Joint Capacity Building Meeting

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Vice Chair, FIG Commission 4

Oostende, Belgium 10th December 2012
What is FIG?

- Established in 1878 in Paris by 7 member associations (Belgium, France, Germany, Italy, Spain, Switzerland and UK)
- Federation of national associations
- Only international body representing all surveying disciplines
- UN-recognised non-governmental organisation (NGO)
Defining a Surveyor

• **Aristotle:** "such as the surveyors of the woods and overseers of the grounds, must necessarily have their common tables and their towers, for the purpose of protection against an enemy”

• **From TheFreeDictionary online:**
  To determine the boundaries, area, or elevations of (land or structures on the earth's surface) by means of measuring angles and distances, using the techniques of geometry and trigonometry.

• **From Consulting Surveyor NSW**
  A Surveyor is a professional person, with academic qualifications, technical expertise, interpretative ability and management skills to practice the discipline of surveying for the benefit of society
Defining a Surveyor

- The FIG Definition
  - A surveyor is a professional person with the academic qualifications and technical expertise to conduct one, or more, of the following activities;
    - to determine, measure and represent land, three-dimensional objects, point-fields and trajectories;
    - to assemble and interpret land and geographically related information,
    - to use that information for the planning and efficient administration of the land, the sea and any structures thereon; and,
    - to conduct research into the above practices and to develop them.
Who are surveyors?

• Surveyors understand
  – the legislation governing land and property
  – the trade markets
  – supporting services
  – economics of construction, management, maintenance, acquisition and disposal
105 Member Associations; 41 Affiliate Members; 95 Academic Members & 32 Corporate Members

130 Countries
The International Federation of Surveyors
Organizational Structure

Annual General Assembly
105 member associations (81 countries)

Council
President and 4 Vice-Presidents

FIG Office

Fig Foundation

ACC0
Advisory Committee of Commission Officers

Com1
Practice

Com2
Education

Com3
Spat. Inf. Manage.

Com4
Hydrography

Com5
Posit. & Map

Com6
Eng. Surveys

Com7
Cad. & Land

Com8
Spat. Plan & Dev.

Com9
Valuation

Com10
Const. Econom.

Chairman, vice-chairs, national delegates, work plan, working groups, seminars etc

www.FIG.net
FIG Council

Dalal S Alnaggar (Egypt) FIG Vice President

Iain Greenway (United Kingdom) FIG Vice President

Michael Sutherland (Canada/Trinidad & Tobago) ACCO Representative

Chryssy Potsiou (Greece) FIG Vice President

CheeHai Teo (Malaysia) FIG President

Rudolf Staiger (Germany) FIG Vice President
The Role of FIG

- **Professional Development**
  - Global forum for professional discussions and interactions through conferences, symposia, commission working groups, …

- **Institutional Development**
  - Capacity building through Institutional support for educational and professional and institutional development at national level

- **Global Development**
  - Cooperation with the UN agencies, FAO, UN-Habitat and World Bank, and sister organisations through Joint Board of Geospatial Information Societies

- **Information and Communication**
  - website, annual review, publications

- **FIG Office**
  - administration, finances
Professional development

- Annual Working Weeks
- Biennial Regional Conferences
- FIG Congress every 4 years
- Commission work plans
  - 10 technical commissions
  - Interaction with national delegates
- Commission working groups
  - Interaction with national delegates
- Commission workshops and seminars
  - Especially commissions 2, 3, 6, 7 and 9
Towards New Standards of Competence for Hydrographic Surveyors and Nautical Cartographers

Andy Armstrong, Ron Furness, Gordon Johnston, Nicolas Suebe and Lysandros Tsoulos

15th November 2012
Hydro’12
Rotterdam, The Netherlands
Institutional development

• Member support
  – FIG provides institutional support to help members to help building educational programmes and their institutional basis
  – And to help national agencies to build systems in surveying, mapping and land management

• Also regional groups
  – Latin America (regional institution)
  – Africa Task Force
  – Francophone countries
  – Arab countries (Arab Union of Surveyors)
  – CLGE
Global development

- FAO, projects on capacity building, good governance, land economics
- UN-HABITAT, partner in the GLTN network, projects on informal settlement, informal development, gendered land tools, etc.
- World Bank, joint activities; publications, and joint conference March 2009 on Land Governance in support of the MDGs
- Global partnership is the link that drives development for achieving the global agenda such as the MDGs
Global development – partnership with UN-Habitat

- Informal settlements
  - Traditional cadastral systems do not provide for security of tenure in informal settlements
  - A more flexible system is needed for identifying the various kind of social tenure existing in informal settlements.
  - Such systems must be based on a global standard and must be manageable by the local community itself
Hydrography – partnerships required

- Informed Documents
  - Traditional papers cover specific topics. An overview with a compelling story was required.
  - The FIG no 57 publication acts as a starting point and baseline.
  - New initiatives and studies have concluded that the returns on investing in Hydrography are relatively large.
  - More events are needed to push this concept and gain real acceptance.
FIG Standards Network builds and maintains relations with secretariats of standardization bodies; initiates and work on standardization activities within FIG and ensuring the flow of information on standardization to FIG memberships.
Young Surveyors Network seeks to improve the participation of young professionals in FIG activities, in particular, to increase co-operation between the commissions and young surveying professionals including students.

In a period where many of the member organizations are facing difficulties to attract younger people to the profession, the aim of the Network is to foster connections between the “older” and the “younger” surveyors.
FIG Foundation
Building a Sustainable Future
Building a Sustainable Future:

looking for funding for a second phase of the Coast-Map-IO project, to implement Bathymetry databases in other countries around the Indian Ocean

Many commercial companies contribute:
CARIS
Kongsberg

Academic initiatives:
Hydrographic Academy
The International Board for the Standards of Competence of Hydrographic Surveyors and Nautical Cartographers

- Membership
- Duties
- Regulation by Terms of Reference and Terms of Procedures
- Recent and Current activity
The FIG/IHO/ICA International Board

- The FIG/IHO/ICA International Board on the Standards of Competence of Hydrographic Surveyors and Nautical Cartographers or simply “the Board”.
- It is supported by FIG (the International Federation of Surveyors), IHO (the International Hydrographic Organisation) and ICA (the International Cartographic Association)
- The Board meets annually.
The FIG/IHO/ICA International Board

- There are 10 members of “the Board” representing the 3 sponsoring organisations, FIG, IHO and ICA of which 4 are from IHO, 4 from FIG and 2 from ICA.
- A secretary is provided by the IHO.
- The individuals are from civil, governmental, and educational sectors.
- Has a wide spectrum of knowledge and experience in education, hydrography, and nautical cartography.
- The members are from different geographical areas (Australasia, S. E. Asia, Europe, India, North America).
The FIG/IHO/ICA International Board

- Establish and maintain the *minimum* standards of competence described in S-5 and S-8.
- Maintain publications (S-5, S-8, S-6, S47)
- Review syllabi and provide advice on syllabi
- Review procedures on submission of syllabi
- Inform the sponsoring organisations of its work.
The Training Landscape
The International Board

- Reviews courses at the Category A or B level.
- Is now able to review Ongoing Competency Assessment Schemes.
Looking Forward

- FIG Commission 4 shall continue to represent Hydrography and is planning participation in Abuja at the FIG Working Week in 2013. (Papers by 15th Dec’ 12 please!)
- The Board shall maintain and update the S-5 and S-8 Standards with revisions next year aiming for major new editions in 2013-14.
- I anticipate 12+ Course submissions next year with 3 of these being new submissions.
- As FIG & IHO have an MOU I am planning a key one day event in April 2013 alongside Ocean Business to develop strategic views for the Maritime and Hydrographic community.
- The further promotion of the work of FIG, IHO and Hydrography shall be continued through articles, presentations and papers.
Any Questions
Thank You!