

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



ANNUAL
REVIEW
2006



Shaping the Change – XXIII International FIG Congress in Munich 2006



Skyline of Munich.

FIG together with INTERGEO® creates the biggest global surveyors' event

The XXIII Congress of the International Federation of Surveyors, FIG will be held in Munich, Germany from 8–13 October 2006. The congress will be hosted by the DVW – German Association of Surveying – Society for Geodesy, Geo-Information and Land Management – which has assumed the FIG presidency for the period 2003–2006. This unique, large-scale event will make Munich the focus of international activity for one week in October, at least for surveying and geomatics. The International FIG Congress will run concurrently with the INTERGEO 2006 as one fully integrated event. The annual German INTERGEO® (10–12 October 2006) is the biggest congress and tradeshow for geodesy, geo-information and land management in Europe. Especially the expert fair with almost 500 exhibitors and an exhibition space of 30,000 sqm² make FIG 2006 the largest meeting for surveyors this year. The organisers expect more than 15,000 visitors to the exhibition in Munich.

Within the common framework there are several additional events linked to the main congress. For example the workshop 'History of Surveying' at the Deutsches Museum, the Geodetic Week, which ensures the exchange of information on current activities in geodetic university and research institutes and the joint symposium of International Association of Geodesy (IAG) and FIG Commission 5.

The FIG Congress will run for a whole week at the International Congress Centre in Munich and at the Holiday Inn Munich. The congress includes four plenary sessions – three jointly with the INTERGEO® – and more than 100 technical sessions and workshops with 600 papers. This together with 30 technical tours will provide the largest professional programme in surveying business. To balance the high-profile technical programme a wide range of sightseeing tours and social events has been planned. In order to facilitate the mutual exchange of

ideas, a variety of meetings and events will be organised jointly, both in the professional field and on social level.

The FIG Congress takes place at two different venues: the congress and exhibition will be held at the International Congress Centre Munich (ICM) while the FIG administrative meetings, General Assemblies and highlights as the welcome reception, closing ceremony and the party of the next FIG Congress (to be held in Sydney in 2010) will be at the Holiday Inn Munich City Centre. ICM and Holiday Inn are linked by an effective public transport system, and the public transport is included in the congress registration.

"With the motto 'Shaping the Change', we wish to discuss how the surveying profession can contribute to the present and future challenges among experts, but also make them accessible to a more general public", expresses Prof. **Holger Magel**, FIG President "Without any doubt the FIG Congress will be the highlight of these four years under the presidency of the German surveyors in FIG". This is the second time FIG has its congress in Germany, the first time was thirty-five years ago in Wiesbaden in 1971. The FIG congress summarizes the results of past four years of the ten FIG technical commissions and the FIG Council to a common platform. This is resulted also in the congress programme reaching from the opening ceremony to the technical sessions and workshops. The speakers include our international partners from the United Nations and its agencies – the long-time Executive Director of UNEP Prof. **Klaus Töpfer** will be the keynote speaker at the opening ceremony – to our professional partners e.g. representatives of the geospatial information societies. FIG is also very happy of the increased co-operation with its corporate members to the scientific programme. President Magel expects that the FIG Congress in Munich will make a new record both in participant figures and nations represented in the congress.



Surveyor in work for the FIG Congress.



The organising team promoting the congress at the FIG Regional Conference in Jakarta in 2004.

Greeting from the President

by Univ. Prof. Dr.-Ing. Holger Magel, President of the International Federation of Surveyors



This year is the last of our four-year term of presidency, the evaluation of the whole term of office will be made next year after the highlight of our period the FIG Congress in Munich is over. So this Annual Review will focus on commission activities and also summarizing the numerous activities that the Federation has implemented during the past year.

The end of the term of second German FIG leadership will at the same time end one part of the FIG history as we will conclude the transition period of the FIG administration structure, a long way that started a decade ago. When selecting material for this Annual Review and at the same time making an interim report of the past three and a half years, I can without hesitation summarise – and this was confirmed to me many times during my visits of and meetings with member countries and leading member representatives – that FIG has managed to improve its activities both internally and externally. This applies when we consider the number of members, member associations or the quick increase of universities as academic members. It is also very true in our partnership and co-operation with external partners like the United Nations and its agencies and other professional – or as I prefer to call them – sister associations. As part of trust to our activity and initiatives I am happy to say that FIG has been selected to chair at the moment both the Habitat Professionals Forum and the Joint-Board of Geospatial Information Societies.

As with every council the highlight of the four-year term of office of the German Council will be the XXIII FIG Congress to be held in my hometown Munich. This time the congress will be very special as we organise it jointly with the German Intergeo. This will bring even 15,000 to 20,000 visitors to the biggest FIG event ever. When looking at the huge tradeshow and numerous tours and side-events we should, however, not forget that the main purpose of the FIG Congress is still to collect the results of

the previous four years from our ten technical commissions, task forces and permanent institutions. Thus, the congress will be a real showcase on what has happened in FIG during the past four years.

In this Annual Review we give lot of space to the Commission activities that have taken place during the last year. As you can see from the number of events and other projects implemented by the commissions, their chairs, officers and national delegates, the commissions are as I have already pointed out many times as former

ACCO chair the real engine and soul of the Federation. Without these volunteers and their enthusiasm no seminar, no conference or report would be possible. The activities that the current commissions have taken have raised expectations to a high level for the new chairs elect who will take over the commissions in Munich. My special hope lies on an increased awareness of the importance of commission 10 and the approach of joining in of all other commissions with the work of commission 10.

After the previous Annual Review was published last year there are also some issues from the Council point of view that I would like to highlight. I apologise once again that we had to cancel the regional conference planned for Havana last year. However, we are very happy to announce that there will be a regional conference in Latin America in late 2007. Earlier this year we managed to organise an excellent regional conference in Accra thanks to the great enthusiasm of the Ghana Institution of Surveyors and the local organizers. The concept of regional conferences has really approved to be a successful concept. The Council has considered to continue with this concept, however in the future the regional conferences will be organized only every second year.

As you can also read in this Review the Council members and I have visited several member associations and potential member countries. It seems to be almost tradition that after each visit interest on FIG and to international co-operation in general increases and often culminates to membership – I mention here only Georgia as an example.

I am together with my Council satisfied to the progress and results that we have reached during the past years and with satisfaction notice that FIG will be in good hands also in the future. At the Council and Commission Officers meeting in Copenhagen in May we had the change to discuss the future governance structure of FIG. Even though there is need for

smaller justifications, in general we are on the way to right direction. At the General Assembly in Munich we will elect a new President and two Vice Presidents who will take over the administration for the next four years together with the two Vice Presidents that will continue in the new Council. The draft Commission work plans were discussed at the meeting in Copenhagen, also they seem to be very interesting and challenging for the future.

One area that I have been very pleased is the co-operation with the United Nations where FIG is often considered as the main or even premium professional partner. As an example I take our role at the UN regional cartographic conferences, co-operation with FAO and UN-Habitat at our own conferences and our visible role at the World Urban Forum in Vancouver in June 2006.

Finally I would like to point out that the economy of the Federation has improved remarkably during last years, which allows more flexibility for the next Council. However, I remind you that FIG can work efficiently only if the budget is well in balance. This requires also that all members have discipline in paying their membership fees. It is really frustrating or even painful for me and the Council to expel members of FIG which we have welcomed hearty just few years ago!

I have enjoyed the cooperation and contacts with you all. Special thanks belong to all our members, especially those presidents and board members who have welcomed me and Council members at our visits, naturally to all FIG functioners (especially commission officers and national delegates who are all volunteers),, but also to the Council members and the FIG office whose strong support and trustful cooperation I am very grateful for.

Formally the term of presidency of the German Council will conclude at the handover meeting in Münster, Germany 2 December 2006 which will be celebrated together with all old and new Council members and especially with the DVW. But before that I welcome you all to the FIG Congress in Munich in October. See you there!

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Dr. J. Magel'.

Holger Magel
President of FIG

FIG Regional Conference in Accra, Ghana, 8–11 March 2006



President Holger Magel had a meeting with the Chiefs before the opening ceremony.

Promoting Land Administration and Good Governance

The 5th FIG Regional Conference was organised in Accra, Ghana, 8–11 March 2006 together with the 37th Ghana Institution of Surveyors Conference. This was for the first time that FIG organised its regional conference in West Africa. The interest in Ghana and the region, particularly Nigeria should be mentioned, exceeded all expectations of the organisers. Totally almost 650 participants attended representing 50 countries – representatives from 20 African countries and from 30 countries from overseas.

The conference was organised by FIG and the Ghana Institution of Surveyors (GhIS) in co-operation with the Ministry of Lands, Forestry and Mines and the Land Administration Program (LAP). Co-hosts included FAO and UN-Habitat, the International Society for Mine Surveying, Joint Board of Geospatial Information Societies and the International Society of Photogrammetry and Remote Sensing (ISPRS). The Regional Centre for Training in Aerospace Science (RECTAS) and the Continental Geodetic Reference System for Africa and the African Geoid Project (AFREF) organized a special workshop at the conference sponsored by the UN Economic Commission for Africa. Sponsors and exhibitors covered the whole field of surveying and geomatics.

The theme of the conference “Promoting Land Administration and Good Governance” was well selected and proved to be most actual not only for Ghana but for the whole Africa. The big



President Magel giving his opening keynote address.

His Excellency John Henry Mensah, Senior Minister of Ghana gave the keynote address on behalf of HE Mr. John Agyekum Kuffour, President of the Republic of Ghana.



Dr. B. E. K. Prah, President of GhIS proudly welcomed the FIG family for the first time to Ghana.



land administration program that has started in Ghana gave good input both to the technical programme and discussions during the breaks. The participants also had the opportunity to make a study tour to get to know the project in practice.

At the opening ceremony the keynote addresses were given by Senior Minister HE **John Henry Mensah** on behalf of His Excellency Mr. **John Agyekum Kuffour**, President of the Republic of Ghana and Prof. **Holger Magel**, President of FIG. Greetings were brought by Hon. Minister, Prof. **Dominic Fobih**, Minister of Lands, Forestry and Mines and Prof. **Ian Dowman**, ISPRS, on behalf of JB GIS and other partners. The welcome address on behalf of GhIS was given by Dr. **B.E.K. Prah**, President of GhIS.

FIG was very pleased that the conference was so well covered in the media, part of this posted also on the FIG web site. This included the appearance of President Magel and President Prah in the morning breakfast show on television.

In the technical programme there were 25 technical sessions and workshops on AFREF, education in Africa and on cadastral domain model. Under the theme of the cadastral domain model the new programme the Global Land Tool Network established by UN-Habitat was introduced by Dr. **Clarissa Augustinus**, UN-Habitat and Mr. **Christiaan Lemmen**, FIG Commission 7. Running five sessions in parallel the technical programme attracted lot of delegates – the biggest sessions over 200 and plenary sessions more than 350 listeners. Totally almost 150 papers were presented and published on the FIG web site.

The technical exhibition was compact having booths covering surveying and geomatics technology internationally and in Ghana.

Social highlights of the week included the welcome reception and the Ghanaian Evening at the La-Palm Royal Beach Hotel, which was the conference venue and Gala Dinner at the Golden Tulip Hotel. The Gala Dinner was at the same time the Annual Awards Dinner of the GhIS including the handover ceremony of the presidency of the GhIS.

The joint technical tour on Saturday collected about 120 delegates to visit Kakum National Park, where they had the change to get to know rainforest during a canopy walk, and the Cape Coast Castle, where the history of the slave trade were explained.

Before the conference the FIG Council and Commission officers had their administrative meetings focussing mainly in implementation of their work plans and planning the FIG Congress 2006 in Munich in October 2006.



The cannons of the Cape Coast Castle are still on place reminding about the history of Ghana.



President Magel together with Mr. Stephen Djaba, the Congress Coordinator and without whom the conference would have not happen.



Big thanks belong also to all volunteers and the organising committee that made the congress so successful.

Commission Activities



Henning Elmstrøm, President of CLGE and Klaus Rürup, immediate past president of CLGE chairing the conference.



Group picture of the session chairs at the joint Commission 2,3 and 7 workshop in Budapest in April 2006.



Commission 3 Annual Meeting in Budapest chaired by Gerhard Muggenhuber from Austria.

Commission 1 – Professional Standards and Practices

Commission 1 has hosted two important networks with FIG. These are the Standards Network covering all commissions and being responsible for all FIG activities on standards. These include active participation e.g. in ISO TC 211 work and meetings and its outreach group. The coordinator for FIG standards work is Mr. **Iain Greenway**, United Kingdom/Ireland. The second inter-commission activity is the Network on Under-represented groups in surveying. This group started its work as a task force and has now collected its recommendations to a report that will be published at the FIG Congress in Munich. In addition this group chaired by Ms. **Gabriele Dasse** from Germany publishes a quarterly newsletter.

The major event in Commission 1 during the past year was contribution to the **CLGE International Conference 2005** "European Professional Qualifications in Surveying" which was held in Brussels, Belgium, 1–2 December 2005. Mr. **Klaus Rürup**, chair of Commission 1 and immediate past president of CLGE was one of the main organisers of this conference.

The conference was opened by a welcome address of Mr. **Henning Elmstrøm**, President of CLGE. The programme then included a number of themes each with a number of high profile papers in following sessions: The Present Status of the Surveying Profession in Europe (presenters included Dr. **Otmar Schuster**, Germany, **Andrea Liesenfeld**, European Commission DG Internal Market and Services and **Hagen Graeff**, Germany); Free Movement of Surveyors in Europe; Qualification for Authorised (Licensed) Surveyors (presenters included Prof. **Pedro Caverio**, Chair of Commission 2); Models for Qualification; The Future of the Surveying Profession in Europe; and Challenges for Civil Society (paper presented **Philippe Busquin**, Chairman of the Belgian National Mapping Agency, MEP and former Commissioner for Research).

FIG was represented at this conference in addition to Klaus Rürup by Prof. **Stig Enemark**, Vice President of FIG and Prof. Pedro Caverio.

Commission 2 – Professional Education

Commission 2 and its chair elect Prof. **Belá Márkus** were responsible for organising the **Geoinformation International Summer School** (GISS) which was started by the University of West Hungary, College of Geoinformatics in 2001. Last year this one week summer school titled GI in agricultural monitoring and land use planning was organised in Székesfehérvár, Hungary, 12–19 August 2005. The main promoter of these events is the UNIGIS International,

which is co-ordinated by the European Masters in Geographical Information Science (EMGISc) consortium. In 2003, the International Institute for Geo-Information Science and Earth Observation (ITC) joined the organizing team. In 2005 GISS focused on the area of GIS applications in agricultural planning and monitoring. Special emphasis was given to the impacts of the accession of new countries to the EU. The students were enrolled into 3 thematic working groups. The project-oriented programme included lectures in a plenary session, methodological seminars, training sessions, fieldwork, work in computer labs and presentation of the results achieved by the students in the work groups.

Commission 2 was also the main organizer of the joint Commission 2, 3 and 7 **Workshop on e-Governance, Knowledge Management and e-Learning**. This workshop was organised in Budapest, Hungary, 27–29 April 2006 in cooperation with the College of Geoinformatics, University of West Hungary, the Hungarian Society of Surveying, Mapping and Remote Sensing and FIG Commissions 2, 3 and 7.

Thirty presentations were given in nine sessions during this workshop. Speakers represented educational and governmental institutes as well as private foundations from all over Europe. The diversity of submitted papers is directly related to the 16 different countries that the authors represented.

The goal of the workshop was to reveal the present state of e-governmental activities, the solutions of arising problems as well as the trends-would-be. Nowadays there is high significance of knowledge acquisition, utilisation and distribution. According to this, there is wide-range opportunity to update and renew teaching methods exploiting the advantage of information technology-provided facilities. Materials can most effectively be distributed over the Internet to the trainees and learning groups helping their preparation as well as supporting each other during their learning. Thus the presentations of the workshop covered the e-governmental activities in surveying profession, the roles of knowledge centres, their maintenances, facilities, furthermore the up-to-date educational methods including their technical backgrounds. This three-day workshop was finished by the meeting of Commission 2. The representatives presented the current activities of Commission 2, furthermore delineated and discussed the work plan for the period of 2006–2010.

Commission 2 has further been very active in Latin America and in Africa discussing curricula development in these regions and searching initiatives how to improve the conditions of universities and surveying educational institutes in these continents. Following the Bologna

process in Europe is naturally of key interest to Commission 2.

Commission 3 – Spatial Information Management

Many people involved in the geographic information industry will have heard of the term “spatial data infrastructure” (SDI) and “spatial information management” (SIM). What do these mean in practice? Many of us witnessed at the GSDI/FIG Working Week in Cairo where several technical sessions devoted to SDIs and SIM. One session that was dedicated to definition demonstrated that nearly everyone has a different idea about what an SDI actually is! The same situation can be observed about the understanding of SIM.

During the last years SDI and SIM have been on the way to become a tool required for business processes. This was the trigger for a joint FIG/GSDI event in Cairo 2005. Commission 3 contributed with awareness to that development that can be seen in the outlined activities of the commission.

Commission 3 hold the Annual Meeting in Cairo and organized a pre-conference Workshop on e-Government for e-Citizens. The Workshop was initiated and organized by Mrs. **Kari Strande** chair of WG 3.1 (eGovernment and eCitizen).

Education and training in SDI and SIM are required ingredients for achieving the goals outlined in the commission work plan. Thus Commission 3 actively contributed to the International Summer School “GI in agricultural monitoring and land use planning” in Székesfehérvár, Hungary, August 2005.

Cooperation is a main issue of this Commission which is endeavored in collaborations within FIG, but is also interested in close cooperation with sister organisations as the following examples show:

- 3D cadastre is a joint activity with Commission 7 where Commission 3 is represented by **Yerach Doytsher**.
- Activities on positional accuracy improvement that resulted in a workshop in Munich in conjunction with EuroSDR initiated by **Keith Murray**, Chair of WG 3.2 (SIM Infrastructure).
- Dr. **Chryssy Potsiou**, chair of WG 3.3 (State of art of SIM) is a member of the steering committee of the UN ECE Working Party on Land Administration. Commission 3 members contributed to the WPLA publication “Land Administration in the ECE region – Development Trends and Basic Principles”.

Commission 3 also promotes inter- and trans-disciplinary cooperation: its members participate actively at several conferences with

commission 3 relevant aspects. E.g. **Reinfried Mansberger**, Vice Chair on Administration and Information, participated at the Dubai conference on Archiving and Documentation. Within commission internal information exchange and information management is an important issue, this includes periodic emails and own website. Commission members collect continuously information of national and international SIM-related activities and conferences. Once in a year this information is sampled on a CD-Rom which is sent to approximately 450 people within the international Commission 3 community.

Commission 3 was co-organizer of the joint workshop on e-Governance, Knowledge Management and e-Learning in Budapest, Hungary, 27–29 April 2006. Commission organised also its annual meeting in conjunction to this workshop. The annual meeting was attended by delegates from 8 countries.

Commission 4 – Hydrography

Among the highlights of the work of Commission 4 was the Working Week in Cairo, where the close relations with the International Hydrographic Bureau were further strengthened as Vice Admiral **Alexandros Maratos**, President of IHB made a keynote presentation. Further a MoU was signed with the International Federation of Hydrographic Societies.

In August 2005 Ms. **Ruth Adams**, Co-chair of WG 4.3 Vertical reference frame (VRSH), a joint activity with Commission 5, attended conference Dynamic Planet in Cairns, Australia.

Mr. **Adam J. Kerr** attended on behalf of Commission Intergeo in Düsseldorf, Germany in October 2005. His presentation “Hydrography and disaster management” was also published as the FIG article of the month. He also represented Commission at the UK Hydrographic Society seminar “More than just Button Pushers” in November 2005.

Mr. **Gordon Johnston** represented commission at the IHO Capacity Building Seminar in Trieste in October 2005. The seminar’s objective was to raise awareness at governmental level of the importance of hydrography to safety of navigation and national economic development, and to explore initiatives of common regional interest. In particular the seminar was arranged to aid in the development and / or the improvement of the existing hydrographic capabilities in the West and Central African Region following a special request made by several United Nation Assembly resolutions.

At the end of the year second Commission 4 CD covering years 2004–05 was launched including IHO manual on hydrography. The CD was distributed to all national Hydrographic Societies and IHO Member States.

Commission 5 – Positioning and Measurement

The past year has been a very active year for Commission 5. Commission had several strong technical sessions at the Working Week in Cairo. Most of the Commission 5 Steering Committee members attended the meeting, which allowed good progress on the current work plan and discussion of **Rudolf Staiger**’s ideas for his term as Commission Chair from 2006 to 2010. A highlight in Cairo was a meeting on the African Reference Frame Project (AFREF), involving interested parties from many African countries. Also in attendance were the President of International Association of Geodesy (IAG), President of IAG Commission 1 and Director of the Central Bureau of the International GNSS Service (IGS). The IAG leads the AFREF Project and FIG was delighted to assist with the meeting to further this important project for Africa.

In August, **Mikael Lilje**, **Rob Sarib** and **Georgia Fotopoulos** (all members of the Commission 5 Steering Committee) joined **Matt Higgins**, Commission Chair at Dynamic Planet 2005, the IAG Scientific Assembly in Cairns, Australia. Commission co-sponsored two workshop sessions on Vertical Reference Frame and on Dynamic Datum, which were very well received by the operational geodesists. IAG agreed to cooperate with Commission 5 on similar sessions at the FIG Congress in Munich in 2006. The conference also allowed meetings with key IAG officers (including President **Gerhard Beutler**) to discuss practical issues for continuing the excellent cooperation between FIG and IAG. Representatives of FIG Commission 4 and 6 also attended that meeting.

Vice Chair, **Naser El-Sheimy** and Matt Higgins met with **Dorota Brzezinska** (US Institute of Navigation – ION) and **Chris Rizos** (IAG Com 4) in Melbourne. This enabled further discussions toward possible three-way cooperation between FIG, IAG and ION, especially on GNSS matters.

In late November, the chair attended the South East Asian Survey Congress in Brunei, as did President Magel and Vice President **TN Wong**. That event continues to be a great forum for Surveyors in that very dynamic region. Chris Rizos (IAG Com 4), **Steve Hewitson** and Matt Higgins were co-authors of a paper, presented by Chris, on GNSS Developments.

In 2004, UN General Assembly Resolution 59/2 invited GNSS and augmentation providers to establish an International Committee on GNSS (ICG) to maximize the benefits of the use and applications of GNSS. In December 2005 at a meeting convened by the UN Office for Outer Space Affairs (UN OOSA) in Vienna, Austria,

Commission Activities



Adam Greenland, Chair of Commission 4 having discussions with Hugo Gorziglia, Director of IHB at the FIG Regional Conference in Accra.



AFREF Workshop at the Regional Conference in Accra.



Joel Van Cranenbroeck (Leica, Belgium), Chris Rizos (Univ. New South Wales, Australia) and Dorota Grejner-Brzezinska (Ohio State, USA) at the joint FIG/IAG Symposium in Baden in May 2006.

interested governments, inter-governmental and non-governmental organizations present at the meeting agreed to establish the ICG. Matt Higgins represented FIG at that meeting and was appointed FIG's member in the ICG. He also took the opportunity to meet with staff from UN OOSA to discuss their MoU with FIG. On the way home from Vienna he also attended the 2005 International Symposium on GPS/GNSS in Hong Kong, SAR China.

In 2006 Rob Sarib has been doing an excellent job setting up commission 5 programme for the FIG Regional Conference in Accra. A highlight at this conference was a workshop on AFREF concentrating on issues for Western Africa's sub-region (WAFREF). The UN Economic Commission for Africa sponsored the workshop.

Some highlights of Commission 5 working groups include: WG 5.1 (Standards, Quality Assurance and Calibration) has contributed to a new ISO Work Item on Surveying with GPS; WG 5.2 (Reference Frame in Practice) made strong involvement in AFREF Meeting in Cairo and the IAG Scientific Assembly in Cairns and has developed web content on reference frame issues relevant to surveyors; WG 5.3 (Integrated Positioning, Navigation and Mapping Systems) chair has, as part of the co-operation with UN OOSA drafted a curricula on GNSS for the Space Technology Education Centres. The WG continues to use the web pages for the sub-group on GNSS Developments and Modernization to publish up to date information of relevance for surveyors. WG 5.4 (Cost Effective Surveying Technology and Techniques for Developing Countries) has worked on the FIG publication on this topic that will be finalized by the Congress in Munich.

Commission 6 – Engineering Surveys

Engineering Surveys also attracted the surveying and deformation community in 2005 which was proved by both the dedicated Commission 6 events and the Working Week in Cairo.

Commission 6 has launched two newsletters and first commission CD including proceedings of the 1st FIG International Symposium on Engineering Surveys for Construction Works and Structural Engineering, Nottingham, UK, June 2004 and the 3rd International Conference on Engineering Surveying and FIG Regional Conference for Central and Eastern Europe, Bratislava, Slovakia, November 2004.

The 7th Conference on Optical 3D Measurement Techniques took place in Vienna, Austria, 3–5 October 2005. This time the conference was attended by almost 500 attendees and was supported by the FIG Commissions 5 and 6, ISPRS Commission V, and IAG SC 4.2. The aim

of the conference was to bring together experts and users from the fields of photogrammetry, surveying, geodesy, machine-, computer- and robot- vision, spatial information systems from a variety of working areas (universities, industry, government) to discuss recent scientific and technical advancements and applications for optical static and kinematic 3D measurement techniques. Emphasis in the meeting was placed at new and emerging technologies, specifically in laser-scanning. A total of 95 papers were presented at a number of topics such as close range imaging techniques, metrology and calibration issues, laser scanning, surface measurement and modelling techniques, mobile mapping systems and their applications.

Unfortunately the 12th International Symposium on Deformation Measurements in Shandong in China had to be cancelled. It was replaced by a joint meeting of the International Federation of Surveyors (FIG), Commission 6, Working Group 6.1 on Deformation Measurements and Analysis and the International Association of Geodesy (IAG), Sub-Commission 4.2 was held in Baden, Austria on May 22–24, 2006. The symposium attendance was 140 participants from 35 countries. Over 120 papers were presented in 23 technical sessions and a poster session. The symposium opened with two keynote presentations by **Chris Rizos** from University of New South Wales, Australia, and **Joel Van Cranenbroeck** of Leica Geosystems, Belgium. Prof. **Heribert Kahmen** and Prof. **Adam Chrzanowski** were in charge for the arrangements.

Commission 7 – Cadastre and Land Management

Commission 7 has continued to act along three lines: firstly, identifying the strategic aspects for land administration organisations of new developments in information technology. Part of the **Annual meeting 2005 in Madison** (Wisconsin, USA) was a two-day symposium on innovative technologies.

Secondly, the Commission was interested to acquire more knowledge about land administration under the Islamic law. Therefore the Commission organised a **symposium** under the slogan **Towards a Secure and Reliable Land Register on land registration in the Arab world** at the Dead Sea Valley in Jordan, 1–3 September 2005. During this Symposium the challenges and ambitions related to the establishment of secured and reliable land registers in the Arab world were discussed. The Symposium was organised by the Jordan's Department of Lands & Survey, in close collaboration with the Arab Union of Survey and FIG.

This symposium aimed to portray land reg-

istration systems in the Arab countries, history, experiences, challenges and future ambitions as well as to share international experiences in this domain. The 24 presented papers, were categorized in four main topics: Land Registration Systems; Modern Technologies; International Experiences, and Future Ambitions. 140 Experts in Land Registration from 23 Arabic and other countries participated.

Thirdly the Commission together with UN-Habitat and UNESCAP organised a two-day **expert group meeting about land tenure, new land laws and tools** in Bangkok, to come to grips with unconventional approaches to land administration and land management. More than 50 experts from more than 20 countries were invited to join the meeting held in the UN Conference Centre in Bangkok. 22 papers on the subject were presented and discussed. Results of the meeting will be presented at the World Urban Forum to be held in Vancouver in June 2006.

Further Commission was represented by Mr. **András Osskó**, Chair elect at a three-day **International Seminar on Cadastre for Sustainable Development** in Bogotá, Colombia 22–24 November 2005.

Commission also took the initiative together with GIS Development and Centre for Science, Development and Media Studies (CSDMS) to dedicate a two-day **international conference on Enhancing Land Registration and Cadastre** in India, as part of the bigger event Map India 2006 in January 2006. The event that witnessed participation of around 50 delegates from different parts of the world, aimed at covering the wide spectrum of issues of land administration ranging from economic and social benefits of good land administration on one hand to the application of low cost technology on the other hand.

The FIG **Commission 7 Annual Meeting 2006**, was held in Bled, Slovenia 12–16 May 2006. Because of the FIG Congress in Munich, the Commission decided to hold this year only a short annual meeting. The Meeting was organised in close co-operation with the Slovenian Association of Surveyors. In total 50 participants from 25 countries attended including Bosnia and Herzegovina, Croatia, India, Latvia, Lithuania, Macedonia, Montenegro, Portugal and Russia for first time. More than thirty short presentations were given, each of them motivating the delegates for lively and professional discussions. The programme was very intensive but high quality presentations and discussions provided sufficient energy to the delegates.

Papers and presentations from all events are available on the FIG-website and the documenta-

tion center www.oicrf.org. Three newsletters were published.

Commission 8 – Spatial Planning and Development

Commission 8 continues to make headway in its aspiration to build its profile from the low activity level seen in the early part of this term; as the chairman's strategy evolves, to promote collaboration and connectivity as the basis on which the commission may grow. Since the working week in Cairo 2005, activity has concentrated upon working within three key areas, first, within the Commission, next inter-commissions and finally with member organisations.

Foremost is the need to reach our individual members. As reported in September 2005 newsletter, commission collaboration continues to grow as we welcome new members. Clearly, within the surveying family of geomatics and land economists, there is only a relatively small amount of people who work exclusively within the specific technical skill base of the spatial use of land as their primary focus. Thus it is recognised that delegates will be drawn from individuals who consider Commission 8 as their secondary interest. Thus, the commission activities have a tendency to reflect the over all holistic project management role that land economics and land use skills demands.

Collaborating at the national level continues to be busy with networking and meetings within the African Region. The chair has been actively involved in Eastern Africa and was able to collaborate with colleagues, first meeting with Chairman of the Nairobi Central Business District Association, to discuss working group topics. Next, in Nairobi, holding a very positive meeting with the current president and senior members of Institution of Surveyors of Kenya (ISK) to explore and devise themes for a joint seminar with ISK. In addition, liaison with Ghanaian colleagues progressed to explore the possibilities of developing their individual member involvement in the next terms working groups relating to environmental and spatial development topics.

Dr. **Diane Dumashie**, Commission chair and Vice President **Ken Allred** represented FIG at a **Regional conference of the Commonwealth Association of Surveying and Land Economy (CASLE)** in Bagamoyo, Tanzania, 13–17 March 2006. The conference theme was *Promoting Sustainable Land Management in Africa*. Nearly fifty papers addressed sub themes such as innovative land tenure systems, equity issues, access to land, and land titling to name a few. Speakers and delegates represented most of the British Commonwealth countries in Africa as well as the United Kingdom, Malaysia,



Commission 7 Annual Meeting in Madison, Wisconsin, USA in June 2005.



Paul van der Molen welcomes the participants to the Expert Group Meeting in Bangkok in December 2005.



Dr Diane Dumashie, Chair of Commission meeting with W Nabutola Chairman of the NCBDA, Members of ISK M Makathimo Hon Treasurer, R Okumu Chairman, I N Mwachane Past Chairman.

Commission Activities



FIG representatives Vice President **Andreas Drees** (left), **Kauko Viitanen**, **Carla Seidel**, **Henning Elmstrøm** and **Stephen Yip**, Chair of Commission 9, at the International Valuation Conference in Xian in October 2005.



Commission 10 meeting on quantity surveying gathered a full hall to discuss construction economics in FIG at the regional conference in Accra.



Dr. **Andreas Drees**, Chair of the ACCO, here at a meeting in the FIG office in 2006.

Sweden, Germany and Canada. Approximately 200 people were in attendance.

Co ordinating inter- commission activity occurs through the working group outputs. Salient highlights include: WG 8.3 (Spatial and development aspects within Informal settlements) met with the UN Habitat Chief of Land and Tenure Branch to clarify and progress the outputs due in 2006, identified key people involved in target projects and continuing to inviting and encourage appropriate papers and collaboration with CASLE, in presenting relevant papers at the conference held in Bagamoyo. WG 8.4 (Disaster Risk Management) has defined the contribution of the surveying profession to disaster risk management, geodetic applications in geodetic engineering, photogrammetry and remote sensing, geographic information systems, satellite geodesy as well as urban planning and land management and continued improvement and enlargement of the working group web site www.isbk.uni-bonn.de/fig. Further it has research project activity with four papers integrating four themes including, megacities, tools for prevention, valuation and risk management strategies for planning

Commission 9 – Valuation and the Management of Real Estate

The main activity of Commission 9 was its annual meeting and the **International Valuation Conference** in Xian, China 17–20 October 2005 which the Commission organised in cooperation with CIREA (China Institute of Real Estate Appraisers and Agents) and the Hong Kong Institute of Surveyors. The conference at the Xian International Conference Centre was attended by more than 300 registered participants. The FIG delegation was led by Vice President **Andreas Drees** with other representatives Mr. **Stephen Yip** (Chair of Commission), Prof. **Kauko Viitanen** (incoming Chair) and Mr. **Henning Elmstrøm** (Danish delegate to Commission 9 and President of CLGE). On a technical tour a valuation company founded in 2000 and having now 25 employees was visited. On top of this early morning meetings led by Andreas Drees resulted in a draft for the future work in Commission 9 and in positive results for the future cooperation between CIREA and FIG.

Commission 10 – Construction Economics and Management

Commission 10 exists, in the first instance, as a result of the breadth of scope of the survey activities of some of the federation's founding and longer standing member associations. Construction economics is a collective title grouping together a number of professions as they exist in the construction industries of

most countries of the world. Very broadly, the science embraces all aspects of budget, cost and value management; quantification of works; tendering (bidding) and contract administration as they apply to construction of the infrastructure and buildings of the built environment. Its practitioners may be called Construction Economists in some countries but elsewhere they may be known as Quantity Surveyors or Building Surveyors or Cost Managers; all are equally appropriate and valid.

Management, as associated with construction economics, is using the knowledge and expertise of trained practitioners to achieve the required commercial and contractual outcomes to the construction process. This encompasses formulating procurement strategies and negotiating the terms and conditions of and managing contracts through to their final settlement. It has evolved as a distinct profession whereby the skills may be applied to manage any contracting situation to achieve planned objectives and the optimum commercial result. The title Commercial Manager is now used widely to convey the breadth of the skill set of the experienced practitioner. The function of Commission 10 is to provide within FIG the forum for the study and discussion of all issues related to construction economics and commercial management.

Commission had a successful meeting with participants from many African countries at the FIG regional conference in Accra. The current challenge is to invigorate Commission 10 with an agenda that addresses the relevant issues of the 21st century and fosters participation in its activities so that, as an active part of FIG, its work will benefit all in the global surveying community.

Activities 2005–2006

Member visits

President **Holger Magel** visited the Polish member association of surveyors in Warsaw 22–24 June 2005. His visit was combined to the **60th anniversary celebrations of the Polish Head Office of Geodesy and Cartography (GUGIK)** at the Royal Castle in Warsaw. He the head office of SGP and had a meeting with representatives of Warsaw geodetic students association GEOIDA, who invited the President to the International Geodetic Students Meeting (IGSM) in Krakow in June 2006.

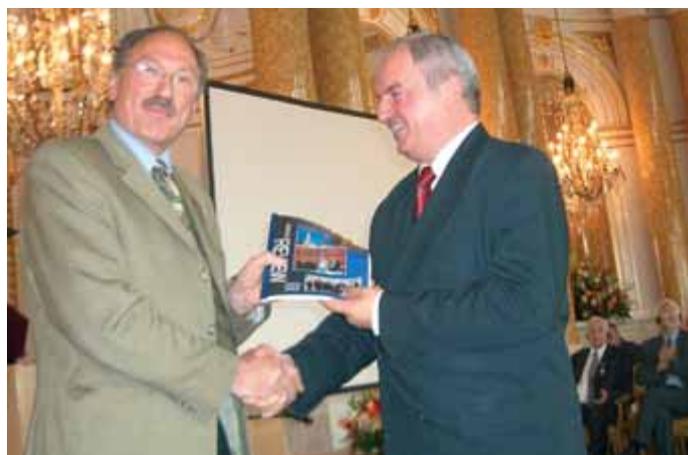
President Magel also visited the **Chamber of Surveying Engineers of Turkey** in Ankara 6–7 July 2005 after his visit to the XXII International Architects' Congress (UIA) in Istanbul. During this visit he had a meeting with the Chamber of Surveying and Cadastral Engineers (HKMO). Against the background of the intended accession of Turkey to European Union Prof. Magel was asked to give two lectures about "European policy for rural development" and "New paradigms in Land Consolidation".

The 25th ESRI User Conference was organized at the San Diego Conference Centre 25–29 July 2005. The **3rd Survey and GIS Summit** was linked to the User Conference taking place 22–26 July at the same venue. FIG participated the Survey and GIS Summit as a gold sponsor and attended also the exhibition at the User Conference sharing an exhibition booth with the American Congress on Surveying and Mapping (ACSM). The Survey and GIS Summit 2005 Bridging the Gap gathered more than 300 participants to discuss how to improve the co-operation and bridging the gap between surveying and GIS.

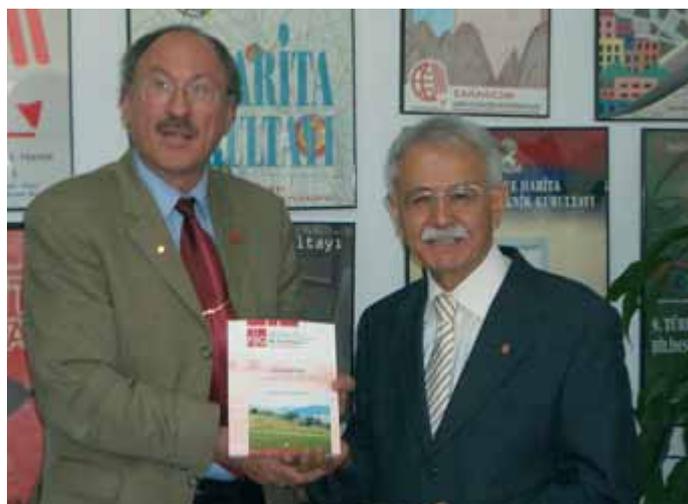
Vice-President **Stig Enemark** visited Bogotá, Colombia, 8–13 August under the celebration of the **70th Anniversary of the Agustin Codazzi Geographic Institute, IGAC**. The celebration was held as an international event "Week on Geomatics 2005", organized by IGAC and the Europe Union Project: "Improvement of Colombian Cartographic Systems".

President Magel attended the **5th European Congress on Village Renewal – "Rural Areas in 2005 – Changing Realities – New Challenges"** which was held in St. Pölten, Austria, 21–22 September 2005. President Magel attended the congress as the Chair of the Habitat Professionals Forum and made a keynote presentation titled: "The resources of rural areas. A plea for sustainable land management and an active civil society".

Intergeo 2005 was organized under theme "Grenzen überschreiten" in Düsseldorf, Germany 4–6 October. The exhibition was visited by over 16,000 professionals (about 15 per cent outside



President Magel and Surveyor General of Poland Jerzy Albin in Warsaw in June 2005.



President Magel and President Hüsein Ülkü (HKMO).



Perhaps the most visited booth at the Intergeo 2005 was the FIG 2006/Intergeo 2006 stand offering Bavarian beer and snacks.

Activities 2005–2006



International day at CNG Congress: CNG President Piero Panunzi (1. from right) and FIG President Holger Magel with RAI journalist as moderator.



First meeting of the FGF in Rabat in November 2005.



Organisers and keynote speakers of the expert group meeting in Melbourne: Daniel Steudler (left), Stig Enemark, Holger Magel, Ian Williamson and Paul van der Molen.



President Magel and the Chair of the organising committee of SEASC, and President of BIG Pg. Hj. Matusin Matusan (right) and Congress Director Jamil Ali in Brunei in November 2005.

Germany). The exhibition introduced more than 500 exhibitors from 24 countries. The annual conference of DVW attracted about 1,600 delegates which is the best figure during the last few years. The conference was organised jointly with the Geodetic Week (Geodätische Woche). At the traditional FIG Forum, the topic was this year "Tsunami – Surveyors Contributions in Risk Prevention". This special session attracted about 100 participants. Presentations were made by Adam Kerr on behalf of FIG Commission 4 on "Hydrography and Disaster Management – The Role of Hydrography in the Management of Marine Disasters". FIG attended the Intergeo 2006 – a longer tradition by now – also in the exhibition at the DVW booth distributing information about the federation and FIG future events.

FIG founding member Consiglio Nazionale Geometri, CNG held its **43rd National Congress** in Palermo 17–22 October 2005. CNG had invited President Magel was invited to speak to more than 500 participants from all parts of Italy and representatives from FIG member countries. According to the conference motto "New horizons for the profession: guarantees for the society in evolution" FIG President gave at the International Day a keynote speech "About the identity, socio-political role and technical tasks of surveyors on the national and international stage". The next speaker after Prof. Magel was the former FIG Commission 7 Chair and current Division Chief for Land Tenure of UN FAO Dr. **Paul Munro-Faure**, who explained the global work of FAO. President Magel congratulated President **Piero Panunzi** for successfully attracting high ranked European and Italian Ministers and Members of the Parliament and also prominent journalists to the congress.

Dr. **Ralf Schroth**, Vice President of FIG participated the **4th National Congress of the Ordre National des Ingénieurs Géomètres-Topographes (ONIGT)** in Rabat, Morocco, 24–26 November 2005. The conference was attended by about 400 participants out of this 100 international. The main topic of the conference was the new cadastre for Morocco. Dr. Schroth made his address at the opening ceremony on behalf of FIG. During the conference there was also the first meeting of the Federation des Géomètres Francophones (FGF), which was founded in Rabat. The first President of FGF is Mr. **Alain Gaudet** (OGE, France) and Vice President Mr. **Aziz Hilali** (ONIGT, Morocco). In the FGF statutes there is a reference to the cooperation with FIG. At the founding meeting Dr. Schroth gave a greeting from FIG together with Moroccan Minister of Agriculture.

Ken Allred, FIG Vice President, made a presentation on *The Art of Surveying at Rendezvous 2005* in Spokane Washington,

USA, October 2005. Rendezvous 2005 was organized by the Surveyors Historical Society to commemorate "Surveying the Northwest with David Thompson." The three day conference had presentations on the surveying of the Canada United States boundary.

The **Expert Group Meeting on Incorporating Sustainable Development Objectives into ICT Enabled Land Administration Systems** was held in Melbourne, Australia, 9–11 November 2005 as a result of a research project analyzing Land Administration Systems in Europe and Australia. The project is conducted by Prof. **Ian Williamson** and Ms. **Jude Wallace**. The international expert group meeting was conducted to examine how European countries achieve this integration and to identify lessons that could be applied in Australia. The discussions were open, wide ranging and fruitful. Europe was represented by Prof. Holger Magel, President of FIG, Prof. **Paul van der Molen**, Chair of FIG Commission 7, Prof. Stig Enemark, Vice-President of FIG and Dr. **Daniel Steudler**, FIG Commission 7.

FIG President and Vice President **TN Wong** attended the **8th South East Asia Survey Congress** in Brunei Darussalam 21–25 November 2005. About 220 geomaticians and surveyors from more than 30 countries followed the invitation to participate the SEASC, which was held the first time in Brunei Darussalam. President Magel was invited to give the keynote address and the closing remark, in which he underlined the need for more 'generalists' than only specialists. At the already traditional FIG session, chaired by FIG commission 5 chair Matt Higgins, President Magel and Vice President TN Wong explained some policies of FIG.

Following a long standing invitation, FIG President Prof. Holger Magel visited the Ukrainian Member Association on the occasion of the **GEOFORUM 2006** in Jaworiv and Lviv 5–9 May 2006. President of the Ukrainian member association of FIG, Prof. **Igor Trevogo** regarded the visit of FIG President historical, because for the first time the FIG President visited the surveyors' community in Ukraine. During his visit President Magel gave a welcome address to the congress and had meetings with the Director of the Ukrainian Survey and Cartography Authority, Prof. **Rostyslaw Sussa** and with the Director of the State Committee of Land Resources Ukraine in Lviv Region and at the Polytechnic National University in Lviv.

FIG President was invited by the Austrian member association Österreichische Gesellschaft für Vermessung und Geoinformation to give a key note address at the opening ceremony of the **9th Austrian Geodetic Days** in Krems / Lower Austria 3–5 May 2006. Prof.

Magel spoke to more than 550 colleagues from all parts of Austria and from 8 other European countries about the "Future of geodesy from global perspective". His speech was afterwards intensively discussed by politicians, scientists and practitioners. There was a general acceptance that surveyors should take care of an excellent education and enlargement of their activities especially in the increasing field of land management.

Following the invitation of LKN Earth Research & Consulting, an FIG corporate member, President Magel visited Tbilisi, Georgia 9–12 May 2006. Director General **Merab Nadaraia** emphasised the importance of FIG President's visit to Georgia, a country which with support of many international agencies and donors has to build up modern infrastructure and market economy mainly based on digitized cadastre and registers. The membership in FIG has to be first priority for Georgian surveyors and the newly established association tries to become a member of FIG already at the Congress in Munich. During his visit President Magel gave a keynote speech at the **UNECE WPLA Workshop on Institutional Framework for Securing Real Property Rights**, which took place at the same time gathering 120 participants from 25 countries.

President Magel visited Israel 24–28 May 2006 by the invitation the **Israel Association of Licensed Surveyors** and the Survey of Israel, whose Director General **Haim Srebro** will be the Congress Director of FIG Working Week 2009 in Eilat. During their four-day visit, Prof. Magel and his wife **Ansi** met the President of ALS, Mr. **Joseph Kraus** and members of the local organizing committee of Working Week 2009. President Kraus and Congress Director Srebro expressed their great engagement and confidence to guarantee a safe and unforgettable conference 2009. President Magel expressed his hope and encouraged his hosts to send a strong Israeli delegation to the FIG Congress in Munich and to present according to the high quality and standard of geodetic education and practice in Israel a lot of papers.



Prof. Magel with the Director General of the Ukrainian Geodesy and Cartography Authority Prof. Dr. Rostyslaw Sussa and the President of the Ukrainian Association of Geodesy and Cartography Prof. Dr. Igor Trevogo.



President Magel in Georgia together with LKN General Director Merab Nadaraia (left), Prof. Joseph Salukvadze and LKN Consultation Group Leader Nino Sulkhanishvili.



President Magel awards Israeli member President Joseph Kraus with FIG globe.



Vice President Stig Enemark and Prof. John Parker representing FIG at the UNRCCA in New York.



Dr. Lars Reutersward, UN-Habitat, Prof. Holger Magel, Ms. Aydan Erim, UIA and Mr. Selman Ergyden, UN-Habitat at the Habitat Professionals Forum Steering Committee meeting in Istanbul.



Dr. Clarissa Augustinus, Chief of the Land and Tenure Unit, UN-Habitat, and Prof. Stig Enemark, Vice President of FIG, during the UN-Habitat Workshop in Oslo.

UN Co-operation

Vice-President **Stig Enemark** and Prof. **John Parker** represented FIG at the **Eighth United Nations Cartographic Conference for the Americas (UNRCCA)** held in New York 27 June – 1 July 2005. The conference is convened every four years (since 1976). The conference attracted 140 participants from 33 countries. About 20 country reports were tabled and 40 invited papers were presented. The program included a number of interesting papers on SDI developments in the Latin America and Caribbean Region as well as a number of invited papers from other countries and professional institutions. Prof. Enemark presented a FIG position paper on “*Supporting Capacity Development for Sustainable Land Administration Infrastructures*”. He also presented a joint paper with John Parker focusing on the outcome of the “*Special Forum on the Development of Land Information Policies in the Americas*”. The FIG publication “*Aguascalientes Statement*” was tabled and endorsed as a result of resolution adopted at the UNRCCA held in 2001. Both the papers and Statement were very well received. As a further result of the Special Forum in Aguascalientes, **Paul van der Molen**, Chair of Commission 7 was invited to present a paper on the Land Administration Systems in Europe.

As part of the co-operation with the UN-Habitat the Habitat Professionals Forum organized in conjunction to the **UIA World Congress** (International Union of Architects) in Istanbul – with more than 6,000 delegates – an own session on the hot topic “*Governance – People – Professionals*” under the chair of President Magel, who is the current chair of the Steering Committee of the HPF. The panelists including Dr. **Lars Reutersward** (UN-Habitat), Prof. Magel, Ms. **Aydan Erim** (UIA) and Mr. **Selman Erguden** (UN-Habitat) discussed the changed roles of planners and architects as professionals in a changed world of increasing civil society, good governance principles and citizens who ask for more participation. It was summarized that more than ever professionals must be able to match these new challenges. Universities have to teach very early modern methods, instruments and skills in informal planning, moderation, mediation and even conflict management.

At the meeting of the **Steering Committee of the Habitat Professionals Forum (HPF)** the most inspiring outcome of the meeting was the clear expression of UN-Habitat representatives that the HPF is regarded as a very important professional partner for UN-Habitat at the global level and that it is therefore asked to make strong contributions to the program of the 3rd World Urban Forum in Vancouver in

June 2006.

Vice-President **Stig Enemark** attended the UN-Habitat workshop in Oslo 23–24 March 2006 to present the FIG commitment to the **UN-Habitat Global Network for Development of Innovative Pro-Poor Land Tools**. About 100 participants attended the workshop by invitation representing various land right related organisations throughout the world being potential partners of the Global Land Tool Network.

The first half day was organised by the High Level Commission for Legal Empowerment of the Poor (HLCLEP). The High Level Commission is chaired jointly by Dr. **Madeleine K. Albright**, former Secretary of State, USA, and Mr. **Hernando de Soto**, President of the Institute for Liberty and Democracy, Peru. Presentations were given, among others, by Mr. **Naresh Singh**, Secretary General of the High Level Commission, Mrs. **Anna K. Tibaijuka**, Executive Director of UN-Habitat. The key objective of the commission is to generate political support for broad reforms that will ensure legal inclusion and empowerment of the poor including fungible property rights for their assets and access to credit and capital. The following one and a half day focused on the Global Land Tool Network (GLTN) with Dr. **Clarissa Augustinus**, Chief of the Land and Tenure Section at UN-Habitat, playing a key role. A range of presentations were given to introduce and discuss various mechanisms of the GLTN such as peer review mechanism, gender mechanism, grassroots mechanism and dissemination mechanism. Also, a range of partner presentations were given on ongoing and planned land tool programmes and initiatives world wide.

FIG Vice-President Stig Enemark presented the FIG commitment to the GLTN which is in line with the general commitment of FIG – especially within Commission 7 and 8 – for developing and promoting the concept of land administration systems for sustainable development where special attention has been given to good governance, gender issues, and pro-poor land tools. The contribution of FIG to the GLTN will be mainly in the area of analysing and designing adequate land administration systems that include relevant pro-poor land tools, promote social inclusion, and support sustainable development. The project on developing a Social Tenure Domain Model can be seen as such an example of and FIG contribution to the GLTN. The project was presented at the recent FIG Regional Conference in Accra, Ghana.

Sister organizations

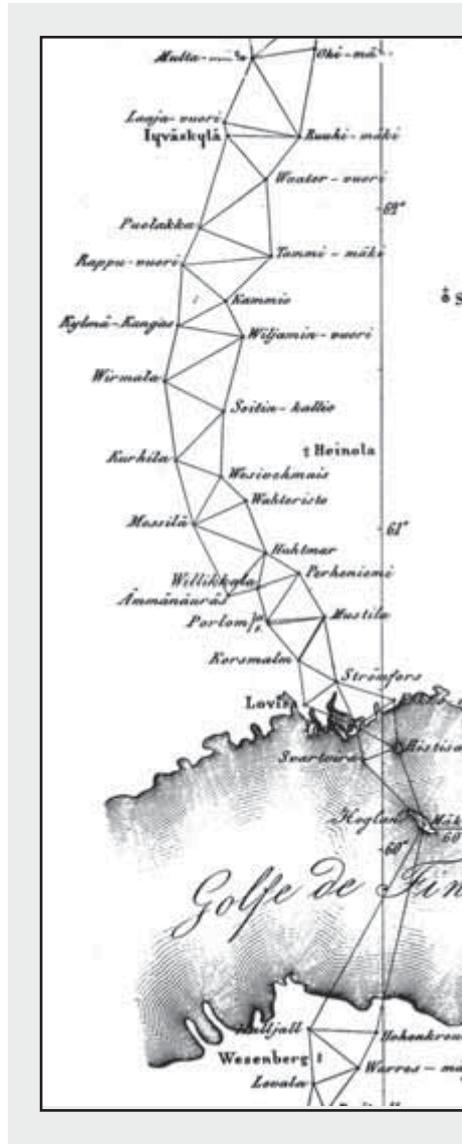
Vice President **Ralf Schroth** represented FIG at the **XXII International Cartographic Conference (ICC2005)** in A Coruña, Spain 9–16 July 2005. The International Cartographic Association (ICA), the Spanish Society for Cartography, Photogrammetry and Remote Sensing and the A Coruña Local Organizing Committee prepared an interesting and successful event in the newly established conference center PALEXCO in the harbor of A Coruña. The conference attracted 1,625 participants from 60 countries. The attendees got an excellent opportunity to get familiar with the state of the art of the wide field of Cartography and the latest scientific approaches. The technical programme was almost overloaded - during the four and half day technical programme there were 150 technical and poster sessions about 26 different themes, several working group sessions and some special technical sessions about ISO Standards, Cartography and SDI, Aerospace Technologies and European Navigation Systems. When totally five pre-conference workshops are added there was professional programme for 10 days. In the technical programme more than 500 oral and 200 poster presentations were made.

Permanent Institutions

FIG has three permanent institutions (**The International Office of Cadastre and Land Records – OICRF**, www.oicrf.org; **The FIG Multi-Lingual Dictionary Board**, www.bkg.bund.de/nn_5594/EN/FederalAgency/InformationServices/fig_node.html_nnn=true; and **The International Institution for the History of Surveying and Measurement – Permanent Institution of FIG**, www.fig.net/hsm). In addition there is an independent the **FIG Foundation**.

Task forces

At the moment FIG has one task force established by the FIG Council. The **Task Force on FIG Governance Structure** shall conduct a review of the FIG Statutes and Internal Rules. In particular the Task Force will: review the Commission structure; review the term of office of Commission Chairs; review the election procedures including the role of the Nomination Review Group and the Commission Review Group; and review the Statutes and Internal Rules for inconsistencies and redundancies regarding the new governance structure subsequent to 2006. This task force is chaired by Vice President **Ken Allred**.



The Struve Arc as the first approved surveying site on the UNESCO's World Heritage List – Belarus, Estonia, Finland, Latvia, Lithuania, Norway, Republic of Moldova, Russian Federation, Sweden and Ukraine host the Struve Geodetic Arc

The Struve Arc is a chain of survey triangulations stretching from Hammerfest in Norway to the Black Sea, through ten countries and over 2,820km. These are points of a survey, carried out between 1816 and 1855 by the astronomer **Friedrich Georg Wilhelm Struve**, which represented the first accurate measuring of a long segment of a meridian. This helped establish the exact size and shape of our planet and marked an important step in the development of earth sciences and topographic mapping. It is an extraordinary example of scientific collaboration among scientists from different countries, and of collaboration between monarchs for a scientific cause. The original arc consisted of 258 main triangles with 265 main station points. The listed site includes 34 of the original station points, with different markings, i.e. a drilled hole in rock, iron cross, cairns, or built obelisks.

The World Heritage List now numbers 812 sites in total, which includes: 628 cultural; 160 natural and 24 mixed sites in 137 States Parties.

FIG Permanent Institution for the History of Surveying and Measurement was actively involved in the project of getting the Arc on the Heritage List.

Communication

The main tools for communication of the federation are the **FIG web site** www.fig.net and different newsletters (both as soft and hard copies) and printed material and publications and CD-Roms.

The web site includes e.g. the work plan of the Council and the commissions; contact details of Council members, member associations, affiliates, corporate members, academic members, commission officers and commission delegates; forthcoming events; and FIG publications and conference reports.

The **FIG annual review** – an overview of major activities and achievements and the main medium of external communication. This is supported by a monthly e-Newsletter which

is sent free of charge to all subscribers. All commissions have also their newsletters that are published 1–2 per year and posted on the commission's web sites.

In the **FIG publications** series the federation publishes formal policy statements and ethical, educational and technical guidelines, these are also available on the FIG home page. Proceedings of FIG congresses and of selected technical seminars sponsored or co-sponsored by FIG's commissions and member associations are published normally on a CD-Rom and they are also available on the FIG home page. FIG publishes also on the web site a monthly article that is selected from a conference or event and that is of general interest.

The FIG Foundation – Building a Sustainable Future



The **FIG Foundation** is an independent body under the **International Federation of Surveyors**.

- The Foundation has been established for the purpose of raising funds to finance surveying education development projects and supporting young surveyors in order to build a sustainable future.
- The Foundation funds shall not be used to support the normal activities of FIG.
- The Foundation is administered by the FIG Office in Copenhagen and directed by a Board of five Directors appointed by the FIG Council.
- The Directors of the Foundation will announce every year the scholarships and grants available.

The first grants were given in 2002 and there after each year.

The FIG Foundation – How can I contribute?

Companies, associations, institutions, events, surveyors' groups and individuals may contribute to the Foundation by:

- Donations which will be recognised by a plaque or a certificate of different categories reflecting the sum of donation as follows:
 - platinum plaque EUR 25,000
 - gold plaque EUR 10,000
 - silver plaque EUR 5,000
 - bronze plaque EUR 1,000.
- Donations to support specific projects or by offering scholarships. Donors and Benefactors may use the FIG Foundation logo to promote their project donations or scholarships.
- Voluntary donation when registering to FIG events.
- Attending social functions such as the FIG Foundation Dinners held during every FIG Congress and Working Week and other events.

FIG Definition of the Functions of the Surveyor

The definition of the functions of the surveyor as adopted by the FIG General Assembly in 2004:

Summary

A surveyor is a professional person with the academic qualifications and technical expertise to conduct one, or more, of the following activities;

- to determine, measure and represent land, three-dimensional objects, point-fields and trajectories;
- to assemble and interpret land and geographically related information,
- to use that information for the planning and efficient administration of the land, the sea and any structures thereon; and,
- to conduct research into the above practices and to develop them.

Detailed Functions

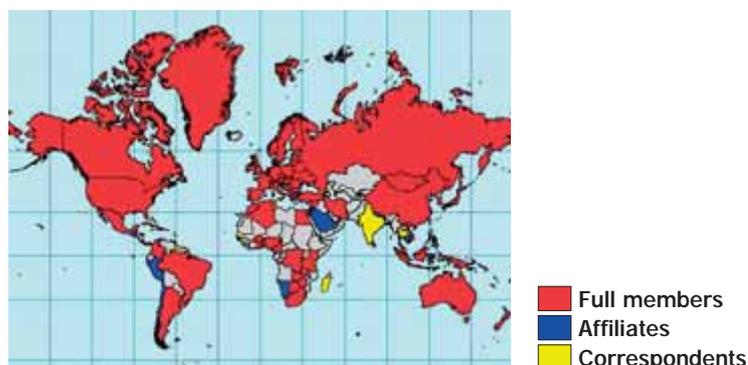
The surveyor's professional tasks may involve one or more of the following activities which may occur either on, above or below the surface of the land or the sea and may be carried out in association with other professionals.

1. The determination of the size and shape of the earth and the measurement of all data needed to define the size, position, shape and contour of any part of the earth and monitoring any change therein.
2. The positioning of objects in space and time as well as the positioning and monitoring of physical features, structures and engineering works on, above or below the surface of the earth.
3. The development, testing and calibration of sensors, instruments and systems for the above-mentioned purposes and for other surveying purposes.
4. The acquisition and use of spatial information from close range, aerial and satellite imagery and the automation of these processes.
5. The determination of the position of the boundaries of public or private land, including national and international boundaries, and the registration of those lands with the appropriate authorities.
6. The design, establishment and administration of geographic information systems (GIS) and the collection, storage, analysis, management, display and dissemination of data.
7. The analysis, interpretation and integration of spatial objects and phenomena in GIS, including the visualisation and communication of such data in maps, models and mobile digital devices.
8. The study of the natural and social environment, the measurement of land and marine resources and the use of such data in the planning of development in urban, rural and regional areas.
9. The planning, development and redevelopment of property, whether urban or rural and whether land or buildings.
10. The assessment of value and the management of property, whether urban or rural and whether land or buildings.
11. The planning, measurement and management of construction works, including the estimation of costs.

In the application of the foregoing activities surveyors take into account the relevant legal, economic, environmental and social aspects affecting each project.

FIG Members (May 2006)

*) Membership to be decided by the General Assembly in October 2006.



Member associations

Algeria	Ordre des Géomètres-Experts Fonciers
Argentina	Federación Argentina de Agrimensores
Armenia	Association of Private Surveyors
Australia	The Institution of Surveyors, Australia / The Spatial Sciences Institute
Austria	Austrian Society for Surveying and Geoinformation
Bahamas	Bahamas Association of Land Surveyors
Belarus	Land Reform Association
Belgium	Union Belge des Géomètres-Experts Immobiliers
Benin *)	Syndicat National des Géomètres-Topogra- phes et Assimilés du Bénin
Botswana	Botswana Surveying and Mapping Associa- tion
Brazil	Brazilian Society of Cartography, Geodesy, Photogrammetry and Remote Sensing
Brunei Darussalam	Brunei Institution of Geomatics
Bulgaria	Union of Surveyors and Land Managers in Bulgaria
Burkina Faso	Association des Geometres et Topographes du Burkina
Cameroon	Ordre National des Geometres du Cameroun
Canada	The Canadian Institute of Geomatics
China P.R.	Chinese Society of Geodesy, Photogramme- try and Cartography
Colombia	Sociedad Colombiana de Topografos
Costa Rica	Colegio de Ingenieros Topógrafos de Costa Rica
Croatia	Croatian Geodetic Society
Cuba	Unión Nacional de Arquitectos e Ingenieros de la Construcción de Cuba
Cyprus	Association of Rural Surveying Engineers of Cyprus
Czech Republic	Czech Union of Surveyors and Cartographers Czech Association of Certified Property Appraisers
Denmark	Den danske Landinspektørforening
Egypt	Egyptian Committee of Surveying and Mapping
Estonia	Association of Estonian Surveyors
Fiji	Fiji Institute of Surveyors

Finland	The Finnish Association of Surveyors Maanmittausalan ammattikorkeakoulu- ja opistoteknisten Liitto MAKLI ry
France	Ordre des Géomètres-Experts Association Française de Topographie
Germany	DVW – Deutscher Verein für Vermessungs- wesen – Gesellschaft für Geodäsie, Geoinformation und Landmanagement
Ghana	Ghana Institution of Surveyors
Greece	Technical Chamber of Greece Hellenic Association of Rural and Surveying Engineers
Hong Kong SAR, China	The Hong Kong Institute of Surveyors
Hungary	Magyar Földmérési, Térképészeti és Távérzkélesi Társaság
Indonesia	Ikatan Surveyor Indonesia
Iran, Islamic Republic*)	Iranian Society of Surveyors
Ireland	The Society of Chartered Surveyors The Irish Institution of Surveyors
Israel	Association of Licensed Surveyors in Israel
Italy	Consiglio Nazionale Geometri
Jamaica	The Land Surveyors Association of Jamaica
Japan	Japan Federation of Surveyors
Kenya	Institution of Surveyors of Kenya
Korea, Republic of	Korea Confederation of Surveyors
Kosovo UNMIK	Kosova Surveyors Association
Latvia	Latvian Associations of Surveyors
Lebanon	Ordre des Géomètres-Topographes du Liban
Lithuania	Lithuanian Association of Surveyors Lithuanian Association of Property Valuers
Luxembourg	Ordre Luxembourg des Géomètres
Malaysia	Association of Authorised Land Surveyors Malaysia
Malta	Land Surveyor Society
Mexico	Colegio de Ingenieros Topógrafos A.C.
Mongolia	Mongolian Association of Surveying and Mapping Mongolian Association of Geodesy and Cartography*)

FIG Members (May 2006)

*) Membership to be decided by the General Assembly in October 2006.

Morocco	Ordre National des Ingénieurs Géomètres-Topographes
Netherlands	Geo-informatie Nederland
New Zealand	New Zealand Institute of Surveyors
Nigeria	Nigerian Institution of Surveyors The Nigerian Institute of Quantity Surveyors
Norway	Norges Jordskifte kandidatforening NJKF, faglig gruppe af NIF and GeoForum
Palestinian Authority	Licensed Surveyors Association in Palestine
Papua New Guinea	Association of Surveyors of Papua New Guinea
Poland	Stowarzyszenie Geodetow Polskich
Portugal	Ordem dos Engenheiros, Colégio de Engenharia Geografica
Puerto Rico, USA	Colegio de Ingenieros y Agrimensores de Puerto Rico
Romania	Union of Romanian Geodesy
Russia	Federal Service of Geodesy and Cartography of Russia
Serbia	Union of Geodetic Engineers and Surveyors of Serbia
Singapore	Singapore Institute of Surveyors and Valuers
Slovak Republic	Slovak Union of Surveyors and Cartographers Chamber of Surveyors and Cartographers
Slovenia	Association of Surveyors of Slovenia
South Africa	South African Council for Professional and Technical Surveyors
Spain	Colegio Oficial de Ingenieros Técnicos en Topografía
Sri Lanka	Surveyors' Institute of Sri Lanka
Sweden	Sveriges Lantmätareförening
Switzerland	geosuisse – Swiss Society of Geomatics and Land Management
Syria	Order of Syrian Engineers and Architects
Tanzania*)	Institution of Surveyors of Tanzania
Togo	Ordre des Géomètres du Togo
Trinidad and Tobago	Institute of Surveyors of Trinidad and Tobago
Tunisia	Association Nationale des Ingenieurs Géomètres-Experts Tunisiens
Turkey	Chamber of Surveying Engineers of Turkey
Ukraine	Ukrainian Society of Geodesy and Cartography
United Arab Emirates	Institution of Surveyors of United Arab Emirates
United Kingdom	The Royal Institution of Chartered Surveyors RICS Institution of Civil Engineering Surveyors
Uruguay	Asociacion de Agrimensores del Uruguay
U.S.A.	American Congress on Surveying and Mapping The Appraisal Institute
Vietnam	Association of Geodesy, Cartography and Remote Sensing
Zambia	Surveyors Institute of Zambia
Zimbabwe	Survey Institute of Zimbabwe

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Australia and New Zealand	ANZLIC – the Spatial Information Council
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Brunei Darussalam	Survey Department, Ministry of Development
Cambodia	Ministry of Land Management, Urban Planning and Construction
Chile	Servicio Hidrográfico y Oceanográfico de la Armada de Chile
Colombia	Instituto Geográfico Agustín Codazzi
El Salvador	Instituto Geográfico Nacional
Guatemala	Instituto Geográfico Nacional
Hungary	Institute of Geodesy, Cartography and Remote Sensing (FÖMI)
Iceland	The Land Registry of Iceland
Jordan	Department of Lands & Survey, Ministry of Finance
Mexico	National Institute of Statistics, Geography and Informatics (INEGI)
Namibia	Office of the Surveyor General, Ministry of Lands, Resettlement and Rehabilitation
Nepal	HMG Survey Department, Nepal
Peru	Sistema Nacional Integrado de Información Catastral Predial (SINICAP) / Consejo Nacional de Catastro (CNC)
Rwanda	Ministry of Lands, Resettlement and Environment
Saudi Arabia, Kingdom of	Ministry of Municipal and Rural Affairs

Academic Members

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Australia	The University of Melbourne, Department of Geomatics RMIT University, Department of Geospatial Science University of New South Wales, School of Surveying and Spatial Information Systems University of Southern Queensland, Department of Surveying and Land Information University of Technology Sydney, School of Construction Property & Project Management
Austria	University of Agricultural Sciences Vienna, Institute of Surveying, Remote Sensing and Land Information
Bahrain	Arabian Gulf University, College of Graduate Studies
Belgium	University of Applied Sciences Kaho Sint-Lieven, Department of Engineering in Construction and Land Surveying

Botswana	University of Botswana, Department of Civil Engineering	Ireland	Dublin Institute of Technology, Department of Geomatics
Brazil	Universidade do Vale do Rio dos Sinos – UNISINOS, Centro de Ciências Exatas e Tecnológicas	Jamaica	University of Technology Jamaica, Division of Surveying and Geographic Information Sciences
Canada	University of Calgary, Department of Geomatics Engineering University of New Brunswick, Department of Geodesy and Geomatics Engineering	Kenya	University of Nairobi, Department of Surveying
Chile	Universidad de Concepción, Unidad Académica Los Angeles, Departamento Geomensura	Lithuania	Vilnius Gediminas Technical University Lithuanian University of Agriculture, Water and Land Management Faculty
China, People's Republic	Wuhan University	Malaysia	Universiti Teknologi Malaysia, Department of Geomatics Engineering
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Hong Kong SAR, China	The Hong Kong Polytechnic University, Department of Land Surveying & Geo-Informatics	Puerto Rico, USA	University of Puerto Rico, Civil Engineering Department Polytechnic University of Puerto Rico, Department of Land Surveying and Mapping
Hungary	The University of West Hungary, College of Surveying and Land Management	Romania	"Dunarea de Jos" University Galati, Cadastre, Environment Management and Protection Department "1 Decembrie 1918" University of Alba Iulia, Department of Topography and Cadastre North University Baia, Surveying Department
Indonesia	Institute of Technology Bandung, Department of Geodetic Engineering	Russian Federation	Moscow State University of Geodesy and Cartography, Economic and Land Management
		Singapore	National University of Singapore, School of Design and Environment
		Slovenia	University of Ljubljana, Faculty of Civil and Geodetic Engineering
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Spain	Universidad Politécnica de Madrid, Escuela Universitaria de Ingeniería Técnica Topográfica
	Universidade de Santiago de Compostela, Department of Agricultural and Forestry Engineering
Spain (cont.)	Institut de Geomàtica, Integrated Geodesy and Navigation
Sweden	Royal Institute of Technology, Real Estate Planning and Land Law
	Lund University, Department of Real Estate Science
Switzerland	FHBB Basel Institute of Technology and Management, University of Applied Sciences, Department of Geomatic Engineering
Tanzania	University College of Lands and Architectural Studies, Department of Land Surveying
Turkey	Istanbul Technical University, Department of Geodesy and Photogrammetry
United Kingdom	Anglia Polytechnic University, Built Environment
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	Oxford Brookes University, School of Built Environment
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	Sheffield Hallam University, School of Environment and Development
	University College London, Department of Geomatic Engineering
	The University of Nottingham, Institute of Engineering Surveying and Space Geodesy
	University of the West of England, Faculty of the Built Environment
Uruguay	University of Oriental Republic of Uruguay, Surveying Institute
USA	New Mexico State University, Surveying Engineering
	The Pennsylvania State University, Surveying Program
	Texas A&M University - Corpus Christi, Conrad Blucher Institute for Surveying and Science
West Indies	University of the West Indies, Department of Surveying and Land Information

Correspondents

Bahrain, Benin, Bhutan, Guyana, India, Lesotho, Madagascar, Saint Lucia (WI), Senegal, Zanzibar (Tanzania), Thailand, Tonga, Tunisia and Tuvalu.

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	Trimble Navigation Ltd, www.trimble.com
Gold level	
	AED-SICAD Aktiengesellschaft, www.aed-sicad.com
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	Grontmij nv, www.grontmij.com
	Kampsax A/S, www.kampsax.dk
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	GITC Bv – GIM International, www.gim-international.com
	IGN France International, www.ignfi.fr
	Josef Attenberger GmbH, www.attenberger.de
	MENSI S. A., www.mensi.com
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	GIS Development Pvt. Ltd., www.gisdevelopment.net
	Hansa Luftbild Sensorik und Photogrammetrie GmbH, www.hansaluftbild.de
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President

Univ. Prof. Dr.-Ing. Holger Magel
Director of Institute of Geodesy, GIS and Land
Management
Technische Universität München
Arcisstrasse 21
D-80290 München
GERMANY
Tel. +49 89 289 22535
Fax +49 89 289 23933
Email: magel@landentwicklung-muenchen.de

Vice Presidents

Dr.-Ing. Andreas Drees
Hohenzollernring 47
D-48145 Münster
P.O. Box 2409, D-48011 Münster
GERMANY
Tel. +49 251 133 330
Fax +49 251 136 018
Email: fig@adrees.de

Prof. Dr.-Ing. Ralf Schroth
c/o Hansa Luftbild
Elbestrasse 5
D-48145 Münster
GERMANY
Tel. +49 251 2330 0
Fax +49 251 2330 112
Email: schroth@hansaluftbild.de

Mr. T. N. Wong,
FHKIS, FRICS, RPS(LS)
Senior Resident Land Surveyor
C/o Maunsell Consultants Asia Ltd.
8/F Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, N.T.
HONG KONG SAR, CHINA
Tel. +852 2607 7888, 2607 7838
Fax +852 2687 2322
Email: wing98nz@netvigator.com

G. K. (Ken) Allred, ALS, CLS
34 Glenhaven Crescent
St. Albert, Alberta
CANADA T8N 1A5
Tel. +1 780 460 2224
Email: gkallred@telusplanet.net

Prof. Stig Enemark
University of Aalborg
Institute of Development and Planning
Fibigerstraede 11
DK-9220 Aalborg
DENMARK
Tel. +45 96 35 83 44
Fax +45 98 15 65 41
Email: enemark@land.aau.dk

Congress Director

Dipl.-Ing. Thomas Gollwitzer
Ltd. Baudirektor
Direktion für Ländliche Entwicklung
Lechstrasse 50
D-93057 Regensburg
GERMANY
Tel. +49 941 4022 200
Fax: +49 941 4022 101
Email: thomas.gollwitzer@ale-opf.bayern.de

ACCO Representative

Matt Higgins
Senior Surveyor
Dept of Natural Resources and Mines
Locked Bag 40
Coorparoo Delivery Centre
Brisbane Qld 4151
AUSTRALIA
Tel. +61 7 3896 3754
Fax +61 7 3891 5168
Email: matt.higgins@nrm.qld.gov.au



FIG Office

International Federation of Surveyors
Lindevangs Allé 4
DK-2000 Frederiksberg
DENMARK
Tel. +45 3886 1081
Fax +45 3886 0252
Email: fig@fig.net
Web site: www.fig.net

Mr. Markku Villikka, FIG Director,
email : markku.villikka@fig.net,
tel. + 358 44 357 0911 (direct)

Mr. Per Wilhelm Pedersen, FIG Office Manager,
email: per.wilhelm@fig.net,
tel. + 45 38 14 67 22 (direct)

Ms. Tine Svendstorp, Assistant,
email: tine.svendstorp@fig.net
tel. + 45 38 14 67 23 (direct)

Commission Chairs and Chairs Elect



Members of ACCO outside of the FIG Office in May 2006: Andrew Leyzack, Adam Greenland, Rudolf Staiger, Matt Higgins, Pedro Cavero, Simon Adcock, Bela Markus, Kauko Viitanen, Stig Enemark, Alojz Kopacik, Chryssy Potsiou, Klaus Rürup, Andrew Morley, Svend Kold Johansen, Diane Dumashie, Andreas Drees (chair) and Paul van der Molen.

Commission 1 – Professional Practice

Chair: Mr. **Klaus Rürup** (Germany), email: Klaus.Ruerup@t-online.de

Chair Elect: Mr. **Yaacoub Saade** (Lebanon), email: comandoo1@yahoo.com

Ethical principles and codes of professional conduct; guidelines relating to the provision of services; standards of business practice and total quality management; changes affecting the operation of surveying practices, their management and their professional structures; international legislation affecting the profession including the liberalisation of trade in services; the role of surveyors in the public sector.

Commission 2 – Professional Education

Chair: Professor **Pedro Cavero** (Spain), email: pjcavero@nivel.euitto.upm.es

Chair Elect: Professor **Bela Markus** (Hungary), email: mb@geo.info.hu

Education and teaching methods; continuing professional development and training; the interaction between education, research and practice; encouragement of the exchange of students and personnel between countries.

Commission 3 – Spatial Information Management

Chair: Mr. **Gerhard Muggenhuber** (Austria), email: geomugg@gmx.at

Chair Elect: Dr. **Chryssy Potsiou** (Greece), email: chryssyp@survey.ntua.gr

Management of land, property and hydrographic information and the related processes, procedures and resources; spatial data infrastructure—data models, standards, availability and legal aspects, management of spatial knowledge; the impacts on organisational structures, business models, professional practice and administration; management of spatial information supporting sustainable development.

Commission 4 – Hydrography

Chair: Mr. **Adam Greenland** (United Kingdom/New Zealand), email: adam.greenland@linz.govt.nz

Chair Elect: Mr. **Andrew Leyzack** (Canada), email: leyzacka@dfo-mpo.gc.ca

The marine environment; hydrographic surveying; data processing and management; nautical charts and bathymetric maps – analogue, digital and electronic; other associated tasks.

Commission 5 – Positioning and Measurement

Chair: Mr. **Matthew B. Higgins** (Australia), email: matt.higgins@nrm.qld.gov.au

Chair Elect: Professor **Rudolf Staiger** (Germany), email: rudolf.staiger@uni-essen.de

The science of measurement; the acquisition of accurate, precise and reliable survey data related to the position, size and shape of natural and artificial features of the earth and its environment.

Commission 6 – Engineering Surveys

Chair: Mr. **Svend Kold Johansen** (Denmark), email: skj@vd.dk

Chair Elect: Professor **Alojz Kopacik** (Slovakia), email: alojz.kopacik@stuba.sk

Acquisition, processing and management of topographic and related information throughout the life cycle of a project; setting out methods in engineering projects; validation and quality control for civil construction and manufacturing; deformation monitoring, analysis and interpretation; prediction of deformation in engineering projects, mines and areas of geological hazard.

Commission 7 – Cadastre and Land Management

Chair: Professor **Paul van der Molen** (The Netherlands), email: paul.vandermolen@kadaster.nl

Chair Elect: Mr. **András Osskó** (Hungary), email: foldmeresv@foldhiv.hu

Land management and administration; cadastral reform and multi-purpose cadastres; parcel-based land information systems and computerisation of cadastral records; cadastral surveying and mapping; land titling, land tenure, land law and land registration; urban and rural land consolidation; national and international boundaries; land and marine resource management.

Commission 8 – Spatial Planning and Development

Chair: Dr. **Diane Dumashie** (United Kingdom), email: ddd@dumashie.co.uk

Chair Elect: Mr. **Simon Adcock** (Australia), email: simon.adcock@dse.vic.gov.au

Regional and local structure planning; urban and rural land use planning; planning policies and environmental improvement; urban development and implementation; public-private partnerships; informal settlements and urbanisation in developing countries; environmental impact assessment.

Commission 9 – Valuation and the Management of Real Estate

Chair: Mr. **Stephen Yip** (Hong Kong SAR, China), email: smwyip@netvigator.com

Chair Elect: Professor **Kauko Viitanen** (Finland), email: kauko.viitanen@hut.fi

Valuation – the estimating of value of real estate by valuers and appraisers for various purposes including 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 market value and investment planning; development finance, land use feasibility planning; management of property, as a single asset or by management companies; management of property systems to ensure efficient use of public and private resources; management of public sector property.

Commission 10 – Construction Economics and Management

Chair: Mr. **Philip Shearer** (United Kingdom), email: philip.shearer@rlf.co.uk

Chair Elect: Mr. **Andrew Morley** (United Kingdom), email: andrew.morley@ccmassociates.com

Construction technology and information technology; construction economics and measurement; construction management and environmental management; construction law and contract administration.

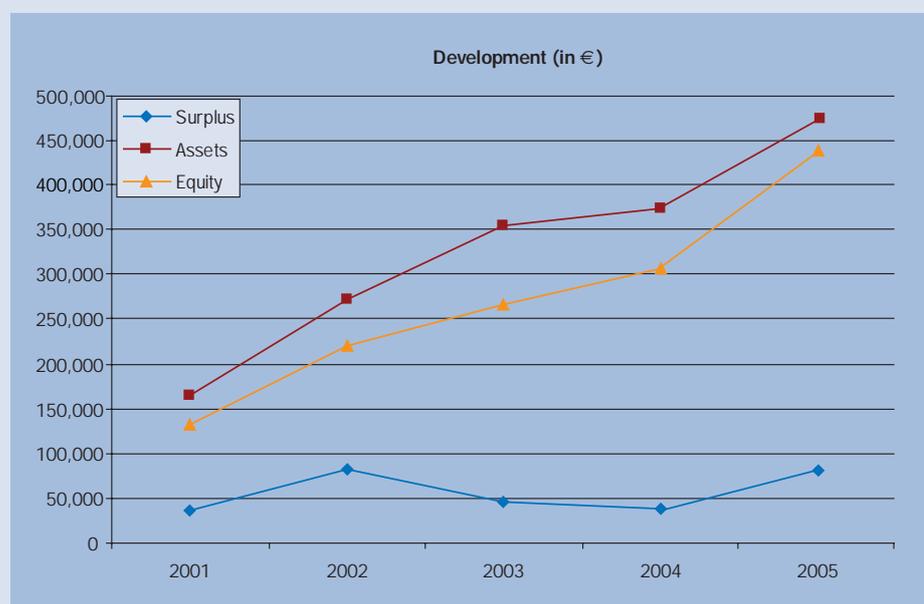
Income and expenditure account 2001–2005

INCOME	Result 2005 Euro	Result 2004 Euro	Result 2003 Euro	Result 2002 Euro	Result 2001 Euro ¹⁾
Subscriptions					
Member associations	230,779	218,683	212,153	216,197	219,977
Affiliates	5,981	4,683	3,152	3,369	2,628
Corporate members	81,156	74,799	69,357	47,766	37,453
Academic members	15,086	12,979	11,346	9,484	6,384
Total	333,002	311,144	296,008	276,815	266,442
Other income					
Advertising	0	0	0	1,034	0
Sale of publications	50	35	1,034	857	285
Interest income	8,944	8,038	6,364	1,274	2,391
External projects	83,062	47,733	65,899	27,780	12,907
Various	798	7,622	42,785	39,293	12,404
Total Income	425,856	374,572	412,090	347,053	294,429

EXPENDITURE					
Administration, FIG Office and Council	95,740	98,309	134,554	69,398	53,526
Council Meetings	31,262	23,270	29,414	21,778	18,087
FIG Meetings	43,326	56,639	46,781	40,543	42,633
Member support	55,799	32,469	28,102	40,449	37,181
Commission activity	35,535	43,238	41,403	37,891	43,464
Promotion	30,666	28,483	33,143	27,443	42,212
External Projects	50,117	53,107	52,275	27,508	20,482
Total expenditure	342,445	335,515	365,672	265,010	257,486
Surplus of the year	83,411	39,057	46,418	82,043	36,943

¹⁾ The original account in Danish Kroner have been converted to EURO using the exchange rate: 100 DKK = 13.47 EURO.

FIG balances 2001–2005



Dr. Ralf Schroth, Vice President in charge for finances.



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FIG Office, Lindevangs Allé 4, DK-2000 Frederiksberg, DENMARK, tel. +45 3886 1081, fax +45 3886 0252, email fig@fig.net, www.fig.net

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