

## PRESENTATION OF FIG COMMISSION 5

### POSITIONING AND MEASUREMENT

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## The International Federation of Surveyors



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  
2011-2015



The International Federation of Surveyors is an international  
non-governmental organization of national associations of surveyors  
based in Paris, France.

## 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

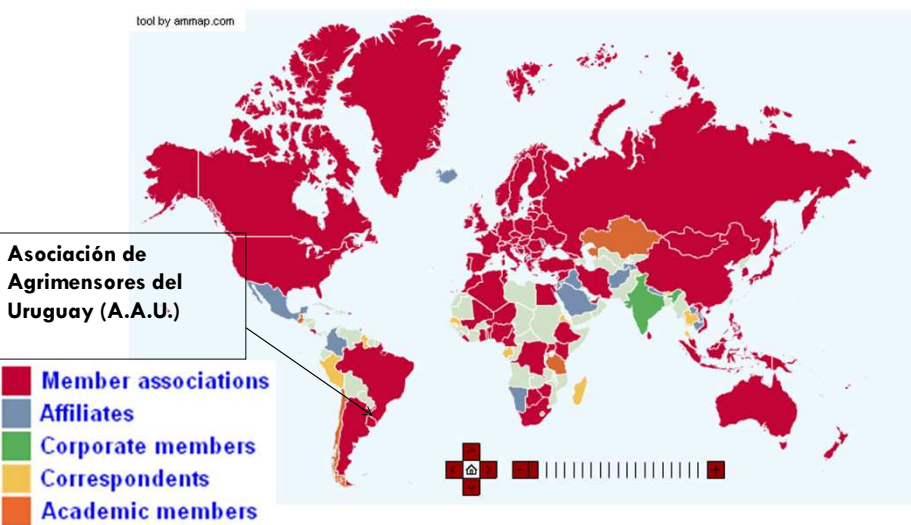
administration, finances

3

## Membership – 120 countries representing over 300,000 professionals



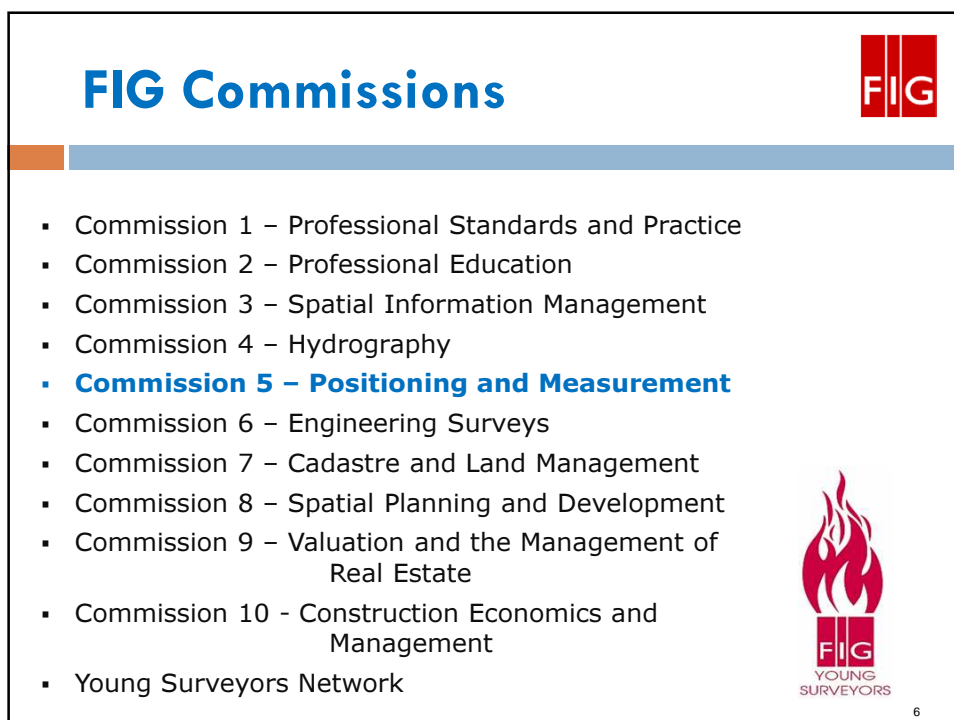
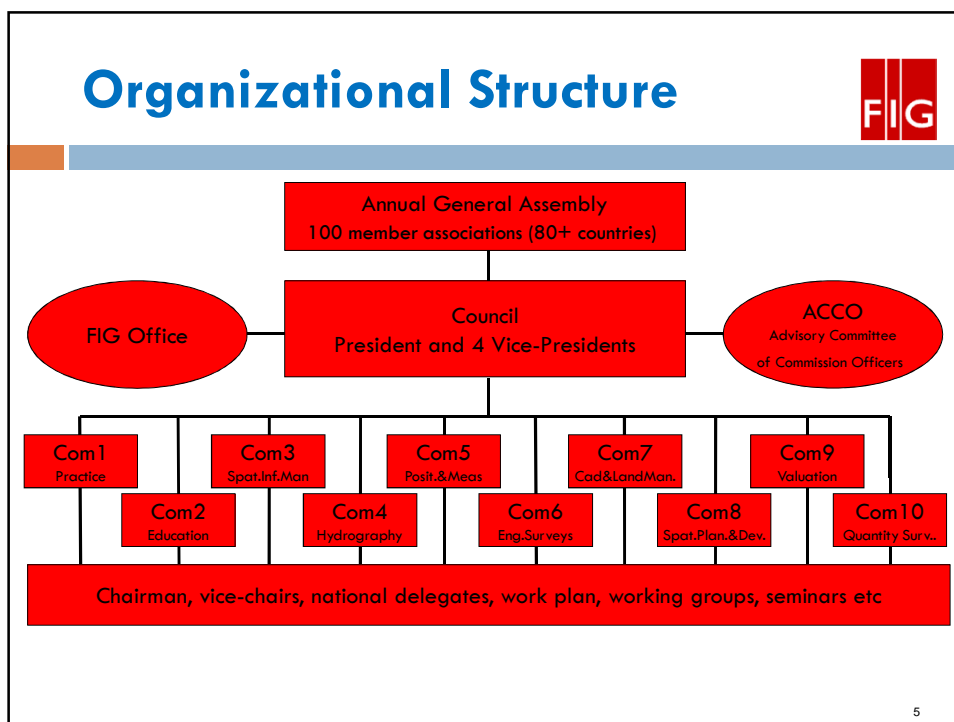
tool by ammap.com



Asociación de Agrimensores del Uruguay (A.A.U.)

- Member associations
- Affiliates
- Corporate members
- Correspondents
- Academic members

4



## The mission of FIG Commission 5



- Focus on modern and integrated positioning technologies.
- Facilitate and keep abreast of technical developments.
- Foster and support applied research
- Formulate and formalize collaboration with sister organizations, such as IAG/IGS
- Regular participation in FIG Events

7

## General

### FIG Commission 5 - Positioning & Measurement



- **About the development, use and integration of technologies for positioning and measurement**
  - associated with standardization, best practices and fundamental reference frame issues
- **Many technical issues tackled by Commission 5 are global in nature**
  - tasked to address global problems such as climate change, sustainable development and humanitarian needs
  - disciplines covered are at the heart of delivering solutions for the spatial aspects of important global problems.
- **Specific activities aimed at developing countries**
  - examination of Cost-Effective Surveying Technologies,
  - assistance with implementation of modern Geodetic Reference Frames and associated infrastructure, and
  - contribution to appropriate Continuing Professional Development programs,

## Working Groups of FIG Commission 5 - Positioning & Measurement



- **WG 5.1 - Standards, Quality Assurance and Calibration**
  - Chair, David Martin, France
- **WG 5.2 - Reference Frames**
  - Chair, Graeme Blick, New Zealand
- **WG 5.3 - Geodetic and Positioning Infrastructure**
  - Chair, Neil Weston, USA
- **WG 5.4 - Kinematic Measurements**
  - Chair, Volker Schwieger, Germany
- **WG 5.5/WG 6.2/IAG 4.2.5 - Ubiquitous Positioning**
  - Co-Chairs, Allison Kealy, Australia, & Guenther Retscher, Austria

9

## National Delegates



- **A member association can nominate a national delegate to a Commission**
- **This person will receive e.g Commission 5 Newsletter or other information.**
- **Uruguay have not nominated anyone to Commission 5!**

10



## Technical Seminar on Reference Frame in Practice, 4-5 May 2012, Rome, Italy

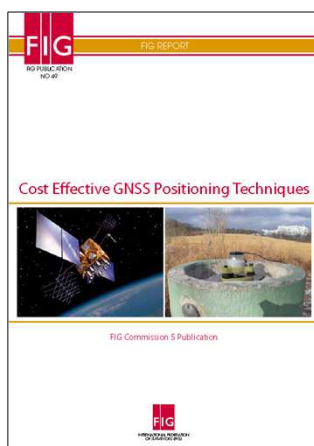


11

## “Cost Effective GNSS Positioning Techniques” (An example of a FIG publication)



12



- **GLOBAL NAVIGATION SATELLITE SYSTEMS**
  - GPS, GLONASS, GALILEO, COMPASS
- **GNSS POSITIONING TECHNIQUES FOR SURVEYING**
  - Relative Positioning, Precise Point Positioning, Positioning Software Packages and Data Types
- **COST-EFFECTIVE GNSS**
  - Cost-Effective Rovers / Low-Cost GNSS Receivers, Continuously Operating Reference Station (CORS) Networks
- **WEB-BASED POSITIONING TOOLS**
  - OPUS, SCOUT, AUSPOS, and CSRS-PPP
- **APPENDIX A – IGS**
- **APPENDIX B – Additional Information and Resources**
- **APPENDIX C – Global and Regional Reference Station Networks**
- **BIBLIOGRAPHY**

Report compiled by: Dr. Neil Weston, National Geodetic Survey, USA and Prof. Volker Schwieger, University of Stuttgart, Germany.

## Thank you for you attention

FIG Home Page:	<a href="http://www.fig.net/">http://www.fig.net/</a>
FIG Publications:	<a href="http://www.fig.net/pub/index.htm">http://www.fig.net/pub/index.htm</a>
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