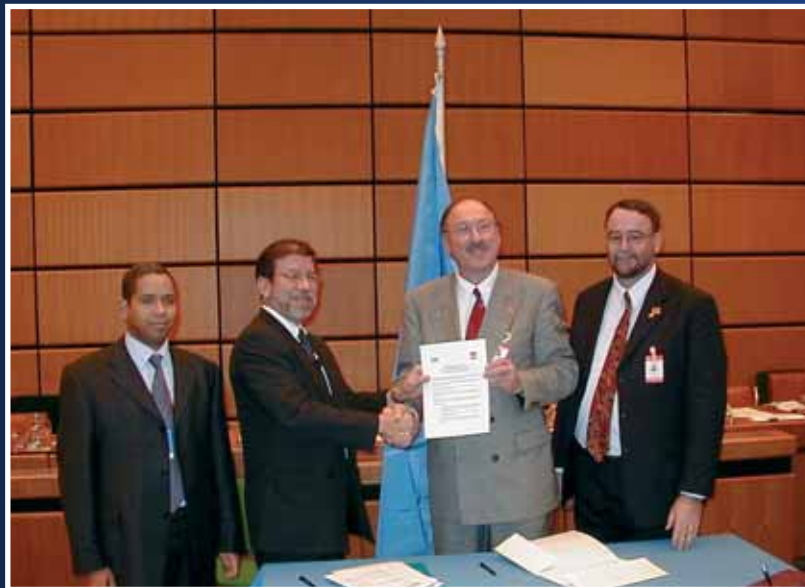


ANNUAL  
**REVIEW**



2003–  
2005

## Handover of the FIG administration at the Intergeo 2002 in Frankfurt



Members of the US and German Councils at the handover ceremony in Frankfurt.



Robert W. Foster, outgoing President of FIG and Hagen Graeff, President of DVW giving Prof. Holger Magel, the new FIG President his chain of office.



The band of the US Army playing American melodies at the handover ceremony.



Cheerleaders of the Frankfurt Galaxy celebrating the new Council.

The handover ceremony between the US and German Councils took place at the opening of the Intergeo 2002 in Frankfurt, Germany 16 October 2002. The ceremony was combined to the biggest tradeshow on surveying business, which attracts annually more than 15,000 visitors. The opening ceremony gathered about 700 participants.

The handover ceremony was chaired by Mr. **Hagen Graeff**, President of the German DVW, a member association of FIG. The cultural programme of the opening ceremony was built around the handover ceremony including music presented by the Band of the US Army (First Armored Division) and presentations of the cheerleaders of the Frankfurt Galaxy. The keynote presentation was given by the first German astronaut Dr. **Gerhard Thiele** on the topic "*The Shuttle Radar Topography Mission*". The handover ceremony was started with the FIG fanfare played by the band followed by the presentation of flags of the FIG member countries. The members of the US and German Councils were presented by Mr. Graeff.

In his address to the assembly the outgoing President **Robert W. Foster** summarised the main achievements of the US administration of FIG. After the address he gave the President's chain to Prof. **Holger Magel**, President of the Federation in 2003–2006. The members of the Council 1999–2002 were: Mr. Robert W. Foster, President and Vice Presidents: Holger Magel (Germany), **Tom Kennie** (UK) and **Jerome Ives**, **Christian Andreassen** and **Charles Challstrom** from USA. In addition Mrs. **Mary Clawson** was a member of the Council as Congress Director and Mr. **John Parker** (Australia) as the representative of Commission officers.

The FIG Council 2003–2006 is lead by Prof. Magel and the members are Dr. **Andreas Drees**, Dr. **Ralf Schroth** and Ms. **Bettina Petzold** (2003–2004) from Germany, Mr. **T.N. Wong** from Hong Kong SAR, China and Mr. **Ken Allred** from Canada (2005–2008) and Prof. **Stig Enemark** from Denmark (2005–2008) as Vice Presidents. Congress Director is Mr. **Thomas Gollwitzer** and the Commission representatives (2003–2004) Mr. **Gerhard Muggenhuber** from Austria (2003–2004) and Mr. **Matt Higgins** from Australia (2005–2006).

## Greeting from the President

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



After some years, I am happy to announce that the FIG Council is now able to publish an Annual Review in printed format. Even though most of our communication these days is made by email and Internet there is still a

big demand for printed material and in the case of FIG a demand for material we can give to our members and organisations that are interested in FIG and to our partners. The Council has decided to publish the Annual Review in the future on an annual basis as we used to do in the past. This issue includes the report of activities of the Federation for the first two years of the current Council. As you see from this Annual Review, lot of work has been done during the last two years. Thanks for these activities belong to the ten technical commissions of FIG, which are the heart and soul of the Federation, my colleagues in the FIG Council and to the member associations, other members and their delegates in the different commissions.

In my greeting I focus here on some of the main activities and results that we have gained during the last years.

The year 2004 ended with the biggest natural disaster of the last centuries; the earthquake and tsunami in Asia. The countries in the region suffered in an incredible way and lost thousands of citizens and so did many other countries as well. This disaster shows that even with the modern technology and expertise mankind is almost helpless in front of nature. The disaster also shows the need for professionals to bring and share their expertise so that such disaster will never happen again or at least the damages can be limited. FIG together with other international organisations and its sister associations (IAG, ISPRS, IHO, ICA etc.) and the member associations should be prepared to give their help. The ways we can help are related e.g. in developing risk and disaster management and in developing monitoring systems. In these FIG will co-operate with the United Nations e.g. with the United Nations Environment Programme (UNEP). I am happy to record that in April the Joint Board of Geospatial Information Societies was formed and as one of the first actions an ad hoc committee on risk and disaster management was established to work with these challenges.

Last years have included a great variety of successful FIG events, regional events and national events with FIG participation. The highlights have been the highly successful Working Weeks in Paris celebrating the 125<sup>th</sup> anniversary

of FIG, in Athens in May 2004 prior to the Olympic Games and this year in Cairo together with the GSDI-8, which was the first time FIG organised its annual conference together with another international organisation. The other highlights include the regional conferences that have taken place in Marrakech in December 2003 and in Jakarta in October 2004. These events confirmed that the FIG concept of regional conferences is working in whichever region the event may take place. I would like to express my sincere thanks to the organisers of all these events for their enthusiasm and professionalism in organising these major FIG events.

During the past years on occasions of special conferences or on special invitation I and the Council members have had a chance to meet member associations and their members in many countries during our visits. This has been beneficial both for FIG in developing its activities and for the members. FIG now has a face while the personal contacts also bring a human touch to our work. I would like to thank all hosts again for their wonderful hospitality and excellent arrangements.

FIG has managed to improve the professional outcome of the conferences and commission events as we have been able to produce deliverables from the organised events as outcome also to those who are not able to attend the meetings. I would like to mention here the Marrakech Declaration on Urban-Rural Inter-relationship for Sustainable Development, which was launched at the 2<sup>nd</sup> World Urban Forum in Barcelona in September 2004 and which was highly welcomed at the UN-Habitat meeting in Nairobi in October. The other similar result is the Aguascalientes Statement on Development of Land Information Policies in the Americas.

The establishment of the FIG Working Group "Disaster and Risk Management" followed the advice of Prof. **Klaus Töpfer**, Director General of UNEP to strengthen co-operation with UN agencies on this field of increasing importance (tsunami, floods, etc.).

These are just three examples of how we can raise the profile of surveyors in public and to international organisations by publishing some of the results of the work we are doing. Secondly I would like to mention the improved level of policies in the FIG events. We now have a keynote speech of the President in all our major events and all conferences end with written conclusions of the event.

One of the goals of the current FIG Council has been to raise the profile of FIG as the leading professional survey organisation. Therefore I am happy to record that FIG has improved its standing and reputation especially in the United Nations and with national governments. We have

now signed memoranda of understanding with all major UN agencies.

FIG has taken over the chairmanship and the management of the Habitat Professionals Forum and the Joint Board of Geospatial Information Societies.

The membership of FIG has increased during the last years and we expect to exceed 100 member associations before the end of our term of office at the end of 2006. In addition to member associations we have made good progress with affiliate membership, corporate membership and with academic membership – having more than 80 universities as academic members.

FIG is implementing a roadmap to new governance structure. The General Assembly in Athens elected two new Vice Presidents, Ken Allred from Canada and Stig Enemark from Denmark who started their work in the Council in the beginning of this year. At the General Assembly in Munich in 2006 the next President and two further Vice Presidents will be elected allowing the new governance structure to be in function in the beginning of 2007. The General Assembly has also elected the new Commission chairs-elect who will be the chairpersons in 2006–2010.

Finally I would like to point out that the economy of the federation has improved remarkably during the last years, which allows both new activities and services. 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.

As a summary I would like to state that the years 2003 and 2004 were very successful for FIG and for me as your President too. I enjoy the cooperation and contacts with you very much. Special thanks belong to all FIG functioners (especially commission officers and national delegates who are mostly working as volunteers), to all our members, but also to the Council members and the FIG office whose strong support I am very grateful for. Thanks for your support during the past years and all the best for our common future.

Yours sincerely,



Munich, in June 2005  
Holger Magel  
President of FIG

## FIG Working Week in Paris, France 13–17 April 2003



The audience at the Les Salons de l'Aveyron listen the FIG fanfare.



Participants at the ENSG.



President Holger Magel and Mrs. Ansi Magel entering the Gala Dinner in Versailles.



FIG Past President Robert W. Foster was appointed as Honorary President.

### FIG returns to Paris to celebrate its 125<sup>th</sup> Anniversary

The 26<sup>th</sup> FIG General Assembly and Working Week 2003 was held in Paris in April 2003 where 600 delegates and almost 200 accompanying persons gathered to celebrate the 125<sup>th</sup> Anniversary of FIG. The Working Week and celebrations were a big success despite the very short preparation time. The highlight of the conference was the gala dinner held at the Château de Versailles. More than 450 participants joined the dinner in the Hall of Mirrors of this most prestigious venue in France with champagne and an excellent dinner that followed a private visit to the royal chambers.

Paris was selected as the venue of the 125<sup>th</sup> Anniversary to have the celebrations in the city in which FIG was founded in 1878 by seven European nations. The two French member associations of FIG, Ordre des Géomètres-Experts (OGE) and Association Française de Topographie (AFT) in a very short time – after the working week planned for Israel was postponed to 2009 – managed to organize an excellent working week with full technical and social programme.

The conference venue was the École Nationale des Sciences Géographiques (ENSG) in Marne la Vallée. ENSG and IGN (Institut Géographique National), offered modern and most adequate facilities both for the technical conference and for the commercial and professional exhibitions. Almost 40 firms participated in the commercial exhibition. ENSG showed that the FIG working week could be held in university surroundings if the facilities are favorable.

The opening ceremony was held at the Salons de l'Aveyron in Bercy. At the opening ceremony welcome addresses were given by **Bernard Bour**, Chair of the local organizing committee, **André Radier**, President of OGE, **Michel Kasser**, President of AFT and Prof. **Holger Magel**, President of FIG. The audience was also addressed by **Bruno Parent**, Deputy General Director of the French Cadastre and **Bertrand Levy**, Director General of IGN.

The opening ceremony was followed by the 125<sup>th</sup> Anniversary Session with keynote presentations from Prof. **Michel Godet**, University of Paris, Mr. **Jan de Graeve** who spoke about the founding meeting in Paris in 1878 and Dr. **Andreas Drees**, who gave a vision of the role of FIG in a vulnerable world.

In addition to the daily plenary sessions there were 27 technical sessions running three at a time for three days. In these sessions 120 papers were presented. The interest in the conference was so big, that for the first time during a working week, FIG tried poster presentations. Despite smaller problems the concept proved

to be successful giving opportunity to many authors to make their case studies broader known. Totally about 60 posters were briefly introduced in the sessions and then presented in the exhibition area.

The topics of the technical programme covered all commissions and the main topics of the current work plans. This allowed an efficient start to several working groups in their work to prepare their final report to FIG 2006. It approved that the concept of having more inter-commission sessions was successful.

The organising committee of FIG 2003 wanted to support students and young surveyors to attend. It was a great pleasure that almost 70 students were able to participate, in addition ten young surveyors (under 32 years) got a grant that covered free registration and support to travel and accommodation costs.

Technical tours were made to Reims to see the high speed train LGV and visit surveying companies and to La Défense in Paris.

In both sessions of the General Assembly 52 member associations out of 89 were present. Number of participants to these open meetings was about 200. The General Assembly adopted following new members as member associations: the Chamber of Surveyors and Cartographers from Slovakia, the Sociedade Brasileira de Cartografia, Geodésia, Fotogrametria e Sensoriamento Remoto (SBC) and the Collegio de Ingenieros Topógrafos de Costa Rica. Following new corporate members were adopted: Intergraph Mapping and Geospatial Solutions (category A), Sicad Geomatics (B), Geoexpert (E) and the Institut Cartogràfic de Catalunya (F). Further ESRI had upgraded its membership category to platinum level.

The General Assembly appointed **Robert W. Foster**, the immediate past president an honorary president of FIG. Dr. **Tom Kennie** from UK was appointed an honorary member.

Proceedings of the Working Week: [www.fig.net/pub/fig\\_2003](http://www.fig.net/pub/fig_2003).

## FIG Working Week in Athens, Greece 22–27 May 2004

### Olympic Spirit in Surveying – Citius, Altius and Fortius

FIG Working Week 2004 was organised in Athens 22–27 May 2004. The Working Week offered the participants an excellent opportunity to feel the Olympic Spirit in Surveying and also to get familiar with the preparations of the Olympic Games that were held in the city later in 2004. Totally more than 400 delegates from 67 countries attended. Together with the more than 250 participants that attended the 1<sup>st</sup> HARSE Conference at the Intercontinental Athenaeum the conference was among the biggest FIG working weeks.

In the technical programme there were 29 technical sessions and four workshops whose topics varied from archaeological surveyors to the history of surveying and from hydrography to under-represented groups in surveying. In total more than 200 papers were presented during the technical sessions. It was delightful to have more joint sessions than at the previous meetings, which also resulted in better quality of the papers. Common comments from the participants were that the technical sessions were well-attended and that the quality of papers was higher than at some previous events. Especially the three plenary sessions with speakers like Prof. **Gerhard Beutler**, President of IAG and Ms. **Takemi Chiku** from UN OOSA as well as such internationally known experts on land administration like **Bengt Kjellson**, Chair of UN ECE WPLA and **Helge Onsrud** gathered many positive comments. The third plenary session was about environmental issues and risk management with highly respected speakers from FIG, namely Prof. **Theo Kötter** from Germany and Prof. **Stig Enemark** from Denmark.

The Working Week included also technical exhibition with commercial exhibitors and displays of the next FIG events. Of special interest was the special exhibition on Ancient Greek Technology – Measuring Instruments, which was organised in collaboration with the Association for Ancient Greek Technology Studies. The exhibition displayed some indicative technical achievements of the Ancient Greece, together with models of several measuring devices used in topography and astronomy. The technical tours brought participants to the main venues of the Olympic Games as well as offered an excellent opportunity to visit the Hellenic Cadastre and to learn about this biggest EU project in surveying.

Among the highlights of the Working Week were also social events like the Welcome reception and a “grand-style” gala dinner in a restaurant next to the Aegean Sea with Greek entertainment and excellent food. A more traditional Greek evening was organised in Plaka in

the oldest Greek tavern in the area as the FIG Foundation dinner.

The Working Week, the technical exhibition, technical tours and great social events were a big success thanks to the Local Organising Committee chaired by Mr. **George Papavassiliou** who was assisted by two Vice Chairs: **Gerasimos Apostolatos** and **Polychronis Akriditis** and Secretary General **Chryssy Potsiou**.

At the General Assembly four new member associations were adopted as new member associations, they come from Algeria, Cuba, Togo and Tunisia. In addition three new affiliate members representing Saudi Arabia, Belgium and Hungary, 9 new academic members and two new corporate members (Eimar Arabia Real Estate Development and geo:connexion) were recorded. The General Assembly further appointed the previous Commission 5 chair Prof. **Jean-Marie Becker** as new Honorary member of the Federation.

Among the important issues decided by the General Assembly were the revised definition of surveyor and the FIG information policy document. Undoubtedly the most awaited issues were the elections of the two new Vice Presidents. After three voting rounds Prof **Stig Enemark** from Denmark and Mr. **Ken Allred** from Canada were elected Vice Presidents for 2005–2008.

The General Assembly further decided on the Commission Chairs Elect 2004–2006 who will be the next Commission chairs 2006–2010.

Proceedings of the Working Week: [www.fig.net/pub/athens](http://www.fig.net/pub/athens).



The Council in a joint picture with the two new Vice Presidents.



Totally 55 member associations attended at least one of the sessions of the General Assembly.



President Magel together with President Yannis Alavanos, Technical Chamber of Greece and George Papavassiliou, Chair of the Organising Committee at the gala dinner in Athens.



Prof. Jean-Marie Becker, Past Chair of Commission 5 was appointed as Honorary Member.

## FIG Working Week 2005 and GSDI-8 in Cairo, Egypt 16–21 April 2005



The cultural entertainment at the opening ceremony was provided by an Egyptian military band.

### From Pharaohs to Geoinformatics – Shaping the Change

The FIG Working Week 2005 was the first time a major FIG event was organised together with another international organisation. The FIG Council and the local organisers – the Egyptian Committee for Surveying and Mapping (ECSM) and the Egyptian Survey Authority (ESA) – decided to organise the conference jointly with the Global Spatial Data Infrastructure (GSDI). The joint conference “*From Pharaohs to Geoinformatics*” combined elements both from the FIG Working Week and the GSDI conference (this time GSDI-8). The reactions from the participants and conference statistics show that the concept was a success story in many ways. The conference

The welcome address from the organising committee was given by Dr. Eng. **Ahmed Fouad El-Sheikh**, Chair of the Organising Committee and President of the ECSM. The GSDI presentation was given by Dr. **Mukund Rao**, President of GSDI. The keynote opening address was about the conference title “*From Pharaohs to Geoinformatics – Shaping the Change*” presented by Prof. **Holger Magel**, President of FIG, who also formally opened the conference. The entertainment at the opening ceremony was taken care of by the Egyptian military band.

The professional quality of the plenary sessions got many positive comments this year. Especially the first plenary session, in which the presentations were made by Dr. **Ismail Serageldin**, CEO of the Alexandria Library and Mr. **Jack Dangermond**, President and Founder of ESRI and Mrs. **Preetha Pulusani**, President of Intergraph Mapping and Geospatial Solutions was highly praised. At the other two plenary sessions the topics were *Land Management and SDIs* (with Dr. **Paul Munro-Faure** (FAO)), Dr. **Clarissa Augustinus** (UN-Habitat), Ms. **Dorine A. J. Burmanje**, Chair of the Board of Dutch Cadastre and Eng. **Mohamed Mosaad Ibrahim**, Ex-Chairman, The Egyptian Survey Authority, ESA as speakers) and on the *Future of the SDI / Surveying Communities* (with Prof. **Ian Dowman**, President of ISPRS, Prof. **Hans Sünkel**, Rector of the University of Graz and Dr. **Hisham El Sherif**, Chairman of IT Investments Group, Egypt as speakers).

The joint conference encouraged also co-operation with other international organisations. In the technical programme there were presentations from the United Nations (FAO and UN-Habitat) and also good support and participation from the UN Economic Commission for Africa. There was a high-level participation from professional partners when presidents of ISPRS, IAG, ICA, IHO and ISM attended the conference. Further a MoU was signed with the International Federation of Hydrographic Societies. The International Steering Committee for Global Mapping (ISCGM) had their annual meeting in Cairo. Other partners that had their meetings during the week were e.g. AFREF. One of the pre-conference workshops was organised in co-operation with ISO TC 211. It was a positive surprise that this workshop attracted over 100 participants to each of its sessions during the day.

One of the success stories of the conference was the meeting of the Steering Committee of Geospatial Information Societies (JB GIS). At this meeting it was decided to have a bit more formal structure for the Joint Board, which is becoming a common voice for all geospatial associations



Invited guests listening to the traditional FIG fanfare at the opening ceremony. These included Harland Onsrud, GSDI new President, Preetha Pulusani (Intergraph), Jack Dangermond (ESRI) and President Hans Sünkel (TU Graz).



Keynote speakers and representatives of the LOC after the successful opening ceremony: Dr. Mukund Rao, President Magel, Dr. Dalal Alnaggar, HE Dr. Mahmoud Abu Zeid, Dorine Burmanje, Dr. Ahmed El-Sheikh, and Eng. Hisham Nasr.

turned out to be the biggest FIG annual conference ever outside congresses. The conference attracted more than 900 participants from more than 80 countries. The attendees got an excellent opportunity to get familiar with the history of surveying and even more important on the trends in surveying and SDIs for the future.

The technical programme was almost overloaded – during the technical programme there were 51 technical sessions, several round table discussions (e.g. on the education in Africa, FIG future governance, standards etc.) and working group meetings. When totally seven pre-conference workshops were added there was professional programme for almost one week. In the technical programme more than 400 papers, presentations and posters were made.

At the opening ceremony the keynote address from the Government of Egypt was made by HE Dr. **Mahmoud Abu Zeid**, Minister of Water Resources and Irrigation. The conference was held under the patronise of the Government of Egypt and Prime Minister, Dr. **Ahmed Nazif**.

especially in relation to the United Nations.

The technical exhibition was bigger than has been the case for the last years at the FIG events. More than 40 booths were booked and the list of exhibitors included a good selection of international, regional and local exhibitors. The two gold sponsors of the conference were ESRI and Intergraph Mapping and Geospatial Solutions that both also had their workshop before the conference started.

To many participants highlights of the conference were visits to the traditional sites in the home country of surveying. These included the pyramids in Giza and the famous Egyptian museum as well as visits to the historical Cairo. Technical tours offered an opportunity to visit the Smart Village – part of the modern Egypt – and surveying and GIS authorities in Cairo. The social events like the Egyptian Evening, which at the same time was the FIG Foundation Dinner, at the Al Ezba Restaurant offered both Egyptian culture and food. The gala dinner at the Mohamed Aly Restaurant gave entertainment and time to discuss the results of the conference.

At the FIG General Assembly main decisions included the acceptance of new members. This time five new member associations were adopted, these come from Botswana, Brunei Darussalam, Kosovo UNMIK, Mexico and United Arab Emirates. In addition a new affiliate member was endorsed from Peru. The General Assembly endorsed also five new corporate members including TOPCON Corp at the platinum level. Furthermore nine academic members have joined during the year.

The General Assembly also decided to have the FIG Congress 2010 in Sydney, Australia.

The General Assembly further decided to appoint Mr. **Jerome C. Ives** from USA as Honorary member. The General Assembly further elected Mr. **Andrew Leyzack** (Canada) to Chair Elect in Commission 4 and Mr. **Simon Adcock** (Australia) to Chair Elect in Commission 8.

Thanks to the successful conference belong to the local organising committee and the organising team. The organising committee was chaired by Dr. Eng. **Ahmed Fouad El-Sheikh**, President of the ECSM with Eng. **M. Hisham Nasr**, Chairman of ESA as the Vice Chair, Eng. **Mohamed Mosaad Ibrahim**, Secretary General of the Conference and Vice Chair of ECSM and Dr. **Dalal Alnaggar** as the Conference Coordinator and the conference office provided by the ESA.



The next FIG Regional Conference will be organised in Havana, Cuba in September 2005. The representatives of the 5<sup>th</sup> FIG Regional Conference in Ghana in March 2006 were already active in welcoming all participants to Accra.



The FIG General Assembly was held at the ballroom of the Semiramis Hotel. Totally 56 member associations had sent their representatives to the meeting and there were also many observers at both meetings.



Commission chairs elect with Simon Adcock (on the left) and Andrew Leyzack (third from the left) who were elected in Cairo. After the congress 2006 they will take over the technical commissions.

## The 2<sup>nd</sup> FIG Regional Conference in Marrakech, Morocco 2–5 December 2003



Congress Director Ahmed Boukri welcomes President Holger Magel and President Aziz Hilali to the conference venue.



Opening ceremony keynote speakers included Dr. Sarkis Fadous, President of AUS, President Holger Magel, FIG and President Aziz Hilali, ONIGT.



President Aziz Hilali, President Holger Magel and Congress Director Ahmed Boukri welcoming the guests to the Moroccan evening.

### First FIG Regional Conference in the Arabic countries

The 2<sup>nd</sup> FIG Regional Conference was organized by FIG and the Ordre National des Ingénieurs Géomètres-Topographes ONIGT in Marrakech in December 2003. This 2<sup>nd</sup> regional conference was co-sponsored by several United Nations' agencies including FAO, UNEP, UN-Habitat and the UN Economic Commission for Africa (UN ECA). Further co-sponsors included the Arab Union of Surveyors (AUS).

The total number of participants exceeded 420 representing more than 40 countries (14 from the region). Even though the focus of the conference was in the Arabic countries and Francophone Africa the participation covered the whole world. In addition to FIG Council and Commission officers meetings Commission 3 had its annual meeting and Commission 5 its open meeting.

The conference was organised under the theme of "Urban-rural interrelationship for sustainable environment", which is one of the hot topics in the international discussion at the moment. The input from the UN to this topic was given by **Don Okpala** from UN-Habitat, **David Palmer** from FAO and **Svein Tveitdal** from UNEP. As a result of the conference the Marrakech Declaration on the Urban-Rural Interrelationship for Sustainable Environment was prepared and launched at the 2<sup>nd</sup> World Urban Forum in 2004.

Three ministers from the Government of Morocco attended the opening ceremony, which indicates the importance of land management, surveying and geoinformation in Morocco and further the respect that ONIGT enjoys from the national government. The conference also got broad coverage in the media, more than 30 journalists attended the conference and it was reviewed also on the national television. It was further selected to the event of the week in Morocco.

The sub-themes of the conference included: urban-rural relationship in land management; spatial planning in promoting

good urban and rural environment; cadastre and land management in Arab countries and in Western Africa; security of tenure and access to land; geographic information for environment; geographic information – organisations challenges; risk management; coastal management; e-governance in surveying services; professional organizations and capacity building; education and curricula for surveyors; regional horizontal and vertical reference frame; positioning and

measurement technologies and practices; engineering surveys for construction works and industry; and housing financing. During the conference a special round table was organized on the surveying and geomatics education in Africa.

In addition to the opening ceremony and three plenary sessions the technical programme included 24 technical sessions in which almost 90 papers were presented. The proceedings include totally almost 130 papers from 37 countries and the representatives of the United Nations.

At the closing ceremony President **Magel** summarised the results of the conference to more than 300 participants as follows: "The political challenge for the policymakers and professionals is to move from pro- or contra-urban view to well balanced politics for both urban and rural development and urban-rural cooperation."

The success of the conference was relying on substantial support from the local surveyors and companies. This included the enthusiastic work of President **Aziz Hilali** and his colleagues in the ONIGT and especially the contributions of the local organizing committee chaired by Mr. **Ahmed Boukri**, Congress Director and assisted by five sub-committees. Without the local sponsors to the conference and exhibition this event could never had taken place.

The Moroccan hospitality was best shown during the social events which included the welcome reception at the Sheraton Marrakech, the conference venue introducing Arabic and African music. For international visitors the highlight of the conference was the Moroccan evening in a local restaurant in the medina of Marrakech. Moroccan food together with traditional music and dance that welcomed the participants already on the streets outside the restaurant introduced the audience to the wonders of thousand and one nights.

The last day of the conference was reserved for a joint technical tour during which the participants visited Guemmassa Mining Centre and the beautiful Ourika Valley with wonderful view to the Atlas mountains.

Conference proceedings: [www.fig.net/pub/morocco](http://www.fig.net/pub/morocco).



## The 3<sup>rd</sup> FIG Regional Conference in Jakarta, Indonesia 3–7 October 2004

### “Surveying the Future” at the Regional Conference in Jakarta

The 3<sup>rd</sup> FIG Regional Conference which was arranged for the first time in the Asia and the Pacific region gathered more than 350 delegates from 33 countries to Jakarta in October 2004. The number of delegates exceeded the expectations of the organizers. More than 120 international participants attended the conference in spite of the long flights, several concurring events and travel warning from some countries. The conference took place at the JW Marriott Hotel in Jakarta, which offered most outstanding facilities to the conference and excellent service in all aspects. In Jakarta there were no signs of security problems or concerns – except the sometimes chaotic traffic.

The focus of the 3<sup>rd</sup> FIG Regional Conference was on economic, environmental and social development combining these three main factors to promote sustainable development. The selected theme was “Surveying the Future – Contributions to Economic, Environmental and Social Development”, which was highlighted in the opening speech of Prof. **Holger Magel**, President of FIG.

Three sub themes of the conference were very important to the Asia and Pacific region: first the close co-operation between surveying, geodesy and geoinformatics. FIG was very happy that several international sister organisations co-sponsored this event. These include the International Association of Geodesy (President **Gerhard Beutler**), the International Association of Cartography (Secretary General **Ferjan Ormeling**) and the International Society of Mine Surveying (President **Yu Changxing**). A special workshop was also organised on the theme how international and regional associations can better co-operate in the Asia and Pacific region. The second key topic was the professional standards and qualifications in Asia and in the ASEAN region in particular. The third important topic and a new approach in an FIG conference was a plenary session organised together with the World Bank on land administration projects in the Asia. **Keith Bell** from the World Bank made a keynote in this session.

The conference was organised by the International Federation of Surveyors (FIG), the Ikatan Surveyor Indonesia (ISI) and the Indonesian National Coordinating Agency for Surveys and Mapping (BAKOSURTANAL). As with the previous FIG regional conferences the event in Jakarta was co-sponsored by several United Nations agencies. The other partners included the Asean Federation of Land Surveying and Geomatics (The ASEAN FLAG), the Permanent Committee on GIS Infrastructure for Asia & the Pacific (PCGIAP).

The technical programme of the conference included the opening ceremony with keynote presentations from Prof. Dr. **Dorodjatun Kuntjoro-Jakti**, Coordinating Minister for Economic Affairs, Mr. **Rudolf Matindas**, Head of BAKOSURTANAL and Prof. Holger Magel, President of FIG. There were totally five plenary sessions and 24 technical sessions. The technical sessions included more than 100 papers.

Traditionally to an FIG Regional Conference the last day of the conference was reserved for a joint technical tour. This time the tour was made to Bogor, where the participants were able to visit the headquarters of BAKOSURTANAL and also to enjoy the famous botanical gardens in Bogor and see the tea plantations in Puncak Highlands.

In the social programme there were two highlights: the welcome reception hosted by HE Mr. **Sutiyoso**, the Governor of Jakarta at the Jakarta City Hall with traditional Indonesian dances and with delicate Indonesian meal; and the Indonesian evening at the Oasis restaurant with the traditional *Rijsttafel* dinner.

At the closing ceremony President Holger Magel summarised the outcome of the conference to recommendations and to the Jakarta Statement “*It is all about Sustainable Development*”.

The conference was a great success thanks to the Local Organising Committee chaired by Dr. **Irawan Sumarto**, Mr. Rudolf Matindas, Head of Bakosurtanal, Dr. **Sobar Sutisna**, President of the Ikatan Surveyor Indonesia and **Diah Kirana**, Secretary General of the conference.

Conference proceedings: [www.fig.net/pub/jakarta](http://www.fig.net/pub/jakarta).



Speakers of the opening ceremony: Leo Nardi (moderator), President Holger Magel, Prof. Dr. Dorodjatun Kuntjoro-Jakti, Coordinating Minister for Economic Affairs, Rudolf Matindas, Head of BAKOSURTANAL and Prof. Irawan Sumarto, Chair of the Organising Committee.



Prof. Dr. Dorodjatun Kuntjoro-Jakti, Mr. Rudolf Matindas and President Magel opened the exhibition at the foyer of the JW Marriott hotel.



Welcome reception of the conference was hosted by HE Mr. Sutiyoso, the Governor of Jakarta including traditional Indonesian dances.



Indonesian evening at the Oasis Restaurant with the famous *Rijsttafel* served in a traditional way.



Prof. Holger Magel, new Chair of the Habitat Professionals Forum awarded Dr. Irene Wiese – von Ofen, the first chair of the Forum and former IFHP President with FIG President's gift.



Sergio Camacho-Lara and President Magel signed the MoU between UN OOSA and FIG in December 2004 in Vienna. They are in this picture together with Cicero Dos Santos from UN OOSA and Matt Higgins, FIG Commission 5, who prepared the MoU.



Closing reception at INEGI after the UN/FIG/PC IDEA workshop in Aguascalientes: John R. Parker, FIG together with Antonio Hernandez Navarra and Mario A. Reyes Ibarra from INEGI.

### Co-operation with the United Nations

For several years FIG has had close relations to the United Nations and its agencies, especially to FAO, UNEP and UN-Habitat. In December 2004 FIG signed a Memorandum of Understanding with the UN Office for Outer Space Affairs in Vienna. This co-operation will give additional input to the activities in risk and disaster management at the same time as it gives FIG good opportunities to participate in the GNSS development.

President Holger Magel attended the **19<sup>th</sup> Session of the UN-Habitat Governing Council** in Nairobi in May 2003. He was invited to give a keynote speech – as representative of FIG and the Habitat Professionals Forum on parallel event on the *Future of the cities*. In addition he made two contributions in the meetings of the Committee of the whole on the rural dimension of sustainable urban development.

President Magel was further invited to the Ministerial Round table on *Urban-Rural Interface and Slums* at the **ECOSOC High Level Segment** in Geneva in July 2003.

FIG has also participated in the work of UN ECA CODI by attending the **3<sup>rd</sup> ECA CODI meeting** in Addis Ababa in 2003. FIG had also high-profile delegation at the **UN ECE WPLA seminar** in Athens in May 2003, which was co-organised by FIG.

One of the main activities with the UN during the last two years has been FIG contribution to the **2<sup>nd</sup> World Urban Forum "Cities: Crossroads of Cultures– inclusiveness and integration?"**, which was held in Barcelona in September 2004. This conference attracted almost 5,000 registered participants and included dialogues

all Habitat partners and almost 100 networking events were divided under six themes. FIG was co-organiser at two sessions: *The Challenges of City Financing: Habitat's Professionals Forum* and *Land and Urban Poverty*. They both attracted a full meeting room of interested delegates to discuss the issues of city financing and security of tenure. At the city financing session FIG was represented by **Timo Härmälä** from Finland and at the security of tenure session by President **Holger Magel**. Further FIG representatives at the WUF Forum were Vice President **Ralf Schroth** and **Diane Dumashie**, Chair of FIG Commission 8. At the meeting of the Steering Committee of the Habitat Professionals Forum Prof. Magel was appointed as the new chair of the Steering Committee.

FIG participated also the **Inter-Regional Conference on Urban-Rural Linkages** to celebrate the World Habitat Day 2004 in Nairobi in October. The conference was organised by UN-HABITAT and co-sponsored by the United Nations Environment Programme (UNEP), the International Institute for Environment and Development (IIED), and FIG. The FIG Marrakech Declaration (FIG publication 33) was launched at this event to UN-HABITAT by **Rob Mahoney**. The Marrakech Declaration is a significant publication reporting the findings of the 2<sup>nd</sup> FIG Regional Conference held in Marrakech in December 2003 and provided a major input to the conference. The declaration is designed to define ways that professionals, governments and the public and private sector can work together to address the complex and interrelated issues of Institutional and Governance Concepts; Infrastructure and Land & Natural Resources; together with Capacity Building and Change Management. The major themes of the Marrakech Declaration were well coordinated with the main issues discussed at the conference. Mr. Mahoney also chaired a half day workshop to consolidate the conference outcomes in the areas of Institutional/organizational structures, strategies and tools for effective integration of the urban-rural linkages integration in development planning and implementation. These outcomes were used by **Dr. Anna K. Tibajuka** in her address about the conference at World Habitat Day in Nairobi.

FIG together with the UN and PC IDEA organized a joint UN/FIG/PC IDEA Special Forum at INEGI in Mexico, October 26–27, 2004. This forum was a result of a resolution at the Seventh United Nations Regional Cartographic Conference for the Americas held in January 2001 in New York. The Forum was hosted by the Government of Mexico through INEGI at their

and networking events that were organized by UN-Habitat with several partners representing governments, local authorities, CBOs, NGOs, international donors and professionals like the Habitat Professionals Forum and FIG. The conference programme included nine dialogues with

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headquarters in Aguascalientes with a theme of "The Development of Land Information Policies in the Americas". The objective of the forum was "to establish an awareness of the economic and social value for decision makers, of the importance of developing land policies that effectively and efficiently incorporate appropriate spatial data infrastructures, including an understanding of the value of integrating the land administration/cadastral/land registration function with the topographic mapping function." The outcome of

the Special Forum is the "Aguascalientes Statement", which will form part of the final report to be tabled at the next UNRCCA to be held in June 2005 in New York.

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## Sister organisations

FIG has increased co-operation with the so-called sister organizations during the last years. After IUSM was dissolved in late 1990s FIG started to make bilateral agreements with other professional associations. These have resulted in close co-operation especially with the International Association of Geodesy (IAG), whose representatives have been attended all major FIG events in the past two years, and with the International Society of Photogrammetry and Remote Sensing (ISPRS), International Cartographic Association (ICA) and International Hydrographic Bureau. FIG has now signed a memorandum of understanding with all major organizations in our professional field the last being the International Society of Hydrographic Societies (signed in April 2005 in Cairo).

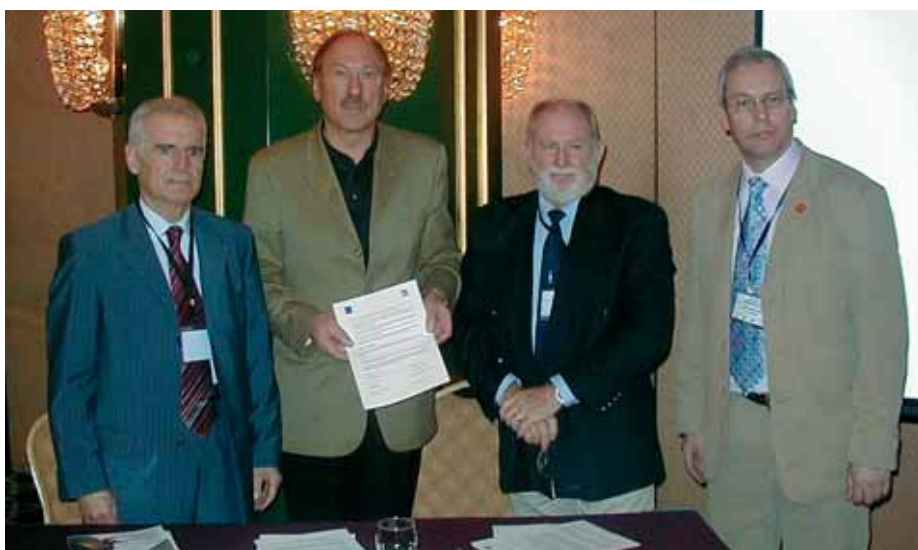
At the same time the co-operation with the sister societies has been strengthened. The best result of this co-operation is the meeting of the **Joint Board of Geospatial Information Societies** held in Cairo in April 2005. At this meeting the guidelines for the Joint Board were approved. At this meeting FIG President **Holger Magel** was also appointed to the Chair of the Joint Board for the next two years. Further two ad hoc committees were established: one on risk and disaster management and the other one on capacity building for institutional development in Africa.

FIG has also had good co-operation with the Global Spatial Data Infrastructure (GSDI) by attending the **GSDI-7 "SDI for Sustainable Future"** in Bangalore, India in February 2004 and by organising the joint FIG/GSDI conference in Cairo in April 2005.

FIG has also started co-operation with the International Geodetic Students Organisation. FIG co-sponsored and attended the **17<sup>th</sup> IGSM conference** at the Helsinki University of Technology (HUT) in Espoo, Finland in June 2004. At the moment IGSO has 70 universities and schools as members from 27 countries. FIG is planning to co-operate with IGSM also in the future.



Members of the Joint Board of Geospatial Information Societies after their successful meeting in Cairo in April 2005.



Vice Admiral Alexandros Maratos, President of IHB, Prof. Holger Magel, President of FIG, John McCarthy from IFHS and Adam Greenland, Chair of FIG Commission 4 after the signing of the MoU between FIG and IFHS in Cairo in April 2005.



Commission 7 Annual Meeting 2004 was held at the Hôtel Coubertin in Clermont-Ferrand, France, 8–14 September 2004.



Cecilia Whitaker, Adam Chrzanowski, Stathis Stiros and Svend Kold Johansen, Chair of Commission 6 at the Santorini Symposium on Deformation Measurements in 2003.

### Commission activities

The ten technical commissions of FIG organise several seminars, workshops and other activities each year. In the following some of the highlights from the last two years have been selected:

The 11<sup>th</sup> FIG Symposium on Deformation Measurement was held in Santorini, Greece May 25–28, 2003. This symposium organised by FIG Commission 6 (Surveying Engineering) working group on Deformation Measurement has the longest tradition in FIG as a Commission organised event on a specific topic. The symposium in Santorini attracted more than 130 participants from 29 countries.

More than 30 international experts attended the UNB-FIG Meeting on Marine Cadastre Issues at the University of New Brunswick in Fredericton, New Brunswick, Canada, in September 2003. The meeting was organized by Michael Sutherland, who is also chair of the FIG Working Group 4.3 on Marine Cadastre. The meeting provided an excellent opportunity for international stakeholders and experts to share their perspectives on the marine cadastre. There were more than 30 delegates in attendance from Australia, Canada, the United States of America, the Netherlands, Malaysia, and Trinidad and Tobago.

The 2<sup>nd</sup> Cadastral Congress organised by the Association of Polish Surveyors was held in Krakow, Poland September 18–21, 2003. The title of this conference was “Cadastral reliable for civil and social services”. The conference was organised in co-operation with FIG Commission 7 and it was linked to Commission 7 annual meeting 2003.

FIG Commission 7 organised a Symposium on Land Administration in Post Conflict Areas at the Palais des Nations in Geneva, Switzerland in April 2004. This meeting was co-organised by the Kosovo Cadastral Agency and UN-Habitat. About 50 experts involved in emergency and reconstruction activities in post-conflict areas from 17 countries participated. The purpose of this symposium was to bundle good practises, lessons learned, experiences and knowledge on the issue of land administration in post-conflict areas giving a good knowledge base for future operations.

FIG Commission 7 held a successful International Seminar on e-Land Administration in Innsbruck, Austria, in June 2004 in close co-operation with the Austrian Society for Surveying and Geoinformation. The seminar attracted 115 participants from more than 35 countries all over the world, representing a wide range of interest groups from private and public sector, IT industry and users as well.

FIG Commission 2 WG 2.2 – The Studies of Surveying in Latin America organized a Meeting of the Educational Network for Latin America in San José, Costa Rica, in April 2004. The meeting was arranged by the Colegio de Ingenieros Topógrafos of Costa Rica. The idea of creating this Network arose during the Symposium held in Puerto Rico in 2000. The main goals of this Network are: to establish strong links among educational institutions in Latin America; to facilitate a free flow and exchange of ideas, projects and people amongst these institutions; to facilitate harmonization of curricula, if such is possible and necessary; to facilitate a “common educational base”; to facilitate mobility among professionals, teaching staff and students; and to improve, when ever necessary, the working conditions for professionals and to increase work possibilities for graduates.

The 1<sup>st</sup> International Symposium on Engineering Surveys for Construction Works and Structural Engineering was held in Nottingham, UK, 28 June – 1 July 2004. It was hosted by the University of Nottingham and held as part of Working Group 6.4 “Engineering Surveys for Construction Works and Structural Engineering” and Task Force 6.1.1 “Measurements and Analysis of Cyclic Deformations and Structural Vibrations” activities. The conference was attended by 70 people from a vast array of countries around the World.

Commission 7 Annual Meeting 2004 and Symposium on Modern Land Consolidation were held in Clermont-Ferrand, France in September 2004.

The 3<sup>rd</sup> International Conference on Engineering Surveying INGENO 2004 was held in Bratislava, Slovakia in November 2004. INGENO 2004 was organised by FIG Commission 6 and Department of Surveying, SUT, Bratislava, Slovakia. Dr. Alojz Kopacik, Dr. Thomas Wunderlich, and Dr. Lothar Grundig had put a lot of effort in making this conference to a professional success. 39 papers were presented and representatives from more than 15 countries participated in this well organized event.

Expert Group Meeting on Secure Land Tenure: “New legal frameworks and tools” – was taken place at the UN Headquarters in Nairobi, Kenya in November 2004. This meeting was organised by FIG Commission 7, UN-HABITAT, the Institution of Surveyors of Kenya (ISK) and the Commonwealth Association of Surveying and Land Economy (CASLE).

Workshop on Standardization on the Cadastral Domain was organised by COST Action G9 and FIG Commission 7 in Bamberg, Germany in December 2004.



Participants of Expert Group Meeting on Secure Land Tenure in Nairobi outside the UN Headquarters in Gigiri in November 2004.

## Member visits

The President, Council members and officials have visited many member associations and their events during the last two years. In the following it has been possible to list only a selection of these visits:

Vice President **Andreas Drees** visited the **2<sup>nd</sup> Young Surveyors Days** in Trabzon in Turkey in May 2003. About 350 participants attended the conference, among them 20–40 professors and staff members from the seven universities in Turkey, which provide education programmes for surveyors. The rest of participants were students and young surveyors.

The **First Survey and GIS Summit – Bridging the Gap 2003** was held in San Diego, California, USA in July 2003. The Summit was held in conjunction with the 23<sup>rd</sup> ESRI International User Conference which attracted more than 11,000 visitors from 135 countries. The Survey and GIS Summit was first of its kind and organised to build closer co-operation between surveyors and GIS professionals. The opening keynote presentation was given by Prof. **Holger Magel**, President of FIG. The first Summit attracted 280 participants from 14 countries however majority from the United States. The profile of the participants was in full balance between surveying and GIS. FIG sponsored also the next Survey Summit in 2004. At this second Summit one of the ESRI awards "*Special Achievement in GIS*" was given to FIG for bridging the gap between surveying and GIS.

FIG has participated in all **Intergeo** trade-shows and conferences during the German administration. In addition to meetings FIG has also been in charge of an FIG Forum at these events as well as being at the exhibition together with DVW.

President Magel attended the **75<sup>th</sup> Anniversary of the Land Surveyors Association in Jamaica** in October 2003. President Magel also met with the Minister of Land and Environment of Jamaica and with the Mayor of Kingston. He further met with the President of the University of Technology, Jamaica, and also gave a lecture at the university on "*Shaping the change: Visions on surveying and surveyors in the new century*". The lecture was part of the open day programme at the Land Surveying and Geographic Information Sciences Division.

Vice President **Bettina Petzold** represented FIG at the **1<sup>st</sup> Ibero-American Congress of Property Registration: Land, Economic Development and New Technologies** in Lima, Peru in November 2003.

The **7<sup>th</sup> South East Asian Survey Congress (SEASC)** took place in Hong Kong November 3–6, 2003. SEASC occurs every four years



**2<sup>nd</sup> International Conference in Beirut in September 2004:**  
**H. E. President Gen. Emile Lahoud gave an audience to President Magel and the foreign participants of the conference.**

and this time it involved over 250 delegates from 25 countries. FIG was represented by Vice Presidents **Andreas Drees** and **TN Wong** and by Commission chairs **Adam Greenland**, **Matt Higgins** and **Stephen Yip**. The programme covered the whole spectrum of surveying with plenary sessions on many hot topics for the region. At his keynote address on "*Shaping the Change – FIG Policy for the Challenges of Today's World*" Dr. Drees outlined the importance of the United Nations Millennium Declaration with examples of issues where surveyors can contribute. Dr. Drees was also able to meet with valuers from Mainland China.

President Magel attended the **Danish Annual Conference** in Nyborg in January 2004. The host of the FIG office always organises its Annual Conference in the same hotel in Nyborg – now for more than 50 years – attracting every year more than half of the Danish surveyors for three days to this conference.

The first **INTERGEO-EAST** was organized in Belgrade, Serbia in March 2004. The exhibition attracted more than 3,000 trade visitors and participants from 22 countries mostly from South-East Europe and especially from Serbia. The Congress programme included the opening ceremony with a keynote presentation by Mr. **Hagen Graeff**, President of the German DVW. The opening session was followed by one plenary session including four keynote presentations among these presentation given by Vice President **Andreas Drees**.

The Ordre des Topographes du Liban organised the **2<sup>nd</sup> International Scientific**



**President Holger Magel, FIG and President Piero Panunzi at the CNG Headquarters in Rome during the visit of the FIG President.**

**Congress on Surveying and Topography – The Surveying Sciences and Their Role in Economic and Social Development Plans** in Beirut in September 2004. FIG was co-sponsoring this important event in the Arab world as it did with the first conference in 2001. This time the second main organisational co-sponsor was the Arab Union of Surveyors (AUS) which also held its Board meeting in Beirut. The conference attracted totally about 400 participants. The international participants represented 14



FIG got the ESRI Award on Special Achievement on GIS at the ESRI User Conference in San Diego in 2004 – Jack Dangermond, President of ESRI together with Mike Weir, ESRI and Markku Villikka, FIG.



Model of the Algerian satellite ALSAT at CNTS: (from left) Ridha Bouras, Oran representative of OGEF, Director of CNTS Mohamed Benmohamed, FIG President Magel and Boulefrad Rahal, Member of the Board of OGEF.

Arab countries and 7 European countries. FIG was represented by President **Holger Magel**, who gave a keynote presentation at the opening ceremony on "FIG Meets the Arab World of Surveyors" and by **Klaus Rürup**, Chair of FIG Commission 1. In addition to Dr. **Sarkis Fadous**, President of the Order the other key-person behind the conference was Congress Director **Yaacoub Saade**, chair elect of FIG Commission 1, who also gave an interesting presentation in the conference about the *Role of a Surveyor – A Human Vision beyond the Technique*.

President **Holger Magel** visited in late September 2004 Slovenia on the occasion of the 10<sup>th</sup> Anniversary of the Krim coordinate system, simultaneously with International Conference "Land Surveying – Future Prospects and Reality", in which Prof. Magel addressed the participants. During his visit President Magel had a meeting with the Minister of Environment, Physical Planning and Energy. During this meeting among different issues also the present situation and perspectives

of geodetic services and profile of surveyors in Slovenia in connection with the EU were discussed.

President **Holger Magel** and Director, FIG Office visited the two FIG member associations in UK in December 2004. President Magel gave an evening lecture at the RICS to an audience that filled the Lecture Hall of RICS. The lecture "Surveyors and politics – the need for dialogue". The following day Prof. Magel

met with representatives of the Institution of Civil Engineering Surveyors (ICES) Board at the house of the Institution of Civil Engineers. The meeting was chaired by **Robert Fleming** the newly appointed President of ICES. The President further met with the RICS representatives led by **David Powell**, Chair of the Geomatics Faculty of RICS and other leaders of RICS as well as RICS delegates and officers in FIG. After the meeting with ICES and RICS Prof. Magel met also Prof. **Ian Dowman**, President of ISPRS with whom the co-operation between these two sister associations were discussed.

Later in December President **Magel** also visited the **Austrian Society for Surveying and Geoinformation**, OVG in Austria in conjunction with the meetings at the UN OOSA.

Following a long lasting invitation of **Consiglio Nazionale Geometri** (CNG) FIG President **Holger Magel** visited in February 2005 the Rome headquarter of the Italian FIG member association, which even belongs to the FIG founding members in the year 1878. Prof. Magel had a very fruitful discussion with all members of the national council of CNG under the chair of President **Piero Panunzi**. President Magel thanked the Italian colleagues for their long membership and loyalty to FIG and requested them to intensify their commitments and contributions by showing a strong presence at the FIG events and especially by actively taking over functions and responsibilities within the commissions.

Only one week after his Rome meeting with one of the oldest FIG member associations, the Italian CNG, President **Holger Magel** visited one of the youngest FIG members, the Ordre des Géomètres-Experts Fonciers, OGEF in Algeria, which joined FIG during the Regional Conference in Marrakech in December 2003. President Magel followed the invitation of OGEF President **Ahmed Benaissa** to encourage the Algerian colleagues for consequent commitments and increased contributions to FIG and its commissions. At his meeting with the Geometres in Oran and Algiers President Magel expressed also his confidence, that being a member of the global surveyors community Algeria – after difficult political periods – now can participate in the global exchange of experiences and that OGEF now also can benefit of the widespread work of FIG.

The 3<sup>rd</sup> **Croatian Congress on Cadastre** with international participation was held at the Congress Center of the Zagreb Fair in Zagreb, Croatia in March 2005. The conference was held in conjunction with the 2<sup>nd</sup> INTERGEO EAST, an international fair of geodesy, land management and geoinformation. FIG Deputy President Dr. **Andreas Drees** was invited to address the participants of the congress on behalf of FIG and he also gave a keynote presentation in the first session of the conference.

Director, FIG Office attended the 10<sup>th</sup> **International Scientific Conference "Modern Progresses of Geodetic Sciences and Industry"** also known as GEOFORUM'2005 organised by the Ukrainian Society of Geodesy and Cartography in Lviv-Yavoriv, Ukraine in April 2005. The conference was also the celebration of the 60<sup>th</sup> Anniversary of the Institute of Geodesy of the National University "Lviv Polytechnic" and the 10<sup>th</sup> Anniversary of the Ukrainian Society of Geodesy and Cartography. The conference was held at the Polygon military camp outside Lviv and it was attended by 170 geodesists and surveyors.

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## Communication

The General Assembly adopted the new FIG information policy at its meeting in Athens in May 2004. The main tools for communication are the FIG web site [www.fig.net](http://www.fig.net) and different newsletters (both as soft and hard copies), President's letters 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, conference reports and all conference keynote speeches and lectures of FIG President Magel. It further includes the articles of the month.

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 as hard copies and on the commission web sites.

In the *FIG publications series* the federation publish 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.

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## Permanent Institutions

FIG has three permanent institutions (The International Office of Cadastre and Land Records – OICRF, [www.oicrf.org](http://www.oicrf.org) ; The FIG Multi-Lingual Dictionary Board, [www.bkg.bund.de/index\\_english.htm](http://www.bkg.bund.de/index_english.htm) ; and The International Institution for the History of Surveying and Measurement – **Permanent Institution of FIG** , [www.fig.net/hsm](http://www.fig.net/hsm)) and the FIG Foundation.

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## Task forces

At the moment FIG has one task force after the FIG Council established a **Task Force on FIG Governance Structure** in January 2005. The Task Force 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**.



President's Meeting at the General Assembly in Cairo 2005.

## FIG Definition of the Functions of the Surveyor

The new definition of the functions of the surveyor was adopted by the FIG General Assembly in Athens in May 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.

### 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 as follows:

The Board of Directors of the FIG Foundation gave in 2002 totally US\$ 13,000 to 12 applicants from 10 countries. The total number of applications was 20. The grants were given to the following applicants: Dr. **Frances Plimmer** (United Kingdom), **Boipuso Nkwae** (Canada/Botswana), **Mabel Alvarez de Lopez** (Argentina), Dra. **Analía Argerich** (Argentina), Dr. **Ioan Stancu** (Romania), PhD **Hande Demirel** (Turkey), **Alick R. Mwanza** (Zambia), **Sara J. Wilkinson** (United Kingdom), Dr. **Sankaran Rajendran** (India), **Marie C. Robidoux** (Canada), Dr. **Galcano Canny Mulaku** (Kenya) and Dr. **Jinyun Guo** (P. R. China).

In 2003 almost US\$ 7,000 was given to 7 applicants from 7 countries. The total number of applications was 15. The grants were given to

the following applicants: **Juan B. Paez-Ferro** (Colombia): Development of an actualization course in order to prepare the academic infrastructure in Colombian universities for the new technologies in the surveying profession; **Nick Nunnington** (Netherlands): The European Challenge – an Overview; **Renida Sarala** (India): Survey orientation programme; **Marina Vaskovich** (Sweden): Property formation modelling with application of the Republic of Belarus; **Andrew Kozikov** (Ukraine): Cadastral Development – the contribution of scientific enquiry. In addition the International Geodetic Students Meetings 2003 in Germany and in 2004 in Finland were supported.

The Board of Directors of the FIG Foundation decided on the FIG Grants 2004 at its meeting in Athens during the FIG Working Week 2004. About 6,000 € was given to 4 applicants from 4 countries. The total number of applications was 12. The grants were given to the following applicants: **Boipuso Nkwae**, Canada: Managing Land Information for Urban Governance in Botswana; **Jennifer Whittal**, South Africa: Capacity Building and Postgraduate Research in Land Tenure and Cadastral Systems in Southern Africa; **Daniel Paez**, Australia: Increasing the Range of Services of the Colombian Surveyors by Demonstrating DISCUSS, a Decision Support System that Uses Latest Surveying Technologies; and **Jose David Belaga**, Argentina: The Argentine Cadastre over the Last Fifty Years and an Overview of the Brazilian Cadastre

In 2005 about 7,000 € was given to 7 applicants from 6 countries. The total number of applications was 14. The grants were given to the following applicants: **Parama Anandan**, India: Education of NGOs in the coastal districts of Tamilnadu on the surveying education after the tsunami; **Hasanuddin Zainal Abidin**, Indonesia: Studying land subsidence of Bandung Basin (Indonesia) using GPS survey technique; **Daniel Paez**, Australia: Promoting surveying education in Colombia by awarding best Colombian paper published during the year; **Ganesh Prasad**, Nepal: Identification of technical deficiencies and human factors in land disputes: In the context of Nepalese cadastral surveying; **Karin Viergever**, United Kingdom: Promoting the understanding and value of new developments in remote sensing and global navigation satellite systems for interdisciplinary professional groups in a developing country; **Mia Flores-Bórquez**, United Kingdom: Land disputes resolution and restitution in post-conflict societies; and **Emmanuel Tembo**, Botswana: Growing a profession – a comparative study of Southern African professional bodies.

#### 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.



**Holger Magel and Jack Dangermond, Honorary President of the FIG Foundation at the Foundation Dinner and Egyptian evening in Cairo in April 2005.**



## FIG Members (May 2005)



■ Full members  
■ Affiliates  
■ Correspondents

### Member associations

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

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

## FIG Membership

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

## Affiliate Members

<b>Belgium</b>	Administration of the Patrimonial Documentation, Federal Public Service Finance
<b>Brunei Darussalam</b>	Survey Department, Ministry of Development
<b>Cambodia</b>	Ministry of Land Management, Urban Planning and Construction
<b>Chile</b>	Servicio Hidrográfico y Oceanográfico de la Armada de Chile
<b>Colombia</b>	Instituto Geográfico Agustín Codazzi
<b>El Salvador</b>	Instituto Geográfico Nacional
<b>Guatemala</b>	Instituto Geográfico Nacional
<b>Hungary</b>	Institute of Geodesy, Cartography and Remote Sensing (FÖMI)
<b>Jordan</b>	Department of Lands & Survey, Ministry of Finance
<b>Mexico</b>	National Institute of Statistics, Geography and Informatics (INEGI)
<b>Nepal</b>	HMG Survey Department, Nepal
<b>Peru</b>	Sistema Nacional Integrado de Información Catastral Predial (SINICAP) / Consejo Nacional de Catastro (CNC)
<b>Rwanda</b>	Ministry of Lands, Resettlement and Environment
<b>Saudi Arabia, Kingdom of</b>	Ministry of Municipal and Rural Affairs

## Academic Members

<b>Argentina</b>	Facultad de Ciencias Exactas y Tecnologías / UNSE, Departamento Académico de Agrimensura
<b>Australia</b>	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
<b>Austria</b>	University of Agricultural Sciences Vienna, Institute of Surveying, Remote Sensing and Land Information
<b>Bahrain Arabian Gulf</b>	University, College of Graduate Studies
<b>Botswana</b>	University of Botswana, Department of Civil Engineering
<b>Brazil</b>	Universidade do Vale do Rio dos Sinos – UNISINOS, Centro de Ciências Exatas e Tecnológicas
<b>Canada</b>	University of Calgary, Department of Geomatics Engineering University of New Brunswick, Department of Geodesy and Geomatics Engineering

<b>Chile</b>	Universidad de Concepción, Unidad Académica Los Angeles, Departamento Geomensura
<b>China, People's Republic</b>	Wuhan University
<b>Colombia</b>	Universidad Distrital Francisco José de Caldas, Facultad de Ingeniería
	Universidad Distrital Francisco José de Caldas, Facultad del Medio Ambiente y Recursos Naturales
	Universidad del Valle, Departamento del Valle del Cauca
<b>Costa Rica</b>	Universidad Nacional, Escuela de Topografía, Catastro y Geodesia
<b>Croatia</b>	University of Zagreb, Faculty of Geodesy
<b>Denmark</b>	Aalborg University, Department of Development and Planning
<b>Finland</b>	Helsinki University of Technology, Department of Surveying
	Espoo-Vantaa Institute of Technology (EVITech), Land Surveying
<b>Germany</b>	Anhalt University of Applied Sciences, Faculty of Surveying Engineering
	Technische Universität München
	Technische Universität Berlin, Geodäsie und Geoinformationstechnik
	University of Applied Sciences Oldenburg/ Ostfriesland/Wilhemshaven, Department of Surveying Engineering
<b>Ghana</b>	Kwame Nkrumah University of Science and Technology, Department of Geodetic Engineering
	University of Mines and Technology, Department of Geodetic Engineering
<b>Greece</b>	National Technical University of Athens, School of Rural and Surveying Engineering
	Technological Educational Institute of Athens, Department of Topography
<b>Hong Kong SAR, China</b>	The Hong Kong Polytechnic University, Department of Land Surveying & Geo-Informatics
<b>Hungary</b>	The University of West Hungary, College of Surveying and Land Management
<b>India</b>	Annamalai University, Department of Geology
<b>Indonesia</b>	Institute of Technology Bandung, Department of Geodetic Engineering
<b>Ireland</b>	Dublin Institute of Technology, Department of Geomatics
<b>Jamaica</b>	University of Technology Jamaica, Division of Surveying and Geographic Information Sciences
<b>Kenya</b>	University of Nairobi, Department of Surveying

<b>Lithuania</b>	Vilnius Gediminas Technical University
	Lithuanian University of Agriculture, Water and Land Management Faculty
<b>Malaysia</b>	Universiti Teknologi Malaysia, Department of Geomatics Engineering
<b>Moldova</b>	State Agrarian University of Moldova, Faculty of Cadastre and Environmental Engineering
<b>Mongolia</b>	Mongolian Technical University, Department of Geodesy
	Mongolian Agricultural University, School of Agrobiolology
<b>Morocco</b>	Institut Agronomique et Vétérinaire Hassan II, Filière de Topographie
<b>Netherlands</b>	ITC International Institute for Geo-Information Science and Earth Observation
<b>New Zealand</b>	University of Otago, Department of Surveying
<b>Nigeria</b>	Federal School of Surveying, Oyo
	University of Lagos, Department of Surveying and Geoinformatics
	Nnandi Azikiwe University, Faculty of Environmental Sciences
<b>Norway</b>	Agricultural University of Norway, Department of Land Use and Landscape Planning
	Agricultural University of Norway, Department of Mathematical Sciences and Technology
<b>Oceania</b>	University of the South Pacific, Land Management & Development Department
<b>Poland</b>	Agricultural University of Cracow, Faculty of Environmental Engineering & Land Surveying
<b>Puerto Rico, USA</b>	University of Puerto Rico, Civil Engineering Department
	Polytechnic University of Puerto Rico, Department of Land Surveying and Mapping
<b>Romania</b>	"Dunarea de Jos" University Galati, Cadastre, Environment Management and Protection Department
	"1 Decembrie 1918" University of Alba Iulia, Department of Topography and Cadastre
<b>Russian Federation</b>	Moscow State University of Geodesy and Cartography, Economic and Land Management
<b>Singapore</b>	National University of Singapore, School of Design and Environment
<b>Slovenia</b>	University of Ljubljana, Faculty of Civil and Geodetic Engineering
<b>South Africa</b>	University of Cape Town, Department of Geomatics
<b>Spain</b>	Universidad Politécnica de Madrid, Escuela Universitaria de Ingeniería Técnica Topográfica
	Universidade de Santiago de Compostela, Department of Agricultural and Forestry Engineering

<b>Spain (cont.)</b>	Institut de Geomàtica, Integrated Geodesy and Navigation
<b>Sweden</b>	Royal Institute of Technology, Real Estate Planning and Land Law
	Lund University, Department of Real Estate Science
<b>Switzerland</b>	FHBB Basel Institute of Technology and Management, University of Applied Sciences, Department of Geomatic Engineering
<b>Tanzania</b>	University College of Lands and Architectural Studies, Department of Land Surveying
<b>Turkey</b>	Istanbul Technical University, Department of Geodesy and Photogrammetry
<b>United Kingdom</b>	Anglia Polytechnic University, Built Environment
	Kingston University, School of Surveying
	Leeds Metropolitan University, School of the Built Environment
	The Royal School of Military Survey, Geographic Engineer Group
	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	
<b>Uruguay</b>	University of Oriental Republic of Uruguay, Surveying Institute
<b>USA</b>	Michigan Technological University, School of Technology
	New Mexico State University, Surveying Engineering
	The Pennsylvania State University, Surveying Program
	The University of Southern Mississippi, Marine Science
<b>West Indies</b>	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.

## Corporate members

<b>Platinum level</b>	
	Environmental Systems Research Institute, Inc. (ESRI), <a href="http://www.esri.com">www.esri.com</a>
	Intergraph Mapping and Geospatial Solutions, <a href="http://www.intergraph.com">www.intergraph.com</a>
	Leica Geosystems AG, <a href="http://www.leica.com">www.leica.com</a>
	Topcon Corporation, <a href="http://www.topcon.co.jp/eng/">www.topcon.co.jp/eng/</a>
	Trimble Navigation Ltd, <a href="http://www.trimble.com">www.trimble.com</a>
<b>Gold level</b>	
	AED-SICAD Aktiengesellschaft, <a href="http://www.aed-sicad.com">www.aed-sicad.com</a>
	SOKKIA CO., LTD., <a href="http://www.sokkia.co.jp">www.sokkia.co.jp</a>
<b>Silver level</b>	
	BLOM ASA, <a href="http://www.blomasa.com">www.blomasa.com</a>
	Grontmij nv, <a href="http://www.grontmij.com">www.grontmij.com</a>
	Kampsax A/S, <a href="http://www.kampsax.dk">www.kampsax.dk</a>
<b>Bronze level</b>	
	Eimar Arabia Real Estate Development Co. Ltd., <a href="http://www.eimarakabia.com">www.eimarakabia.com</a>
	GITC Bv – GIM International, <a href="http://www.gim-international.com">www.gim-international.com</a>
	IGN France International, <a href="http://www.ignfi.fr">www.ignfi.fr</a>
	Josef Attenberger GmbH, <a href="http://www.attenberger.de">www.attenberger.de</a>
	MENSI S. A., <a href="http://www.mensi.com">www.mensi.com</a>
	Schonstedt Instrument Company, <a href="http://www.schonstedt.com">www.schonstedt.com</a>
<b>Basic level</b>	
	GEO:connexion Ltd, <a href="http://www.geoconnexion.com">www.geoconnexion.com</a>
	GEOEXPERT, <a href="http://www.geoexpert.asso.fr">www.geoexpert.asso.fr</a>
	GeoInformatics, <a href="http://www.geoinformatics.com">www.geoinformatics.com</a>
	Hansa Luftbild Sensorik und Photogrammetrie GmbH, <a href="http://www.hansaluftbild.de">www.hansaluftbild.de</a>
	Institut Cartogràfic de Catalunya, <a href="http://www.icc.es">www.icc.es</a>
	International Land Systems (ILS), Inc., <a href="http://www.landsystems.com">www.landsystems.com</a>
	LKN Earth Research & Consulting, <a href="http://www.lknconsultants.com">www.lknconsultants.com</a>
<b>Regional level</b>	
	Cameroon Engineering S.A.
	GTZ (German Agency for Technical Cooperation), <a href="http://www.gtz.de">www.gtz.de</a>
	Remote Sensing Center of Environment Consulting
	SEPRET (Société des Etudes de Projets et Réalisation des Travaux, S.A.R.L.), <a href="http://www.sepret.com">www.sepret.com</a>

## FIG Council 2003–2006

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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

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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,  
FKIS, 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@dle-r.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

Staff:  
Mr. Markku Villikka, Director, FIG Office,  
email : markku.villikka@fig.net  
Ms. Tine Svendstorp, Personal Assistant,  
email: tine.svendstorp@fig.net  
Ms. Dorte Rechendorff, Assistant,  
email: dorte.rechendorff@fig.net

## Commission chairs and Chairs Elect



### 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 service.

### Commission 2 – Professional Education

Chair: Professor **Pedro Cavero** (Spain), email: pjcavero@nivel.uitto.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), email: adam.greenland@pola.co.uk

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@netvigat.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.

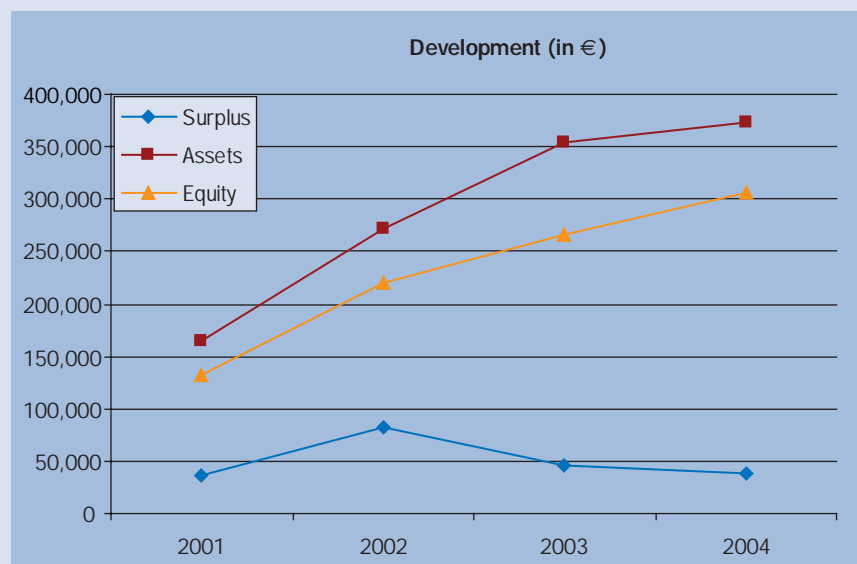
## Income and expenditure account 2001–2004

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

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

The original account in Danish crowns have been converted to EURO using the exchange rate: 100 DKK = 13.46801 EURO.

## FIG balances 2001–2004





# XXIII International FIG Congress German INTERGEO®



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## Shaping the Change

[www.fig2006.de](http://www.fig2006.de)

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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](mailto:fig@fig.net), [www.fig.net](http://www.fig.net)

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