

**Report to the 28<sup>th</sup> General Assembly  
FIG Working Week in Cairo, April 2005**

**FIG Commission 1 – Professional Practice and Standards**

**Report of Activities 2004-2005**

**1. Achievements and Activities since the Athens Working Week**

At the Athens working week Commission 1 held its annual commission board meeting. All working group leaders (Commission Vice chairs) participated. At this meeting we proved the objectives of our work plan and fixed the next steps for the remaining period. At the following annual commission meeting only 6 (six) delegates, the Vice-President Bettina Petzold, the new elected Vice-President Ken Allred and the Past-Chair John Parker turned up. Nevertheless from Commission 1 point of view the Working Week was a success with the presentation of good papers in three technical sessions, TS4 „*Profession – in the Past and Future*“, TS8 „*Bridge for the Next Generation*” and TS22 “*e-Commerce + e-Governance = Future?*”. In joint sessions there were presentation of Iain Greenway about Standards, QA and Calibration and Leonie Newnham about Development of Good Land Administration Organisations. In addition to that there took place a workshop of Gabriele Dasse. The commitment of commission members continued with several presentations at the regional meeting in Jakarta and preparation for the working week in Cairo.

At the 3<sup>rd</sup> Regional Conference in Jakarta Commission 1 was represented by the Secretary, Dietmar Sperling.

Forthcoming events:

4<sup>th</sup> FIG Regional Conference, Havana, Cuba, September 26-29, 2005

5<sup>th</sup> FIG Regional Conference, Accra, Ghana, March 9-12, 2006

FIG Congress, Munich, Germany, October 8-13, 2006

Following you may notice the specific achievements of the working groups:

**Working Group 1.1 – FIG Standards Network**

**1. Introduction**

The FIG Standards Network was set up as a result of a decision at the 2002 General Assembly. It grew out of the FIG Task Force on Standards and was designed to provide an FIG focus on this important area, which is a key part of the previous and current Council work plans. This brief report summarises Network progress since the 2004 General Assembly, and its immediate plans.

## 2. FIG policy

FIG's policy on standardisation was ratified at the 2001 General Assembly. The key parts of that policy read as follows:

'Overall, FIG's aim in the field of standards is to assist in the process of developing workable and timely official and legal standards covering the activities of surveyors. FIG is also committed in its objectives to developing the skills of surveyors and encouraging the proper use of technology, activities which are becoming increasingly shaped by standards.

FIG will generally seek to ensure that *de facto* standards become official standards as technology matures, or at the very least that all relevant official, legal and *de facto* standards are produced in full knowledge of all other related material.

FIG sees the following roles for professionals in the standardisation process:

- Assisting in the production of workable and timely standards by proposing material which can be transformed into international standards (rather than relying on work developed by others) and by participating in the process of developing standards; and
- Disseminating information and creating explanatory material and guidance notes to ensure that all members of FIG are aware of the most recent standardisation activities, standards and regulations, and their implications for surveyors.'

## 3. Terms of reference and membership

The terms of reference of the Network are set out in the FIG Guide on Standardisation and are as follows:

- Building and maintaining relations with the secretariats of standardisation bodies;
- Proposing priorities on FIG's standardisation activities, including advising the Council on priorities for spending;
- Setting up necessary Liaison relationships with standardisation bodies;
- Ensuring that lead contacts to Technical Committees etc are in place;
- Maintaining an information flow on standardisation to FIG members, including through the FIG website and FIG Bulletin, and more directly to relevant Commission Officers;
- Maintaining the Guide on Standardisation, and related material on the FIG website;
- Working with other NGOs, within the framework of the MOUs signed by the Council; and
- Advising FIG's officers and members on standardisation activities as necessary.

The Network sees itself as at the hub of FIG standardisation activity, making the necessary linkages and providing the necessary advice to commissions and others. Strong links between Network members and 'their' commissions are a vital part of this.

Network membership as at January 2005 was as follows:

C1	Iain Greenway (Chair)
C2	Frances Plimmer
C3	Martin Scheu
C4	Andrew Leyzack
C5	Rudolf Staiger
C6	Aloiz Kopacik
C7	Winfried Hawerk
C8	Diane Dumashie (pro tem)
C9	Brian Waldy

C10                      Phil Shearer  
ISO TC211              Larry Hothem  
ISO TC172 SC6        Hansbert Heister

Most Commissions actively participated in the work of the Network.

#### 4. Progress in the last 12 months

The Network held a productive meeting at the Athens working week. Since then, members have maintained a grid summarising Commission work relevant to standardisation. This grid has also included ISPRS activity in this area, but has been unsuccessful in including information from other sister societies. The grid has proved a useful means of capturing information concerning the links between the work of the various Commissions and standards, and a copy is available from the FIG website.

Key areas of activity were reviewed and agreed in Athens. They are listed below, along with progress against each of them:

- **Instrument standards (ISO TC172 SC6) – continuing FIG’s input, particularly on GPS (Commission 5)**

Hansbert Heister is FIG’s lead expert to this work. FIG’s focus has been on ensuring that the proposed GPS standard is workable, and Commission 5 has been putting effort into this.

- **International Valuation Standards – making concrete progress with the relationship, particularly getting an FIG representative to the Standards Board meetings (Commission 9)**

A number of plans were developed during the Working Week in Athens. The stumbling block to implementing them has been finding the right person, with sufficient funding, to participate in the IVSC meetings. This will be pursued further during the Cairo working week.

- **Cadastral domain model agreement (Commission 7)**

Work has continued in this, including through a workshop held in December 2004 in Germany.

- **Standards for sensors (hydrographic, photogrammetric, laser) (Commissions 4, 5 and 6)**

The relevant commission experts have reviewed the text of the draft standard 19130. This does not fully cover hydrographic sensors, an area in which FIG will propose additions when the document comes out for further comment (expected imminently). The photogrammetric sensors are covered sufficiently. Commission 6 recommends that material on lasers such as LIDAR is not added until the technology has matured further.

- **TC211 activity, particularly**

During the last year, FIG has remained actively engaged in the work of ISO TC211, with Iain Greenway attending the TC meetings in October 2004, and Iain Greenway and Gerhard Joos remaining members of the Outreach Group

- **Certification of personnel (Commissions 1 and 2)**

Technical Report 19122 has been published and ISO/TC211 has resolved not to take further action at this stage. The Network has therefore been supporting the work of WG 2.3 on Mutual Recognition to implement workable models of MR.

- **Location based services (Commission 3)**

A watching brief continued in this area

- **Standards for data providers (Commissions 3, 4, 5, 7 etc)**

Largely due to impetus provided by FIG, an ISO/TC211 Focus Group on Data Providers was set up at the October 2004 TC meeting, with Iain Greenway as chair. The Group has started work.

- **Influencing the development of standards in the construction area – C10**

Little progress has been made in this area, although useful connections have been made with related work (and these are recorded in the grid of standardisation work).

## 5. Activity in Cairo

The Network has played a leading role in organising the Standards Workshop immediately preceding the Cairo Working Week. In addition, a number of papers on standards are included in the technical programme, and the Network will hold a meeting during the Working Week.

## 6. Summary

The last 12 months have seen good progress being made in a number of standards-related areas. During the 2004 working week, the Network will continue the process of developing a clear shared understanding of FIG's priorities and required actions in the area of standardisation, and will continue to shape this as a common agenda with the Commissions. The commitment of the Council and of the Commissions to this ongoing work is appreciated and acknowledged.

Iain Greenway  
Chair, FIG Standards Network

## **Working Group 1.2 – Professional practice and organisational structures**

### 1. Policy issues

- Widening professional activities, overcome restrictions
- European and world-wide limitations, monitoring the legal development (i.e. GATS, EC Treaty, other relevant policies).
- Dialogue between politicians and surveyors, as well as public private partnership.
- **Development policies, Co-ordination of projects and programs in the field of survey and land management**
- **Role of FIG as expert NGO in Land Management issues**

### Specific projects

- Fundamentals of legal frameworks to be presented in a paper.  
**(Washington 2002, Legal Framework of Conditions with respect to International Surveying Activities); (Frankfurt Intergeo 2002, Legal Framework of Conditions with respect to International Surveying Activities)**
- Professional studies, business structures, bans or restrictions to be investigated. Facts to be collected for development of a paper.

**(Paris 2003, Development Policy and its Influence on Cadastre Systems and Land Management)**

**(Marrakesh 2003, Co-chair of session)**

**Personal Education and Formation of M. Keller (International Development, Nachdiplom in Entwicklungszusammenarbeit an der ETH Zürich, Switzerland)**

- Recommendations on behalf of less developed countries, acknowledgement by developed countries, how structural and legal processes might be possible. Models to be proposed. (2004) **delayed and planned for 2005**

**In addition, international Co-operation in projects and programs in surveying and land management activities.**

**No paper for Athens presented,**

**Personal Education and Formation of M. Keller with diploma achieved (International Development, Nachdiplom in Entwicklungszusammenarbeit an der ETH Zürich, Switzerland)**

- **Participation at regional conference in Jakarta (October 04) with paper concerning Co-operation in projects and programs in surveying and land management activities. – (Jakarta 2004; International Treaties and Consultancy – and their Effect on Land Management in Developing Countries. What is the Role of FIG?)**
- Acknowledgement of the requirements of governments /survey departments – necessary information provided as a basis for surveyors to deal with the legal developments and future requirements. (2005)

**In addition proposals to FIG concerning Co-operation and leading consultancy in projects and programs in surveying and land management activities**

- **Participation in Cairo April 05, no paper will be presented.**
- **Participation in Havana (Autumn 05); paper concerning the role of FIG will be presented.**
- Review Publication 29 on Business Practices and determine whether there is a need to update it. (2005)
- **In addition proposals to FIG concerning Co-operation and leading consultancy in projects and programs in surveying and land management activities**
- Synthesis of the research / recommendations (Munich 2006)

#### Publications

- Fundamentals of legal frameworks paper - 2002
- Professional studies, business structures, bans or restrictions, results of investigations. – 2003 - **(Paris 2003, Development Policy and its Influence on Cadastre Systems and Land Management)**
- **(Jakarta 2004; International Treaties and Consultancy – and their Effect on Land Management in Developing Countries. What is the Role of FIG?)**
- Report on work and findings – Munich 2006

#### Timetable

- The Working Group will continue until at least the Congress in Munich in 2006  
**Due to difficult collaboration and experiences made by other working groups I shall work on my own on the program until 2006.**

## Final report

During the Munich Congress

### Beneficiaries

- Surveyors and surveying practices;
- Other professionals working in land management and development;
- Member associations and sister associations;
- All Commissions;
- Universities and educational organisations.
- **Development organisations**
- **International development banks**

### Chair

Michael Keller, Chair of Working Group

### **Working Group 1.3 – Information technology management as it relates to professional practice and communications**

This report will review the period since WW2004 in Athens till now and since it is a period full of events on the regional and national field I have to say that they were all related to commission 1 subjects as we have the vision to highlight the human side of our profession knowing that a good management and high and competent professional practice is when we do respond to the needs of a human being wherever he belongs.

In Athens the WG1.3 had a successful presentation about the economy of construction and we took the project of reconstructing Beirut as an example so we did for many parts of Lebanon to show that constructing a space is related in its economy as in its function to human lifestyle and needs.

Our profession is not only a technical profession, we have to conserve the human vision to assure its continuity and its diversity because it is clear that many cultures and many civilizations depend on our human knowledge and philosophy as well on our technical competencies.

In Athens we reviewed the final articles and version of the **Marrakech Declaration** which was a result of **the FIG 2<sup>nd</sup> Regional meeting held in Morocco December 2003** and was like an *alarm* to the International Professional Community that there are many regions in this world belonging to a diversity of cultures and roots that really need our professional proposals to support their sustainable development plans in addition that these virgin areas, from the development point of view, could be a good example and wide laboratory for ameliorating our professional ethics and standards, and to support or rebuild the profession in these countries with modern comprehension and more opening to other cultures and experiences.

After Athens, I saw the need to narrow the gap between the FIG and the Arab region as this region represents an important culture and a lot of needs to develop the mentality of the profession and highlight the necessity of exchanging experiences and competencies and

realize certain approach of many understandings for the way to ameliorate the level of the profession and its professional practice and communication.

Back to Beirut I started to prepare for the 2<sup>nd</sup> International Congress under the high sponsoring of his Excellency the President of the Republic of Lebanon, General Emil Lahoud and the cosponsoring of the FIG and the Arab Union of Surveyors to really introduce the both *poles* of the profession to each other and make that distance, that was in the past so hard to passover, closer and closer. The presence of President Holger Magel was a big step forward to the Arab world as was the presence of Klaus Rürup as President of the CLGE and Chair of FIG Commission1.

Both personalities noticed the importance of being in cooperation with such a big society of surveyors as the Arab surveyors. After the meeting with the President Lahoud, a new look to the profession was clear, our role is not limited to a technical and professional corner, but a political, financial and social role is waiting for us as much as we can make from our professional practice a wide spectrum influence on the national and international side.

This is based on our human vision side by side with the technical evolution of the technological means and instruments. This was the title of my presentation “*Role of a Surveyor, a Human Vision Beyond the Technique*” It will be also the keyword for the commission 1 work plan for the period 2006-2010 which we will discuss in the FIG WW2005 in Cairo.

October 2004 we organized and sponsored the Geographic days “*Les Journées Géographiques*” with the ESGT-L and the CNAM institute in France, this event was marked by the presence of Mr. Alain Gaudet, the President of the French “*Ordre des Géomètres-Experts*” who visited the locals of the Lebanese Order and the Arab Union of Surveyors.

The subject of this event was how to ameliorate the cadastral system in the Francophone countries also the development of good land administration (in co-operation with WG1.4) and commission 1 was represented in this event since the subject in some of its pillars is related to our activities, actually I think that any surveying activity is related to role of commission 1, and that is why we have developed our vision for this role and only the human side can open wide perspectives for our future politic.

The result of this conference was that the three aspects of the cadastre: juridical, fiscal and technical were treated separately but within the same objective there were the conclusions posted on the ESGT website, [www.esgt.fr](http://www.esgt.fr) but the most important was that the assembly noticed the necessity to develop the role of a surveyor accordingly to FIG statement we had got in Seoul, Korea and this was a professional success and push for us to continue forward working on ameliorating the standards of our profession.

The automation process of the cadastral graphic maps and GPS technology plus the orthophotos and remote sensing that represents the look to the future were subject of good land and professional administration if we want to consider them the main aspects for the technological evolution of the profession standards. This event will be held consecutively in Morocco 2005, Algeria 2006 and France 2007.

We are now involved into a TAG project with AMEDIST witch is an association like the USAID and this project has as subject the role of a surveyors, his rights and obligations towards the Order and the state in the aim to assure transparency and accountability. Therefore the main objective of this program is to initiate the Lebanese Surveyors about their role and its importance plus the side effects of this role to transparency and accountability between the surveyor and the Order then between the Order, the Surveyor and the state.

The following table will show the time frames for this project and the repartition of areas and subjects related.

Date	Lecture	Role of Surveyor	Relationship : Surveyor and Order	Relationship : Surveyor and Citizen	New technology GIS	New technology Remote sensing
Tuesday-1-Mar-2005		Beirut				
Thursday-3-Mar-2005		Tripoli				
Tuesday-8-Mar-2005			Beirut			
Thursday-10-Mar-2005			Tripoli			
Tuesday-15-Mar-2005				Beirut		
Thursday-17-Mar-2005				Tripoli		
Tuesday-22-Mar-2005					Beirut	
Thursday-24-Mar-2005					Tripoli	
Tuesday-29-Mar-2005						Beirut
Thursday-31-Mar-2005						Tripoli
Tuesday-5-Apr-2005		Saida				
Thursday-7-Apr-2005		Zahle				
Tuesday-12-Apr-2005			Saida			
Thursday-14-Apr-2005			Zahle			
Tuesday-19-Apr-2005				Saida		
Thursday-21-Apr-2005				Zahle		
Tuesday-26-Apr-2005					Saida	
Thursday-28-Apr-2005					Zahle	
Monday-30-May-2005						Saida
Tuesday-31-May-2005						Zahle

In Cairo meeting commission1 will discuss the future work plan for the period 2006-2010 and selection of working groups.

The main perspective will be to establish new ideas for communication between several cultures and regions and to be able to create solid and common standards in a harmonic rhythm maybe this will help the FIG to become the international umbrella for the profession and the meeting place for this professional diversity and not only a meeting club for technicians from all around the world since we are the representatives of the most ancient and human resource in the world that really is reflecting the eternal interrelationship between the mankind and its territory.

Yaacoub Saade  
Chair of Working Group 1.3

### **Working Group 1.4 – International project management**

#### Overview

The work over the past year is detailed below under the projects identified in the work program. A small core group has been formed for this working group with the aim of increasing membership as the program builds and develops.

### Projects identified in work plan

*Development of a project management resource detailing the major facets of project management delivery as it applies to the profession using an interactive review process with FIG Member Associations.*

*Research case studies in project management across regions of the world with the aim of preparing a resource for use by members in learning and discussing project management issues.*

### Action undertaken:

A continued focus has been innovation and change in land management organisations to assist practitioners in developing their businesses. A paper was prepared for the Working Week in Athens in May titled 'Managing Change Successfully in Land Management Organisations.' This generated a lot of interesting debate around the particular challenges faced when dealing with systems that in many cases have evolved over long periods of time. A paper developing the innovation aspects of this theme, 'Innovation In Land Management, What Makes It Happen?', will be delivered at the Cairo Working Week.

I was able to work in with Professor John Parker in preparing a paper on 'Land Management in Australia - Case Study with emphasis on the State of Victoria', that produced a case study of land management for the UN, FIG and PC IDEA Special Forum - The Development of Land Information Policies in the Americas in Aguascalientes, Mexico, 26-27 October 2004. This conference successfully promoted discussion on various land information policies and interest areas of Commission 1.

Connections established with related organisations with an interest in project management, this includes the Australian Institute in Project Management and associated Academic faculties and various joint activities are being discussed.

Research underway in the development of project offices within larger organisations for the purpose of supporting project management methodologies. Samples of project management tools in land management and related organisations being sourced as a resource for FIG members.

Survey developed for FIG members on the use of project management in land management organisations in their countries to establish usage patterns for project management, activities currently project managed and the project management model used. This is being administered in a variety of forms person, by telephone or electronically. This is being done on a progressive basis with the preference for person to person interviews if possible.

### Projects identified in work plan

*Produce a communication and marketing plan for Commission 1 activities to support its work and ensure that key messages are being received by member organizations and that two way communication channels are operating.*

### Action undertaken:

Supported Commission 1 activities at the FIG Working Week in delegates and also FIG initiatives. The aim is to enable people interested in Commission 1 activities to be involved in a community of interest to share and support each others knowledge and information sharing.

I undertook a study tour in late May and early June 2004 and met with officers of the FAO, World Bank and United Nations to discuss and review issues relating to this Commission 1 working party that expanded into other Commission 1 activities. One of the key issues that arose was the need to develop professional societies in areas that are dealing with major reconstruction or where they has not previously been a recognised professional grouping. FIG has a number of existing resources that were of use however the number of requests indicated to me that this could be a productive area for work in the future.

In addition other points of interest were:

- access to a bank of experts across various professional areas of FIG, able to work in a range of countries, and,
- having a liaison person working closely and perhaps within large organisations such as the United Nations and World Bank.

I would encourage anyone who is travelling to make time to consult with our colleagues in these organisations and talk about the work they are doing in various commissions. I was able to forward a number of these points to the relevant people within FIG for further consideration and action.

### Projects identified in work plan

*Establish a collaborative work site to develop a community of interest group that can work across member organizations to share information on current best practice and quality management in theory and practice.*

See action under the project above. To be further developed, now in year 3 as per initial plan.

Leonie Newnham  
Chair of the Working Group 1.4

### **Joint Commission Working Group WG 1.5 – Under-represented Groups in Surveying**

Here you can find links to the latest newsletters:

Issue 3/04 ([http://www.fig.net/pub/underrep\\_news/200403/newsletter200403.htm](http://www.fig.net/pub/underrep_news/200403/newsletter200403.htm)) of the Working Group Newsletter was published in July with the following content:

- Report: Workshop - Network on Under-represented Groups in Surveying by Gabriele Dasse
- How to get more students involved in FIG by Linnéa Lindqvist and Jennie Nilsson, Sweden

- The Women in Greece – Working and Developing the Surveying Profession by Eleni Tziortzioti and Anna Karagiannaki, Greece
- Collaboration with Gender and Cartography Commission by Gabriele Dasse
- American Accreditation Board Strives for Diversity by Wendy J. W. Straight, United States
- Elizabeth Ann Johnson was a Leader in Diversity contributed by Dr. Herbert Stoughton, United States

Issue 4/04 ([http://www.fig.net/pub/underrep\\_news/200404/newsletter200404.htm](http://www.fig.net/pub/underrep_news/200404/newsletter200404.htm)) of the Working Group Newsletter was published in November with the following content:

- Extract of “Women's Rights to Land and Property”, by Marjolein Benschop, UN-HABITAT
- Personalities: Eleni Tziortzioti, Greece
- More women engineering graduates, but they still face poor employment prospects

### Working Week in Athens

The Joint Commission Working Group on Under-represented Groups in Surveying organized a workshop during the Working Week in Athens. The Session started with three presentations from Eleni Tziortzioti and Anna Karagiannaki (Greece) “The Women in Greece - Working and Developing the Surveying Profession“, Gabriele Dasse (Germany) “Gender Mainstreaming – A Topic for the Surveying Profession“, Ali Buxton, Pat Turrell and Sara Wilkinson (United Kingdom) “Why Do Women Like Working in Building Conservation?“. These presentations initiated an interesting debate and discussion.

Meetings with FIG President Holger Magel and Vice-President Bettina Petzold resulted in deliberations to draw up FIG guidelines to improve the situation of women, young surveyors, like students, and cultural and language minorities. A draft should be presented and discussed during the Working Week 2005 in Cairo.

### Virtual Conference – The Past, The Present and the Future of Women in Surveying

Gabriele Dasse, Chair of the Working Group, participated in the Virtual Conference which took place from 5th to 9th July 2004. The conference gave the opportunity to share experiences. Gabriele presented her paper “Women in DVW, the German Association for Surveying“. 11 members of the FIG network participated at the Virtual Conference and 5 of them presented a paper.

Gabriele Dasse  
Chair of the Working Group

Klaus Rürup  
Chair of FIG Commission 1  
February 2005