

FIG and IAG/IGS IS A STRONG COMBINATION

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Outline

- Presentation of FIG
- FIG and its co-operation with other international bodies
- How FIG and IAG has co-operated during last 5 years
- Suggestions for the future

The International Federation of Surveyors (FIG)

Founded in Paris in 1878;

Federation of national associations;

Represents all surveying disciplines;

UN-recognised non-government organisation (NGO);

Its aim is to ensure that the disciplines of surveying
and all who practise them meet the needs of the markets and
communities that they serve;

It provides an international forum for discussion and
development aiming to promote professional practice and
standards



The FIG Profile
and the benefits of being a member

2007 - 2010



The International Federation of Surveyors is an international, non-government organisation whose purpose is to support international collaboration for the progress of surveying in all fields and applications.



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

Eilat 2009
Marrakesh 2011
Rome 2012
Abuja 2013

Biennial Regional Conferences

Hanoi 2009
?? 2011 (Probably South America or India)
?? 2013

FIG Congress every four years

Sydney 2010
Kuala Lumpur 2014

Commission work plans

10 technical commissions
Interaction with national delegates

Commission working groups

Interaction with national delegates

Commission workshops and seminars

LA N M A E R I I



>100 FIG member associations from >80 countries
28 affiliates, 36 corporate, 15 correspondents, 82 academic members

tool by ammap.com



300,000 Professionals Globally!

- Corporate members
- Correspondents
- Academic members

FIG Members



How does FIG Operate

- 10 FIG Commissions lead the technical work
 - The **ENGINE** room of FIG
 - Prepare and conduct the technical programme for FIG's international Congress (held every four years), annual Working Weeks, and bi-annual Regional Conferences.
 - 4 year work plan is developed and implemented through activities at technical conferences, meetings, workshops, seminars and liaisons with 'sister' organizations and member associations.
 - Appoint National Delegates and develop working groups to implement their strategies

www.fig.net/comm/comindex.htm

FIG Commissions

- Com 1: Professional Standards and Practice
- Com 2: Professional Education
- Com 3: Spatial Information Management
- Com 4: Hydrography
- **Com 5: Positioning and Measurement**
- Com 6: Engineering Surveys
- Com 7: Cadastre and Land Management
- Com 8: Spatial Planning and Development
- Com 9: Valuation and the Management of Real Estate
- Com 10: Construction Economics and Management



FIG Commission 5

- Positioning and Measurement



2007-2010

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

Chair: Rudolf Staiger, Germany

WG 5.1: Standards, Quality Assurance and Calibration (David Martin (France))

WG 5.2: Reference Frame in Practice (Mikael Lilje (Sweden))

WG 5.3: Integrated Positioning, Navigation and Mapping Systems (Andrew Hunter and Naser El-Sheimy (Canada))

WG 5.4: GNSS (Volker Schwieger (Germany))



FIG Commission 5

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Proposed Working Groups (2011-2014)

WG 5.1: Standards, Quality Assurance and Calibration

WG 5.2: Reference Frames

WG 5.3: Geodetic and Positioning Infrastructure

WG 5.4: Kinematic Measurements

WG 5.5/WG 6.X/IAG 4.2.5: Ubiquitous positioning



FIG International Cooperation

With **United Nations agencies**

e.g. UN Office for Outer Space Affairs (UN OOSA);

in particular the ICG – International Committee on GNSS

With **international professional organisations** in surveying disciplines as:

International Association of Geodesy (IAG);

International Society for Photogrammetry and Remote Sensing (ISPRS) and

The Institution of Navigation (ION)



FIG and IAG

Memorandum of Understanding

- Signed 2001
- Provide an effective framework for a continuing liaison between the two organisations
- Maintaining and increasing the opportunities of technical exchange between their members through a continuing program of cooperation
- Leading to mutual sharing of knowledge and expertise to the advantage of the membership of both organizations.

FIG and IAG

Memorandum of Understanding

- Regular contact to institute and maintain continuing liaison between the two organisations. The focal point in FIG for this cooperation is Commission 5.
- Sharing information regarding proposed schools, seminars, workshops, etc.
- Investigate possibilities to organize specialized joint seminars or workshops to serve broader professional communities.

MoU into action ...

Document to discuss potential areas for liaison, mainly developed by Higgins (FIG) and Rizos (IAG). Latest version from Oct 2009.

1. Mapping the structures
e.g. identifying IAG Services and its connection to FIG Com 5 as a whole
2. Jointly organiser seminars
3. Areas of current and future IAG and FIG cooperation

MoU into further action ...

Action / Project Plan

Project

Outcome /Deliverable
Commissions and Officers Involved
Milestones, Completion Dates
Proposed Meeting Schedule
Project Monitoring and Reporting
Responsibilities

FIG

FIG will be responsible for

IAG -

IAG will be responsible for

Acceptance

FIG and IAG Commission officers hereby agree to jointly

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Areas of current and future IAG and FIG (and others) cooperation

Currently running

- The AFREF project
- UN ICG
- Joint working group (Ubiquitous positioning)
- Joint seminar series

Newcomers

- The APREF project (together with PCGIAP)
- Joint publications as an issue of “Journal of Applied Geodesy”
- ICP1.2: Vertical Reference Frame

Jointly organised events

Examples of running series

- “xxth Symposium on Geodesy for Geotechnical and Structural Engineering and yyth International FIG Symposium on Deformation Measurements” organised by IAG and FIG
- Joint IAG-FIG-ISPRS “Mobile Mapping Technology”
- Joint IAG-FIG-ISPRS “Optical 3-D Measurement Techniques”

ALSO

- IAG has been very active at FIG events during the last years. Presentations, Panel discussions, Forum and so on

GNSS CORS Forums at FIG events. IAG/IGS very much involved!

- National/Regional CORS presentations
- Facilitate
 - development of standards/ guidelines
 - the compilation of the why and how to connect RTK CORS networks to ITRF
- Facilitate forums on various issues as technical and business models
- Facilitate representation for RTK CORS providers/users to 'voice' or lobby their wants/needs to GNSS owners, telecommunication agencies, GNSS equipment and software manufacturers / suppliers and others
- Provide best practice guidelines, surveying methodologies, field operations for RTK CORS users and providers

Areas of current and future IAG and FIG (and others) cooperation ... 1

Suggestion to IGS (and IAG)

a joint FIG publication covering issues as

- Development/promotion of standards/guidelines (e.g. IGS-standards)
- the compilation of the why and how to connect CORS networks to ITRF
- Provide best practice guidelines, surveying methodologies, field operations for RTK CORS users and providers

FIG prepared to take the lead but would need authors/help from IGS



FIG REPORT

Cost Effective GNSS Positioning Techniques



FIG Commission 5 Publication



Areas of current and future IAG and FIG (and others) cooperation ... 2

AFREF and APREF

- FIG Working Weeks 2011 and 2013 in Africa (Marocco and Nigeria)
- FIG Congress 2014 in Kuala Lumpur
- In Marocco, FIG are prepared to mainly focus on the development of AFREF. IAG/IGS needs to be involved.
- In connection to these events, organise sessions, workshops, "schools"



LANTMÄTERIET



Conclusions

- FIG and IAG/IGS are both bodies trying to present developments within geodesy, surveying and mapping to the surveyor
- Traditionally; IAG more scientific, FIG more practice oriented. IGS very much product oriented. IGS has developed standards
- FIG will continue to be closely involved in helping surveyors improve their use of GNSS and other positioning techniques. We would love to do this together with “others”.
- FIG and IAG/IGS together could be a strong “voice” for and to the surveyors.

Thank you for your attention

