. Hydro 2007, Norfolk, 14-17 May
- FIG Working Week, May- Hong Kong, 13-17 May
- 9th South East Asia Surveyor's Congress, Christchurch, New Zealand, 29 October – 1 November
- FIG Regional Meeting, San José, Costa Rica, 12-15 November

### **2008**

- CHC2008, Victoria, Canada, 5-8 May
- FIG Working Week, Stockholm, Sweden, 14-19 June

### **2009**

- FIG Working Week, April-May, Eilat, Israel, 3-8 May
- FIG Regional Meeting

### **2010**

- FIG XXIV Congress, Sydney, Australia, 9 – 16 April

## **11. Commission Officers**

### **Commission Chair and Chair of WG 4.2**

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

### **Vice Chair – Administration & Communication**

Mr David Neale  
Department of Surveying and Land Information  
University of the West Indies  
St Augustine  
TRINIDAD AND TOBAGO  
Tel. + 1 662 2002, ext 2108  
Fax + 1 662 4414  
E-mail: david.neale@caneassociates.com

### **Working Group 4.1 – Hydrographic Surveying in Practice**

Mr. John McCarthy  
Mapping & Hydrographic Surveys Pty Ltd.  
P.O. Box 7144 East Brisbane  
Queensland 4169  
AUSTRALIA  
Tel. 617 3399 8566  
Fax 617 3899 1515  
E-mail: john@mhshydro.com

### **Working Group 4.2 – Standards and Guidelines**

Mr. Andrew Leyzack C.L.S.  
E-mail: leyzacka@dfo-mpo.gc.ca

### **Working Group 4.3 – Administering Marine Spaces**

Dr. Michael Sutherland  
School of Management  
Vanier Hall, Box 141  
University of Ottawa  
136 Jean-Jacques Lussier Privé  
Ottawa, Ontario, K1N 6N5  
CANADA  
Email: michael.d.sutherland@unb.ca

**Working Group 4.4 – Capacity Building and the Economic Benefits of Hydrography**

Mr. Gordon Johnston, MRICS

67 Devon Road

Cheam

Surrey SM2 7PE

UNITED KINGDOM

Tel. + 44 208 391 6988

Fax + 44 208 661 1650

E-mail: [gordon.johnston1@orange.net](mailto:gordon.johnston1@orange.net)

6 March 2007

## **FIG Commission 5 – Positioning and Measurement Work Plan 2007–2010**

### **1. Title**

Positioning and Measurement

### **2. Terms of Reference**

- The science of measurement (instrumentation, methodology and guidelines)
- The acquisition of accurate and reliable survey data related to the position, size and shape of natural and artificial features of the earth and its environment and including variation with time.

### **3. Mission statement**

- Focus on modern technologies and technical developments and assist individual surveyors, through guidelines and recommendations, to choose and utilise those methods, technologies and instruments that are most appropriate to different applications.
- Follow technical developments through collaboration with other FIG commissions and other international organisations; participation in appropriate meetings; and the preparation of appropriate publications.
- Support research and development and stimulate new ideas in the fields of expertise represented within the commission.
- Collaborate with manufacturers on the improvement of instrumentation and associated software.
- Present and promote the work of the commission and its working groups on an on-going basis at FIG working weeks and other relevant technical meetings and in appropriate FIG and other media.

### **4. General**

This work plan covers the development, use and integration of technologies for positioning and measurement and the associated standardisation, best practice and fundamental reference frame issues. Many of the issues are global in nature and Commission 5, working with like-minded Sister Associations, is well placed to deal with them. FIG Council has also asked the Commissions to cooperate with United Nations Agencies to address global problems such as sustainable development and humanitarian needs. The disciplines covered by Commission 5 are at the heart of delivering solutions for the spatial aspects of these important global problems. Specific activities aimed at developing countries include examination of Low Cost Surveying Technologies, assistance with implementation of modern Geodetic Reference Frames and associated infrastructure and contribution to appropriate Continuing Professional Development programs.

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## **5. Working Groups**

### **Working Group 5.1 – Standards, Quality Assurance and Calibration**

#### Policy Issues

- Influence the development of standards affecting positioning and measurement instruments and methods, in collaboration with the FIG task force on standards and through participation in the relevant Technical Committees (TCs) of the International Standards Organisation (ISO) and other appropriate bodies.
- Acceptance controls, quality assurance and certification and their impact on the surveying profession.
- Checking and calibration of measuring instruments.
- Assist other Commission Working Groups to implement Standards from ISO TC211 as appropriate.

#### Chair

David Martin (France), e-mail: martin@esrf.fr

#### Specific project(s)

- Transform the existing recommendations on the Use and Calibration of EDM (FIG-Publication 7/1994) in a digital document and make it available on the FIG-Website
- Actualise the above mentioned EDM-Standards
- Present and promote the use of standards and guidelines to the surveying community.
- Establish guidelines and recommendations for instruments taking into account latest development in surveying technology.
- Guidelines and Recommendations for the ISO Guide to Uncertainty of Measurements.
- Review Standards coming from ISO TC211 for relevance to Positioning and Measurement.
- Contribution to the new GPS related Work Item of ISO TC 172 SC6, in cooperation with Working Group 5.4.

#### Workshop(s)

- Participation in FIG Working Weeks and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.

#### Publication(s)

- Recommendations for the Use and Calibration of EDM
- FIG Working Weeks will include Technical Papers on specific issues and presented by Working Group Members and other invited experts.
- Guidelines for instruments taking into account latest development in surveying technology.

### Timetable

- Draft publications will be presented at FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chair.
- Working group final report: dedicated session, FIG Congress, 2010.

### Beneficiaries

- FIG member associations, manufacturers and users of survey equipment, governments, standardisation organisations, decision makers, GIS developers and users, surveying businesses, individual surveyors.

## **Working Group 5.2 – Reference Frame in Practice**

### Policy issues

- Work to bring together all organisations involved in defining or using reference frames to develop common approaches and avoid duplication. Such organisations include FIG, the International Association of Geodesy (IAG), ISO, groups of national mapping agencies, other influential national agencies (such as the US Department of Defence's National Geospatial-Intelligence Agency (NGA), which is responsible for WGS84.) and alliances of commercial organisations (such as Open GIS Consortium and the European Petroleum Survey Group).
- Continue the existing co-operation with IAG on the African Reference Frame Project (AFREF) as well as facilitate similar actions on other continents such as South America and Asia.
- Provide background technical information on relevant issues written in a way that is accessible to the surveying practitioners.
- Develop an inventory of approaches to reference frame issues in different countries (including transformation methodologies) that is accessible to surveying practitioners.
- Examine the concepts of dynamic and semi-dynamic datums.
- Examine how surveying practitioners are changing how they access the reference frame, through less emphasis on networks of ground monuments and more emphasis on Global Navigation Satellite Systems (GNSS) base stations.
- Examine global positioning services such as OmniSTAR and StarFire and their use for positioning in a national reference frame
- Examine the increased use of GNSS for height determination as well as the use of geoid models for connection to local height datums.
- Examine the role that the satellite missions GRACE, GOCE and CHAMP will have on global geoid models
- Examine the increasing role of aerial and space based imagery in the realisation of reference frames.
- Liaise with Commission 4 to review and revise (where required) FIG Publication 37, Vertical Reference Surface for Hydrography

### Chair

Mikael Lilje (Sweden), e-mail: [mikael.lilje@lm.se](mailto:mikael.lilje@lm.se)

### Specific project(s)

- Initiate, contribute and facilitate meeting(s) of all organisations involved in defining or using (regional) reference frames to develop common approaches and avoid duplication.

- Continue development of Technical Fact Sheets that briefly explain basic concepts, practical applications and issues and which summarise the activities of organisations with specific responsibilities in the field.
- Ensure terminology used in above publications conform to and give substance to the relevant Standards coming from ISO TC211.
- Ensure that the working group web page is running and updated.

#### Workshop(s)

- Participation in FIG Working Weeks and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.
- Seminars and meetings involving key organisations involved in defining or using (regional) reference frames will be convened at a venue, time and date to be confirmed by the Working Group Chairs.
- Symposium on Applications of Permanent GPS/GNSS Networks. WG 5.2 and WG 5.3 event.

#### Publication(s)

- Web page
- FIG Working Weeks will include Technical Papers on specific issues and presented by Working Group Members and other invited experts.
- Technical Fact Sheets as outlined above.
- Working group final report will be presented at FIG Congress, 2010.

#### Timetable

- Draft publications will be presented at FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chairs.
- Working group final report: dedicated session, FIG Congress, 2010.

### **Working Group 5.3 – Integrated Positioning, Navigation and Mapping Systems**

#### Policy issues

While this is a new focus, it includes the topics covered by the previous Working Groups 5.3 and 5.4 (during 2002 to 2006) and extends to cover technology generally.

- Issues associated with ongoing and rapid developments in Integrated Positioning, Navigation, and Mapping systems, including performance and applications of such systems and guidelines for their use.
- Ensuring FIG input to planning associated with programs of GPS Modernisation and GNSS Development.

#### Co-Chairs

Andrew Hunter and Naser El-Sheimy (Canada), e-mail: ahunter@ucalgary.ca

#### Specific project(s)

- Report on the development, possibilities and limitations of new technologies.
- Prepare guidelines for practitioners on making the best use of systems to achieve the results required for particular applications.
- Develop FIG input to GPS Modernisation and GNSS Development.

- Collaborate with other Commissions and other international organisations (including IAG and ISPRS) and with equipment, software and service providers.
- Continue commitment to relevant inter-disciplinary events including the series of Symposia on Mobile Mapping (joint with IAG and ISPRS).

#### Workshop(s)

- Participation in FIG Working Weeks and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.

#### Publication(s)

- Guidelines on making the best use of emerging systems.

#### Timetable

- Draft publications will be presented at FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chair.
- Working group final report: dedicated session, FIG congress, 2010.

#### Beneficiaries

FIG member associations, manufacturers and users of survey equipment, governments, standardization organizations, decision makers, GIS developers and users, surveying businesses, individual surveyors.

### **Working Group 5.4 – GNSS – Global Navigation Satellite Systems**

#### Policy issues

- Cooperation with all organisation involved in the field of GNSS e.g. IAG and ISO.
- Maintaining contact with GNSS receiver and equipment manufactures to provide state-of-the-art information to the users.
- Cooperation with Commissions 3, 4, 6 and 8 regarding GNSS integration into GIS respectively GNSS for disaster risk management as well as GNNS applications in hydrography and engineering surveys..
- Providing technical GNSS background information on relevant issues for surveying practitioners via web pages, tutorials and workshops.
- Development of recommendations regarding procedures to check GNSS equipment.
- Contribute to FIG input to GPS modernisation and GNSS development
- Prepare the surveying profession for GNSS-mass-markets (e.g. Location Based Services, traffic applications,...) as well as required technologies (e.g. assisted GPS, car navigation technology).

#### Chair

Volker Schwieger (Germany), e-mail: volker.schwieger@iagb.uni-stuttgart.de

#### Study Groups

##### Study Group 5.4.1- Cost-effective GNSS

- Analysis of current “low-cost” GNSS markets (e.g. LBS, traffic) including additional necessary technologies like e.g. odometers, mobile phones
- Recommendations for surveyors to infiltrate these markets

- Development of methods to use “low-cost” GPS for precise applications
- Report on cost-effective GNSS

#### Study Group 5.4.2 – GNSS networks (together with WG 5.2)

- Analysis and review of GNSS network technologies for practitioners
- Analysis of the importance of site calibrations of permanent networks
- Analyse and compare different commercial and non-commercial GNSS networks
- Organise Workshops(s) on GNSS networks

#### Study Group 5.4.3 – Precise GNSS

- Develop and publish methods for GNSS heighting
- Develop and publish investigations regarding the GNSS/tachometer combinations
- Contact with GNSS equipment manufacturers
- Provide newest technical background information to the practitioners
- Develop input to discussions on GPS modernisation and GNSS development, e.g. through the UN mandated International Committee on GNSS (ICG).

#### Study Group 5.4.4 – GNSS calibration and check (together with WG 5.1)

- Development of procedures and recommendations for checking GPS equipment
- Recommendations for the calibration of GPS antennas and permanent GPS sites
- Cooperation with standard organisations (e.g. ISO)
- Organisation of scientific workshops and tutorials for practitioners
- Discussion with GNSS equipment manufacturers about procedures

#### Workshops

- Participation in FIG Working Weeks, Regional Conferences as well as other major Commission 5 events in special technical sessions
- GNSS tutorials (fundamentals and practice relevant information, possibly including practical training) e.g. at Working Weeks and Regional Conferences in cooperation with local organizers, especially for “surveying practitioners”
- International Workshop on GNSS for Practitioners (engineering geodesy companies, state survey, cadastral administration) together with all Working Groups of Commission 5 and partners like IAG or the Institute of Navigation where appropriate.
- Specialised International Workshops on GNSS calibration (antenna, site, multipath) and on GNSS networks (together with WG 5.2).

#### Publications

- Technical Papers at Working Weeks, Regional Conferences and Commission 5 Symposia and Workshops
- Recommendations for Calibration of GPS antennas and Check of GPS Measurement Systems (together with WG 5.1 and relevant institutions like e.g. ISO).
- Report on possibilities of cost-effective GNSS techniques for developing countries.

#### Timetable

Report and recommendations should be presented (and published) on next FIG Congress 2010.

## **6. Co-operation with Other Commissions**

Commission 6.

## **7. Co-operation with United Nation Organisations, Sister Associations and other Partners**

Commission 5 is the lead Commission for FIG's Memorandum of Understanding with the United Nations Office for Outer Space Affairs. GNSS will be the focus of cooperative activities from 2007 to 2010.

Commission 5 is also committed to cooperation with Sister Associations, especially those with which FIG has a Memorandum of Understanding. Commission 5 has specific liaison interest with the International Association of Geodesy (IAG) and the International Society for Photogrammetry and Remote Sensing (ISPRS). The Commission 5 Steering Committee will ensure that Working Group activities and Commission 5 events further these goals of cooperation with Sister Associations.

Commission 5 is also committed to the new Cooperation Agreement with the US based Institute of Navigation (ION) and will undertake activities as agreed with ION, especially in relation to GNSS.

## **8. Commission Officers**

### **Commission Chair**

Prof. Dr.-Ing. Rudolf Staiger  
Fachbereich Vermessung und Geoinformation  
University of Applied Sciences Bochum  
Lennerhofstrasse 140  
D-44801 Bochum  
GERMANY  
Tel. + 49 234 32 10547  
Fax + 49 234 32 14735  
E-mail: rudolf.staiger@fh-bochum.de

### **Vice Chair of Administration**

Rob Sarib  
Manager Survey Services – Darwin  
Land Information – Office of the Surveyor General  
Dept. Planning and Infrastructure  
GPO Box 1680  
Darwin  
Northern Territory 0801  
AUSTRALIA  
Tel. + 61 8 8999 6081  
Fax + 61 8 8999 7750  
E-mail: robert.sarib@nt.gov.au

### **Chair of Working Group 5.1**

David Martin  
Alignment and Geodesy Group  
ESRF  
6 rue Jules Horowitz  
BP220  
38043 Grenoble Cedex  
FRANCE  
Tel. + 33 4 76 88 22 45  
Fax + 33 4 76 88 23 13  
E-mail: martin@esrf.fr

### **Chair of Working Group 5.2**

Mikael Lilje  
Head of Reference Frame Section  
Geodetic Research Division  
Lantmäteriet  
SE-801 82 Gävle  
SWEDEN  
Tel. + 46 26 633 742  
Fax + 46 70 208 95 71  
E-mail: mikael.lilje@lm.se

### **Co-Chairs of Working Group 5.3**

Andrew Hunter  
Department of Geomatics Engineering  
The University of Calgary  
2500 University Dr. N.W. Calgary,  
Alberta  
CANADA T2N 1N4  
Tel. + 1 403 220 7377  
Fax + 1 403 284 1980  
E-mail : ahunter@ucalgary.ca

Dr. Naser El-Sheimy  
Department of Geomatics Engineering,  
The University of Calgary  
2500 University Dr. N.W. Calgary  
Alberta  
CANADA T2N 1N4  
Tel. + 1 403 220 7587  
Fax + 1 403 284 1980  
E-mail: naser@geomatics.ucalgary.ca

### **Chair of Working Group 5.4**

Dr.-Ing.habil. Volker Schwieger  
University Stuttgart  
Institute for Applications of Geodesy to Engineering  
Geschwister-Scholl-Strasse 24D  
D-70174 Stuttgart  
GERMANY  
Tel. + 49 711 685 84064  
Fax + 49 711 685 84044  
E-mail: volker.schwieger@iagb.uni-stuttgart.de

10 March 2007

## Commission 6 – Engineering Surveys Work Plan 2007–2010

### 1. Title

Engineering Surveys

### 2. Terms of reference

- Acquisition, processing and management of topometric data and all related information throughout the life cycle of a project (at construction site);
- Quality control and validation for civil engineering constructions and manufacturing of large objects;
- Modern concepts for setting-out and machine guidance;
- Deformation monitoring, analysis and interpretation, measurement of dynamic loaded structures (general);
- Prediction of deformation and movements in engineering projects, mines and areas of geological hazard;
- Automatic measuring systems, construction and industry and multi-sensor measuring systems;
- Terrestrial laser systems, their usage in architecture, civil engineering and industry;
- Quality control at the construction site;
- Standards related to construction and deformation measurement.

### 3. Mission statement

- Promote the knowledge, skills and abilities of surveyors in civil and industrial works within the various professional fields of engineering;
- Support all development and multidisciplinary expertise leading to integrated survey methods, using various instruments and sensors and combining geometry with all other data relevant to each engineering problem;
- Provide a forum for exchange of knowledge related to engineering analysis of survey data for the study of structures;
- In addition to the links with related Working Groups of the International Association of Geodesy (IAG), the International Society for Mine Surveying (ISM) and the International Society for Photogrammetry and Remote Sensing (ISPRS), look for possible co-operation within these organisations and support the co-operation of civil, structural and mechanical engineers with our profession;

### 4. General

In addition to the specific activities in the Mission Statement, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## 5. Working Groups

This Working Plan covers a wide scale of survey disciplines related to installations, plants and constructions of any kind.

### Working Group 6.1 – Deformation Measurement and Analysis

#### Policy issues

- Automation of monitoring surveys
- Enhancement of geometrical modelling of deformations from integrated deformation surveys
- Physical interpretation of deformations including numerical modelling and prediction of deformations and back analysis.

#### Chair

Stathis Stiros (Greece), e-mail: stiros@upatras.gr

Vice-Chair: Cecilia Whitaker (USA), e-mail: cwhitaker@mwdh2o.com

#### Specific project(s)

Regular symposia and exchanges between researchers and concerned professionals.

#### Workshop(s)

- 13th International Symposium on Deformation Measurements, Lisbon, Portugal, 12-15 May 2008
- 14th International Symposium on Deformation Measurements, Australia, 2009
- Contributions to various joint meetings and FIG Working Weeks

#### Publication(s)

Proceedings of the meetings (by the host).

#### Beneficiaries

Geodetic engineers dealing with comparative measurements of deformed or unstable objects, geologists, geophysicists, and civil and structural engineers concerned with this issue.

### Working Group 6.2 – Engineering Surveys for Industry and Research

#### Policy issues

Engineering surveys in industry and research demand ultimate quality to be realised in ever-shorter time slots and under spatially most limited conditions. WG2's main goal is to provide the specialists involved in that kind of missions with the latest state of the art concerning:

- The use of adapted survey techniques in industry & engineering;
- Multidisciplinary collaboration between survey engineers, civil engineers, structural & mechanical engineers, R&D scientists - for a better approach of complex engineering survey problems;
- Specific algorithms, instrumentation, equipment and techniques in engineering surveys;
- High precision measurements and special techniques for the large scale metrology of big equipment or structures;

- Integration of survey & alignment sensors with actuators and/or tools for on-line monitoring and control of a given process (dynamic systems);
- Relevant modules for the 'Optical 3D Measurement Techniques' series.

Chair:

Thomas Wunderlich (Germany), e-mail: Th.Wunderlich@bv.tu-muenchen.de

Vice-Chair:

Peter Kyrinovic (Slovakia), e-mail: peter.kyrinovic@stuba.sk

Specific project(s)

- Engineering surveying procedures for power plants;
- Engineering surveying procedures for linear and circular accelerators;
- Engineering surveying procedures for nuclear research facilities;
- New techniques for as-built documentation and facility inventory;
- Industrial metrology in production, assembling and finishing processes;
- In-situ calibration of industrial robots.

Workshop(s)

- Tutorials as part of the "International Course for Engineering Surveying", Graz (Austria), 2007
- INGEO 4<sup>th</sup> International Conference on Engineering Surveying, Slovakia 2008
- Contributions to the FIG Working Weeks and to FIG Congress
- Specific seminars or workshops on dedicated topics.

Publication(s)

Proceedings of the meetings (by the host).

Beneficiaries

- Dialogue with manufacturers to realise competent consumer wishes;
- Advising optimal instrument for each special application of a mission catalogue;
- Development of suitable planning tools for extensive scanning tasks;
- Software improvements to increase variety of best-fitting objects;
- Monitoring of CAD-SW behaviour under heavy scanning data load;
- Expansion of application fields.
- The surveyors, designers and manufacturers are waiting to acquire more expertise in these special applications.
- The group of professional which have the benefit of the results consist of engineers dealing with quality control of large objects or structures, scientific laboratories dealing with particle accelerators and detectors, fusion rings, gravitational antennas, power lasers, etc., scientists and engineers dealing with large scale metrology and accurate positioning in R&D sectors or in industry, finally universities and manufacturers involved in the development of special instruments.

## **Working Group 6.3 – Engineering Survey Data Bases and Facility Management**

### Policy issues

- Focus on the role of the surveying engineer as the responsible manager of spatially referenced information;
- Support for the co-ordination of the activities of other disciplines.

### Chair:

Lothar Gründig (Germany), e-mail: gruendig@inge3.bv.tu-berlin.de

Vice-Chair: Vladimir Sereдовich (Russian Federation), e-mail: sva@ssga.ru

### Specific project(s)

- Concepts of data models for the Mapping of relevant 4D or 5D project data, covering 3D geometry, time, and descriptive attributes;
- Exchange, provision and presentation of facility management data in computer networks;
- Data integration for this subject, taking into accounts the presence of redundant data and different sources of information;
- The automation and combination of feasible data acquisition techniques.

### Workshop(s)

- Workshop on Engineering Survey Data Bases and Facility Management, DDMM 200x, Berlin, Germany
- FIG Working Weeks
- Sessions and contributions to joint seminars, workshops and symposia.

### Publication(s)

Proceedings of the meetings (by the host).

### Beneficiaries

Surveying engineers, engineers and managers involved in facility management tasks.

## **Working Group 6.4 – Engineering Surveys for Construction Works and Structural Engineering**

### Policy Issues

- Promoting the use of adapted survey techniques in industry & engineering;
- Promoting a multidisciplinary collaboration between survey engineers, civil engineers, structural & mechanical engineers;
- Promoting the understanding of fibre optic sensors, e.g. interferometric sensors;
- Study the use of embedded sensor arrays and the role of advanced surveying techniques for structural monitoring;
- Creating an awareness of surveyors through a task force 'Fibre optic sensors' of the rapidly emerging technology of fibre optic sensors as "non-geodetic" sensors to measure deformations (strain) and temperatures in civil engineering structures

### Chair:

Gethin Wyn Roberts (United Kingdom): gethin.roberts@nottingham.ac.uk

Vice-Chair: Joël Van Cranenbroeck (Switzerland), e-mail: joel.vancranenbroeck@leica-geosystems.com

### Specific Projects

- Precise methods and equipment for staking out during construction and structural works;
- QC and documentation for as build compared to as designed;
- Precise methods and equipment for engineering surveys for visualisation and photo match;
- Precise methods and equipment for remote surveys;
- Dynamic Monitoring of Buildings and Structures;
- Offshore construction surveys.

### Workshops

- Regular symposia and exchanges between researchers and concerned professionals
- Tutorials as part of the “*International Course for Engineering Surveying*”, Graz (Austria), 2007
- Workshop on Automatic and multi-sensor Measuring Systems, 2009
- Contributions to various joint meetings and FIG events.

### Publications

- Proceedings of the meetings (by the host)
- Web page

### Beneficiaries

- Surveying profession becoming involved in this developing technology which will partly replace current geodetic techniques;
- Surveyors wanting to acquire information about fibre optic sensors as used in "smart civil engineering structures";
- Engineers who has to decide about the best techniques to monitor civil Engineering structures;
- Universities teaching advanced sensor technology.
- Engineering surveyors and engineers involved with construction and setting out will benefit, as well as structural engineers, current buildings and future building designs.

## **Working Group 6.5 – Terrestrial Laser Scanners (Joint with Commission 5)**

### Policy Issues

- Promote the use of laser scanning for geometric documentation in a variety of environments, particularly high risk and environments which benefit of remote measurements (eg structures, slopes, underground surveys, structural deformations of cultural heritage monuments);
- Investigate existing and developing terrestrial laser scanner instrumentation for engineering applications;
- Evaluate and compare algorithms for processing terrestrial laser scanner data (e.g. registration, surface modelling etc);
- Investigate and document metrological and quality control issues for laser scanning measurements;

- Investigate the integration of laser scanning measurements with other measuring techniques, such as conventional geodetic systems and photogrammetric techniques;

#### Chair:

Maria Tsakiri (Greece) e-mail: mtsakiri@central.ntua.gr

Vice-Chair: Rudolf Staiger (Germany), e-mail: rudolf.staiger@fh-bochum.de

#### Specific Projects

- Methods and equipment of terrestrial laser scanning for engineering surveying procedures;
- Create standardised terrestrial laser data sets to allow comparison between different software and processing methods;
- Calibration aspects for indoor and outdoor testing of terrestrial laser scanner instrumentation;
- Methods for combining terrestrial laser scanners with other sensors, eg CCD cameras, and integrating their data.

#### Workshops

- Regular symposia and exchanges between researchers and concerned professionals
- Tutorials as part of the “International Course for Engineering Surveying”, Graz (Austria), 2007
- Workshop on Laser Scanning, November 2007
- Contributions to various joint meetings and FIG events
- Contribution to the ‘Optical 3D Measurement Techniques’ conference series
- Contribution to meetings of the ISPRS Working Group V/3 “Terrestrial Laser Scanning”.

#### Publications

- Proceedings of the meetings (by the host)
- Web page

#### Beneficiaries

- Surveying profession becoming involved in this developing technology;
- Engineers and other professionals involved in the cultural heritage sector wishing to record and monitor structures of engineering and cultural heritage importance;
- Manufacturers involved in the development of terrestrial laser scanners to consider needs of users;
- Users requiring calibration aspects of terrestrial laser scanners.

## **5. Study Groups**

### **Study Group 1 – Continuum Mechanics as a Support for Deformation Monitoring, Analysis and Interpretation**

Chair: Anna Szostak -Chrzanowski (Canada); Co-chair: W. Prószyński (Poland)

### **Study Group 2 – Optimal Use of Interferometric Synthetic Aperture Radar (InSAR)**

Chair: Chris Rizos (Australia); Co-chair: tba

### **Study Group 3 – Crustal Deformation**

Chair: Stathis Stiros (Greece); Co-chair: tba

### **Study Group 4 – Monitoring and Analysis of Cyclic Deformations and Structural Vibrations**

Chair: Gethin Wyn Roberts (UK); Co-chair: Philip Collier (Australia)

### **Study Group 5 – Fibre Optic Sensors**

Chair: Helmut Woschitz (Austria); Co-chair: tba

### **Study Group 6 – Terrestrial-Based RF Positioning Technologies**

Chair: Joel Barns (Australia); Co-chair: Xiaolin Meng (UK)

## **6. Co-operation with Sister Associations**

Commission 6 intends to continue co-operation with sister associations, especially The International Association of Geodesy (IAG). Further more The International Society for Mine Surveying (ISM) and the International Society for Photogrammetry and Remote Sensing (ISPRS) are of interest.

## **7. Communications**

Commission 6 will use general the commission web page with linkages to other relevant web pages to keep commission delegates, other FIG members and the public informed.

Commission 6 will provide an annual newsletter with input from the working groups. This will be distributed by e-mail.

## **8. New partnerships**

Commission 6 will try to support the developed partnership with ISM and the IAG Special Commission 4. New partnership could be developed with ISPRS according the increasing input of laser scanning (terrestrial and airborne) to the engineering survey projects.

## **9. Calendar of events**

### **2007**

- Tutorials as part of the “*International Course for Engineering Surveying*”, Graz, Austria
- INGEO 4<sup>th</sup> International Conference on Engineering Surveying, Bratislava, Slovakia
- FIG Working Week, Hong Kong SAR, China, 13-17 May 2007
- Optical 3D Measurement Techniques, Zurich, Switzerland.

### **2008**

- 13th International Symposium on Deformation Measurements, Lisbon, Portugal, 12-15 May 2008
- FIG Working Week, Stockholm, Sweden, 14-19 June 2008

## **2009**

- 14th International Symposium on Deformation Measurements, 2009, Australia
- FIG Working Week, Eilat, Israel, 3-8 May 2009
- Workshop of the Working Group 6.4
- Workshop on Engineering Survey Data Bases and Facility Management

## **2010**

- FIG Congress, Sydney, Australia, 9-16 April 2010

## **10. Commission officers**

### **Commission Chair**

Alojz Kopáček, Prof., PhD.  
Dean of the Faculty  
Faculty of Civil Engineering  
SUT Bratislava  
Radlinského 11  
SK-813 68 Bratislava  
SLOVAKIA  
Tel. + 421 2 5927 4559  
Fax + 421 2 5296 7027  
E-mail: [alozj.kopacik@stuba.sk](mailto:alozj.kopacik@stuba.sk)

### **Vice Chair of Administration, Commission secretary and Chair of WG 6.5 – Terrestrial Laser Scanners (Joint with Commission 5)**

Dr Maria Tsakiri, Ass. Professor  
School of Surveying Engineering  
National Technical University of Athens  
9 Polytehnou Street, Zografos Campus  
Athens 15780  
GREECE  
Tel. + 30 210 772 2735  
Fax + 30 210 772 2728  
E-mail: [mtsakiri@central.ntua.gr](mailto:mtsakiri@central.ntua.gr)

### **Vice Chair and Chair of WG 6.1 - Deformation Measurement and Analysis**

Dr. Stathis C. Stiros  
University of Patras  
Geodesy Lab., Dept. of Civil Engineering  
University Campus, 26500  
Patras  
GREECE  
Tel. + 30 2610 996 511  
Fax + 30 2610 997 877  
Email: [stiros@upatras.gr](mailto:stiros@upatras.gr)

Vice-chair: Cecilia Whitaker (USA), e-mail: [cwhitaker@mwdh2o.com](mailto:cwhitaker@mwdh2o.com)

**Vice Chair and Chair of WG 6.2 - Engineering Surveys for Industry and Research**

Univ. Prof. Dr.-Ing.habil. Thomas A. Wunderlich

Ordinarius für Geodäsie an der TUM

Arcisstrasse 21

D-80290 Munich

GERMANY

Tel. + 49 89 289 22851

E-mail: Th.Wunderlich@bv.tu-muenchen.de

Vice-chair: Peter Kyrinovic (Slovakia), e-mail: peter.kyrinovic@stuba.sk

**Vice Chair and Chair of WG 6.3 - Engineering Survey Data Bases and Facility Management**

Prof. Lothar Gründig

TU Berlin

Institut für Geodäsie und Photogrammetrie

Secretariat H 20

Strasse des 17 Juni 135

D-10623 Berlin

GERMANY

Tel. + 49 30 314 22375

Fax + 49 30 314 21119

E-mail: gruendig@inge3.bv.tu-berlin.de

Vice-chair: Vladimir Seredovich (Russian Federation), e-mail: sva@ssga.ru

**Vice Chair and Chair of WG 6.4 - Engineering Surveys for Construction Works and Structural Engineering**

Dr. Gethin Wyn Roberts

The University of Nottingham

Institute of Engineering Surveying and Space Geodesy

University Park

Nottingham NG7 2RD

UNITED KINGDOM

Tel. + 44 155 951 3933

Fax + 44 155 951 3881

E-mail: gethin.roberts@nottingham.ac.uk

Vice-chair: Joel VanCranenbroek (Switzerland), e-mail: joel.vancranenbroeck@leica-geosystems.com

## **Study Group Chairs**

*Study Group 1 – Continuum Mechanics as a Support for Deformation Monitoring, Analysis and Interpretation*

Chair: Anna Szostak -Chrzanowski (Canada); Co-chair: W. Prószyński (Poland)

*Study Group 2 – Optimal Use of InSAR*

Chair: Chris Rizos (Australia)

*Study Group 3 – Crustal Deformation*

Chair: Stathis Stiros (Greece)

*Study Group 4 – Monitoring and Analysis of Cyclic Deformations and Structural Vibrations*

Chair: Gethin Wyn Roberts (United Kingdom)

*Study Group 5 – Fibre Optic Sensors*

Chair: Helmut Woschitz (Austria)

*Study Group 6 – Terrestrial-Based RF Positioning Technologies*

Chair: Joel Barns (Australia)

10 March 2007

## **FIG Commission 7 – Cadastre and Land Management Work Plan 2007-2010**

### **1. Title**

Cadastre and Land Management

### **2. Mission**

- 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, land administration;
- To promote awareness of the role of surveyors in land administration matters to the public and among stake holders.

### **3. Terms of reference**

Until today many countries have developed their own cadastral system, in many cases with colonial roots. The one operates deed registration, the other title registration, some are based on fixed boundaries, some on general boundaries, some systems are centralised and others decentralised. Many systems do not perform optimally or failed to perform in a way that benefits all of the people. Looking at it from a little distance one can observe that the systems are in principle mainly the same: they are all based on the relationship between persons and land, via rights and are in most countries influenced by developments in Information and Communication Technology (ICT). The two main functions of every cadastral system are: 1. Keeping the contents of these relationships up-to-date (based on legal or customary transactions) in a cadastral or land registration system and 2. Providing information on these registrations.

Commission 7 deals with land administration; “the process of determining, recording and disseminating information about the ownership, value and use of land when implementing land management policies” (ref. UNECE Land Administration Guidelines 1996).

“Ownership” should be seen as a broad concept of land tenure within various jurisdictions (statutory, customary, informal, etc.) “Land” includes constructions at subsurface level, ground level and above land level (e.g. buildings).

Furthermore Commission 7 deals with land management, which is the implementation of land policy, by a wide range of land policy instruments (e.g. land reform, land consolidation, land markets, land taxation, marine resource management).

In terms of “key words” Commission 7 deals with:

- land management and land administration
- cadastres, land registers
- cadastral reform
- land policy, land reform, land taxation
- land tenure
- land law and land related laws
- sustainable land administration
- pro poor land management and land administration
- cadastral surveying and mapping
- land registration
- land administration in post conflict areas
- disaster management and land administration
- customary and group rights
- informal settlements
- public private partnership in land administration
- land policy and land policy instruments
- land consolidation
- land valuation and taxation
- land markets
- land reform, land privatisation and land redistribution
- innovative technology in land administration
- low cost surveying and mapping
- land and marine resource management

## **4. General**

### **4.1 Preface**

Commission 7 established its concept of activities about 15 years ago. It is in line with the FIG long term professional strategy and selected key topics to deal with:

- advanced cadastre
- developing land administration
- creating secure land tenure
- application of innovative, advance technology in land administration

All topics are related to land administration matters. Developing, modernising land administration has been an increasing demand by developed and developing countries worldwide for many years.

During the last decade many new challenges have appeared – increasing focus on sustainable development, post conflict problems (civil wars, tribal conflicts, etc.) increasing number of disasters, increasing gap between developed and developing world, rapid urbanisation in the developing world, etc. All of the above challenges connected to land and property related activities. The profession has to find answer and solutions.

Several of the above challenges are being handled by existing cadastral, land management and land administration institutions, some of the existing institutions have not adapted to the

challenges or been developed in an adequate manner. In bringing solutions to the 21<sup>st</sup>. Centuries' land and property related challenges, Commission 7 therefore believes that a future oriented focus from the surveying profession is essential. The surveying profession must play an ever central role in the development and modernisation of cadastre, land management and land administration. The ultimate goal is to make land administration the proper infrastructure for sustainable development and to make land administration institutions develop sustainable solutions through land related activities.

Achieving the Commission 7 concept and goals will continue to involve efforts over a long period; therefore the Commission wants to continue its professional work, which was successful over the passed years. Of course there needs to be some changes and new priorities have to be defined based on the last four years experience.

Following the overall FIG strategy, Commission 7 intends to:

- Continue its effort focusing on countries in Africa, Latin America, Asia, Middle East, CEE and providing a meeting place as well;
- Strengthen working relations cooperation with other FIG Commissions;
- Continue cooperation with UN Organisations and Agencies;
- Find possibilities to cooperate with other professional organisations, NGOs, Dutch Cadastre, ITC, etc;
- Provide and disseminate information to the profession, national associations and authorities to develop and establish land administration systems;
- Support the needs in different regions.

#### **4.2 Commission 7 Work Plan in Relation to FIG Professional Strategy**

Following Commission 7 tradition the work plan will support the achievement of FIG goals:

- extending working cooperation with other commissions;
- to continue and extension of working relation with UN organisations, World Bank, agencies and other organisations;
- to contribute to organise joint workshops, events wit UN and other external organisations;
- to contribute to formulate the professional program for FIG congresses and working weeks;
- supporting regional events, workshops to promote FIG activities in general and new priorities of the surveyor profession;
- to encourage national delegates, representatives to participate in FIG events and disseminate information to national associations and professionals;
- to support the publication of working results;
- following the traditions, Commission 7 contribute to the major FIG events, congresses, working weeks;
- to encourage member associations and national delegates from Asia, Africa, Latin America and Eastern Europe to participate in Commission 7 and major FIG events.

### 4.3 Objectives

There are many fields of interest for Commission 7 related to land administration, Cadastre and land management matters. To achieve realistic results in the 2007-2010 period we have to prioritise the most important issues based on the Commission 7 activities during the past years, recent developments, challenges concerning land related matters world wide and priorities supported by UN and other professional organisations and NGOs.

As a new development in FIG activity, Commission 7 intends to find possibilities to form working relation with the UN Habitat Global Land Tool Network, GLTN.

Important issues selected:

- Pro poor land management and land administration
  - land administration and land management in customary and informal areas
  - low cost data acquisition (geometric, legal) registration and mapping
  - low cost, innovative tools for land management and land administration
- Sustainable land administration supporting good governance
  - how can we develop sustainable land administration in so-called developing countries within a framework of land policies
  - how can we keep sustainability of land administration in so called developed countries
- Land administration in post conflict areas
  - how is possible to create, rebuild land administration after conflicts
  - approaches in redistribution of land in post conflict areas
- Disaster management and land administration
  - relation between land administration and disaster management
- Economic land use and land use control
  - supporting how to create economic land use
  - how to manage land use and informal urbanisation in developing countries
- Land administration and land management in the marine environment
  - how to develop marine cadastre
  - how to support coastal zone management
- Innovative technology and ICT support in land administration and land management
  - how to extend land administration with 3D cadastre and land registry
  - how to develop innovative, low cost technology to support pro poor land management and land administration
    - national and international data infrastructure initiatives
    - ICT support to develop sustainable land administration (standardisation, interoperable systems)
    - sustainable capacity building for land administration
- Institutional aspects for land administration and land management
  - how to the support the development of institutional framework for land administration, land management

Commission 7 intends to address the selected issues in various ways within FIG and in cooperation with other organisations:

- Commission 7 working groups
- Presenting papers, lectures during FIG and joint events
- Working cooperation with other FIG commissions

- Working relation with UN and other organisations
- Providing a documentation centre OICRF

## **5. Working Groups**

### **Working Group 7.1 – Development of Pro Poor Land Management and Land Administration**

#### Terms of reference

- recognise and support the development of pro poor land management approaches
- communicate, as far as possible, the FIG concepts in development of land policy and land management: land law, land tenure and security of tenure, land markets, land taxation, land use planning, land reform, land redistribution, post conflict land administration
- identify (geometric) aspects related to social, informal land tenures
- support the development of low cost, innovative, data acquisition methods
- develop the social tenure domain model
- contribute to the UN Habitat Global Land Tool Network (GLTN)
- propose a capacity building approach for pro poor land management

#### Chair

Christiaan Lemmen (The Netherlands), e-mail: lemмен@itc.nl

### **Working Group 7.2 –Land Administration to Support Sustainable Development**

#### Terms of reference

- investigate the necessary legal and institutional framework for the creation and development of sustainable development
- identify other conditions for developing sustainable land administration
- study solutions for developing land administration in post conflict areas
- find simple, low cost solutions for creating sustainable land administration in developing countries
- investigate improvements of land tenure security through new legal frameworks and new and better administrative tools
- focus on solutions to combine formal land delivery process and customary approaches (neo-customary) land delivery process
- study the role of gender-issues in creation of sustainable land administration development
- analyse sensible forms of land taxation for funding land reform and upgrading programmes
- identify and find solutions of assisting post conflict areas, disaster areas, etc. in rebuilding and maintain land administration after war and catastrophe of nature

#### Chair

Søren Christensen (Denmark), e-mail: sfc.@kms.dk

## **Working group 7.3 – Application of Innovative Technology in Land Administration**

### Terms of reference

- electronic conveyance and governance
- identify innovative and low cost technology to support the development for pro poor land management, land administration
- identify innovative, advance technology for sustainable land administration
- dealing with standards
- focus on copyright and fee questions
- dealing with identification and defining parcel boundaries
- focus on national and international data infrastructure initiatives
- 3D cadastre, land registry

### Chair

Daniel Steudler (Switzerland), e-mail: Daniel.Steudler@swisstopo.ch

## **6. Cooperation with other FIG Commissions**

- 3D Cadastre , land registry joint working group with Commission 3
- Coastal zone management, marine cadastre with Commission 4 and 8
- Low cost, effective survey technology and techniques for developing countries, with Commission 5
- Urban- rural inter relationships, defining formal and informal tenure, property rights, joint working group with Commission 8 lead by Commission 8
- Education, capacity building with Commission 2
- Commission 9 formed Working Group 9.2 “Improving Slum Conditions through Innovative Financing.” As an FIG issue Commissions 3, 7, 8, 10 will participate in the work. Within Commission 7 Working Group 7.1 is responsible for the topic, Tommy Österberg is the Commission 7 representative.

## **7. Cooperation with the United Nations Organisations and Agencies**

Commission 7 will continue cooperation with UN organisations, including UN-Habitat, UN Food and Agriculture Organisation (UN FAO) and the UN Economic Commission for Europe’s Working Party on Land Administration (UNECE/WPLA).

## **8. Cooperation with other Professional Organisations**

Commission 7 will work in co-operation with the Dutch Cadastre, ITC and Institution of Geodesy, Cartography and Remote Sensing (FÖMI).

## **9. Communications**

The secretariat of the commission will maintain the Commission 7 web site and keep delegates, correspondents, friends informed primarily via e-mail.

## **10. Commission 7 Annual Meetings and Events**

According to the consensus among the commission delegates to hold annual meetings separately from the major FIG events, Commission 7 intends to continue its traditions for organising annual meetings. Until now Korea will host the annual meeting in 2007 and Verona, Italy in 2008.

## **11. Events Calendar**

### 2007

- Commission 7 Annual Meeting, Seoul, Republic of Korea, 19-23 May 2007
- FIG Working Week 2007, Hong Kong SAR, China, 13-17 May 2007
- Contribution to GeoCongress Quebec 2007, Quebec City, Canada, 2-5 October 2007
- FIG Regional Conference, San José, Costa Rica, 12-15 November 2007

### 2008

- Commission 7 Annual Meeting Verona, Italy
- FIG Working Week Stockholm, Sweden, 14-19 June 2008

### 2009

- Commission 7 Annual Meeting
- FIG Working Week, Eilat, Israel, 3-8 May 2009

### 2010

- Commission 7 Annual Meeting
- FIG Congress Sydney, Australia, 9-16 April 2010

## **12. Commission Officers**

### **Commission Chair**

Mr. András Osskó  
Fővárosi Földhivatal  
1051 Budapest  
Sas u 19  
Tel. + 36 1 354 2967  
Fax + 36 1 354 2952  
E-mail: foldmeresv@foldhiv.hu

### **Vice Chair of Administration**

Mr. Gyula Iván  
E-mail: ivan.gyula@fomi.hu  
Tel. +36 1 460 4081

### **Commission 7 Secretariat**

Mrs. Mária Tóth, Assistant  
E-mail: Maria.Toth@fvm.hu  
FIG Commission 7 Secretariat  
c/o Institute of Geodesy Cartography and Remote Sensing  
1592 Budapest  
Pf. 585  
Tel. +36 1 222 5101  
Fax: +36 1 222 5112

**Vice Chair and Chair of WG 7.1 – Development of Pro Poor Land Management and Land Administration**

Mr. Christiaan Lemmen  
Cadastre and Public Registers Agency  
P.O. Box 9046  
NL-7300 GH Apeldoorn  
THE NETHERLANDS  
Visiting address: Jean Monnetpark 1, 7336 BA Apeldoorn  
Tel. + 31 55 528 5634  
Fax + 31 55 355 7362  
E-mail: lemмен@itc.nl

**Vice Chair and Chair of WG 7.2 – Development Sustainable Land Administration to Support Sustainable Development**

Mr. Søren Fauerholm Christensen  
National Survey and Cadastre Denmark  
Rentemestervej 8  
DK-2200 Copenhagen NV  
DENMARK  
Tel. + 45 3587 5616  
Fax + 45 3587 5050  
E-mail: sfc@kms.dk

**Vice Chair and Chair of WG 7.3 – Application of Innovative Technology in Land Administration**

Dr. Daniel Steudler  
Eidg. Vermessungsdirektion  
Swiss Federal Directorate of Cadastral Surveying  
Seftigenstrasse 264  
CH-3084 Wabern  
SWITZERLAND  
Tel. + 41 31 963 2413  
Fax + 41 31 963 2297  
E-mail: Daniel.Steudler@swisstopo.ch

## **FIG Commission 8 – Spatial Planning and Development Work Plan 2007-2010**

### **1. Title**

Spatial Planning and Development

### **2. Terms of Reference**

- Regional and local structure planning
- Urban and rural land use planning
- Planning policies and environmental improvement
- Land use planning and implementation
- Public-private partnerships
- Informal settlement issues in spatial development, planning and governance
- Re-engineering mega cities
- Strategy for Environmental Sustainable Development
- Inter-relationship between

### **3. Mission Statement**

The activities of Commission 8 in the years 2007-2010 will involve all levels of physical planning, which enable environmentally sustainable development to occur.

Physical planning establishes the ‘ground rules’ for environmentally sustainable development at all planning levels and including all actors (government, private sector and public/private partnership). Traditionally the surveyors’ role is most visible in implementation of plans and therefore Commission 8 will have more focus on issues that are closely related to the core disciplines of the profession.

The Commission 8 will assist in building the capacity of knowledge via case studies, workshops, collaboration and consultation thus contributing in a positive way to environmentally sustainable development and living conditions of humans in a changing globalised world.

### **4. General**

Surveyors have a key professional role in the application and implementation of planning and development for community living. The strategy today incorporates the importance of the environment and the requirement for environmentally sustainable developments (ESD) to be a foundation of the habitat for the future generations. This planning strategy for urban development and regeneration provides opportunities for surveyors.

The re-engineering of mega cities as a place for people and the provision and location of infrastructure services involves all levels of government and private sector to provide and deliver outcomes.

The rising sea levels via climate change are particularly challenging for urban planning in coastal regions. Surveyors can contribute to better understanding the potential impact on coastal settlements development and to the adoption of policies to meet these new challenges.

Informal settlements can benefit from contribution by surveyors in the area of planning and governance.

In the period of 2007-2010 the focus of Commission 8 will be:

- Establish a focus for all parties involved in environmentally sustainable planning and implementation;
- Develop guidelines, methods, governances and best practice at the global level;
- This Commission will reflect the holistic skills found within planning and development of built environment;
- Commission emphasises that we, as surveyors and built environment experts have a leadership role in the collective responsibility for well-functioning mega cities;
- The Commission recognises the three pillars of ESD. i.e. balancing the competing development demands associated with economic, social and environmental aspirations. Further, the integrating activities of FIG allow for adoption of a holistic approach to problem solving in the built environment;
- Focussing on surveyors' role in implementation of plans and the interaction between planning and real estate economics.

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## **5. Working Groups**

### **Working Group 8.1 – Planning Strategy for Urban Development and Regeneration**

#### Policy Issues

- Planning urban development and regeneration and economic impacts
- The role of Partnerships and Urbanization process is a role for surveyors in moving towards sustainability in urban development/community living for people and places.

#### Chair

Dr. Lillian S.C. Pun, Associate Professor  
The Hong Kong Polytechnic University, Hong Kong SAR, China  
E-mail: lspun@polyu.edu.hk

#### Specific Projects

- Identify a planning framework, which enables public-private partnership (PPP) to deliver tools for urbanization
- Investigate key roles for surveyors within urban regeneration

- Review the Hong Kong policy frameworks for recommendations of best practice and education requirements for implementation.

This will be a joint Working Group with Commission 7.

#### Workshops

- Develop a series of special papers for the FIG Working Weeks
- To organise a round table discussion at Working Week 2008.

#### Publications

Report on results at the FIG Congress 2010.

#### Timetable

- 2008: Round table discussion at the Working Week 2008 in Stockholm
- 2010: Final report and recommendations

#### Beneficiaries

FIG member organisations, UN, professional bodies, planners and developers.

### **Working Group 8.2 – Informal Settlements Issues in Spatial Development Planning and Governance**

#### Policy Issues

- Commission's contribution to the Millennium Development Goals
- to investigate initiatives that deliver land for housing and associated financial mechanisms that enable upgrading through participatory approaches to planning and development.

#### Provisional Terms of Reference:

- Build negotiation mechanisms with Traditional Leaders to enable the expansion of urban areas onto customary owned land by identify ways in which Customary ownership could be modernized to release land for formalised housing, (in collaboration with Commission 7).
- Explore rapid, new approaches to forward plan and upgrading initiatives that provide places for the poor by partnering with Sister Organisations.
- Deliver environmental sustainable house plots by working with partnership forums to find ways to upgrade infrastructure achieving this by addressing both physical and financial mechanisms.

#### Chair

Dr. Diane Dumashie (United Kingdom), E-mail: ddd@dumashie.co.uk

#### Specific Projects

- To investigate sustainable places within informal settlement in Africa;
- To contribute to building the knowledge which the surveyors can provide expert advice for Built Environment;
- To develop FIG-UN recommendation for best practices in Governance issues for Informal Settlements.

### Workshops

- To participate in special workshop in Africa
- To provide leadership at the FIG Working Week 2008 in this key issue.

### Publications

- To produce a working discussion paper “White Paper” on a key element effective governance issue.

### Timetable

- 2008: To organise a round table session at FIG Working Week 2008
- 2010: Final report and recommendation for Significant Better Practice.

### Beneficiaries

- United Nations, the World Bank, governments, humanity and FIG member organisations.

## **Working Group 8.3 – Re-engineering of Mega Cities**

### Policy Issues

- To provide opportunities for surveyors to play a key role in solving problems and implementing infrastructure in environmentally sustainable projects/developments in mega cities (large sprawling habitats with two distinct types being economically wealthy and dramatically poor).

### Chair

Ms. Ioana Manaolache (Theotop consulting, Romania), e-mail: ioanam@theotop.ro

### Specific Projects

- To study the World City Report for identifying opportunities for surveyors to be contributors towards improving infrastructure and degradation of the environment;
- To create methods of identifying causes of infrastructure damage within mega cities;
- Identify the planning framework and recommend changes which will enable implementation of E.S.D.;
- Develop a policy framework to enable sustainable cities.

### Workshops

- To contribute to the proposed Commission 8 workshop on mega cities at the FIG Working Week 2008.

### Publications

- Report on results of working group investigations and report at the FIG Congress 2010.

### Beneficiaries

- FIG member organisations, United Nations and the World Bank.

## **Working Group 8.4 – Urban Planning in Coastal Regions**

### Policy issues

- Urban planning in coastal regions has emerged as a major issue connected to rising sea levels as a result of climate change due to global warming. Urban habitat issues within coastal regions are a matter for Commission 8 and its contribution to environmentally sustainable development.
- On matters relating to marine space, Commission 8 will work in close co-operation with the Commission 4 Working Group 4.3 (Administering Marine Spaces). The ‘shifting sands’ will provide opportunities for Working Group 8.4 to find key roles for surveyors.

### Chair

Mr. Isaac Boateng (University of Portsmouth, United Kingdom), e-mail:  
boatengis@yahoo.co.uk

### Specific Projects

- To identify the impact on Urban habitat in Coast Regions caused by rising sea levels
- To develop planning policy and implementation guidelines to assist or allow communities to live in harmony with rising sea levels.

### Workshops

- To organise a round table discussion together with Commission 4 at the Regional Conference in 2007 and at the Working Week 2008/2009.

### Publications

- Produce a discussion ‘white paper’ in 2009 on the directions and implications of rising sea levels on coastal communities.

### Timetable

- 2007/2008: Round table discussions at the FIG events together with Commission 4
- 2009: White paper on direction and implication of rising water.

## **Working Group 8.5 – Land Use Planning and Implementation**

### Policy Issues

- To increase surveyors contribution to land use planning and better integrate surveyors expertise in implementation of plans, implementation processes and agreements and real estate management
- To increase surveyor and planners awareness on sustainable planning and implementation of plans based on modern knowledge, technical solutions, rules and legislation, traditions, and development and implementation processes in different countries.

### Chair

Dr. Maria Ulfvarson Östlund (Sweden),  
e-mail: maria.ulfvarson-ostlund@environment.ministry.se

## **6. Commission Officers**

### **Commission Chair**

Mr. Simon Adcock, Client Manager  
Valuer-General Victoria  
Marland House  
Level 15/570 Bourke Street  
Melbourne  
Victoria 3000  
AUSTRALIA  
Tel. + 61 3 8636 2558  
Fax + 61 3 8636 2519  
E-mail: [simon.adcock@dse.vic.gov.au](mailto:simon.adcock@dse.vic.gov.au)

### **Vice Chair and Chair of WG 8.1 – Planning Strategy for Urban Development and Regeneration**

Dr. Lillian S. C. Pun, Associate Professor  
Department of Land Surveying and Geo-Informatics  
The Hong Kong Polytechnic University  
Hung Hom, Kowloon  
HONG KONG SAR, CHINA  
E-mail: [lspun@polyu.edu.hk](mailto:lspun@polyu.edu.hk)

### **Vice Chair and Chair of WG 8.2 - Informal Settlements Issues in Spatial Development, Planning and Governance**

Dr. Diane Dumashie  
Dumashie Associates  
Keta Lodge, Grange Road, Creech  
Wareham, Dorset BH20 5DG  
UNITED KINGDOM  
Tel. + 44 1929 555 392  
Fax + 44 1929 555 392  
E-mail: [ddd@dumashie.co.uk](mailto:ddd@dumashie.co.uk)

### **Vice Chair and Chair of WG 8.3 – Re-Engineering Mega Cities**

Ms. Ioana Manaolache  
Legal Consultant  
Theotop consulting  
ROMANIA  
Tel. + 40 21.323 4896  
Fax + 40 21 321 6282  
E-mail: [ioanam@theotop.ro](mailto:ioanam@theotop.ro)

**Vice Chair and Chair of WG 8.4 – Urban Planning in Coastal Regions**

Mr. Isaac Boateng  
Department of Geography, University of Portsmouth  
Buckingham Building  
Lion Terrace  
Portsmouth, PO1 3HE  
UNITED KINGDOM  
Tel. + 44 7984 164 259  
Fax + 44 23 9284 2512  
Email: isaac.boateng@port.ac.uk

**Vice Chair and Chair of WG 8.5 – Land Use Planning and Implementation**

Dr. Maria Ulfvarson-Östlund, Head of Section  
Ministry of Environment  
Tegelbacken 2  
SE-103 33 Stockholm  
SWEDEN  
Tel. + 46 8 405 22 74  
Fax + 46 8 21 91 70  
E-mail: maria.ulfvarson-ostlund@environment.ministry.se

12 March 2007

## **FIG Commission 9 – Valuation and the Management of Real Estate Work Plan 2007-2010**

### **1. Title**

Valuation and the Management of Real Estate

### **2. Terms of reference**

- Valuation - the estimating of value of real estate by valuers and appraisers for various purposes, including e.g. market value, property taxation, eminent domain, claims of damage or impact on value by some cause or event and acquisitions for public use or public policy;
- Investment in Real Estate and Investment Planning;
- Real Estate Investment Vehicles;
- Real Estate Finance, Development Finance, Land Use Feasibility Planning;
- Real Estate Economics, Real Estate Markets and Market Analyses;
- Management of Property, as single asset or by management companies;
- Management of Property Systems to ensure efficient use of public and private resources; and
- Management of Public Sector Property.

### **3. Mission statement**

The real estate markets have been expanding and globalizing rapidly and the development is continuing. This means that there is a strongly growing need for uniform practices in real estate economics. International actors need reports, analyses and services made in consistent bases but also in innovative ways, which give added value to the clients in the expanding real estate markets. Standards, information and guidance for best practices together with harmonisation are asked in addition to people with good knowledge and know-how of different systems around the world. Surveyors are strongly involved in the international and local real estate markets thanks to the education of surveyors that gives a very good basis in real estate in many countries. In addition surveyors are taking care of basic registers and operations in real estate although mainly from the point of view of the public sector. FIG Commission 9 takes care that the knowledge of surveyors will cover the whole field of real estate economics contributing in that way positively to the national and global economy and to the living conditions and quality of living of human people on the whole globe.

### **4. General**

In the period 2006-2010 the focus of Commission 9 will be:

- Establish for all parties interested in real estate economics, such as valuers, real estate analysts, real estate economists, real estate managers etc. a place to discuss and exchange information about real estate and to learn new methods and ideas.

- Develop methods and guidance for real estate analyses and valuation, and best practices on the global level.
- Enhance the research on real estate by providing an arena to present academic research results or test different plans, ideas or models.
- Create and activate contact networks with different real estate organisations and universities.
- Enhance especially new member associations entry to the work of commission.
- The specific focus areas and tasks of the working groups will be identified more closely below.
- In education co-operation with Commission 2 will be carried on especially in the working group 2.4 Real estate valuation and management (real estate economics) education (joint Working Group).

The scope of the Commission 9 has changed so much that there might be a need to change the name of the Commission to better reflect the increasing role of real estate economics. This issue will be studied during this term and any recommendations for change will be proposed to the General Assembly at the Congress in Sydney in 2010.

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## **5. Working Groups**

### **Working Group 9.1 – Compulsory Purchase and Compensations in Land Acquisition and Takings**

#### Policy issues:

- The ownership on real property is protected by constitution in most countries. Because of the nature of the real property the right of ownership can, however, not be unlimited but for the society it has been reserved a right to interfere in it when it is necessary. For example, if the society needs a land area of a real property for a street, the owner has to convey land for that purpose, if not voluntary then by compulsion. For this interference there are normally strict preconditions in order to protect the functions of the free market.
- The most critical point concerning expropriation may be the question of compensation. Will the compensation statutes, valuation methods and manners really lead to full and just compensation? The rules for compensation depend on the legislation of each country. The main idea in most countries seems to be that the landowner's financial situation shall remain the same despite the expropriation. No one should be poorer because of expropriation but also not richer. Only economic values will be compensated but non-economic not. There are no strict rules that the owner has to be able to purchase a similar property for the same price as compensated although the basic idea of compensation strives to this, and normally this can even be expected. But if that cannot be done would it lead in some cases to an unjust situation where the landowner might even lose his/her living possibilities? It seems that there are also many countries where the rules or practices in compulsory purchase and compensations are still weak and the know-how narrow.

- Support to knowledge in land acquisition, compulsory purchase and compensation is needed. New perspectives and a broader discussion could add to drivers for further development. This subject is not covered by valuation standards so there is need for guidance from FIG. It can contribute in developing and providing the capacity needed.

#### Chair

Prof. Kauko Viitanen (Finland), e-mail kauko.viitanen@tkk.fi

Co-Chairs: Prof. Thomas Kalbro (Sweden), e-mail kalbro@infra.kth.se

Mr. Henning Elmstrøm (Denmark), e-mail: elmstroem@plf.dk

Mr. Paul Munro-Faure (FAO), email: Paul.MunroFaure@fao.org

#### Specific Projects

- Identify the legal structures and practices in compulsory purchase and compensation in different countries.
- Will the compensation statutes, valuation methods and manners lead to full and just compensation or are there shortcomings?
- Find possible and effective solutions to solve the problems especially for developing countries. What are the good ways to act and what principles, such as equality, you should take into consideration, and on the other hand what are the bad examples that should be avoided?
- Give FIG recommendations for best practises and education in compulsory purchase and compensations in land acquisition and takings.

The Working Group will work in co-operation with Commissions 7, 8 and 9.

The Working Group will work in close co-operation with the United Nations' Food and Agriculture Organization (UN-FAO). In addition there will be active co-operation with many other organisations.

#### Workshops

A seminar to tap the potential for relevant exchange of experience between countries and regions will be organised in Helsinki, Finland in September 6<sup>th</sup> to 8<sup>th</sup>, 2007 together with the Baltic Valuation Conference. Real-life experience will be added to thematic analysis. Interaction between different groups of (also new) actors will be promoted both during the preparations and by the design of the seminar itself.

In addition the subject will be discussed in each annual meeting.

#### Publications

- Technical papers presented in annual meetings.
- Report on results of work group investigations and reports at Congress 2006.

#### Timetable

- 2006-09: Research papers for Technical Sessions
- 2007: Report from the Helsinki Seminar, 6-8 September 2007
- 2010: Final Report and Recommendation for Best Practice at FIG Congress

### Beneficiaries

All FIG member organizations, UN, other professional international and national organizations, agencies and governments.

## **Working Group 9.2 – Improving Slum Conditions through Innovative Financing**

### Policy issues

- Slum is a major challenge for our joint development. Cities are the engines for development and viable cities for the rich must also be cities for the poor. Sustainable cities are a prerequisite for development on the whole - not only for poor countries or poor people. Problems that follow a rapid urbanisation make cities increasingly subject to dramatic crisis, problems like unemployment, deterioration of existing infrastructure, environmental degradation and inadequate shelter. One out of six world inhabitants live in slums. Without concerted action by governments and their partners, today's almost 1 billion slum dwellers will be 2 billions by 2030.
- Support to slum upgrading has focused on improved access to land, construction economics and providing basic services. Structural issues of financing and market conditions have often been overlooked. A change is urgent! Providing efficient financing facilities for slum upgrading and basic infrastructure on a massive scale will be required to meet the Millennium Development Goals.
- The first UN-Habitat global assessment in housing finance conditions and trends of the world shows that a quite limited group of experts is involved today. New perspectives and a broader discussion could add drivers for further development. The scope and actors need broadening from "just" a donor-poor peoples concern.
- Economic development depends on efficacy of financial systems. A window of opportunity exists in creating a sound and sustainable market for low-income housing. FIG can contribute in developing and providing the capacity needed.

This Working Group is part of the work of FIG Task Force Developing Global Land Tools for Pro Poor Land Management.

### Chair and members

Mr. Bengt Kjellson (Sweden), e-mail: [bengt.kjellson@lm.se](mailto:bengt.kjellson@lm.se)

Co-chair: Ms. Ann Jennervik (Sweden), e-mail: [annjennervik@hotmail.com](mailto:annjennervik@hotmail.com)

Representatives from FIG Commissions:

Chryssy Potsiou, Commission 3, e-mail: [chryssyp@survey.ntua.gr](mailto:chryssyp@survey.ntua.gr)

Tommy Österberg, Commission 7, e-mail: [tommy.osterberg@lm.se](mailto:tommy.osterberg@lm.se)

Diane Dumashie, Commission 8, e-mail : [ddd@dumashie.co.uk](mailto:ddd@dumashie.co.uk)

Kauko Viitanen, Commission 9, e-mail: [kauko.viitanen@tkk.fi](mailto:kauko.viitanen@tkk.fi)

Steven Nystrom, Commission 9, e-mail: [Nystrom@NewStreamCompanies.com](mailto:Nystrom@NewStreamCompanies.com)

Andrew W Morley, Commission 10, e-mail: [andrew.morley@ccmassociates.com](mailto:andrew.morley@ccmassociates.com)

UN-Habitat:

Szilard Fricska, e-mail: [Szilard.Fricska@unhabitat.org](mailto:Szilard.Fricska@unhabitat.org)

Lincoln Institute: (tbc)

Martim Smolka

### Key Themes

Two key themes have been selected:

- Securing tenure as the key to efficient finance and housing
- Functioning financial markets for housing finance, and especially the link between the two.

The first phase (Nov-early Dec) of the Working Group activities will include:

- Selection of 4-5 core issues under each theme, where thematic studies, crosscheck surveys and policy oriented analysis should be performed.
- Inventories of earlier reports, studies with implication on the matter, for publication at the homepage.
- Selection of persons and organisations that should be invited to the dialogue in Hong-Kong and the Stockholm seminar.

The Working Group will work in close co-operation with UN-Habitat and the results will be presented also in a joint seminar with UN-Habitat, perhaps in connection to the WUF conference in China 2008. Marketing has been started already in World Urban Forum in Vancouver 2006 (WUF3).

### Workshops

A seminar to tap the potential for relevant exchange of experience between countries and regions is being planned for the FIG Working Week in Stockholm June 2008. Real-life experience will be added on to by well-prepared future oriented crosscheck surveys and thematic analysis. Interaction between different groups of (also new) actors will be “fostered” both during the preparations and by the design of the seminar itself. The results will also be presented at the 4<sup>th</sup> World Urban Forum in Nanjing, China in 2008. In addition the subject will be discussed in each annual meeting.

A dialogue is being planned for the FIG Working Week in Hong Kong May 2007, to present and discuss the main current obstacles and preliminary hypothesis on the way forward.

### Publications

- Technical papers presented in annual meetings
- Report on results at 4<sup>th</sup> World Urban Forum in Nanjing, China in 2008

### Timetable

- 2006-2008: Research papers for Technical Sessions
- 2010: Final Report at FIG Congress

### Beneficiaries

- All FIG member organizations, UN, other professional international and national organizations, agencies and governments.

## **Working Group 9.3 – Diagnostic Tools and Prescriptive Practices for The Valuation Profession**

### Policy Issues

- The valuation profession in many countries is still rather weak and the profession has not always benefited from good education in valuation technology and theory. Consistent and logical guidelines are poor or even missing in some markets. There are no current tool sets to determine prescriptive practices for these poorly functioning valuation systems. What is needed is a systemized way to evaluate the status of a country's valuation profession and then recommendations to bring the profession up to international standards, relative to their individual needs. This is particularly important in developing economies.

### Chair

Mr. Steven Nystrom (USA), e-mail [nystrom@tampabay.rr.com](mailto:nystrom@tampabay.rr.com)

### Specific Projects

- Identify the legal structures and practices in the valuation profession in different countries / markets.
- Create a tool for diagnostic analyses of the valuation profession in these diverse markets.
- Create a system for recommendation to bring the profession up to the international standards, relative to the needs of the individual country / market.
- Give FIG recommendations for Guidelines, which can then be a starting point to assess an individual country / market's needs for record keeping, GIS, and mapping solutions.

### Workshops

- A seminar to discuss and develop the tool and exchange of experience between countries and regions. Interaction between different actors will be strongly encouraged, both during the preparations and by the design of the seminar itself, so that the tools designed will be adequate to assess most markets.
- In addition the subject and evolving tool set will be assessed in each annual meeting.

### Publications

- FIG Guidelines
- Short article in journal including the basic diagnostic tool

### Timetable

- 2006 Phase 1: Discuss basic topic and key aspects to be expanded upon
- 2007 Phase 2: Investigations and concepts reported at FIG 2007
- 2008 Phase 3: First Draft of Systematic Diagnostic Tool at FIG 2008 Meeting, call for comments
- 2009 Phase 4: Second Draft of Systematic Diagnostic Tool at FIG 2009 Meeting, final comments
- 2010 Phase 5: Final Report and submission of Diagnostic Tool and Guidelines for Diagnoses at FIG Congress 2010

### Beneficiaries

- All FIG member organizations, UN, other professional international and national organizations, agencies and governments

## **Working Group 9.4 – Review of Valuation Methods and Standards Worldwide**

### Policy issues

- Changes in valuation methods and standards, globalisation.

### Chair

David Smejkal (Czech Republic), e-mail: David.Smejkal@a-consultplus.cz

### Specific projects

- Identify the used standards in different markets and study the valuation methodologies adopted.
- Present and discuss the findings at FIG Working Weeks and Congress with information posted on the web-site for reference of members.

The Working Group will contribute to the standard network in Commission 1.

### Workshops

To be planned for each annual meeting.

### Publications

- Technical papers presented in annual meetings.
- Report on results of work group investigations and reports at Congress 2010.

### Timetable

- 2007-09: research papers for Technical Sessions.
- 2010: Final Report at FIG Congress.

### Beneficiaries

- All FIG member organizations, UN, other professional international and national organizations, agencies and governments.

## **Working Group 9.5 – GIS as a Tool in Real Estate Market Analysis and Valuation**

### Policy issues

- The world is digitalising very fast. Also in valuation and real estate analyses the digital methods are gaining a footing. Spatial data is nowadays mainly digitalised, and automated valuation models (AVM) are used especially in mass appraisals. The valuers and real estate analysts have to adopt the use of digital tools and methods to be able to serve their client even in the future. Otherwise there is a threat to become a bystander or an assistant when other expert groups expand their scope.
- The idea for the Working Group is especially to get discussions about the new developing digital methods in valuation and real estate market analyses in FIG. Participants will get information of new ways to do analyses, get new ideas and test old ones. In addition people will participate much eager when they feel they really can learn something new in the FIG working weeks and conferences.

### Chair

Mr. Henning Elmstrøm (Denmark), e-mail: elmstroem@plf.dk

Co-Chairs:

Mr. Steven Nystrom (USA), e-mail: nystrom@tampabay.rr.com

Mr. Dieter Kertscher (Germany), e-mail: dieter.kertscher@gll-bs.niedersachsen.de

Mr. Tassos Labropoulos (Greece, Commission 3), e-mail: taslab@survey.ntua.gr

#### Specific projects

- Identify the effects and possibilities of digitalisation for of the profession in real estate markets.
- Study new ways to make real estate market analyses and valuations.
- Present and discuss the findings and methods at FIG Working Weeks and Congress.

The Working Group will be a joint Working Group with Commission 3.

#### Workshops

- Presentations and round table discussions are to be planned for each annual meeting. A possibility for a special seminar will be studied.

#### Publications

- Technical papers presented in annual meetings
- Report on results of work group investigations at Congress 2010.

#### Timetable

- 2007-09: Research papers for Technical Sessions
- 2010: Final Report at FIG Congress

#### Beneficiaries

- All FIG member organizations, UN, other professional international and national organizations, agencies and governments.

## **6. Other Activities**

### **6.1 Co-operation with Affiliate organizations**

Commission 9 will strengthen the connections with affiliate organisations such as Appraisal Institute (AI), American/European/International Real Estate Society (ARES/ERES/IRES), European Public Real Estate Association (EPRA), International Facility Management Association (IFMA), International Federation of Housing & Planning (IFPH), European Association for Investors in Non-listed Real Estate Vehicles (INREV), International Valuation Standard Committee (IVSC), Lincoln Institute, Royal Institute of Chartered Surveyors (RICS), The European Group of Valuers' Associations (TEGoVA), The Urban Land Institute (ULI), World Association of Valuation Organisations (WAVO) and other international and/or regional associations in the field of valuation, real estate economics and management, who are related to the activities of Commission 9.

### **6.2 Co-operation with the United Nations Agencies**

Activities of Commission 9 are related to UN-HABITAT, Land Tenure Service (FAO/SDAA), UN-ECE and other professional involvements of the United Nations.

Commission 9 will look into the opportunities of participating and contributing in their events to promote the Commission and to provide appropriate services.

### **6.3 Workshop in China**

The China Institute of Real Estate Appraisers and Agents (CIREA) recently joined FIG as a Member Association. CIREA and is especially oriented to the work areas of Commission 9. Therefore, the Commission is planning to organise a special workshop in 2008/2009 in China with a particular focus on Asia.

### **7. Commission officers**

#### **Commission Chair**

Prof. Kauko Viitanen  
Helsinki University of Technology  
Department of Surveying  
P.O. Box 1200  
FIN-02015 TKK  
FINLAND  
Tel. + 358 9 451 3870, + 358 50 560 3873  
Fax +358 9 465 077  
E-mail: kauko.viitanen@tkk.fi

#### **Vice-Chair of Administration**

Ms. Heidi Falkenbach  
Helsinki University of Technology  
Department of Surveying  
P.O. Box 1200  
FIN-02015 TKK  
FINLAND  
Fax +358 9 465 077  
E-mail heidi.falkenbach@tkk.fi

#### **Chair of WG 9.1 - Compulsory Purchase and Compensations in Land Acquisition and Takings**

Prof. Kauko Viitanen  
Helsinki University of Technology  
Department of Surveying  
P.O. Box 1200  
FIN-02015 TKK  
FINLAND  
Tel. + 358 9 451 3870  
Fax +358 9 465 077  
E-mail: kauko.viitanen@tkk.fi

### **Vice-Chair and Chair of WG 9.2 - Improving Slum Conditions through Innovative Financing**

Mr. Bengt Kjellson  
Lantmäteriet  
GD-stab Strategisk planering och kommunikation  
SE-801 82 Gävle  
SWEDEN  
Tel. + 46 26 634 941  
E-mail: Bengt.Kjellson@lm.se

### **Vice-Chair and Chair of WG 9.3 - Diagnostic Tools and Prescriptive Practices for The Valuation Profession**

Mr. Steven L. Nystrom, MAI  
NewStream Companies  
5044 Cyperss Trace Dr.  
Tampa, FL 33624  
USA  
Tel. + 1 813 963 3510  
Fax. + 1 813 963 3510  
E-mail: nystrom@tampabay.rr.com

### **Vice-Chair and Chair of WG 9.4 – Review of Valuation Methods and Standards Worldwide**

Mr. David Smejkal  
Czech Association of Certified Property Appraisers  
Tynska 21  
110 Prague 1  
CZECH REPUBLIC  
Tel. + 420 2 2480 8310  
Fax + 420 2 2480 8310  
E-mail: David.Smejkal@a-consultplus.cz

### **Vice-Chair and Chair of WG 9.5 – GIS as a Tool in Real Estate Market Analysis and Valuation**

Mr. Henning Elmstroem  
Vestergade 34  
DK-9550 Mariager  
DENMARK  
Tel. + 45 9854 1006  
Fax + 45 9854 2427  
E-mail: elmstroem@plf.dk

14 March 2007

## **FIG Commission 10 – Construction Economics and Management Work Plan 2007-2010**

### **1. Terms of Reference**

- Construction Economics, including Quantity Surveying, Building Surveying, Cost Engineering and Management, Estimating and Tendering
- Commercial Management including Procurement, Risk Management and Contract Law for construction and non construction activity
- Project and Programme Management including Planning / Scheduling.

### **2. Mission Statement**

- To advance the professional practice of surveyors working in all disciplines of Construction Economics, Commercial Management and Project Management
- 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.

### **3. General**

The overall theme for Commission 10 is summarised as the “Contribution of the surveyor in the economic development, management and realisation of projects and facilities”.

The Commission is fully cognisant of the pressing need to achieve understanding of its rôle amongst FIG colleagues so as to enlist their participation in its work; and, of the need to encourage suitably qualified national associations of (quantity) surveyors to join FIG. Success in these aims will reduce the perceived Euro-centricity of the Commission.

The plan for 2007-2010 is to concentrate on developing and disseminating understanding of the requirements and processes necessary to facilitate and encourage the investment of private finance into projects.

This focus has been chosen because all projects require finance to move forwards. However, projects in the developing world are often constrained by the source of funds whilst projects in the more developed world are constrained by the allocation of funds - both need to attract funding for their projects. To gain finance for a project from private sources, project sponsors need to present a business case that demonstrates the long-term financial viability of the proposed project.

Historically, BOT and DBFO procurement strategies have been utilised internationally for toll roads, bridges and the like. More recently, PFI and PPP arrangements have been developed as procurement strategies for hospitals, schools, defence and transport projects. There has been much pioneering work in the development of PFI and PPP strategies and this knowledge can be shared and developed worldwide. The transparent and visible use of “best practice” commercial management techniques will greatly increase a sponsor’s ability to raise private finance for a project. Improvements in the raising of finance for projects has the potential to unlock funds and bring about the earlier realisation of projects for the benefit of both users and the professionals engaged in their delivery and ongoing management.

The ‘Policy issues’ specified against each Working Group will be addressed and carried forward in the context of the plan as set out above.

Commission 10 is keen to work with other Commissions so as to achieve unity of purpose in the pursuit of inter-disciplinary interests especially on issues related to project management.

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

It will also be considered whether the name of the Commissions should be changed for the next term of office to bring greater focus to commercial and project management.

#### **4. Working Groups**

##### **Working Group 10.1 – Construction Economics**

###### Policy issues

- Map skills and knowledge process for both Quantity Surveyors and Building Surveyors
- Research current practice in differing cultures and economies to develop and publish generic guidelines as to “best practice”
- To monitor and, if possible, join and contribute to research projects being carried out by others
- Minority and gender issues and enhancing representation of under-represented groups.

###### Chair

Ms. Sara J Wilkinson (Melbourne, Australia), email: saraw@unimelb.edu.au

###### Specific projects

- To work with other Commissions to support their work on the technical and cost issues of affordable housing and associated matters in developing and emerging economies
- To support and monitor the Commission’s attention to all minority interest issues.

###### Publication(s)

- Report at each FIG working week outlining activity and progress.

## **Working Group 10.2 – Commercial Management**

### Policy issues

- To study, analyse and compare different procurement models and publish generic guidelines as to “best practice”.

### Acting Chair

Mr. Geoff K. Schmitt (United Kingdom), e-mail: Shirley.Bithell@ccmassociates.com

### Specific projects

- To work with other Commissions to support their work on the procurement of infrastructure and affordable housing in developing and emerging economies.

### Publication(s)

- Report at each FIG working week outlining activity and progress.

## **Working group 10.3 –Project and Programme Management**

### Policy issues

- To describe and compare different Project Management methods and publish generic guidelines as to “best practice”
- To describe and detail a “best practice” model for the successful management of multi-project programmes in both developed and developing economies.

### Chair

Mr. Richard A Hucker, MBE (United Kingdom), email: Richard.Hucker@costain.com

Vice-chair: Ms. Leonie Newnham (Australia), e-mail: Shirley.Bithell@ccmassociates.com

### Specific Projects

- A review of and comparison of construction procurement-Europe, and a different procurement policy
- A comparison and analysis of the methods of design, procurement and construction of buildings and their engineering installation.

### Publication(s)

- Report at each FIG working week outlining activity and progress.

## **5. Co-operation with sister associations**

The Chairman attends the periodic meetings of the Council of European Construction Economists (CEEC) and will initiate a review of the current Memorandum of Understanding with the International Cost Engineering Council. The agreement needs reappraisal and development so as to be more effective and therefore beneficial to the parties.

The Commission will seek collaboration with the African and Pacific Associations of Quantity Surveyors (AAQS and PAQS) which are both understood as affiliates of ICEC.

## **6. Calendar of events**

Full participation in FIG Working Weeks and, where appropriate and likely to be beneficial, FIG regional and strategic meetings.

## **7. Commission Officers**

### **Commission Chairman**

Mr. Andrew W. Morley  
UNITED KINGDOM  
Tel. + 44 1733 892727  
E-mail: Andrew.Morley@ccmassociates.com

### **Commission Secretariat**

Ms. Shirley Bithell  
CCM Associates Limited  
89 Priory Road  
Peterborough  
PE3 9EE  
UNITED KINGDOM  
Tel. + 44 1733 892727  
Fax + 44 1733 896475  
E-mail: Shirley.Bithell@ccmassociates.com

### **Vice Chairwoman and Chairwoman of WG 10.1 – Construction Economics**

Ms. Sara J. Wilkinson  
University of Melbourne  
Faculty of Architecture, Building & Planning  
Melbourne  
AUSTRALIA  
Tel. + 61 3 8344 8733  
Fax + 61 3 8344 0328  
E-mail: saraw@unimelb.edu.au

### **Acting Vice Chairman and Acting Chairman of WG 10.2 – Commercial Management**

Mr. Geoff K. Schmitt  
UNITED KINGDOM  
E-mail: Shirley.Bithell@ccmassociates.com

### **Vice Chairman and Chairman of WG 10.3 – Project and Programme Management**

Mr. Richard A. Hucker, MBE  
UNITED KINGDOM  
E-mail: Richard.Hucker@costain.com

15 March 2007