

FIG Work Plan

2003 – 2006

INTERNATIONAL FEDERATION OF SURVEYORS, FIG

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The International Federation of Surveyors (FIG)
Lindevangs Allé 4
DK-2000 Frederiksberg
DENMARK

Tel: + 45 38 86 10 81

Fax: + 45 38 86 02 52

Email: FIG@FIG.net

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The FIG Work Plan 2003 - 2006

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Foreword

This document lists the tasks which FIG will undertake during 2003-2006. It comprises the vision statement and goals of the Federation, a plan of work for the Council for 2003-2006, in relation to the administration and forward planning of the Federation; and plans of work 2002-2006 for each of the ten technical commissions which pursue FIG's professional and technical objectives. It is, however the Council which has overall responsibility for fulfilling this plan, in its role either as an executor or, in the case of commission-led activities, as a facilitator and co-ordinator.

The Council's Work Plan is governed by FIG's aim and objectives, the Statutes and Internal Rules of the Federation and decisions of the General Assembly of FIG.

The FIG Work Plan 2003–2006 has been adopted by the 25th FIG General Assembly in Washington, DC, USA in April 2002.

Prof. Holger Magel
President of FIG 2003-2006

Aim

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

Objectives

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

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

Mission Statement

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

The Council Work Plan 2003 – 2006

“Shaping the Change”

1. Theme

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

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

2. Introduction

This Work Plan provides direction for the Council in the management of the Federation, for the FIG-Office in the administration of the Federation and for the technical Commissions in the development and execution of their Work Plans. It is the first time that the terms of both the Council and Commission Work Plans cover the same period. This is a very important breaking point to get more efficiency in the output of FIG. As the Managing Board of the Federation, the Council has the responsibility and authority for fulfilling this Work Plan. Its role is either as an executor or, in the case of commission-led activities, as a facilitator and co-ordinator.

The Council will support and continue the long-term strategy of FIG:

- promote and enhance the **global standing of the profession** by informing relevant stakeholders of the contribution which surveyors can make to the solution of relevant problems (e. g. to the UN global campaigns, Agenda 21 etc.)
- support the **growth of the profession** by encouraging the active development and progressive enhancement of national member associations

- identify and influence the creation of appropriate **best or good practice, international standards and qualifications** relevant to the practice of surveying
- maximise the **contribution of surveyors** to the development of the knowledge economy/society to identify approaches which help deliver the agenda for **global sustainable development** and
- support and contribute towards **supporting international humanitarian needs**.

The Council will continue the successful policy of the US Council, particularly in being directly responsive and responsible for the needs of the member associations and their individual members. The Council will increase the identification of our profession on the colourful and multilingual background of the whole world.

It is recognised that the commissions are the implementers of FIG policies and programs – with other words “the heart and spirit of FIG”.

Against this background the Council sets the following goals:

- By passing on the responsibility to all Vice Presidents the Council will see to it, that more direct contacts are available for members and commissions as well as for external organisations; the Council will take care as well, that the FIG Office as central contact is financially secure and able to work efficiently for the long term.
- FIG should extend service for the member associations and, where necessary, improve it.
- The aims of Council and commissions even better should be brought into line as regards schedule and contents without interfering with the independence and the responsibility of the commissions.
- The successfully developed role of FIG as an internationally recognised NGO, particularly by UN agencies, should be further extended; the co-operation with other NGOs, especially with professional sister organisations, should be developed further to avoid overlapping of content and time of events.
- Main emphasis has to be the encouragement of young professionals and the support of the profession particularly in developing countries. Therefore the FIG Foundation should be extended to a powerful instrument.

3. Management

3.1 Strategic Planning

In accordance with the long-term strategic direction of FIG and with regard to the above mentioned leading aims and objectives the strategy of the Council appears as a logical consequence.

Shaping the change should happen by shaping:

- Quality of profession (e.g. by review of papers, co-operation with scientific organisations etc.) and high profile of FIG
- Commitment for sustainability (e.g. by implementing the FIG Agenda 21, Bathurst Declaration, Nairobi Statement etc., especially describing what we are really willing to do, for example in spatial planning, land management, land use, secure tenure, inclusive cities etc.)

- Contributions for knowledge society and education (e.g. better use of the Education Database by universities, academic members and member associations)
- Participation and concentrated broadening (continuing democratisation process and multicultural approach of FIG, membership expansion focussed on certain regions –e.g. the Arabic countries and Latin America - to be continued)
- Creating of networks for mutual learning and recognition (especially with associations close to the profession by establishing memoranda of understanding, describing the benefits of academic membership, appealing students and young people to participate activities within FIG)
- The PR for the professional contributions to society and human life
- Regionalisation in respect of globalisation (more regional or continental activities)
- Communication within FIG (making FIG more popular to the individual members, demonstrating the benefits of FIG to the member associations and members for example by conclusions or resolutions after each FIG event and publishing on the FIG web site and in the national newspapers, FIG World Report, etc.)
- Cost management and professionalism (more joint commission activities, avoiding of overlapping meetings by better co-ordination of the events, new income possibilities by making FIG responsible on congresses, fairs and other events).

The goal of the Council is, that after the transition period the next Council can start its work in full function. FIG, the Council and commissions, in particular, should be able to react on global and national challenges and tasks in an appropriate time. Questions of future Task Forces (whether integrated in commissions or not), increasing strategic partnerships and joint events with other international and national institutions have to be discussed against this background.

At the end of the period 2003–2006 the Council wishes to present comprehensible and recognisable results not only regarding internal organisational changes but as well the technical work. A FIG World Report on Good Practices, worked out by the commissions in co-operation with the Council, could be a plainly visible result and sign of an increase in globalisation and professionalism of FIG.

3.2 Membership Affairs

The Council will continue the successful work of the previous Councils to extend membership

- especially in under-represented regions; therefore regional activities of FIG as joint events with local associations are of special interest.
- by encouraging university departments to belong to and to contribute to FIG as academic members; this can happen by promoting the benefits of education database and the results of commission work as well as by joint activities.

To increase participation in the work of FIG the incoming Council will

- encourage members to play a full part in FIG by participating in meetings, nominating and supporting delegates to commissions and candidates for the future Councils and commission vice chairs. This intention is directed particularly at young professionals for a creative mixture of experience and enthusiasm.

- reinforce and communicate the benefits of membership of FIG to member associations and their members by providing regular and relevant information e.g. by resolutions after each event, brief FIG reports for member associations newsletters and professional magazines, the planned FIG world report on good practices and promotion and better distribution of the multilingual dictionary.

3.3 External Relationships

As a world-wide acting Federation, which represents more than 100 countries, FIG has to take on more and more responsibility in international affairs. This issue has to be expressed in external relationships, work of commissions, finances and representation by the Council. The Council will continue the very successful work of the previous Councils and feels strongly committed to the efforts of UN agencies for good governance, sustainability and other global campaigns.

The Council therefore will

- develop, deepen and broaden the contacts with international agencies and non-governmental organisations
- maintain active communication and joint conferences with United Nations' organisations, the World Bank, the World Trade Organisation, aid agencies and other non-governmental and governmental organisations
- co-operate with other associations with interests in developing countries; encourage the development of networks between commissions and within specific geographical zones to enable good educational practice to be communicated and for the establishment of mutual support systems
- co-operate with the World Trade Organisation in the promotion of professional standards and of global markets for surveying services, and
- produce publications (for example good practice reports or documentation of conferences etc.) of common interests and engagements.

3.4 Commissions

FIG was founded 1878 as a technical/scientific association and this still is the destination the "FIG ship" has to be navigated to. Recognising this opportunity as the strongest the Council will fully integrate and implement the results of the important task force on commission structure into its work to strengthen the technical/scientific contribution of FIG to the world of surveyors.

The Council will

- be responsible with all its members for the co-ordination of commission work
- support the commissions to organise joint meetings with other FIG – commissions and external bodies
- support the commissions to work out a good practice report to be presented by each commission for the handover in Munich 2006

Getting a better co-ordination between commission meetings and working weeks or other FIG events to get less fees and travel costs for the participants / delegates is an additional aim of the Council.

4. Administration

4.1 Personnel

The resources and staff in the FIG office will be considered against the new services and activities provided and the new income that could be generated through organising FIG events. The Council will perform annual reviews of the FIG office and its staff and will co-operate in close contact with the Director, FIG office.

4.2 Finance

1. The FIG office will collect membership and corporate membership fees and other income and generate new income from assisting and organising events etc. The Council assists the FIG office in getting new members.
2. The FIG office will provide support to the Council in the preparation of annual budgets, and will prepare cash flow statements and publish accounts after auditing by a public accountant.
3. The FIG office will pay bills of the organisation as approved by the Council.
4. The FIG office will maintain a proper set of books detailing the financial activity of FIG.
5. The permanent financial reserves should reach by the end of 2006 a minimum of 400,000 Swiss francs. In the long run these reserves should end up by 1.5 times the annual income of the Federation to guarantee the operation of the FIG office. To achieve this aim the membership should be increased, the corporate members should be motivated to increase their sponsorship, further corporate members are to be acquired and other sources of income shall be generated (e.g. the commercialisation of the fairs).
6. The hosting of the permanent FIG office in Copenhagen is guaranteed by the contract between the FIG and the Danske Landinspektørforening (DdL) free of charge. The Personal Assistant to the Director is financed by the DdL/KMS (National Survey and Cadastre, Denmark) until the end of the year 2003. Afterwards the FIG has to cover these costs from its annual budget.
7. The strategy of supporting countries with low or low-middle income economies will be followed up.

4.3 Meetings of the Council

Council

The meetings of the Council will take place in regular intervals, at minimum four times a year including one meeting during the Intergeo fair and one during the FIG working week, either in Germany or any other convenient place or in the FIG office.

Working Weeks

2003: Paris, France

2004: Athens, Greece

2005: Cairo, Egypt

2006: Munich, Germany, XXIII Congress

XXIII Congress 2006

The Council will progress arrangements for the XXIII FIG Congress in Munich in 2006 which will be implemented as a joint congress with the German “Intergeo”.

Appendix A – Communication

FIG web site

The FIG web site will be further developed as the main communication channel between the Federation, its members and individual surveyors in the member associations.

The FIG web site will include all contact information to the Council, Commissions and permanent institutions. All FIG publications together with proceedings from the FIG congresses, working weeks and regional events will be available on the FIG web site. Proceedings from commission seminars and symposium will be available either on the Commission web site or when desired on the FIG web site.

To help the administration of the Commission web sites place on the FIG server will be offered to the Commissions.

To help member associations that are not able to administrate their own web sites FIG will offer limited space on the FIG server for national member association's web site.

Annual Review

The Council will continue to publish the FIG Annual Review as a promotion material to external partners and to member associations to promote FIG in their respective countries to promote the profession and to make FIG more commonly known.

Bulletin

The FIG Bulletin will be published 3-4 times a year (the FIG Annual Review could cover one quarterly bulletin). The Bulletin will include news from FIG, its events, co-operation with the United Nations and from member associations.

The possibility to start publishing FIG Journal will be studied. This could include both material now published in the Bulletin but also professional and scientific articles from the FIG conferences and other events. Decisions will be made based on the economical conditions and advertisement income.

Monthly electronic newsletter

The Council will study the possibility of producing monthly newsletter including material that could be abstracted and translated to national newsletters and journals (national FIG page). This material will be circulated through email distribution lists.

Commission Work Plans 2002 – 2006

FIG COMMISSION 1 PROFESSIONAL PRACTICE AND STANDARDS WORK PLAN 2002 – 2006

1. Title

Professional Practice and Standards.

Commission 1 is dedicated to all fields of professional activities and therefore has a commitment to raising issues of general interest that apply across the activities of all commissions. There are many areas of overlap of interest and this supports cooperative involvement in other commissions activities. The title ‘professional practice’ is a clear indication of the wide breadth of aspects to be handled.

2. Terms of Reference

- Professional practice, legal aspects and organisational structures
- Standards and certification
- Project-management, quality and best practice
- Information technology management as it relates to professional practice
- Support of under-represented groups and fair competition

3. Mission Statement

- Capability of development: Changes are affecting the operation of surveying practices, their management and their professional structures under the challenges of widening professional activities.
- Change of technology: Managing processes and infrastructure with ever changing business infrastructures in the areas of IT, internet, networks and total quality management.
- Improving surveyors’ reputation: Supporting the essential dialogue between politicians and surveyors with regard to further development and setting up the own business in strengthening surveyors’ role in economy and politics.
- Under represented groups: To focus public attention on under represented groups by surveying activities taking place to improve representation.

The Objectives for the Work Plan are to undertake the terms of reference in order to:

- Involve the wider community in the work of commission 1 recognising it’s role in getting the basic professional building blocks in place for practitioners;
- Develop collaborative work practices between professionals;
- Build networks with member associations, related societies and organizations to improve professional practice and standards;
- Foster intercommissional cooperation;
- Recruit active and enthusiastic people to work with Commission 1 in progressing its mission.

4. General

These steps outlined in the work program contribute to wider aims to consolidate freedom in society and increase economic growth. They follow the results of UN-campaigns and international declarations. FIG can play an important role to support and enable the essential dialogue between politicians and surveyors. Society needs surveyors' services and their advice with regard to further development of the important resources related to land. It also recognises that that world in which the surveyor operates is diverse and that to participate effectively this diversity has to be recognised and welcomed.

Commissions endorse the underlying concept that respect for Cultural and Linguistic issues is very important and that Commissions will be sensitive to these issues in the way they work. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

5. Working Groups

Working Group 1.1 – FIG Standards Network

Policy issues

- Developing the involvement of practising surveyors in the development and use of standards
- Increasing the influence of surveyors on key international standardisation bodies
- Building the linkage between FIG workplans and standardisation activities
- Advising FIG officers and members on standards and standardisation
- Supporting the implementation of FIG's policy on standards

Chair

Iain Greenway (Ireland), e-mail: igreenway@compuserve.com.

Specific projects

- Continuing to research the most effective way to influence the standardisation process, building relationships with member associations and sister societies as necessary
- Coordinating FIG's input to and relationship with ISO (in particular TC211 and TC172 SC6) and IVSC
- Working with Commissions to provide appropriate briefings to FIG's members on developing and recently published standards
- Maintaining and updating a standards area on the FIG website and the FIG Guide on Standardisation

Publications

- At least one paper at each FIG Working Week, providing an update on activities and progress

- Articles in the FIG Bulletin as appropriate

Timetable

- The Working Group will continue until at least the Congress in Munich in 2006
- A recommendation on how best to handle standardisation matters in FIG beyond 2006 will be presented to the Council by the end of 2005.

Beneficiaries

- Surveyors and surveying practices;
- Other professionals working in land management and development;
- Member associations and sister associations involved in standard setting;
- ISO and IVSC;
- All Commissions;
- Universities and educational organisations

Working Group 1.2 – Professional practice and organisational structures

Policy issues

- Widening professional activities, overcome restrictions
- European and world-wide limitations, monitoring the legal development (i.e. GATS, EC Treaty, other relevant policies).
- Dialogue between politicians and surveyors, as well as public private partnership.

Chair

Michael Keller (Switzerland), e-mail: Mkeller@ipg.ch.

Specific projects

- Fundamentals of legal frameworks to be presented in a paper. (2002)
- Professional studies, business structures, bans or restrictions to be investigated. Facts to be collected for development of a paper. (2003)
- Recommendations on behalf of less developed countries, acknowledgement by developed countries, how structural and legal processes might be possible. Models to be proposed. (2004)
- Acknowledgement of the requirements of governments /survey departments – necessary information provided as a basis for surveyors to deal with the legal developments and future requirements. (2005)
- Review Publication 29 on Business Practices and determine whether there is a need to update it. (2005)
- Synthesis of the research undertaken (Munich 2006)

Publications

- Fundamentals of legal frameworks paper - 2002

- Professional studies, business structures, bans or restrictions, results of investigations. - 2003
- Report on work and findings – Munich 2006

Timetable

- The Working Group will continue until at least the Congress in Munich in 2006

Final report

During the Munich Congress

Beneficiaries

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

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

Policy issues

- Identifying the impact of IT, Internet and e-commerce on the profession and determining strategies for dealing with the impact.
- Communicating effectively to the FIG community including using the Homepage of Commission 1
- Development of Knowledge Management concepts as a way of working more effectively.

Chair

Yaacoub Saade (Lebanon), e-mail: comandoo1@yahoo.com.

Co-Chair: Stephen Djaba (Ghana), e-mail: Stephen@ghana.com.

Specific projects

- Produce a communication and marketing plan for Commission 1 activities to support its work and ensure that key messages are being received by member organizations and that two way communication channels are operating. This to be prepared in 2002
- Impact of IT, Internet and e-commerce impact on the profession to be reported with recommended strategies for dealing with the impact.
- Ongoing development and refinement of the Commission 1 Homepage to be undertaken by Co-Chair.
- Review of Knowledge Management concepts and how they could be used in practice.

Publications

- Communications and Marketing Plan - 2002

Timetable

- The Working Group will continue until at least the Congress in Munich in 2006

Final report

- During the Munich Congress

Beneficiaries

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

Working Group 1.4 – International project management (Joint Activity with Commission 10)

Policy Issues

- Ability of professionals to work as effectively as possible in multifaceted projects as such projects are an important component of professional service delivery.
- Working with people, communicating messages, moving towards more collaborative work processes as the world of the professional and the type of work undertaken expands into other related areas.
- Being aware of current good practice, how it can be implemented across a variety of delivery systems and communicating this to professionals.
- Knowing what quality management is and being provided with resources to assist in applying this in diverse work situations.

Chair

Leonie Newnham (Australia), e-mail: Leonie.Newnham@nre.vic.gov.au.

Specific projects

- Development of a project management resource detailing the major facets of project management delivery as it applies to the profession in conjunction with Commission 10 and using an interactive review process with FIG Member Associations.
- Research case studies in project management across regions of the world in conjunction with Commission 10 with the aim of preparing a resource for use by members in learning about and discussing project management issues.
- Establish a collaborative work site to develop a community of interest group that can work across member organisations to share information on current good practice and

quality management in theory and practice. Outcomes of this to contribute to FIG's approach to world's good practice.

Publications

- Report at each FIG working week outlining activity against each project.
- A paper at each FIG working week on one of the aspects of the specific projects.
- Articles published in industry publications as opportunities arise.
- Written material that could include a Project Management Resource Guide and Case Studies Booklet

Timetable

- Establishment of collaborative work site by 2002
- Project Management Resource Guide and Case Studies Booklet by 2006

Final report

During the Munich Congress

Beneficiaries

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

Working Group 1.5 – Under-represented Groups in Surveying (Joint working group with other FIG Technical Commissions)

Policy issues

- Survey the role of minorities in the world of surveying and the benefit of diversity.
- Analyse the present status of under-represented groups and be aware of good practices concerning the support of under-represented groups in FIG member associations, in professions and at universities.
- Enhance fair competition for minority groups.

Chair

Gabriele Dasse (Germany), e-mail: gabriele.dasse@gv.hamburg.de.

Specific Projects

- Continuing with a FIG network for under-represented groups in surveying to enhance the distribution of information.
- Intensify the work within the FIG Commissions to support women and cultural and language minorities.

- Evaluation of FIG Washington Congress registration concerning gender, age, commissions and continents.
- Organise joint Commission working group meetings or workshops during the working weeks.

Publications

- Quarterly Newsletter to publish good practices
- Provide guidelines for FIG (Congress 2006)

Final report

In the Munich Congress

6. Co-operation with Sister Associations

Commission 1 intends to continue co-operation with Sister Societies by including its work in the provision of a strong foundation for professionals and so supporting the activities of all other FIG Commissions. In its activities over this period it will be working cooperatively with Commission 10 in the Project Management area and also Commission 2 exploring and building on Knowledge Management concepts. The Inter-Commission activities include formal cross Commission structures established by the FIG Standards Network undertaken in Working Group 1 and the Working Group of Under-represented groups in FIG. It will build relationships with Member Associations and Sister Societies to assist in ongoing development and promotion of professional practices and standards.

7. Co-operation with United Nations Agencies

Commission 1 intends to locate and establish co-operation with UN agencies of relevance.

8. Other Activities

Communications

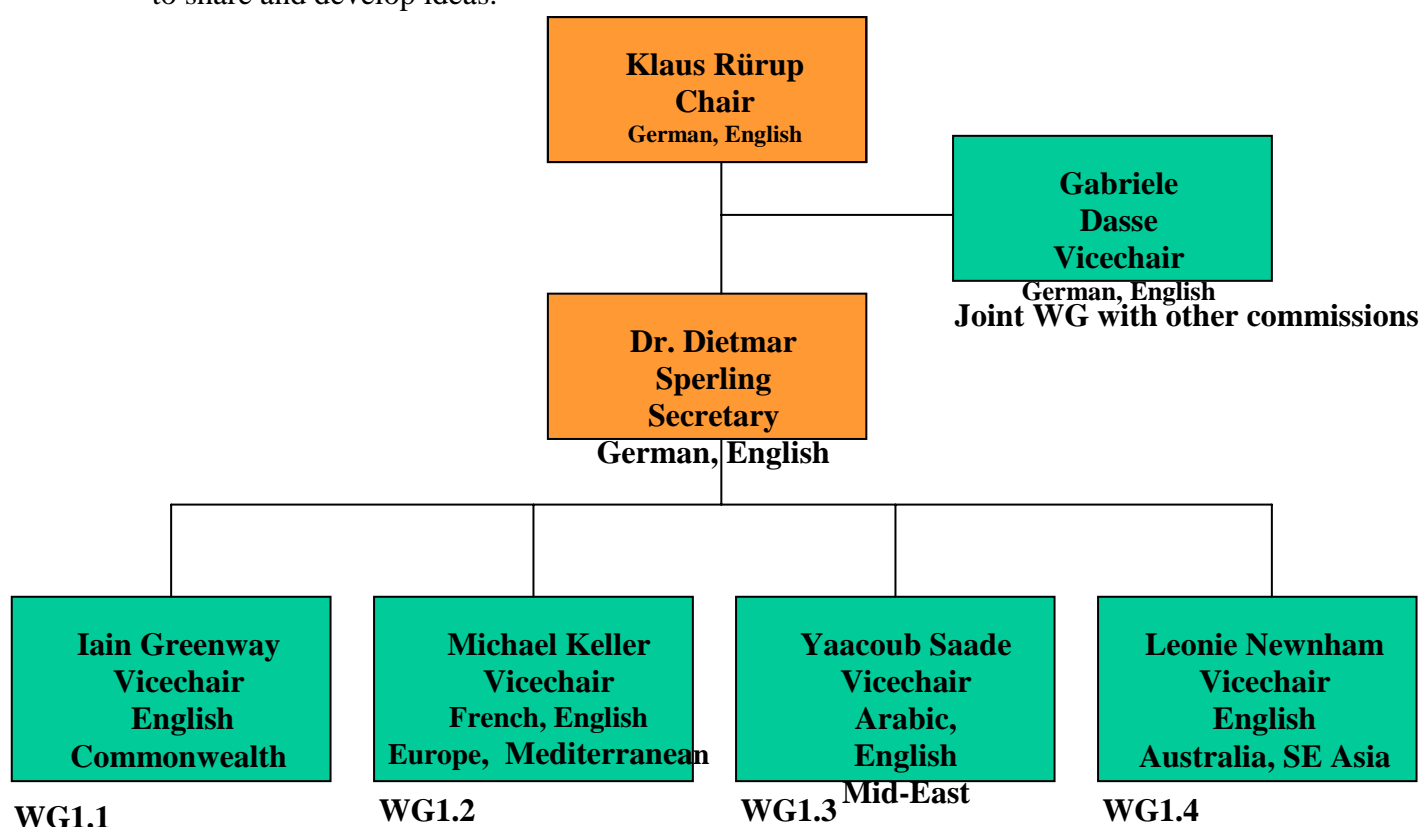
The Commission will produce a communication and marketing plan for Commission 1 activities to support its work and ensure that key messages are being received by member organizations and that two way communication channels are operating. This will be prepared in 2002.

Commission 1 will develop and maintain a web page with linkages to other relevant web pages to keep Commission delegates, other FIG members and the public informed. Mr Stephen Djaba of Ghana will be Co-Chair of the Information Technology and Communications Working Group and will have responsibility for managing the website.

Commission 1 will provide an annual newsletter with input from the working groups, continue the information sharing newsletter already produced by the Working Group of Under-represented groups in FIG and will issue updates when a significant activity is completed. These will either be distributed by e-mail or included on the web pages.

Structure

- There will be four different “Liaison Groups” established according to their geographical, cultural, etc. similarities with an aim of having diversity in representation. This recognises the diversity of FIG with its many representative organisations. The Vice-Chairs will have a dual responsibility for their working group activities and also to ensure that Commission 1 activities are communicated to people in the region they represent. This arrangement has been developed to promote easy access by FIG members to Commission 1 office holders. It will facilitate the Commission being able to have access to this combined knowledge when it meets to discuss issues and undertake its work.
- The leaders of each Group will be those who appear in the following diagram.
- All of them there will be in direct contact with the Commission Chair and the Commission will work as an integrated team with regular opportunities being provided to share and develop ideas.



9. Calendar of Events

2002

- Co-sponsoring Conference in Puerto Rico, 3-5 October 2002

2003

- FIG Working Week, venue and dates to be determined
- Working meeting in Ireland (WG1.1)

2004

- FIG Working Week 23 - 28 May 2004, Athens Greece
- Workshop in Arabic world (WG1.3)

2005

- FIG Working Week 7-12 May 2005, Cairo, Egypt.
- Working meeting in Switzerland (WG1.2)

2006

- Workshop in Australia (WG1.4) taking the form of a Conference dealing with Project Management and co-sponsored by Commission 10.
- FIG Congress Munich, August-September.

10. Commission Officers

Commission Chair

Klaus Rürup

E-mail: Klaus.Ruerup@t-online.de

Vice Chair Administration

Dr. Dietmar Sperling (Germany)

E-mail: Dietmar.Sperling@rwesystems.com

Chair Working Group 1.1 – FIG Standards Network

Mr. Iain Greenway (Ireland)

E-mail: igreenway@compuserve.com.

Chair Working Group 1.2 – Professional practice and organisational structures

Michael Keller (Switzerland)

E-mail: Mkeller@ipg.ch.

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

Yaacoub Saade (Lebanon)

E-mail: comandoo1@yahoo.com.

Co-Chair: Stephen Djaba (Ghana)

E-mail: Stephen@ghana.com.

Chair Working Group 1.4 – International project management

Leonie Newnham (Australia)

E-mail: Leonie.Newnham@nre.vic.gov.au.

Chair Working Group 1.5 – Under-represented Groups in FIG

Gabriele Dasse (Germany)

E-mail: gabriele.dasse@gv.hamburg.de.

FIG COMMISSION 2 PROFESSIONAL EDUCATION WORK PLAN 2002 – 2006

1. Title

Professional Education.

2. Terms of Reference

- Learning and teaching methods
- Contents
- Continuing professional development
- The interaction between education, research and practice

3. Mission Statement

- Methods and content of education: To develop and promote learning and teaching methods and content of curricula with special emphasis on university level, high technology – based education.
- Interaction between academia and practice: To stimulate interaction between university education, research and practice so as continuously to develop educational curricula and enable surveyors to put into practice the results of research and development.
- Academic and professional profiles: Through the promotion of continuing professional development (CPD) and the practical application of research, help surveyors continuously to update their academic and professional profiles.
- Accessible knowledge: To approach surveying education to countries and people with difficulties to access to usual learning methods by new technology (Virtual Academy).
- Educational links: To establish all over the world, but mainly in the third one, liaison groups to facilitate educational joint works, projects, etc.
- Cooperation: Education of surveyors is not only a duty of FIG or Commission 2; strong links of collaboration must be established with the sister organizations and our own Commissions.

4. General

The Commission 2 Work Plan 2002–2006 tries to fulfil and implement the FIG Council Work Plan 2003–2006. The organization of the Commission own and joint Working Groups is following the principles described in the Council’s work plan under sections **Introduction**, paragraph **B** and **Management** paragraph **A** (Strategic Planning).

In this way, WG 2.1 “Virtual Academy” is deeply inside all activities directed to promote educational opportunities all over the world and, in particular, in the third world countries, where many difficulties appear when it is necessary to implement the educational systems and resources.

The same can be said about WG 2.2 “Curricula models and CPD” and WG 2.3 “Mutual recognition”, both absolutely in accordance to the above mentioned paragraphs (“...best or

good practice, international standards,..., global sustainable development,..., supporting international humanitarian needs...” and Education could be considered as “humanitarian need” in many cases).

WG 2.4 (JWG Comm. 2&3) “Knowledge in Spatial Information Management” and WG 2.5 (JWG Comm. 2&7) “Capacity Building in Land Management” are fully within **Introduction, paragraph B** and, mainly, in **3. Management, A) Strategic Planning**, where it is said: “Commitment for sustainability (e.g....spatial planning, land management, land use,...)”.

All WGs have for general purpose the “quality of profession...” as it is said in **A) Strategic Planning**, being Education the first and, perhaps, the fundamental basement of quality.

In the same paragraphs of the Council’s work plan, that is in **Introduction B&C, Management A), B) and C)** is based the creation of the “Liaison Groups”, although this proposal is explained inside “Other Activities”.

As an additional comment to the “Liaison Groups”, nearly all of them are focussed in the third world, where the FIG action is more necessary and of benefit for many more people, appears, with special emphasis, actions to be carried on in Latin America. Th special focus in South America is needed because:

- Latin America has a very limited representation in FIG, although they are more than 20 countries in the region.
- Latin America can be considered the continent of the future.
- In some Latin American countries there are good theoretical educational institutions in surveying (unfortunately same cannot be said about their surveying instruments), and in some others there is not at all or very limited facilities in this field, which makes it necessary for FIG to focus its action to the university level in first stage, and to the professional level thereafter.
- In several paragraphs of the Council’s WP it is mentioned the need of “...regional activities in under-represented regions...”, “...encouraging University Departments to belong and to contribute to FIG as Academic members...”, “...membership expansion focussed on certain regions to be continued...”, “encouraging the development for networks between Commissions and **within specific geographical zones** to enable good educational practice...”.
- The fact that the Chair of Commission 2 is Spanish can facilitate better understanding and co-operation with these countries and promote membership of the Latin American surveyors in FIG.

As a result Commission 2 work plan includes many activities in Latin America with the purpose to make FIG known in this continent. The work will be made in close co-operation with the Council keeping in mind that education is the key issue to integrate these countries to the global surveying society. In most cases there is lack for funds for travelling and therefore it is essential to organise some symposia in easily reachable venues. Regional workshops may be a good solution. Commission 2 is interested to have a leading role in organising FIG regional conference in Latin America in co-operation with the Council, other Commissions and FIG office.

Furthermore the Commission will make its contribution to the FIG World Report on Best Practices launched by the Council in its work plan for 2003–2006.

Commission 2 endorses the underlying concept that respect to Cultural and Linguistic issues is very important and that will be sensitive to these issues in the way it works. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

5. Working Groups

Working Group 2.1 – Virtual Academy

Policy issues

- The movement from discrete computer assisted learning (CAL) tools towards an integrated virtual learning environment.
- Technical, political, legal, organisational and cultural problems.
- Copyright and accreditational problems
- The role of the lecturer and human communication in general

Chair

Prof. Henrik Haggren (Finland), e-mail: henrik.haggren@hut.fi

Co-Chair: Prof. Esben Munk Sørensen (Denmark), e-mail: ems@i4.auc.dk

Specific projects

- Information dissemination concerning the virtual academy issues relevant to FIG, by
 - collecting hyperlinks to web sites relevant for distance learning in surveying education and
 - creating an educational database on Internet as it regards respective tools and experiences; and
- to establish contacts with the Internet/multimedia experts outside FIG

Workshops

Workshops via Internet and, at least, one more in the middle of the term of office. Reports in the WW.

Final report

During the Congress in Munich.

Working Group 2.2 – Curricula Models and CPD

Policy issues

- To know the different curricula used in the different universities
- To help the organisation of modern and updated curricula where necessary
- To incorporate into the FIG SEDB and the FIG portal this information
- To encourage Universities to incorporate a link to their curricula in the FIG SEDB or portal
- To publish the CPD courses offered by the Universities in the FIG portal
- To encourage and facilitate the exchange of students

Chair

Assoc. Prof. Frank Kenselaar (the Netherlands), e-mail: F.Kenselaar@geo.tudelft.nl

Workshops

At least one during the term of office.

Final report

During the Munich Congress

Publications

A publication at the end of the term of office.

Working Group 2.3 – Mutual Recognition

Policy issues

- In the light of the achievements of the Task Force on Mutual Recognition of Professional Qualifications (1998–2002), and in order to support the principle of the free movement of surveyors world-wide, the primary aim of the Working Group is:
- To improve the knowledge and available information about relevant aspects of professional education in order to implement the process of mutual recognition of professional qualifications, with the aim of developing guidelines for implementing FIG policy in this area.

Chair

Dr. Frances Plimmer (United Kingdom), e-mail: fplimmer@hotmail.com

Specific projects

Based on the FIG policy with regard to mutual recognition, the specific objectives of the WG are:

1. to develop in further detail the methodology of implementing mutual recognition, as identified in the work to date of the FIG Task Force on mutual recognition of professional qualifications
2. to investigate the barriers to the mutual recognition of professional qualifications and their solutions
3. to investigate selected case studies which take a "step by step" approach to process of mutual recognition in order to test the WTO "disciplines" for implementing mutual recognition of professional qualifications.

In addition and support to the stated objectives (above), the WG will seek to:

- a) investigate the process and criteria used by academic institutions in different countries for the selection of surveying students; and
- b) investigate the indicators which demonstrate the quality of surveying education in different countries

Workshops

One during the term of office.

Final report

During the Munich Congress.

Publications

A publication at the end of the term office.

Joint Working Groups

Working Group 2.4 – Knowledge in Spatial Information Management (A Joint Working Group with Commission 3)

Policy issues

- To integrate the resources of the Commissions 2&3 using the experiences of professionals in knowledge transfer and the know-how of spatial information management (SIM)
- To analyse present status and trends of Information/Knowledge Management
- To outline the implementation of the results of Information/Knowledge Management in the Spatial World
- To define the necessary elements and routes of professional development in the rapidly changing area of SIM

Chair

Prof. Bela Markus (Hungary), e-mail: mb@cslm.hu

Workshops

At least one during the term of office

Final report

In the Munich Congress.

Working Group 2.5 – Capacity building in Land Management (A Joint Working Group with Commission 7)

Policy issues

To study and develop integration of professional and land management projects, especially in developing and transition countries.

Specific projects

- To develop models for this integration
- To do special studies in one developing and one in transition country, where land management projects are being carried out.

Chair

Prof. Ulf Jensen (Sweden), e-mail: ulf.jensen@lantm.lth.se

Workshops

At least one during the term office.

Final report

To prepare a report on experiences from integration of professional education and land management projects to be presented in Munich Congress.

Working Group 9.1 – Education of Valuation Professionals in FIG (A Joint Working Group with Commission 9)

Working Group 4.4 – Education and CPD (A Joint Working Group with Commission 4)

6. Co-operation with Sister Associations

In order to improve the benefits to members associations and universities, Commission 2 will strongly try to reinforce the links with the similar Commissions in sister organisations like ICA, ISPRS and IGGU.

7. Co-operation with the UN Agencies

In co-operation with the UN Agencies, such as UN-Habitat and FAO it is always necessary to include educational and capacity building issues. Commission 2 is ready to contribute in these projects on the request of the Council in the educational field as necessary for the welfare of people and countries involved.

8. Other Activities

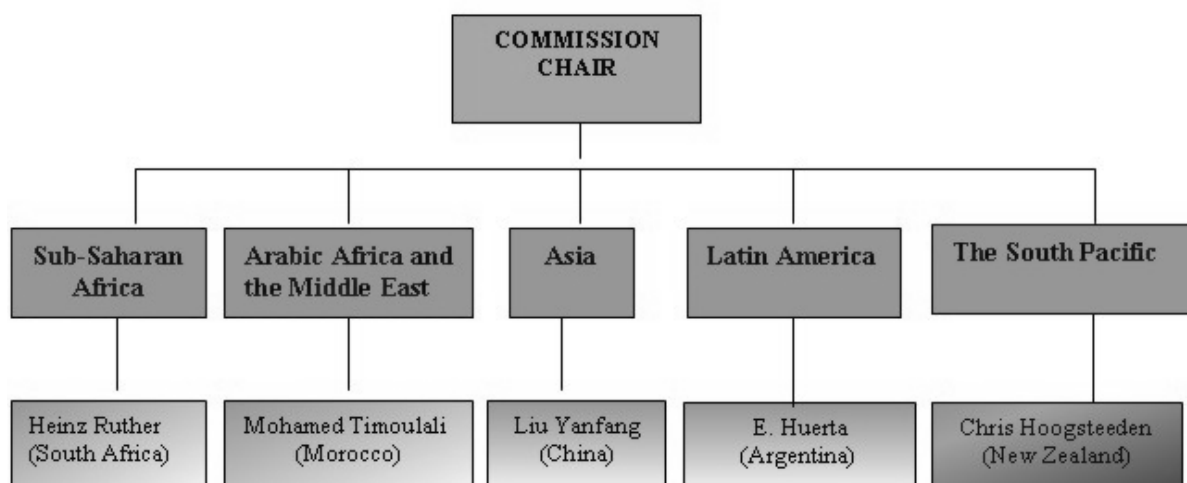
Strategic Liaison Groups on Education

Objectives

- To establish networks between educational institutions to exchange knowledge, experiences and problems solving ways inside each liaison group
- To establish and maintain strong links among the different surveying departments or institutions facilitating mutual assistance when and where necessary
- To have a better approach to each other from a closer position, not only geographic, but social, historical, economical, etc.
- To develop these liaison groups to a successful mean of facilitating educational work in the universities, departments, etc. inside every group, facilitating, as well, the exchange of professors and students

Structure

- There will be five different liaison groups established based on their geographical, cultural, etc. similarities
- Each group is chaired by a leader named in the following figure
- Chairs are responsible to report directly to the Commission Chair



Australia, Canada, Europe, New Zealand and USA are self-consistent. Nevertheless, because the small number of Departments of Geomatics in the South Pacific countries, Australia and New Zealand are included in the South Pacific Group.

Surveying Studies Portal

Commission 2 will continue, under the leadership of Prof. Kirsi Virrantaus (HTU), the development of a Portal for Surveying Studies, where Universities, Teachers and Students can find the widest and best information about curricula, contents, etc. This Portal will be highly useful for WG 2.1 (Virtual Academy) and 2.2 (Curricula and CPD).

Web site

Collected data will be introduced in the FIG Surveying Education Database and FIG Education Portal; this work will be done in close co-operation and with the help of the FIG office.

Newsletters

Commission 2 will continue to informing its delegates and member associations via Commission newsletter.

9. Calendar of Events

- October 2002 Symposium in Puerto Rico (Commissions 1 & 2)
- January-March 2003 Symposium in Asia; possible organised in conjunction with the FIG regional conference in Cambodia
- September/December 2003 Symposium in Morocco
- September/December 2004 Symposium in Nigeria
- 2005 Symposium in Latin America in conjunction to FIG Regional Conference
- September/December 2005 Symposium in the South Pacific
- August-September 2006 FIG Congress in Munich

In addition to these events the Commission chair will attend two symposia in Latin America in May 2002: one in Universidad de Concepción (Chile), an Academic member of FIG, and other in Uruguay, organised by the new member association from Uruguay.

Commission 2 is further investigating possibility to organise two further events in Latin America (perhaps in Costa Rica and in Brasil) with the goal to get FIG involved in Central America, where most of countries are without any University with Department of Surveying. The other symposium is planned for equatorial countries (Venezuela, Bolivia, Perú, Ecuador, etc), bearing in mind that Brasil is not currently member of FIG, with the goal to approach these countries, most of them with very few resources for travelling far away and with special, common and typical social, economic and educational situations.

10. Commission Officers

Commission Chair

Prof. Pedro J. Cavero

E-mail: pjcavero@nivel.euitto.upm.es

Vice-Chair Administration

Prof. Juan Francisco Prieto-Morin (Spain)

E-mail: jprieto@nivel.euitto.upm.es

Chair Working Group 2.1 – Virtual Academy

Prof. Henrik Haggren (Finland)

E-mail: henrik.haggren@hut.fi

Co-Chair: Prof. Esben Munk Sørensen (Denmark)

E-mail: ems@i4.auc.dk

Chair Working Group 2.2 – Curricula Models and CPD

Assoc. Prof. Frank Kenselaar (the Netherlands)

E-mail: F.Kenselaar@geo.tudelft.nl

Chair Working Group 2.3 – Mutual Recognition

Dr. Frances Plimmer (United Kingdom)

E-mail : fplimmer@hotmail.com

Chair Working Group 2.4 – Knowledge in Spatial Information Management

Prof. Bela Markus (Hungary)

E-mail: mb@cslm.hu

Working Group 2.5 – Capacity building in Land Management

Prof. Ulf Jensen (Sweden)

E-mail: ulf.jensen@lantm.lth.se

COMMISSION 3
SPATIAL INFORMATION MANAGEMENT
WORK PLAN 2002 – 2006

1. Title

Spatial Information Management (SIM).

2. Terms of Reference

- Management of spatial information on land, property and hydrographical facts (including related processes, procedures and resources);
- Spatial data infrastructure – data models, standards, availability and legal aspects;
- Management and transfer of knowledge and skills needed for SIM;
- Impacts on organizational structure, business models, professional practice and administration;
- Management of spatial information supporting environment protection, sustainable development and poverty reduction.

3. Mission Statement

- Bringing awareness to successful SIM approaches in the “Information Age” by showing good practice like reliable spatial information for better decision making. Decision makers on all levels expect reliable spatial information and not only maps.
- Supporting the use of SIM-tools for decision makers and citizens to support the goals of participatory democracy
- Share good practice on managerial processes and infrastructure needed for handling data, using information and distributing knowledge.
- Encouraging decision-makers for a more extensive use of spatial information also within good e-government and e-commerce.
- Criterion of success: to initiate and provide activities so interesting that colleagues will regard the commission as one base on their professional lives.
- Progress activities mainly through working groups (WGs) and Joint-WGs, which will participate in the planning of workshops and short seminars held during and outside FIG working weeks; submit progress reports about these events.
- Present the final outcomes of Commission work as reports, statements and/or publications accessible also through the web.

4. General

Commission 3 –Working Groups (WG) focuses on contribution of spatial information for sustainable development. The elements for achieving this goal are on national as well as international level with contributions to “**e-Government and SIM**”; clarification on needed “**SIM infrastructure**” for GSDI; sharing experience best practice with „**State of the art of SIM**“. The WG on “**Knowledge in SIM**” provides the overarching principle for sharing and transferring knowledge achieved.

5. Working Groups

Working Group 3.1: e-Government and e-Citizen

Interactive Information Flow between providers, partners and customers (PPP).

Policy Issues

SIM is a facilitator for IT based services for administration as well as for citizens. By thus SIMS will have even the role of an integrator of components for a Spatial Information Infrastructure within an Information society.

- Services and workflows for decision makers and citizens in participatory democracy
- Government – business – customers: relations and activities
- Integration and cooperation in a distributed environment
- Individual vs. business in SIM
- Mobile society
- SIM and LBS in an e-Government context

Chair

Kari Strande (Norway), e-mail: kari.strande@statkart.no

Co-Chair: Peter Laarakker (the Netherlands), e-mail: peter.laarakker@kadaster.nl

Specific projects and outputs

Based on cooperation with other WG and other Commissions this WG will:

- Report on good practice of Spatial Information within e-Government supporting citizens in participatory democracy
- Facilitate experience exchange
- Show consequences for administration and citizens of SIM and LBS accessible on the web
- Provide recommendations to the way we go within SIM and LBS
- Provide links to information and minutes of workshops
- Work out a Web-demo, if supported by OGC, ESRI or other sponsors

A detailed work plan with milestones will be published on the website of Commission 3.

Workshops

- Workshop on Mobile Society and Location Based Services in an e-Government context

Beneficiaries

Surveyors and citizens accessing and contributing to e-Government on a national as well as on a local level. Contributing to better access to general users of spatial data.

Working Group 3.2 – SIM infrastructure

Harmonization of data, information, tools (LBS) and workflows as components of GSDI.

Policy Issues

- NSDI / GSDI: Spatial Data + Information Infrastructure
- modelling, geo-visualisation
- Legal aspects in SIM
- Standards Network on international (ISO/TC 211, OpenGIS Consortium, etc.) and on regional level.
- SIM and LBS as tools:
 - Making geo-database suitable for mobile phones
 - Improve basic references (geo-referencing, transport-internet)
 - Role of surveyors in LBS
 - Share current experiences and technical visions of the future.
 - Gain knowledge from industry.
 - Inform future decisions and implementations.
 - Inform the big picture on drivers, trends and technologies.

Chair

Keith Murray (United Kingdom), e-mail: KMurray@ordsvy.gov.uk

Co-chair: Martin Scheu (Germany), e-mail: scheu@grit.de

Specific projects and outputs

Based on cooperation with other WG and other Commissions this WG will:

- Contribute to the Inter-Commission activity (COM3, 5 led by COM3): on “Mobile society and Location based services”
 - Co-Chair of Commission 3: Keith Murray (UK), e-mail: KMurray@ordsvy.gov.uk
- Contribute to the Inter-Commission-cooperation on “Standardization”
 - Co-Chair of Commission 3: Martin Scheu (Germany), e-mail: scheu@grit.de

A detailed Work plan with milestones will be published on the web site of Commission 3.

Workshops

- Joint COM3/5-Workshop on Mobile Society and Location Based Services

Beneficiaries

Surveyors, associations engaged with spatial data and users of spatial data and spatial information.

Working Group 3.3 – State of the art of SIM

Development and State of the Art of SIM (analysis of the nation-wide activity in SIM among participating countries, and world-wide picture and best practice of institutional structures, as well as contents of data bases) and establishment of a FIG - metadata base about SDI.

Policy Issues

- To increase cooperation between different jurisdictions, disciplines, professional groups, Public-Public and Public-Private-Partnerships
- To positively influence organizing and business models as well as procedures on different layers of administration
- To raise awareness and encourage participation regarding:
 - Institutional structures and Spatial Information Infrastructure
 - Data availability and Spatial Data Infrastructure

To work towards capacity building and transfer of experience within A detailed work plan with milestones will be published on the web site of Commission 3.

- Com3
- To facilitate the development of NSDIs

Chair

Chryssy Potsiou (Greece), e-mail: chryssyp@survey.ntua.gr

Co-Chair: Uzo Okafor (Namibia), e-mail: uzoekaf@mweb.com.na

Specific projects and outputs

Based on cooperation with other WG and other Commissions this WG will:

- Create a metadata base with information about the state of the art of SIM at national level and maintain an up to date web site WEB-Inventory of best practice in regarding “State of the art of SIM”
- Show good practice on the managerial processes
- Share and provide experiences in SIM and NSDI
- Contribute to the Inter-Commission activities
- Contribute to the Inter-Commission activity (COM3, 5, 7, led by COM5) on “**Low Cost Surveying Technology and Techniques for Developing Countries**”.

Co-Chair of Commission 3: Chryssy Potsiou (Greece), e-mail: chryssyp@survey.ntua.gr

A detailed work plan with milestones will be published on the web site of Commission 3.

Workshops

- Joint Workshop: UN/ECE-WPLA, FIG Com3 and Com7 on "Spatial Information Management for Sustainable Real Estate Market - Best Practice Guidelines in nation-wide Land Administration“ will be held in Athens, Greece, 4-7 June 2003

Beneficiaries

Surveyors, associations engaged with spatial data and users of spatial data and spatial information.

Working Group 2.4 – Knowledge Transfer in SIM (education, training)

A Joint Working Group with Commission 2

Policy Issues

Integration of resources of FIG Com.2 and 3 using the experiences in knowledge transfer on one hand and the know-how of spatial information management on the other hand.

- Where to get knowledge, training etc.
- Not only data are needed and information is not yet knowledge. Infrastructure is changing quite fastly, but also methods of training have to be adopted because the “half-life-time” of knowledge becomes shorter.
- How to bridge tangible information with intangible knowledge.
- Cooperation between sister organizations, optimizing regional structures

Chair

Prof. Bela Markus (Hungary), e-mail: mb@cslm.hu (appointed by Commission 2)

Co-Chair: Mohammed Timoulali (Morocco), e-mail: timoulali@atlasnet.net.ma (appointed by Commission 3)

Specific projects and outputs

Based on cooperation with other WG and other Commissions this WG will:

- Develop methods and share experience on **education and training in SIM**
- Develop a position paper on a regional approach for a NSDI.

Workshops

- Joint COM2/3-Workshop on “Education and Training in SIM”

Beneficiaries

Teachers and students within any education, learning and training environment.

Integration of COM2 and COM3 resources using the experiences of professionals in knowledge transfer from one side and the know-how of spatial information management (SIM) from the other side.

6. Co-operation with Sister Associations

Cooperation on Spatial Information Management for Sustainable Real Estate Market with UN-ECE-WPLA

Commission 3 contributes to the joint UN/ECE-WPLA and FIG Workshop in Athens, 4-7 June 2003.

Cooperation on GSDI with GSDI and EUROGI

Commission 3 contributes to 6th GSDI Conference in Budapest, 16-19 September 2002

Cooperation on international standards on spatial data with ISO and OPENGIS

Especially promoting implementation of ISO TC211.

Contacts and cooperation with sister organizations

- ISPRS, especially with ISPRS-Commission IV-Spatial Information Systems and Digital Mapping (<http://www.commission4.isprs.org/>)
- ICA - International Cartographic Association: <http://www.icaci.org/>
- International Geographical Union, Commission on geographical Information Science (<http://www.hku.hk/cupem/igugisc/>)

7. Inter-Commission Activities

Joint WG of Commissions 2 (lead) and 3 on: “**Knowledge in SIM**”

Co-Chair of Commission 3: Mohammed Timoulali (Morocco), e-mail: timoulali@atlasnet.net.ma

Contribution to the Inter-Commission activity (Commissions 3 and 5 led by Commission 3): on “**Mobile society and Location based services**”

Co-Chair of Commission 3: Keith Murray (United Kingdom), e-mail: KMurray@ordsvy.gov.uk

Contribution to the Inter-Commission-cooperation on “**Standardization**”

Co-Chair of Commission 3: Martin Scheu (Germany), e-mail: scheu@grit.de

Contribution to the Inter-Commission activity (Commissions 3, 5 and 7, led by Commission 5) on “**Low Cost Surveying Technology and Techniques for Developing Countries**”.

Co-Chair of Commission 3: Chryssy Potsiou (Greece), e-mail: chryssyp@survey.ntua.gr

Contribution to the Inter-Commission activity (Commissions 3 and 7, led by Commission 7) on “**3D-Cadastre**”

- Achieving a common understanding of the terms and issues involved in a 3D-Cadastre.

- Integrating advanced Spatial Information Management with legal and organizational settings needed for a 3D-Cadastre.
- Developing the frame and strategy for an ongoing improvement process of existing spatial information considering additional dimensions of geodata (3rd dimension, temporal data, etc.).

Co-Chair of Commission 3: Yerach Doytsher (Israel), e-mail:
doytsher@geodesy.technion.ac.il

8. Co-operation with United Nations agencies and others

1. FAO www.fao.org/
2. UN-Cartographic section: www.un.org/Depts/Cartographic/english/htmain.htm
3. UN-ECE-WPLA www.unece.org/env/hs/wpla/welcome.html
4. UN-ECA
5. ISPRS-COM4 and www.oepe.org
6. PCGIAP Permanent Committee on GIS Infrastructure for Asia and the Pacific,
7. EUROGI European Umbrella Organisation for Geographic Information,
8. PC-IDEA Permanent Committee on SDI for the Americas,
9. GSDI, including a FIG-COM3-position paper for GSDI-conference Budapest
10. ISO-TC-211 and OGC

9. Other Activities

Active involvement of regions

Commission 3 will actively involve underrepresented regions like Africa, Latin America, Middle East, and Asia by exchanging information. Commission will try to reduce conference fees in order to enable or to encourage regional participation and try to raise money for funding participation of groups like students. Commission will also encourage participation by using e-mail and web.

Respect cultural and linguistic issues

Commission 3 endorses the underlying concept that respect for Cultural and Linguistic issues is very important and that the Commission will be sensitive to these issues in the way it works. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

Information delivery

Commission 3 has an ambitious approach on management of information and communication. This includes an active Commission 3 home page, linkages to other relevant information and events in order to keep commission delegates and all FIG members informed about the work of the Commission (including former activities of secretary): Commission 3 Vice-Chair for Administration and Information: Reinfried Mansberger (e-mail: mansberger@boku.ac.at).

10. Calendar of events

2002

16-19 Sept. 2002 GSDI 6 Conference, Budapest (FIG-Com3-papers)
23-26 Sept. 2002 Commission 3 Annual Meeting at GIS-2002 Symposium in Istanbul

2003

13-17 April 2003 FIG Working Week, Paris
4-7 June 2003 UN/ECE and FIG joint Workshop, Athens (FIG Com3, Com7)
Dec. 2003 Commission 3 Annual Meeting (Morocco)

2004

May 2004 FIG Working Week, Athens, Greece
Sept.-Dec. 2004 Commission 3 Annual Meeting (TBD, preference for Asia)

2005

May 2005 FIG Working Week, Cairo, Egypt
Sept.-Dec. 2005 Commission 3 Annual Meeting (TBD, preference for Latin / South America)

2006

August-September 2006 FIG Congress, Munich, Germany

11. Commission officers

Commission Chair

Gerhard Muggenhuber
E-mail: geomugg@surfeu.at

Vice-Chair on Administration and Information

Dr. Reinfried Mansberger, Commission 3 Information Manager
E-mail: mansberger@boku.ac.at

Chair Working Group 3.1 – e-Government and e-Citizen

Kari Strande
E-mail: kari.strande@statkart.no

Chair Working Group 3.2 – SIM infrastructure

Keith Murray
E-mail: KMurray@ordsvy.gov.uk

Chair Working Group 3.3 – State of the art of SIM

Dr. Chryssy Potsiou
E-mail: chryssyp@survey.ntua.gr

COMMISSION 4 HYDROGRAPHY WORK PLAN 2002 – 2006

1. Title

Hydrography.

2. Terms of reference

- Hydrographic surveying
- Hydrographic education, training and CPD
- Marine environment & CZM
- Data processing and management
- Nautical charting and bathymetric maps – analogue and digital, includes ENCs (Electronic Navigational Charts).

3. Mission statement

- Promote the aims and objectives of FIG to hydrographers through the active involvement of national delegates from member associations and other interested parties in the activities of the commission.
- Foster closer links with all sister organisations currently active within the global hydrographic community.
- Develop guidelines and standards that will assist hydrographers in the provision of their services.
- Disseminate information relevant to the profession through participation in international meetings, conferences and committees.

4. General

Commission 4 is committed to achieving both the long term and immediate aims and objectives of the FIG organisation. The commission strategy over the next four years is aligned with that of the incoming Council and will include –

- Closer links and co-operation with other FIG Commissions, including joint working groups
- The development of best practice guides in Hydrography
- Actively support and participate in FIG regional events

5. Working Groups

Working Group 4.1 – Strategic Partnerships

Policy issues

- Actively pursue closer links with sister organisations, especially IHO and THS
- Increase co-operation between international surveying bodies (IHO/FIG/ICA Advisory Board)

Chair

Mr. Adam Kerr (United Kingdom), e-mail: kerr@cwcom.net.

Specific project(s)

This is a time of major change within the institutions and organisations of the global hydrographic community. Thus providing a unique opportunity to redefine both the informal and formal links with the specific aim of creating a lasting co-operation and a sharing of knowledge and resources.

Workshop(s)

Presentations at FIG working weeks and other hydrographic conferences.

Publication(s)

Internal and external progress reports will be prepared, working towards the development of more formal agreements.

Timetable

2002-2004.

Beneficiaries

Commission delegates, commission officers and hydrographic surveyors world wide.

Working Group 4.2 – Vertical Reference Frame (A Joint Working Group with Commission 5)

Policy issues

- Develop and promote the understanding and realisation of a vertical reference frame for use in hydrography.
- Examine the demand for a seamless vertical reference frame for use in hydrography and marine navigation.
- Develop an inventory of vertical reference surfaces used in hydrography in various countries of the international community.

Chair

Dr. Ahmed El-Rabbany, Canada (e-mail: rabbany@ryerson.ca)

Specific project(s)

- Produce a white paper on current understanding of what is meant by a Vertical Reference Frame and how this relates to Hydrography and Navigation.
- Work with Commission 5 and sister organisations to increase awareness and knowledge of the use of a vertical reference frame.
- Collect information from the international communities on the activities related to the vertical reference surfaces in hydrography. Previous efforts by FIG, IHO and IAG shall be considered.

Workshop(s)

- To participate in the FIG working weeks shown below.
- To participate in THS activities.
- To organize a workshop in one or more of the developing countries; from example the Arab Institute of Navigation in Egypt.

Publication(s)

- Technical papers presented by the members of the working group at the various workshops outlined above
- Final report to be presented at the FIG Congress in 2006.

Timetable

2002 – 2006.

Beneficiaries

Commission delegates / officers and hydrographic surveyors.

Working Group 4.3 – Coastal Zone Management (CZM) (A Joint Working Group with Commission 7)

Policy Issues

- To develop and promote Coastal Zone Management in hydrography to include Ocean Governance and Marine Cadastre.

Chair

Michael Sutherland (Canada), e-mail: d8kw@unb.ca (appointed by Commission 4)

Members

Appointed by Commission 4:

- David Neale (Trinidad)
- Philip Collier (Australia)

Appointed by Commission 7:

- Prof. Mike Barry (South Africa / University of Calgary, Canada)
- Dr. Paul Munro-Faure (United Kingdom)
- Ir. Ina Elema (Netherlands)
- Prof. Ian Williamson (Australia) as liaison to UN

Specific project(s)

- To encourage and co-ordinate future developments in CZM, including boundary delimitation, maritime jurisdiction and marine spatial data infrastructures.

Working Group 4.4 – Education and CPD (A Joint Working Group with Commission 2)

Policy issues

- Hydrographic education & CPD.

Chair

Adam Greenland (United Kingdom), e-mail: adam.greenland@pola.co.uk

Specific project(s)

- Education & CPD seminars at FIG Regional Strategic Meetings and Working Weeks.

Workshop(s)

As required.

Publication(s)

None.

Timetable

2002 – 2006.

Beneficiaries

Hydrographic surveyors.

6. Co-operation with Sister Organisations

FIG/IHO Committees

Commission 4 currently represents FIG in two FIG/IHO standing committees: the Technical Assistance and Co-operation Co-ordination Committee (TACC) and the International Advisory Board (IAB) on Standards of Competence for Hydrographic Surveyors (jointly with IHO and ICA).

Notes:

1. FIG and IHO are in the process of developing a Memorandum of Understanding (MOU) which is due to be completed by mid 2002.
2. The IHB has just been re-elected – April 2002 – and Commission 4 is planning to meet with the newly elected Bureau to discuss how we co-operate more closely in the future.

In light of the proposed MOU between FIG and IHO and the lack of FIG activity on TACC, Commission 4 intends to withdraw from this standing committee.

The role of the International Advisory Board on Standards of Competence for Hydrographic Surveyors is

- to develop and up-date international standards of competence for hydrographic surveyors
- to review the academic programme of educational institutions that are seeking IHO accreditation of their hydrographic programmes.

Commission 4 delegates to the Advisory Board will participate actively in its work during the next four years. As and when required, Commission 4 will actively seek new members to represent FIG on the IAB.

7. Co-operation with the United Nations agencies

Commission 4 will participate in the co-operation with the United Nations agencies on topics that are related to commission expertise (e.g. marine cadastre) and on guidance by the Council.

8. Cultures and Languages

Commissions endorse the underlying concept that respect for Cultural and Linguistic issues is of paramount importance and that Commissions will be sensitive to these issues in the way they work. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

9. Other Activities

Maintain and develop the commission web page, linkages to other relevant home pages and new pages or other networks for special projects, to keep commission delegates, other FIG members, users of surveying services and the public involved in and informed about the work of the commission.

10. Calendar of Events

2002

CHC2002, May – Toronto, Canada
Hydro 2002, October – Kiel, Germany

2003

FIG Working Week
FIG Regional Meeting
7th SE Asian Survey Congress, November - Hong Kong

2004

FIG Working Week, Athens, Greece
FIG Regional Meeting

2005

FIG Working Week, Cairo, Egypt
FIG Regional Meeting

2006

FIG XXIII Congress, Munich, Germany

11. Commission Officers

Commission Chair

Adam Greenland
E-mail: adam.greenland@pola.co.uk

Vice Chair – Administration & Communication

Andrew Leyzack
E-mail: leyzacka@dfo-mpo.gc.ca

Working Group 4.1 – Strategic Partnerships

Adam Kerr
E-mail: kerr@cwcom.net

Working Group 4.2 – Vertical Reference Frame

Dr. Ahmed El-Rabbany, Canada
E-mail: Rabbany@ryerson.ca

Working Group 4.3 – Coastal Zone Management (CZM)

Mr. Michael Sutherland
E-mail: d8kw@unb.ca

Working Group 4.4 – Education and CPD
Adam Greenland, United Kingdom
E-mail: adam.greenland@pola.co.uk

**COMMISSION 5
POSITIONING AND MEASUREMENT
WORK PLAN 2002 – 2006**

1. Title

Positioning and Measurement.

2. Terms of Reference

- The science of measurement (instrumentation, methodology and guidelines)
- The acquisition of accurate and reliable survey data related to the position, size and shape of natural and artificial features of the earth and its environment and including variation with time.

3. Mission statement

- Focus on modern technologies and technical developments and assist individual surveyors, through guidelines and recommendations, to choose and utilise those methods, technologies and instruments that are most appropriate to different applications.
- Follow technical developments through collaboration with other FIG commissions and other international organisations; participation in appropriate meetings; and the preparation of appropriate publications.
- Support research and development and stimulate new ideas in the fields of expertise represented within the commission.
- Collaborate with manufacturers on the improvement of instrumentation and associated software.
- Present and promote the work of the commission and its working groups on an on-going basis at FIG working weeks and other relevant technical meetings and in appropriate FIG and other media.

4. General

This work plan covers the development, use and integration of technologies for positioning and measurement and the associated standardisation, best practice and fundamental reference frame issues. Many of the issues are global in nature and Commission 5, working with like-minded Sister Associations, is well placed to deal with them. FIG Council has also asked the Commissions to cooperate with United Nations Agencies to address global problems such as sustainable development and humanitarian needs. The disciplines covered by Commission 5 are at the heart of delivering solutions for the spatial aspects of these important global problems. Specific activities aimed at developing countries include examination of Low Cost Surveying Technologies and contribution to appropriate Continuing Professional Development programs.

5. Working Groups

WG 5.1 – Standards, Quality Assurance and Calibration

Policy Issues

- Influence the development of standards affecting positioning and measurement instruments and methods, in collaboration with the FIG task force on standards and through participation in the relevant technical committees (TCs) of the International Standards Organisation (ISO) and other appropriate bodies.
- Acceptance controls, quality assurance and certification and their impact on the surveying profession.
- Checking and calibration of measuring instruments.
- Assist other Commission Working Groups to implement Standards from ISO TC211 as appropriate.

Chair

- Rudolf Staiger (Germany), e-mail: rudolf.staiger@uni-essen.de.

Specific project(s)

- Present and promote the use of standards and guidelines to the surveying community.
- Establish guidelines and recommendations for the checking and determination of field accuracy of total stations, digital levels, laser planes, etc and for their calibration, including lab calibration.
- Review the situation with GPS/GNSS in relation to Standards, Quality Assurance and Calibration.
- Develop guidelines and recommendations relating to the ISO Guide to Uncertainty of Measurements.
- Review Standards coming from ISO TC211 for relevance to Positioning and Measurement.
- Represent Commission 5 on the FIG Standards Network (led by Commission 1).

Workshop(s)

- Participation in FIG Working Weeks and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.
- Participation in appropriate events of Sister Associations, ISO etc related to Standards, Quality Assurance and Calibration.

Publication(s)

- FIG Working Weeks will include Technical Papers on specific issues and presented by Working Group Members and other invited experts.
- Continue publication of the series of Guidelines on Surveying Instruments; including publication on the Commission web page.
- Working group final report will be presented at FIG Congress, 2006.

Timetable

- Draft publications will be presented at FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chair.
- Working group final report: dedicated session, FIG Congress, 2006.

Beneficiaries

- FIG member associations, manufacturers and users of survey equipment, governments, standardisation organisations, decision makers, GIS developers and users, surveying businesses, individual surveyors.

Working Group 5.2 – Reference Frame in Practice

Policy issues

Policy Issues include the following:

- Work to bring together all organisations involved in defining or using reference frames to develop common approaches and avoid duplication. Such organisations include FIG, IAG, ISO, groups of national mapping agencies, other influential national agencies (such as the US DoD's NIMA) and alliances of commercial organisations (such as Open GIS Consortium and the European Petroleum Survey Group).
- Provide background technical information on relevant issues written in a way that is accessible to the surveying practitioners.
- Develop an inventory of approaches to reference frame issues in different countries (including transformation methodologies) that is accessible to surveying practitioners.
- Examine how surveying practitioners are changing how they access the reference frame, through less emphasis on networks of ground monuments and more emphasis on Global Navigation Satellite Systems (GNSS) base stations.
- Examine the increased use of GNSS for height determination and the use of geoid models etc for connection to local height datums.
- Examine the increasing role of aerial and space based imagery in the realisation of reference frames.

Chair

Michel Kasser (France), e-mail: michel.kasser@ign.fr and Mikael Lilje (Sweden), e-mail: mikael.lilje@lm.se as Co-Chair.

Specific project(s)

- Contribute to convening of a round-table meeting of all organisations involved in defining or using reference frames to develop common approaches and avoid duplication.
- Continue development of Technical Fact Sheets that briefly explain basic concepts, practical applications and issues and which summarise the activities of organisations with specific responsibilities in the field.
- Ensure terminology used in above publications conform to and give substance to the relevant Standards coming from ISO TC211.

- Participate in ISO TC211 work item on Geodetic Codes and Parameters (19127), including assessment of its application in situations affecting practising surveyors.

Workshop(s)

- Participation in FIG Working Weeks and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.
- A Round-table meeting of key organisations involved in defining or using reference frames will be convened at a venue, time and date to be confirmed by the Working Group Chairs.
- Symposium on Applications of Permanent GPS/GNSS Networks. WG 5.2 and WG5.3 event.

Publication(s)

- FIG Working Weeks will include Technical Papers on specific issues and presented by Working Group Members and other invited experts.
- Technical Fact Sheets as outlined above.
- Working group final report will be presented at FIG Congress, 2006.

Timetable

- Draft publications will be presented at FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chairs.
- Working group final report: dedicated session, FIG Congress, 2006.

Beneficiaries

- FIG member associations, manufacturers and users of survey equipment, governments, standardisation organisations, decision makers, GIS developers and users, surveying businesses, individual surveyors

Working Group 5.3 – Integrated Positioning, Navigation and Mapping Systems

Policy issues

Policy Issues include the following:

- Issues associated with ongoing and rapid developments in Integrated Positioning, Navigation, and Mapping systems, including performance and applications of such systems and guidelines for their use.
- Ensuring FIG input to planning associated with programs of GPS Modernisation and GNSS Development.

Chair

- Naser El-Sheimy (Canada), e-mail elsheimy@ensu.ucalgary.ca.

Specific project(s)

- Report on the development, possibilities and limitations of new technologies.
- Prepare guidelines for practitioners on making the best use of systems to achieve the results required for particular applications.
- Develop FIG input to GPS Modernisation and GNSS Development.
- Collaborate with other Commissions and other international organisations (including IAG and ISPRS) and with equipment, software and service providers.
- Continue commitment to relevant inter-disciplinary events including the series of Symposia on Mobile Mapping (joint with IAG and ISPRS).
- Pursue “hot topics” using Ad-Hoc Sub-Groups as appropriate.

Workshop(s)

- Participation in FIG Working Weeks and other major Commission events (see events section below) with dedicated Technical Sessions and/or Workshops as appropriate.
- 4th International Conference on Mobile Mapping Technology, Mid-August, 2003, Kuming, China
- Symposium on Applications of Permanent GPS/GNSS Networks. WG 5.2 and WG5.3 event.

Publication(s)

- Guidelines on making the best use of emerging systems.
- Summary Reports on “hot topics” as they develop.
- Report on FIG’s input to GPS Modernisation and GNSS Development.
- Working group final report will be presented at FIG Congress, 2006.

Timetable

- Draft publications will be presented at FIG Working Weeks during the term of this plan and according to a timetable to be developed by the Working Group Chair.
- Working group final report: dedicated session, FIG congress, 2006.

Beneficiaries

FIG member associations, manufacturers and users of survey equipment, governments, standardisation organisations, decision makers, GIS developers and users, surveying businesses, individual surveyors.

6. Respect for Cultural and Linguistic Issues

Commission 5 endorses as an underlying concept that respect for Cultural and Linguistic issues is very important and that the Commission will be sensitive to these issues in the way it works. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

7. Co-operation with Sister Associations

Commission 5 is committed to cooperation with Sister Associations, especially those with which FIG has a Memorandum of Understanding (MoU). Commission 5 has specific liaison interest under MoU with the International Association of Geodesy (IAG) and the International Society for Photogrammetry and Remote Sensing (ISPRS). Commission 5 also has liaison interest with the Scientific Committee on Antarctic Research (SCAR). The Commission 5 Steering Committee will ensure that Working Group activities and Commission 5 events further these goals of cooperation with Sister Associations.

8. Co-operation with the United Nations Agencies

Commission 5 is committed to cooperation with United Nations Agencies. Targeting of activities, events and publications of the Commission will contribute to United Nations goals such as assistance to developing countries and sustainable development. Other activities (outlined in the next Section) will also contribute. Commission 5 will work with other Commissions on topics aimed at Developing Countries such as Low Cost Surveying Technology and appropriate Continuing Professional Development programs.

Commission 5 will also seek involvement with the UN Committee on the Peaceful Use of Outer Space (COPUOS), which has Action Items of relevance. Of particular interest is involvement in the Action Item in relation to GNSS.

9. Other Activities

Inter-Commission Activities

Commission 5 will be involved in Joint Commission Activities on:

Low Cost Surveying Technology and Techniques for Developing Countries. Joint with Commissions 3 and 7 and led by Commission 5. The activity will concentrate initially on a dedicated technical session at an appropriate Symposium or Working Week and ensure broad circulation of outcomes and papers. The topic will then be assessed to see if a full Work Plan is warranted for the longer term.

Mobile Society and Location Based Services. Joint with Commission 3 and led by Commission 3. The Activity will be joint between WG 3.2 and 5.3. The activity will concentrate initially on a dedicated technical session at an appropriate Symposium or Working Week and ensure broad circulation of outcomes and papers. The topic will then be assessed to see if a full Work Plan is warranted for the longer term. The Commission 3 Chair of this Joint Activity will be Martin Scheu (Germany), e-mail: scheu@grit.de. The Commission 5 Co-Chair for this Joint Activity will be Yang Gao (Canada), e-mail: gao@ensu.ualgary.ca.

Vertical Reference Frame Issues in Hydrographic Surveying. Joint with Commission 4 and led by Commission 4. The activity will concentrate initially on a dedicated technical session at an appropriate Symposium or Working Week and ensure broad circulation of outcomes and papers. The topic will then be assessed to see if a full Work Plan is warranted for the longer term.

Continuing Professional Development

Commission 5 will also work with Commission 2 to contribute to **Continuing Professional Development Programs** for FIG member organisations, especially in developing countries where the resources may not be available locally.

Special Topic Activities

Commission 5 will also undertake special topic activities as required. The topics will be those identified as important for the Commission or for the over-arching priorities of FIG Council and its Work Plan but that do not warrant a full Working Group. The activities may take the form of special publications, conference sessions or dedicated workshops on the topics and which one or two key people can be invited to pursue.

Commission 5 will make its contribution to the FIG World Report on Best Practices launched by the Council in its work plan for 2003–2006.

Liaison with Equipment, Software and Service Providers

Commission 5 will continue to build relationships with Equipment, Software and Service Providers to ensure relevant standards and best practices are incorporated into new products.

Steering Committee

As in the previous term, there will be a Steering Committee to set direction and oversee the general management of the Commission. It will be made up of all Working Group Chairs (as Commission Vice-Chairs, in line with the emerging FIG structural arrangements) and will be led by the Commission Chair.

Communications

Commission 5 will develop and maintain a web page with linkages to other relevant web pages to keep commission delegates, other FIG members, users of surveying services and the public involved in and informed about the work of the Commission.

10. Calendar of Events

The Events in the Calendar below have been classified according to the type of Commission 5 involvement as follows:

- **FIG WW:** The main meetings each year for Commission 5 Delegates and for the Steering Committee will occur at the FIG Working Week or Congress.
- **Strategic FIG Event:** FIG Council sees these as events for furthering its strategies. These often involve liaison with United Nations. Given that the Working Weeks are concentrated in the Mediterranean region in 2003, 2004 and 2005, Commission 5 will also concentrate effort toward FIG Events in other regions (see below) and encourage participation of Delegates in those regions. As many Steering Committee members as possible will also be encouraged to participate in those events.
- **C5 Event:** These are directly associated with Commission 5 Working Groups

- **Inter-Commission Event:** Event that furthers Inter-Commission cooperation and has Commission 5 involvement.
- **Liaison Events:** These further Commission 5 goals for Liaison and will be attended by the Commission Chair or an appropriate member of the Steering Committee.
- **UN Committees on GIS:** Commission 5 is also interested in developing better liaison with UN Committees on GIS and their Working Groups which deal with issues of relevance to Commission 5 (eg Geodesy Working Group). Many of these Committees and their Working Groups have annual meetings but have not been included below. While it would difficult for Commission 5 officers to attend all such events, an effort will be made to establish some liaison and to attend a subset of meetings. Of particular interest are those Committees covering developing countries, including:
 - African Spatial Data Infrastructure Initiative – Africa SDI, CODI
 - Permanent Committee on GIS Infrastructure for Asia & the Pacific – PCGIAP
 - Permanent Committee on SDI for the Americas – PC IDEA

2002

- GIS'02 – International Symposium on Geographic Information Systems, 23-26 September, Istanbul, Turkey (Inter-Commission Event)

2003

- FIG Working Week and XXVI General Assembly, 13–17 April, Paris, France (FIG WW)
- Round-table Meeting on Reference Frame in Practice (see WG5.2 Work Plan above), probably attached to Working Week 2003 (C5 and Liaison Event)
- IUGG 23rd General Assembly, June – July 2003, Sapporo, Japan (Liaison Event)
- 4th International Conference on Mobile Mapping Technology, Mid-August, Kuming, China (C5 Event and Liaison Event)
- The 7th South East Asian Surveyors Congress, 3-7 November, Hong Kong, China (Liaison Event)
- Regional Meeting in for the Arab and Francophone Countries in Morocco, 1-5 December 2003 (Strategic FIG Event)

2004

- FIG Working Week and XXVII General Assembly, 23-28 May, Athens, Greece (FIG WW)
- XX ISPRS Congress, 12-23 July, Istanbul, Turkey (Liaison Event)
- Regional Meeting in South-East Asia in late 2004 (Strategic FIG Event)
- Commission 5 convened event on Applications of Permanent GPS/GNSS Networks, in late 2004 in Brisbane, Australia. This will be joint with IAG. (C5 and Liaison Event)

2005

- FIG Working Week and XXVIII General Assembly, 7-12 May, Cairo, Egypt (FIG WW)
- Regional Meeting in Latin America, October (Strategic FIG Event)

2006

- FIG XXIII Congress and XXIX General Assembly, August - September, Munich, Germany (FIG WW)

Commission Officers

Commission Chair

Matt Higgins

E-mail matt.higgins@nrm.qld.gov.au

Chair Working Group 5.1 - Standards, Quality Assurance and Calibration

Rudolf Staiger (Germany)

E-mail: rudolf.staiger@uni-essen.de

Chairs Working Group 5.2 - Reference Frame in Practice

Michel Kasser (France)

E-mail: michel.kasser@ign.fr) and

Mikael Lilje (Sweden)

E-mail: mikael.lilje@lm.se

Chair Working Group 5.3 – Integrated Positioning, Navigation and Mapping Systems

Naser El-Sheimy (Canada)

E-mail elsheimy@ensu.ucalgary.ca

COMMISSION 6
ENGINEERING SURVEYS
WORK PLAN 2002 – 2006

1. Title

Engineering Surveys.

2. Terms of reference

- Acquisition, processing and management of topometric data and of all related information throughout the life cycle of a project;
- Development and implementation of adequate survey methods in Engineering projects;
- Metrology, quality control and validation for civil construction and manufacturing of large objects;
- Deformation monitoring, analysis and interpretation;
- Prediction of deformation and movements in Engineering projects, mines and areas of geological hazard;

3. Mission statement

- Promote the knowledge, skills and abilities of surveyors in civil and industrial works within the various professional fields of Engineering;
- Support all development and multidisciplinary expertise leading to integrated survey methods, using various instruments and sensors and combining geometry with all other data relevant to each Engineering problem;
- Provide a forum for exchange of knowledge related to Engineering analysis of survey data for the study of structures;
- In addition to the links with related Working Groups of IAG, ISM and ISPRS, look for possible connections within organisations of civil, structural and mechanical engineers and within those dealing with metrology and quality control - at the national and international level.

4. General

This Working Plan covers a wide scale of survey disciplines related to plants, installations and constructions of any kind. Through the Working Plan Commission 6 want to extend the Council strategy by encouraging:

- development of international standards and qualifications,
- closer links and co-operation with other FIG Commissions,
- development of best practice guides in Engineering Surveys,
- actively support and participate in FIG regional events.

Commissions endorse the underlying concept that respect for Cultural and Linguistic issues is of paramount importance and that Commissions will be sensitive to these issues in the way they work. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

5. Working Groups

Working Group 6.1 – Deformation Measurement and Analysis

Policy issues

- Automation of monitoring surveys.
- Enhancement of geometrical modelling of deformations from integrated deformation surveys
- Physical interpretation of deformations including numerical modelling and prediction of deformations and back analysis.

Chair

- Adam Chrzanowski (Canada), e-mail: adamc@unb.ca
- Vice-Chair: Cecilia Whitaker (USA), e-mail: cwhitaker@mwdh2o.com
- Chair of Task Force 6.1.1: Gethin Roberts (UK), e-mail: gethin.roberts@nottingham.ac.uk
- Chair of Task Force 6.1.2: Xiaoli Ding (Hong Kong SAR, China), e-mail: Lsxding@polyu.edu.hk

Specific project(s)

- Regular symposia and exchanges between researchers and concerned professionals.

Task force 6.1.1: Measurements and Analysis of Cyclic Deformations and Structural Vibrations.

Task force 6.1.2: Use of satellite Radar interferometri in Deformation Measurements.

Workshop(s)

- 11th International Symposium on Deformation Measurements, Santorini, Greece, 25-28 May 2003;
- Workshop on Vibration and Cyclic Deformations, Nottingham, UK, 2004;
- 12th International Symposium on Deformation Measurements, China or France, 2005;
- Contributions to various joint meetings and FIG working weeks;

Publication(s)

- Proceedings of the meetings (by the host).

Beneficiaries

- Geodetic engineers dealing with comparative measurements of deformed or unstable objects, geologists, geophysicists, and civil and structural engineers concerned on this issue.

Working Group 6.2 – Engineering Surveys for Industry and Research

Policy issues

Engineering surveys in industry and research demand ultimate quality to be realised in ever-shorter time slots and under spatially most limited conditions. WG2's main goal is to provide the specialists involved in that kind of missions with the latest state of the art concerning:

- The use of adapted survey techniques in industry & Engineering;
- A multidisciplinary collaboration between survey engineers, civil engineers, structural & mechanical engineers, R&D scientists – for a better approach of complex Engineering survey problems;
- Specific algorithms, instrumentation, equipment and techniques in Engineering Surveys;
- High precision measurements and special techniques for the large scale metrology of big equipment or structures;
- Integration of survey & alignment sensors with actuators and/or tools for on-line monitoring and control of a given process (dynamic systems);
- Relevant modules for the 'Optical 3d Measurement Techniques' series.

Chair

- Thomas Wunderlich (Germany), e-mail: Th.Wunderlich@bv.tu-muenchen.de
- Vice-chair: Alojz Kopacik (Slovakia). e-mail: kopacik@svf.stuba.sk

Specific project(s)

1. Engineering surveying procedures for power plants
2. Engineering surveying procedures for linear and circular accelerators
3. Engineering surveying procedures for nuclear research facilities
4. New techniques for as-built documentation and facility inventory
5. Industrial metrology in production, assembling and finishing processes
6. In-situ calibration of industrial robots

Within topic 4 of the list above special emphasis will be addressed on terrestrial laser scanning to stimulate quick acceptance and diversified application by surveyors. Object scanning represents a growing and promising new market, which evidently also attracts non-geodetic competitors. Urgent actions to be managed by a group of WG6.2 members cover:

- Advising optimal instrument for each special application of a mission catalogue;
- Development of suitable planning tools for extensive scanning tasks;
- Optimisation of necessary georeferencing procedures;
- Software improvements to increase variety of best-fitting objects;
- Monitoring of CAD-SW behaviour under heavy scanning data load;
- Dialogue with manufacturers to realise competent consumer wishes;
- Expansion of application fields.

Workshop(s)

- Co-sponsoring INGEO 2002, November 11 - 13, Bratislava
- Special workshop towards the end of 2003;

- Tutorials as part of the “International Course for Engineering Surveying”, March 15-19, 2004, Zürich
- Contributions to the FIG Working Weeks and to FIG Congress;
- Specific seminars or workshops on dedicated topics.

Publication(s)

- Proceedings of the meetings (by the host).

Beneficiaries

- Surveyors wanting to acquire more expertise in these special applications;
- Designers and manufacturers in various industrial or Engineering activities;
- Engineers dealing with quality control of large objects or structures;
- Scientific laboratories dealing with particle accelerators and detectors, fusion rings, gravitational antennas, power lasers, etc.;
- All scientists and engineers dealing with large scale metrology and accurate positioning in R&D sectors or in Industry;
- Universities and manufacturers involved in the development of special instruments.

Working Group 6.3 – Engineering Survey Data Bases and Facility Management

Policy issues

- Focus on the role of the surveying engineer as the responsible manager of spatially referenced information;
- Support for the co-ordination of the activities of other disciplines.

Chair

- Lothar Gründig (Germany), e-mail: gruendig@inge3.bv.tu-berlin.de
- Vice-Chair: Hande Demirel (Turkey), e-mail: Hdemirel@yildiz.edu.tr

Specific project(s)

- Concepts of data models for the Mapping of relevant 4D or 5D project data, covering 3D geometry, time, and descriptive attributes;
- Exchange, provision and presentation of facility management data in computer networks;
- Data integration for this subject, taking into accounts the presence of redundant data and different sources of information;
- The automation and combination of feasible data acquisition techniques.

Workshop(s)

- Workshop on Engineering Survey Data Bases and Facility Management, Berlin, Germany, 2004
- Sessions and contributions to joint seminars, workshops and symposia.

Publication(s)

- Proceedings of the meetings (by the host).

Beneficiaries

- Surveying engineers, engineers and managers involved in facility management tasks.

Working Group 6.4 – Engineering Surveys for Construction Works and Structural Engineering

Policy Issues

- Promoting the use of adapted survey techniques in industry & Engineering;
- Promoting a multidisciplinary collaboration between survey engineers, civil engineers, structural & mechanical engineers;
- Promoting the understanding of fibre optic sensors, e.g. interferometric sensors, Brillouin and Raman scattering and Bragg gratings;
- Study the use of embedded sensor arrays and the role of advanced surveying techniques for structural monitoring;
- Creating an awareness of surveyors through a task force 'Fibre optic sensors' of the rapidly emerging technology of fibre optic sensors as "non-geodetic" sensors to measure deformations (strain) and temperatures in civil engineering structures

Chair

- Gethin Wyn Roberts (United Kingdom), e-mail: gethin.roberts@nottingham.ac.uk
- Vice-chair Jin Fengxiang (China), e-mail: jinfengxiang@yahoo.com
- Chair of Task Force 6.4.1: Fritz K. Brunner (Austria), e-mail: brunner@ivm.tu-graz.ac.at

Specific Projects

- Precise methods and equipment for staking out during construction and structural works;
- QC and documentation for as build compared to as designed;
- Precise methods and equipment for Engineering surveys for visualisation and photo match;
- Precise methods and equipment for remote surveys. (Terrestrial laser scanners etc.)
- Dynamic Monitoring of Buildings and Structures;
- Offshore construction surveys.

Task force “Fibre optic sensors”:

- Monitoring using fibre optic sensors;
- Health monitoring of structures, including real-time and "non-geodetic" sensors in Engineering;

Workshops

- Regular symposia and exchanges between researchers and concerned professionals;
- Possibly integrating the workshop at Nottingham under commission 6.1 with this group in 2004.
- Contributions to various joint meetings and FIG working weeks
- Contribution FIG World Congress in 2006.

Publications

- Proceedings of the meetings (by the host).
- Web page

Beneficiaries

- Surveying profession becoming involved in this developing technology which will partly replace current geodetic techniques;
- Surveyors wanting to acquire information about fibre optic sensors as used in “smart civil Engineering structures”;
- Engineers who has to decide about the best techniques to monitor civil Engineering structures;
- Universities teaching advanced sensor technology.
- Engineering Surveyors and Engineers involved with construction and setting out will benefit, as well as structural engineers, current buildings and future building designs.

6. Co-operation with sister associations

Commission 6 intends to continue co-operation with Sister Associations, especially together with FIG Commission 5 whose interests are quite similar to Commission 6. Further more The International Society for Mine Surveying (ISM), The International Association of Geodesy (IAG), International and the International Society for Photogrammetry and Remote Sensing (ISPRS) are of interest.

7. Co-operation with United Nations agencies

Commission 6 intends to locate and establish co-operation with UN agencies of relevance.

8. Other Activities

Communications

Commission 6 will develop and maintain a web page with linkages to other relevant web pages to keep commission delegates, other FIG members and the public informed. The secretariat will provide the webmaster.

Commission 6 will provide an annual newsletter with input from the working groups. This will be distributed by e-mail.

New partnerships

Commission 6 keeps maintaining co-operation and partnership with ISM and IAG Special Commission 4.

9. Calendar of events

2002

- Co-sponsoring INGEO 2002, November 11–13, Bratislava, Slovakia
- Supporting the 7th International Workshop on Accelerator Alignment (IWAA), November 11-14, SPring-8, Japan

2003

- 11th International Symposium on Deformation Measurements, Santorini, Greece, 25–28 May 2003;
- FIG Working Week, Paris, France, 13-17 April 2003

2004

- Workshop on Vibration and Cyclic Deformations, Nottingham, UK, 2004;
- FIG Working Week 23–28 May 2004, Athens Greece;
- Tutorials as part of the “International Course for Engineering Surveying”, March 15-19, 2004, Zürich
- Workshop on Engineering Survey Data Bases and Facility Management, Berlin, Germany, 2004.

2005

- 12th International Symposium on Deformation Measurements, China or France, 2005;
- FIG Working Week 7-12 May 2005, Cairo, Egypt.

2006

- FIG Congress Munich.

10. Commission officers

Commission Chair

Svend Kold Johansen

Email: skj@vd.dk

Commission Vice Chair – Administration

Henrik Vad Jensen

E-mail: hvj@vd.dk

Chair Working Group 6.1 – Deformation Measurement and Analysis

Adam Chrzanowski

E-mail: adamc@unb.ca

Vice-chair: Cecilia Whitaker (USA)

E-mail: cwhitaker@mwdh2o.com

Chair Task Force 6.1.1: Gethin Roberts (UK)

E-mail: gethin.roberts@nottingham.ac.uk

Chair Task Force 6.1.2: Xiaoli Ding (Hong Kong SAR, China)

E-mail: Lsxlding@polyu.edu.hk

Chair Working Group 6.2 – Engineering Surveys for Industry and Research

Thomas A. Wunderlich

E-mail: Th.Wunderlich@bv.tu-muenchen.de

Vice-chair: Alojz Kopacik (Slovakia)

E-mail: kopacik@svf.stuba.sk

Chair Working Group 6.3 – Engineering Survey Data Bases and Facility Management

Lothar Gründig

E-mail: gruending@inge3.bv.tu-berlin.de

Vice-chair: Hande Demirel (Turkey)

E-mail: hande.demirel@itu.edu.tr

Chair Working Group 6.4 – Engineering Surveys for Construction Works and Structural Engineering

Gethin Wyn Roberts

E-mail: gethin.roberts@nottingham.ac.uk

Vice Chair: Jin Fengxiang (China)

E-mail: jinfengxiang@yahoo.com

Chair, Task Force 6.4.1: Fritz K. Brunner (Austria)

E-mail: brunner@ivm.tu-graz.ac.at

COMMISSION 7 CADASTRE AND LAND MANAGEMENT WORK PLAN 2002 – 2006

1. Title

Cadastre and Land Management.

2. Terms of Reference

Commission 7 deals with land administration ('the process of determining, recording, and disseminating information about the ownership, value and use of land when implementing land management policies', ref. UNECE Land Administration Guidelines 1996). 'Ownership' should be seen as a broad concept of land tenure within various jurisdictions (statutory, customary, informal etc.). 'Land' includes constructions at subsurface level, ground level and above land level (e.g. buildings). Furthermore Commission 7 deals with land management, that is the implementation of land policy, by a wide range of land policy instruments (e.g. land reform, land consolidation, land markets, land taxation, marine resource management etc.).

In 'key words' Commission 7 deals with

- land tenure
- institutional context of land
- land law and land related laws
- land related public administration
- public and private roles in land administration
- land registration and land recording
- cadastres, land registers and cadastral maps
- cadastral surveying and mapping
- non parcel based land information systems
- informal settlements and formalization processes
- land related information management and business administration
- re-engineering and cadastral reform
- land policy and land policy instruments
- land markets, land use planning, land taxation
- land and marine resource management
- land reform and land redistribution
- land consolidation and urban land readjustment
- access to land by women and vulnerable groups

3. Mission Statement

Commission 7 aims at

- providing a world wide forum for enhancing and exchanging the knowledge and understanding about land administration and land management
- elaborating the role of land administration and land management for sustainable development

- encouraging the development of appropriate concepts and tools for land administration and land management with regard to the specific institutional and operational context of developed and developing countries
- promoting awareness concerning the role of surveyors in this field amongst stakeholders
- encouraging knowledge, skills and capabilities of surveyors in this field
- playing a leading role in advancing land administration and land management

4. General

Relation with the Councils strategy and work plan

Commission 7 will contribute to the Councils strategy and its work plan. Therefore the commission 7 work plan includes

- cooperation with other commissions or external organisations as much as possible
- work on programs for joint events and for working weeks, congresses
- publication of working results and lectures
- contribution to good practice reports
- stimulation of resolutions after each event and distribution through the FIG Office
- regionalisation of events to increase participation of individual members
- providing member associations with tools for strengthening the profession
- Commission 7 will adequately contribute to the FIG working Weeks and Congresses, as there are in 2003 (venue to be confirmed), Athens (23-28 May 2004), Cairo (7-12 May 2005) and Munich (2006)

Objectives of the commission 7 work plan

Reviewing the background of land administration and land management there are many fields of interest for Commission 7. However we have to make a choice through focusing on the most important issues, inspired by a document as the UN/FIG Bathurst Declaration of Land Administration for Sustainable Development.

These important issues are:

Land administration and land management in customary and informal areas.

- How to facilitate the implementation of land policy with a focus on customary areas
- How to support the formalisation of informal settlements
- Access to land by women and vulnerable groups

Land administration and land management in the marine environment

- How to support marine cadastres
- How to support coastal zone management

Land fragmentation, land restitution, and land re-distribution

- How can we contribute to solving land fragmentation and to improving land distribution.

Institutional Conditions as a critical success factor

- Which institutional context is beneficial for successful land administration and land management activity

Efficiency and Effectiveness

- How can we measure land administration performance

Costs of land administration systems

- how can we provide low cost tools for land administration

Appropriate ICT support for modern land administration and land management

- How can we integrate advanced technology in land administration processes
- How to establish land administration spatial data infrastructures
- How to integrate 3D rights to land in land administration systems
- How to extend cadastres towards the marine areas
- Electronic conveyancing
- Land administration standards

Capacity Building for land administration and land management

- How can we contribute to capacity building and institutional building for land administration and land management.

Commission 7 will address these issues in various activities, as there are

- working groups
- symposia and workshops
- delivering lectures, papers and reports
- providing a documentation center OICRF
- internal cooperation with other FIG Commissions
- external cooperation with other relevant organisations
- mixed forms

Commission 7 should put more effort in involving countries in Africa, Latin America, Middle East and Asia in exchanging information on the introduction and development of land administration systems and land management policies and in providing a meeting place. Therefore Commission 7 should take the lead in organising 3 regional conferences on land administration and land management developments in the region. These meetings are especially meant for professionals from the region. Not necessarily all Commission 7 members should feel obliged to attend. Commission 7 should try to make participation-costs as low as possible in order to encourage regional participation. Costs of meeting places and simple meals should be provided by the host country.

5. Working Groups

Working Group 7.1 – Creating Land Administration in formal and informal environment

Policy Issues

The terms of reference of working group 7.1 on land administration in a formal and informal environment are as follows:

- identify how land administration can accommodate formal and informal men-land relationships.
- identify when customary rights and informal possession should be recorded/registered
- identify land management requirements to land administration systems in a formal and informal environment, with a focus on land use.
- contribute to access to land by women and vulnerable groups
- develop recommendations
- identify best practices
- contribute to regional conferences

Chair

Mr. András Oskó (Hungary), e-mail: ffhigazg@elender.hu

Specific Projects

No specific projects.

Workshops

The working group will be involved in the organisation of 3 *regional conferences* on land administration and land management, preferably together with Commission 8 (urban and rural land use planning and development, informal settlements) and Commission 9 (valuation).

Publications

The working group aims at publishing the results of the regional conferences. The working group aims at publishing recommendations on the subject.

Timetable

The regional conferences are scheduled in 2003, 2004 and 2005 (preliminary). There is a proposal for the Middle East (Jordan 2003).

Working Group 7.2 – Instruments for land distribution

Policy Issues

The terms of reference of working group 7.2 are as follows.

- identify the problem of land distribution
- identify mechanisms to solve land fragmentation
- identify mechanisms for land restitution and land redistribution
- identify cheap and fast procedures
- take into account the role of women and vulnerable groups
- develop recommendations
- identify best practices
- organise 1 symposium on land fragmentation and land consolidation

Chair

Mr. Mikko Uimonen (Finland), e-mail: mikko.uimonen@nls.fi

Secretary: Mr. Mika Törhönen (Finland), e-mail: mika.torhonen@finnmap.com

Specific Projects

The working group will pay extra attention to land redistribution processes in southern Africa (coordination by members of the Commission Mr. Apie van den Berg (South Africa), e-mail: avdberg@csg.pwv.gov.za and Mr. Sam Zhou (Zimbabwe), e-mail: zhou@ecoweb.co.zw)

Workshops

The working group will organise 1 *symposium* on combating land fragmentation through land consolidation.

Publications

The working group will publish the results of the symposium. The working group will publish recommendations on the subject.

Timetable

- The symposium is tentatively scheduled at the Commission 7 Annual Meeting in 2004.
- The extra attention to land redistribution processes will be paid during the Commissions annual meeting in South Africa November 2002 (4-9 November 2002, to be confirmed).

Working Group 7.3 – Advances in Modern Land Administration

Policy Issues

The terms of reference of working group 3 on modern land administration are as follows.

- identify the impact of advanced technology on land administration systems
- focus on electronic conveyancing and electronic submission of documents

- electronic signatures
- focus on internet as a distribution channel
- focus on standards (ISO as applied to 'cadastres')
- develop recommendations
- identify best practices
- organise 1 symposium on use of advanced technology

Chair

Dr. Winfried Hawerk (Germany), e-mail: winfried.hawerk@gmx.de

Specific Projects

- Mr. Daniel Steudler is investigating issues on benchmarking cadastral systems. He is willing to aim at the publication of 1 *report* on land administration performance.
- Messrs Daniel Steudler and Jürg Kaufmann are willing to elaborate the Commission 7 country profile reports
- Jointly with Commission 3 there will be a special sub-group on 3D Cadastres to follow up on a 3D Cadastre seminar in November 2001, and to organize an other workshop to proceed the subject. The joint subgroup will be chaired by Dr. M. A. Salzmann (Netherlands). The representative of Commission 3 will be Prof. Yerach Doytscher (Israel)

Workshops

- 1 *symposium* on integrating advanced technology.
- 1 *symposium and/or joint Congress session* on low cost technology jointly with Comm. 5
- 1 *workshop* on 3D Cadastres jointly with Commission 3

Publications

The working group will publish the results of the symposia. The working group encourages the publication of benchmarking issues, and country profiles.

Timetable

- The symposium on advanced technology is tentatively scheduled at the Commissions Annual Meeting in 2003 (probably in Poland).
- The symposium on low cost technology will be coordinated with Commission 5 (probably in 2005)
- The workshop on 3D Cadastres will tentatively scheduled in late 2002, 2003 (jointly with Commission 3).

6. Advisors to the Commission

Regarding the subject of the Working Groups 7.1 and 7.2 the Commission welcomes Dr Clarissa Fourie (South Africa) and Prof. Mike Barry (South Africa, Canada) as advisors to the Commission.

7. Co-operation with other FIG Commissions and Sister Associations

It should be recognised that other FIG Commissions are involved in some of the above mentioned issues, as there are:

Commission 1 (aspects of professional practice and public private cooperation), Commission 2 (education, capacity building), Commission 3 (spatial data infrastructures, information management, 3DCadastres), Commission 4 (marine cadastres, coastal zone management), Commission 5 (low cost land surveying technology), Commission 8 (land use planning and development), and Commission 9 (valuation). In support to the Council's wish for coordination and cooperation, Commission 7 will seek cooperation with other FIG Commissions *when relevant*.

8. Co-operation with United Nations Agencies

Commission 7 aims at cooperation with UN agencies, as there are the UN-Habitat, UN/FAO, UN/UNEP and UN/ECE/WPLA *when relevant*.

9. Culture and Languages

The Commission endorses the underlying concept that respect for cultural and linguistic issues very important and that the Commission will be sensitive to these issues in the way they work. This will implemented by encouraging multilingual abstracts and presentations in general meetings, and through the use of an appropriate regional language during regional meetings.

10. Other Activities

Joint working groups

Commission 2 will take the lead in a joint working group (2.5) on capacity building for land administration, aiming at 1 *open conference and/or executive workshop*. The joint working group will publish the results. Prof. Ulf Jensen (Sweden) will chair the joint working group. Commission 7 will be represented by Prof. Tommy Österberg (Sweden), Mr. Arbind Tuladhar MSc (the Netherlands) and Prof. Paul van der Molen (the Netherlands).

Commission 4 will take the lead in a joint working group on marine cadastres (WG 4.3), aiming at 1 *symposium and/or joint Congress session*. The joint working group will publish the results. Mr. Michael Sutherland (Canada) will chair the joint working group. Commission 7 will be represented by Prof. Mike Barry (South Africa, Canada), Dr Paul Munro-Faure (United Kingdom), ir. Ina Elema (Netherlands), and Prof. Ian Williamson (Australia) as a liaison to UN.

Commission 5 will take the lead in a joint working group on low cost technology, as appropriate for developing countries, with a focus on land administration, aiming at 1 *symposium and/or congress session*. The joint working group will publish the results. Commission 7 will be represented by Mrs Mabel Alvarez Lopez (Argentina), Mrs Gerda Schennach, Dipl.-Ing. (Austria), Mr Tim Viney (United Kingdom) and Mr Jacob Opadeyi (Trinidad & Tobago).

Dipl.-Ing. Gerda Schennach (Austria) and Prof. Paul van der Molen (the Netherlands) will represent Commission 7 in the FIG-Network for underrepresented groups in surveying.

UN/ECA

At the UN Economic Commission for Africa (ECA) meeting in Addis Ababa (Commission for Development of Information CODI II) (September 2001) the participants recommended some kind of standing attention to land administration in Africa.

At the UN/FIG meeting in Nairobi (October 2001) the participants recommended the establishment of a subcommittee for land administration at ECA. FIG was invited to provide support to the development of terms of reference for such a committee. Commission 7 is prepared to draft such terms of reference.

Communications

Commission 7 will maintain a web site. The secretariat will provide the webmaster.

Commission 7 shall develop efforts to keep in close contact with the participants, mainly through e-mail.

Standardisation

Commission 7 will contribute to the FIG's activity for standardisation. Working group 7.3 will be first in charge. Dr Winfried Hawerk will represent the Commission in the FIG Standardisation Network.

Events co-sponsored by FIG

Commission 7 will contribute at the best of its ability to FIG sponsored events. At the moment the Commission made a preliminary commitment to events in Morocco (December 2003), Asia and the Pacific (2004) and Lithuania (possibly 2004). The contribution will focus on the identification of possible speakers etc.

Events organised by FIG member associations

The Commission will contribute at the best of its ability to various events that are organised by FIG-member associations. The Commission made preliminary commitments to events in Turkey (GIS-2002, September 2002), Italy (2003) and Poland (2003). The contribution of the Commission will focus on the identification of possible speakers, and help in organisational matters.

9. Calendar of events

2002

- Commission 7 annual meeting and symposium Land redistribution, South Africa, 4-9 November 2002
- Contribution to GIS 2002 Symposium in Turkey, 23-26 September 2002
- Executive workshop Capacity Building

2003

- Commission 7 annual meeting and symposium on Advanced Technology, Poland, 19-23 September 2003
- Regional Conference (probably Jordan, focus on Middle East))
- Contribution to Conference Italy (May 2003)
- Contribution to Conference Poland (Krakow) (September 2003)
- Contribution to FIG sponsored event Morocco

2004

- Commission 7 annual meeting + Symposium Land Fragmentation
- Regional Conference
- Contribution to FIG sponsored event in Asia and the Pacific
- Contribution to FIG sponsored event Lithuania

2005

- Commission 7 annual meeting + Symposium Low cost technology.
- Regional Conference
- Contribution to FIG sponsored events (to be decided)

2006

- FIG Congress Munich

10. Commission Officers

Commission Chair

Mr. Paul van der Molen

E-mail: paul.vandermolen@kadaster.nl

Commission 7 Secretariat

Vice Chair – Administration

Mr. Christiaan Lemmen

E-mail: lemмен@itc.nl

Mrs. Pauline van Elsland, Assistant

E-mail: pauline.vanelsland@kadaster.nl

Vice Chair and Chair of Working Group 7.1 – Creating Land Administration in formal and informal environment

Mr. András Ossko

E-mail: ffhigazg@elender.hu

Vice Chair and Chair of Working Group 7.2 – Instruments for land distribution

Mikko Uimonen

E-mail: mikko.uimonen@nls.fi

Secretary: Mika Törhönen (Finland), e-mail: mika.torhonen@finnmap.com

Vice Chair and Chair of Working Group 7.3 – Advances in Modern Land Administration

Dr. Winfried Hawerk

E-mail: winfried.hawerk@gmx.de

COMMISSION 8
SPATIAL PLANNING AND DEVELOPMENT
WORK PLAN 2002–2006

1. Title

Spatial Planning and Development.

2. Terms of Reference

- Regional and local structure planning
- Urban and rural land use planning
- Planning policies and environmental improvement
- Urban development and implementation
- Public-private partnerships
- Informal settlements and urbanisation in developing countries
- Environmental impact assessment

3. Mission Statement

The activities of Commission 8 in the years 2002–2006 will be focuses on physical planning at all levels, undertake and learn from case studies and enhance understanding and knowledge of planning systems. The importance of sustainable development, environmental issues in planning and environmental impact assessments (EIA) in spatial planning procedures will be key issues throughout the plan period.

The commission will continue to co-operate with countries in social and economic transition, in Eastern Europe and other parts of the world.

The commission will assist with the implementation of Agenda 21 (from the Rio Earth Summit) and the Global Plan of Action (from the Habitat II Conference in Istanbul) at the local and urban level. It will pay particular attention to informal settlements and urbanisation problems in developing countries.

The commission will carry on looking for solutions for implementation problems and will especially focus in that way on inner cities and declined areas. It will focus on public/private partnership as a way to work on solutions for those problems and other tools that promote planned and sustainable city, town, land use and development.

4. General

Commission 8, Spatial Planning en Development, has been working since the Brighton Congress according to the work plan. After the Washington Congress, April 2002, this work plan will be continued by the work which is mentioned in the workplan 2002–2006. Commission 8 tries to organise its work in three different Working-Groups; each will foces on a particular part of the immens broad working field of commission 8.

Council work plan

Commission 8 will strengthen itself to the implementation of the Council work plan and commission 8 confirms herself to the general goals of the Federation and in her work she will

Implement the specific goals of the Council:

- FIG best-practice
- Database,
- Regional conferences,
- Etc.

The world is changing rapidly; more and more people want to live in urban areas and especially in cities. More cities will grow in the next 25 years to large cities; large cities that, if we don't find soon enough adequate solutions, will find themselves to unsolvable questions. One working-field of commission 8, will focus on urban-regeneration. The aim of the working group is, to find appropriate solutions to solve inner-city-problems or to find solutions to avoid *unacceptable use* of inner-city-space and/or land in general.

By means of the work, commission 8 will stress that we, as surveyors, share the responsibility for well-functioning cities. We should contribute to the prevention of the arising of urban problem-areas. In fact, one of the goals of commission 8 is to help to counter urban deterioration.

5. Working groups

Working Group 8.1 – Urban Regeneration

Policy Issues

The working group started its work after the Melbourne Congress in 1994. It deals with inner-city problems and regeneration of established urban areas. The aim of the group is to observe the different projects on a 12-years time to examine the projects in such a way to determine whether the methods or instruments used present are successful and applicable way for other projects in other countries.

Chair

Harry Greenberg (Israel), e-mail: hgsurvey@netvision.net.il.

Reports

The final report of the working-group will be presented at the FIG Congress in Munich in 2006.

Beneficiaries

FIG-member associations, governments, international agencies, individual surveyors and others involved in the problems of urbanisation.

Working Group 8.2 – PPP – Public Private Partnership

Policy Issues

In the last years PPP has become more and more important in the planning and development of projects in city-areas and land-projects. The aim is to combine the strength of the instruments of the public-part and the private part/money that comes from the private partners.

Commission 8 has already paid a lot of attention to this topic in the last 4 years. Many papers were about this topic. Spoken is e.g. about PPP-project in Germany and the Netherlands. Also has been spoken about instruments as the Neighbourhood-Development-Corporation in Rotterdam and the NC-Enschede, as instruments to help declined areas.

The commission will:

- collect ideas and build up a network for the exchange of ideas,
- work closely with other commissions on this topic,
- try to organise an workshop on this topic or will co-operate in workshops held on this topic,
- form and agree a collaborative working group including professionals and academics.

Chair

Prof. Kari I. Leväinen (Finland), e-mail: Kari.Levainen@hut.fi.

Beneficiaries

FIG-member associations, governments, international agencies, individual surveyors and others involved in the problems of urbanisation.

Working Group 8.3 – Global Urbanisation Process in Large Cities

Policy Issues

Identifying:

- Global urbanisation problems and processes
- Special problems of informal settlements in large cities
- Relationship between land allocation and development economics applied to temporary housing settlements
- Coastal and environmental pressures and solutions.

Chair

Diane Dumashie (United Kingdom), e-mail: ddd@dumashie.co.uk.

Specific project(s)

- Collect ideas and build up a network for the exchange of experiences and sustainable models, working closely with the other FIG-commissions, and building upon the recommendations of the FIG Task force on sustainable development and UN-HABITAT
- Gather and development case studies of sustainable urban development planning and management with the emphases on two key forces:
 - Land values tied in with the mechanisms for spatial planning
 - Allocation of land use to determine the allocation of housing land
- Form a agree a collaborative working group including professionals and academics to study both top down legislation as well as bottom up community action focusing on urban land economic dimension of large cities
- Explore and develop the application of a new Information Management and Decision Support System as an economic land regeneration tool in Coastal Cities

Beneficiaries

FIG-member associations, governments, international agencies, individual surveyors and others involved in the problems of urbanisation.

6. Co-operation with sister associations

The work and interest of Commission 8 and the International Federation of Housing and Planning (IFHP) are very close; for that reason Commission 8 will make different efforts to co-operate with the IFHP and implement the Memorandum of Understanding signed in Washington, DC in April 2002.

7. Co-operation with the United Nations agencies

Commission 8 will strengthen to co-operation with the United Nations. If possible, we will try to contribute as much in the upcoming UN-HABITAT and UNEP activities.

Commission 8 will make links to the UNEP and work as the focal point in implementing the MoU between FIG and UNEP. In the coming year it will report on how the co-operation will be organised. Items can include e.g.:

- monitoring sea level rise
- coastal motion and hazard mitigation.

The link with commission 8 has to be on the topics of the commission statement.

8. Other Activities

Activate more national active delegates to the work of Commission 8.

Commission 8 will maintain and develop the commission home page, linkages to other relevant home pages and new pages or other networks for special projects, to keep commission delegates, other FIG members, users of surveying services and the public involved in and informed about the work of the commission.

The commission will publish the commission newsletter on a continuing basis, including on the commission home page.

The commission chair and commission vice-chair will participate in several conferences on the commission working-fields, although we must realise that both, chair and vice-chair(s), are working as a private entrepreneurs and the challenge for the upcoming years is, how to increase the *active* participation in commission 8 working-groups.

Co-operation with other commissions

Commission 8 intends to co-operate with other commissions to try to work together in different fields of the commission, for instance: with Commissions 7 and 9. It will try to organise a symposium with commissions 7 and 9 on the Public Private Partnership and the Informal Settlements in undeveloped countries in 2004/2005.

9. Calendar of events

Commission 8 will try to organise at least two working-weeks in the upcoming 4 years:
2003 United Kingdom (working week on global urbanisation in large cities).
2005 P.M.

Of course, Commission 8 will organise annual meeting during the upcoming FIG-events in the upcoming years 2003–2006.

Just to activate more delegates in the commission 8 work, we will urge delegates to write their papers for the upcoming years to the topics of the working groups 8.1, 8.2 and 8.3.

Also commission 8 will do its utmost to reflect the topics of the working groups in the technical excursions, which are organized by the hosting country.

10. Commission officers

Commission Chair

ir. Paul A.G. Lohmann
E-mail: Lohmann.Paul@Zonnet.nl

Vice-Chair and Chair of Working Group 8.1 – Urban Regeneration

Mr. Harry Greenberg
E-mail: hgsurvey@netvision.net.il

Vice-Chair and Chair of Working Group 8.2 – PPP – Public Private Partnership

Dr. Kari I. Leväinen, Professor of Real Estate and Facilities Management
E-mail: Kari.Levainen@hut.fi

Vice-Chair and Chair of Working Group 8.3 – Global Urbanisation Process in Large Cities

Ms. Diane Dumashie
E-mail: ddd@dumashie.co.uk

COMMISSION 9
VALUATION AND MANAGEMENT OF REAL ESTATE
WORK PLAN 2002 – 2006

1. Title

Valuation and the Management of Real Estate.

2. Terms of Reference

- Valuation – the estimating of value of real estate by valuers and appraisers, for various purposes, including 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 single asset or by management companies;
- Management of property systems to ensure efficient use of public and private resources; and
- Management of public sector property.

3. Mission Statement

- To identify valuers and appraisers in emerging economies and developing countries and developing countries and coordinate their activities with those of FIG.;
- To increase FIG members' participation in valuation theory and methodologies, especially in countries without established real estate market protocols and infrastructure;
- To liaise with other appraisal and valuation organizations to seek cooperation regarding subjects of mutual interest;
- To create, refine and expand a world dictionary for valuers and appraisers;
- To investigate new evidence of the influence of environmental hazards on property use, value and demand.

4. General

It is noted that the FIG Council intends to develop closer connections with the various less represented regions such as the Mekong Region and Latin America and then offer services. There is also a general feeling that the activities of Commission 9 could be intensified particularly in the developing nations and areas.

In the past few years there have been discussions that Commission 7, 8 and 9 have certain common interests and grounds. Thus some of the activities of these commissions could be integrated or joined.

The Commission will therefore look into the opportunities for expanding activities and services in both geographical and functional terms.

The Commission will make its contribution on the valuation issues to the FIG World Report on Best Practices launched by the Council in its work plan for 2003–2006.

5. Working Groups

Working Group 9.1 – Education of Valuation Professionals in FIG

Policy Issues

- Address disparity and deficiencies in educational programs and/or training of valuers in FIG member organizations.
- Education on valuation through information network in FIG (an integrated virtual learning environment). Let education move, not people.
- Educational ladder. A stepped way of advancing be planned for improving the knowledge of valuation.
- An educational package of valuation be created and offered on the homepage of FIG and intentionally, targeted to the developing countries and those economies under transition.
- Generate co-operation in education and create a network for supporting the contact persons.

Chair

Prof Kauko Viitanen (Finland), e-mail kauko.viitanen@hut.fi

Specific Projects

- Establish an Internet forum for discussion of the education on valuation.
- Collect information and determine terminology, fundamental theories and basic methodology on valuation.
- Create the educational package of valuation.
- Co-operation with Commission 2 and especially with the WP 2.2 (Virtual academy - distance learning) on distance education and training and within Commission 9. Co-operation also with all other commissions as regards distance education and training.
- Establish contacts with the universities, the associations for valuation etc. outside FIG.
- Set up a home page with an educational package of valuation with hyperlinks to web-sites for distance learning.
- Distribute Commission 9 Syllabus Guidelines ratified by XX Congress in 1994.
- Compile selected bibliography of literature in the field.
- Investigate possible academic links.
- Sponsor symposia and technical papers on related topics.

Workshops

- Virtual workshops and information delivery via the Internet.
- Presentations at FIG Working Weeks and Congress USA 2002 and Germany 2006.
- Discussions/presentations can be arranged also in some other seminars of Commission 9.

Publications

- Digital material on Web sites
- Short articles in journals

Timetable

- Set up home page with hyperlinks to web-sites during 2002-2006.
- Continuous communication via the Internet.
- Continuous communication via the Internet.
- Working group Final Report for Congress in Munich, 2006.

Beneficiaries

Distance learning students, individual surveyors, civil servants, politicians, landowners, employers, universities and university teachers etc.

Other Activities

- Expand communications to valuers and appraisers worldwide through the commission home page.
- Through the internet and other means of communication, act as a clearing house for practical research, data base development, data searches and educational opportunities.
- Reach out to academia, both faculty and students, to encourage future research papers for presentation at FIG events.
- Interact with other FIG commissions, especially Commission 1 - Professional Standards and Commission 2 - Professional Education, in matters relating to valuation practices and protocols.
- Organize presentations of technical papers by practitioners of interest to valuers and appraisers as Commission 9's contribution to FIG events.

Working Group 9.2 – Environmental and Ecological Influences Effecting Use, Value and Demand for Real Estate

Policy Issues

- A global problem requiring greater awareness of the negative influences of contamination and ecological degradation.
- Requirements for new training and protocols for valuation practitioners.

Chair

Mr. Simon Adcock (Australia), e-mail: Simon.Adcock@nre.vic.gov.au

Specific Projects

- Investigate and catalog types, extent and impacts of contamination of real estate.
- Identify resources available for practitioner, including bibliographies, source organizations, remediation industry programs, procedures, protocols and related cost criteria.

Workshops

To be planned for each annual meeting.

Publications

- Technical papers solicited for annual meetings.
- Report on results of work group investigations and reports at Congress 2006.

Timetable

- 2003 and 2004: research papers for Technical Sessions.
- 2006: Final Report at FIG Congress.

Beneficiaries

All FIG member organizations, UN, other professional international and national organizations, agencies and governments.

Working Group 9.3 – Valuation for Taxation and Statutory Compensation

Policy Issues

Government policies affect market valuations.

Chair

Henning Elmstrøm (Denmark), e-mail: elmstroem@plf.dk

Specific Projects

- Identify the legal backgrounds and purposes for such valuations including the methodologies of assessments.
- Present and discuss the findings at FIG Working Weeks and Congress with information posted on the web-site for reference of members.

Workshops

To be planned for each annual meeting.

Publications

- Technical papers solicited for annual meetings.
- Report on results of work group investigations and reports at Congress 2006.

Timetable

- 2003 and 2004: research papers for Technical Sessions.
- 2006: Final Report at FIG Congress.

Beneficiaries

All FIG member organizations, UN, other professional international and national organizations, agencies and governments.

Working Group 9.4 – Organizations of Valuers and Appraisers in Emerging Eastern European Markets

Policy Issues

Changes in Government policies and market conditions affect development of the surveying profession.

Chair

David Smejkal (Czech Republic), e-mail: David.Smejkal@a-consultplus.cz

Specific Projects

- Identify the backgrounds and status of development of the profession in such markets and study the valuation methodologies adopted.
- Present and discuss the findings at FIG Working Weeks and Congress with information posted on the web-site for reference of members.

Workshops

To be planned for each annual meeting.

Publications

- Technical papers solicited for annual meetings.
- Report on results of work group investigations and reports at Congress 2006.

Timetable

- 2003 and 2004: research papers for Technical Sessions.
- 2006: Final Report at FIG Congress.

Beneficiaries

All FIG member organizations, UN, other professional international and national organizations, agencies and governments.

6. Co-operation with Sister Organizations

MoU has been or will be established between FIG and other sister organizations such as IFPH, (International Federation of Housing & Planning), IVSC (International Valuation Standard Committee) and ISO (International Standards Organization). All of these organizations are related to the activities of Commission 9.

Commission 9 will strengthen the connections with these organizations and will actively participate in their events.

A joint working with Commission 1 is being considered to focus on valuation standards and to work closely with IVSC and ISO.

7. Co-operation with the United Nations agencies

Activities of Commission 9 are related to UN-HABITAT, UN-ECE and other professional involvements of the United Nations.

Commission 9 will look into the opportunities of participating and contributing in their events to promote the Commission and to provide appropriate services.

8. Other Activities

The Focus of the Commission in the period of 2002 – 2006 are:

- Analyse the educational situation of Valuers and Appraisers.
- Strengthen the Corporate Spirit in Commission 9.
- Identify the legal backgrounds and purposes of Valuation.
- Established an active web-site as tool to improve information flow; in particular products of working groups.
- Attract more participants to FIG Working Weeks and Congress.

There will be efforts made in the following areas:

- Expand communications to valuers and appraisers worldwide through Commission 9's existing web page on the Internet.
- Through Internet, act as a clearing house for practical research, data base development, data searches and educational opportunities.
- Reach out to academia, both faculty and students, to encourage future research papers for presentation at FIG events.
- Interaction with other FIG Commissions, especially Commission 1 – Standards and Commission 2 – Education and CPD.
- To organize and present appropriate representation by Commission 9 together with suitable numbers of research papers at each FIG event and FIG co-sponsored events.

There are two Task Groups of administration nature formed in addition to the Working Groups:

Task Group 9.1 – Research funding

Policy Issues

- Seeking sources of funding for research and delivery of papers.
- Encouraging participation in Commission 9's educational presentations at FIG working weeks.

Chair

Mr Simon Adcock (Australia), e-mail: Simon.Adcock@nre.vic.gov.au

Publications

Annual report on names of recipients of grants, amounts of grants received, subjects of research papers, where presented and availability.

Task Group 9.2 – Promoting valuation membership of FIG

Policy Issues

- The under-representation of valuation organizations within FIG.
- Encouraging participation in Commission 9 activities.

Chair

Mr Stephen M W Yip (Hong Kong, China), e-mail: landelit@netvigator.com

Specific Projects

Identify groups and organizations of valuers/appraisers world-wide and invite them and their members to participate in FIG events and to liaise with Commission 9 officers and delegates.

Where possible visit organizations in their home countries.

Publications

Annual publication of list of organizations approached, responses and recommendations for further contact.

9. Calendar of Events

The Major Events in the period of 2002 – 2006 of the Commission are:

- January/May 2003 – Commission 2 proposed to have Symposium in Asia, Commission 9 to assist and participate.
- September-November 2004 – FIG Regional Conference for Asia and the Pacific, Commission 9 to assist and to participate.

10. Commission officers

Commission Chair

Stephen Yip

E-mail: landelit@netvigator.com

Commission Vice Chair – Administration

Mr. Simon Adcock

E-mail Simon.Adcock@nre.vic.gov.au

Vice-Chair and Chair of Working Group 9.1 – Education of Valuation Professionals in FIG

Ph.D. Kauko Viitanen, Professor in Real Estate Economics and Valuation

E-mail: kauko.viitanen@hut.fi

Vice-Chair and Chair of Working Group 9.2 – Environmental and Ecological Influences Effecting Use, Value and Demand for Real Estate

Mr. Simon Adcock (Australia)

E-mail: Simon.Adcock@nre.vic.gov.au

Vice-Chair and Chair of Working Group 9.3 – Valuation for Taxation and Statutory Compensation

Henning Elmstrøm

E-mail: elmstroem@plf.dk

Vice-Chair and Chair of Working Group 9.4 – Organizations of Valuers and Appraisers in Emerging Eastern European Markets

David Smejkal

E-mail: David.Smejkal@a-consultplus.cz

COMMISSION 10
CONSTRUCTION ECONOMICS AND MANAGEMENT
WORK PLAN 2002 – 2006

1. Title

Construction Economics and Management.

2. Terms of Reference

- Construction Economics
- Cost Management
- Quantity Surveying
- Building Surveying
- Cost Engineering
- Project Management
- Construction Management
- Construction Law

3. Mission Statement

- To encourage wider membership of FIG of National Associations of professionals working in Construction and Economics and Management.
- To identify and associate with other international groupings of professional in related field to optimize the dissemination of information between the members of the organisations.
- To encourage the participation of representatives of national member associations in the working groups of the Commission and in the work of other related international groupings.
- To promote the professionals related to Construction Economics and Management.
- In association with Commission 1, to maintain and develop high standards within the profession.
- In association with commission 2, to maintain and develop high standards of professional education, continuing professional development and to develop mutual recognition of qualifications between member associations.
- To assist with the development of the construction Economics and Management professions in the developing world and emerging economics.
- To encourage recognition of the value of services which can be provided by the surveying professional in the field of Construction procurement, Construction Economics and Management with International governmental organisations.

4. General

Commission 10 endorses the underlying concept that respect for Cultural and Linguistic issues is very important and Commission 10 will be sensitive to these issues in the way it works. This will be implemented by encouraging multilingual abstracts and presentations in general meetings and through the use of an appropriate regional language during regional meetings.

5. Working Groups

Working Group 10.1 – Human Settlements, Economics and Environment Sustainability

Policy Issues

- Draw on international research through a network of national associations within FIG and other related international groupings to obtain sustainable models for construction procurement and management of Low-Cost Housing and Infrastructure, urban regeneration and informal settlements.
- To expand on FIG Cooperation with UN Agencies and other activities such as the Bathurst Declaration, Women gender issues, FIG Agenda 21 amongst other things to include development of Construction management policies and models of implementing housing, urban infrastructure and sustainability schemes and programmes.
- To develop global cost management models for low-income or affordable infrastructure and sustainable development.

Chair

Murtala Oladapo (Nigeria), e-mail: niqs@infoweb.abs.net.

Specific projects

Workshop(s)

Publication(s)

- Report at each FIG working week outlining activity and progress.
- A paper at each FIG working week on one of the aspects of the subject areas.

Timetable

Beneficiaries

Working Group 10.2 – Database for Quantity Surveying Education and Cost Management Professionals Worldwide

Policy Issues

- To compile a database of professional education for construction economics.
- Co-ordinate with Commission 2 to add to the FIG database.
- Commence a comparative study of courses and training to develop the work of mutual recognition of qualifications.
- To provide a basis for encouraging membership of FIG associations with other relevant international groupings.
- To develop systems for dissemination of information to the membership of members and associated groupings.

Chair

TBA.

Specific projects

Workshop(s)

Publication(s)

- Report at each FIG working week outlining activity and progress.
- A paper at each FIG working week on one of the aspects of the subject areas.

Timetable

Beneficiaries

Working Group 10.3 – Construction Procurement

Policy Issues

- To compare procurement methods worldwide
- To review development in procurement necessary to comply with UN Agencies and World Bank guidelines and as well as those of other Regional development Banks.
- To ensure that procurement procedures are sustainable

Chair

Andrew Morley (United Kingdom), e-mail: Andrew.morley@ccmassociates.com.

Specific projects

- A review of and comparison of construction procurement-Europe, and a different procurement policy
- A comparison and analysis of the methods of design, procurement and construction of buildings and their engineering installation

Workshop(s)

Publication(s)

- Report at each FIG working week outlining activity and progress.
- A paper at each FIG working week on one of the aspects of the subject areas.

Timetable

Beneficiaries

Working Group 10.4 – Standard, research and development in Cost management, Quantity Surveying, Cost Engineering and Project Management

Policy Issues

- Map each Quantity Surveying, Cost Engineering and Project Management skill and knowledge process.
- Issue professional Practice Guides containing the best of published articles.
- Develop generic Recommended Practices and Standards with basic terminology, methods, and data applicable to any enterprise or industry.
- Develop enterprise or industry specific Recommended Practices and Standards.
- To identify what research is being carried out in the fields of construction economics.
- How best to disseminate the result of that research to practicing professional

Chair

TBA

Specific projects

Development with Commission 1 (Working Group 1.4) of a Project Management resource detailing the major facets of project management delivery as it applies to the profession using an interactive review process with FIG Member Associations.

Workshop(s)

Joint workshop with Commission 1 in early 2006 in Australia.

Publication(s)

- Report at each FIG working week outlining activity and progress.
- A paper at each FIG working week on one of the aspects of the subject areas.

Timetable

Beneficiaries

6. Co-operation with sister associations

This Commission should strengthen its relationship with International and Regional Organisations such as ICEC, CIB, AAQS and PAQS in the promotion and development of cost management profession and activities.

Notes:

- International Cost Engineering Council-ICEC (which comprise Quantity Surveyors, Cost Engineers and Project Management Professionals). Most member bodies of the Association of Africa Association of Quantity Surveyors (AAQS) and Pacific Association of Quantity Surveyors (PAQS) belong ICEC.

- CIB (The International Council for Research and Innovation in Building and Construction). There is a strong membership of Quantity Surveying, Cost management and Construction management Professionals in this group.

7. Co-operation with the United Nations agencies

Whilst promoting the objectives of FIG, the Commission should integrate its activities with the gains made by FIG within UN Agencies. It should therefore develop the Construction professional activities in

- Human Settlements–Low Cost Housing, Infrastructure and Urban development
- Sustainable Development
- Implementation Issues of various policies of UN-HABITAT
- FIG Agenda 21
- Women gender issues among other things

8. Other Activities

9. Calendar of events

Full participation in FIG working weeks and appropriate regional and strategic meetings.

10. Commission officers

Commission Chair

Philip Shearer

E-mail philip.shearer@rlf.co.uk

Vice Chair and Chair of Working Group 10.1 – Human Settlements, Economics and Environment Sustainability

Murtala Oladapo

E-mail: murty@infoweb.abs.net

Vice Chair and Chair of Working Group 10.2 – Database for Quantity Surveying Education and Cost Management Professionals Worldwide

To be appointed.

Vice Chair and Chair of Working Group 10.3 – Construction Procurement

Andrew Morley

E-mail: andrew.morley@ccmassociates.com

Vice Chair and Chair of Working Group 10.4 – Standard, research and development in Cost management, Quantity Surveying, Cost Engineering and Project Management

To be appointed.

Appendix

FIG DEFINITION OF SURVEYOR

A surveyor is a professional person with the academic qualifications and technical expertise to practise the science of measurement; to assemble and assess land and geographic related information; to use that information for the purpose of planning and implementing the efficient administration of the land, the sea and structures thereon; and to instigate the advancement and development of such practices.

Practice of the surveyor's profession 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.
2. The positioning of objects in space and the positioning and monitoring of physical features, structures and engineering works on, above or below the surface of the earth.
3. 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.
4. The design, establishment and administration of land and geographic information systems and the collection, storage, analysis and management of data within those systems.
5. The study of the natural and social environment, the measurement of land and marine resources and the use of the data in the planning of development in urban, rural and regional areas.
6. The planning, development and redevelopment of property, whether urban or rural and whether land or buildings.
7. The assessment of value and the management of property, whether urban or rural and whether land or buildings.
8. The planning, measurement and management of construction works, including the estimation of costs.
9. The production of plans, maps, files, charts and reports.

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

FIG PUBLICATIONS

- No. 1 Exchange of Surveying Personnel 1990 E/F/G (out of print) ISBN 951-96203-0-3
- No. 2 Definition of a Surveyor 1991 E/F/G (out of print) ISBN 951-96203-0-3
- No. 3 Sustainable Development: a challenge and a responsibility for surveyors 1991 E/F/G ISBN 951-96203-3-8
- No. 4 The Surveyor's Contribution to Land Management 1991 E ISBN 951-96203-4-6
- No. 5 The Surveyor's Contribution to Land Management 1991 E/F/G (out of print) ISBN 951-96203-7-0
- No. 6 FIG and Member Associations: how to improve their relationships 1991 E ISBN 951-96203-5-4
- No. 7 Statutes and Internal Rules 1991 E/F/G (out of print) ISBN 951-96203-6-2
- No. 8 Hydrography in Ports and Harbours 1994 E/F/G ISBN 0-644-35210-8
- No. 9 Recommended Procedures for Routine Checks of Electro-Optical Distance Meters (EDM) 1994 E/F/G ISBN 0-644-35209-4
- No. 10 FAO and FIG Future Collaboration in Cadastral Reform in Rural Economics in Transition: report of round table meeting 1995 E ISBN 0-644-43069-9
- No. 11 The FIG Statement on the Cadastre 1995 E ISBN 0-644-4533-1, (available in 10 other languages)
- No. 12 FIG Plan of Work 1995-1999 1995 E (out of print) ISBN 0-85406-718-3
- No. 13 Land Tenure, Land Management and Land Information Systems: report of FIG, FAO and UNCHS round table meetings 1995 E ISBN 0-85406-737-X
- No. 14 Working towards Liberalisation in Trade in Services: the applications of NAFTA, the EU and MERCOSUR to the surveying profession 1996 E ISBN 0-85406-791-4
- No. 15 Continuing Professional Development 1996 E ISBN 0-85406-788-4
- No. 16 Constituting Professional Associations 1998 E ISBN 0-85406-862-7
- No. 16 Constitutiond'Associations professionnelles 2000 F ISBN 87-90907-03-5
- No. 17 Statement of Ethical Principles and Model Code of Professional Conduct 1998 E ISBN 0-85406-921-6
- No. 17 Exposé des principes déontologiques et modèle de code de conduite professionnelle 2001 F 87-90907-09-4
- No. 18 Statutes and Internal Rules 1998 E ISBN 0-85406-920-8
- No. 19 Quality Assurance in Surveying Education 1999 E ISBN 87-90907-00-0
- No. 20 FIG Plan of Work 1999-2003 2000 E ISBN 87-90907-04-3
- No. 21 The Bathurst Declaration on Land Administration for Sustainable Development. E ISBN 87-90907-01-9
- No. 22 Co-operation between FIG and UN agencies 2000 2003 - Report of the FIG/UN Roundtable Meeting in Melbourne 1999. E ISBN 87-90907-02-7
- No. 23 FIG Agenda 21 2001 E ISBN 87-90907-07-8
- No. 24 Women's Access to Land – FIG Guidelines. Principles for Equitable Gender Inclusion in Land Administration: Background Report and Guidelines. E ISBN 87-90907-08-6
- No. 25 Models and Terminology for the Analysis of Geodetic Monitoring Observations. E ISBN 87-90907-10-8
- No. 26 FIG Statutes, Internal Rules and Guidelines. E ISBN 87-90907-13-2
- No. 27 Mutual Recognition of Professional Qualifications. E ISBN 87-90907-16-7
- No. 28 FIG Guide on Standardisation. E ISBN 87-90907-17-5
- No. 29 Business Matters for Professionals. E ISBN 87-90907-18-3
- No. 30 The Nairobi Statement on Spatial Information for Sustainable Development. E ISBN 87-90907-19-1
- No. 31 Land Information Management for Sustainable Development of Cities. Best Practice Guidelines in City-wide Land Information Management. E ISBN 87-90907-21-3
- No. 32 FIG Work Plan 2003–2006. E ISBN 87-90907-24-8

Language: E – English F – French G – German