“From the wisdom of the ages to the challenges of modern world”

FIG WORKING WEEK
17–21 MAY SOFIA BULGARIA
2015

Organised by:

Platinum Sponsors:

Fig Commission Highlights
FIG Commission 1
Professional Standards

Chair: Brian Coutts

• WG 1 Ethics
  – Gary Strong, UK  gstrong@rics.org

• WG 2 Women in Surveying
  – Robyn McCutcheon, Australia  robyn.mccutcheon@gmail.com
  – Winnie Shiu, Hong Kong  mswinnieshiu@gmail.com

• WG 3 International Boundaries
  – Don Grant, New Zealand  donald.grant@rmit.edu.au

• WG 4 Forum on Engaging Private Practice
  – Malcolm McCoy, Australia  M.Mccoy@aamgroup.com

• WG 5 Forum on Mutual Recognition
  – Kate Fairlie, Australia  kfarlie@gmail.com
FIG Commission 2
Education

Chair: Ir. Liza Groenendijk,
University of Twente, The Netherlands

Commission 2 - Who we are

WG 2.1   Educating the surveyor of tomorrow
Chair: Dr.-Ing. Fahria Masum, Technical University Munich

WG 2.2   Innovative teaching and learning
Chair: Dr. Audrey Martin, Dublin Institute of Technology

WG 2.3   Demand for and supply of professional education
Chair: Dr. Nadezda Kamynina, MIIGAIK

WG 2.4   Accreditation and quality assurance
Chair: Prof. Alias Abdul Rahman, UTM
What I hope to achieve over the 4 year term

1. An active and sustainable commission
   Active members, Young Surveyors, Communication

2. Professional education worldwide
   Workshops in Nepal, Kenya; European FIG learning platform

3. Towards educating the surveyor of tomorrow
   Defining the challenges
   Publication on land administration in the surveying curriculum

4. Vocational surveying education as part of FIG
   Discussion and technical sessions

What we aim to achieve in 2015

- FIG Commission 2 Workshop in Nepal, Kathmandu on 25-27 November 2015: Strengthening Education for Land Professionals and Opportunities for SDI Development

- Active working groups
FIG Commission 2 Professional Education

Professional Education for Everyone and Everywhere

Your FIG Commission 2
Join us
Send me your suggestions

FIG Commission 3 – Spatial Information Management

WORK PLAN 2015-2018
Chair: Enrico Rispoli, Italy
What I hope to achieve over the 4 years term:
- to address the phenomena of CROWDSOURCING and VOLUNTEERED GEOGRAPHIC INFORMATION;
- to follow the MANAGEMENT of the ENVIRONMENT;
- to assist GOOD GOVERNANCE;
- to address the research of the methods for the SUSTAINABLE DEVELOPMENT;
- to address the research for the REUSE OF THE BUILT;
- to study and monitor the territory for the DEFENSE from NATURAL PHENOMENA;
- to study and monitor the territory for the PREVENTION from HYDROLOGICAL DISASTERS and from EARTHQUAKES;
- to participate in the organization of INTERNATIONAL SUMMERSCHOOLS for YOUNG SURVEYORS with the cooperation of the YOUNG SURVEYORS NETWORK.
Areas of focus in this year 2015/2016:

- Crowdsourcing is a widespread method of reference for SIM. The question of whether the crowdsourcing can be a compression of the market of certified data or not is one of the elements of interest of the Commission to be monitored. For the reason above, Commission 3 has chosen as topic for its next annual meeting “The National Mapping Agencies Perspective and the Crowdsourcing versus Regulated Procedures: The Role of Citizen and Experts Sensing in Geographic Information Production”.
- Focus on the development of Cadaster 3D;
- Planning the next FIG Commission 3 Annual Meeting and Workshop on Crowdsourcing in Malta in November 2015 together with Commission 7.

FIG Commission 3
Looks forward to your participation

Chair: Enrico Rispoli, Italy
Commission 4 - Hydrography Officers 2015-2018

- **Chair:** Angela Etuonovbe (Nigeria)
- **Working Group 4.1** – Peter Barr (Australia)
- **Working Group 4.2** – Dr. Jonathan Li (Canada)
- **Working Group 4.3** – Gordon Johnston, MRICS (UK)

FIG Commission 4 Looking Forward

- **Supports 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.
  - **Maximizing stakeholder relationships** (MOUs):
    - FIG-International Hydrographic Organisation
    - FIG-International Federation of Hydrographic Societies
    - FIG-World Bank
- **The further promotion of the work** of FIG, IHO and Hydrography shall be continued through articles, presentations and papers.
THE BLUE VOICE: The Potential of the Blue Economy

Port Operations
Aquaculture
Boats and Shipbuilding
Defence and Security

Biomedicine
Shoreline
Weather and climate science
Ocean Energy

Coastal Zone Management
Telecommunication
Cables and Pipelines


FIG Commission 5
Positioning and Measurement

Chair: Volker Schwieger
Vice-Chairs: Li Zhang, David Martin, Nic Donnelly, Kevin Kelly/Dan Roman, Neil D. Weston/Sue Lynn Choy, Allison Kealy/Guenther Retscher, Leonid A. Lipatnikov
What I hope to achieve over the 4 year Term / Working Groups

Vice-Chair of Administration: Li Zhang, Germany

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

WG 5.2: 3D Reference Frames (Nic Donnelly, New Zealand)

WG 5.3: Vertical Reference Frames
(Kevin Kelly, USA / Dan Roman, USA)

WG 5.4: GNSS (Neil D: Weston, USA / Suelynn Choy, Australia)

WG 5.5: Multi-Sensor-Systems (Allison Kealy, Australia / Guenther Retscher, Austria / Joint with IAG /Com. 6)

WG 5.6: Cost Effective Positioning (Leonid A. Lipatnikov, Russia)

Co-operations

- United Nations Office for Outer Space Affairs (UNOOSA) and ICG (International Committee on GNSS).
- UN-GGIM - Global Special Information Management
- International Association of Geodesy (IAG) (Memorandum of Understanding available)
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- International Standard Organizations, especially ISO.
Areas of Focus in this Year


- Developing guidelines for cost-effective use and design of survey solutions including costs for labour and investment

- Evaluation of UAV capabilities and the increasing role of multi-sensor systems in UAV navigation

Commission 6
Engineering Surveys

Chair: Ivo Milev
Vice chairs: Desislava Staikova, Vladimir Seredovich, Rémy Boudon, Joel van Cranenbroeck, Wolfgang Niemeier
Working groups

WG 6.1 Deformation Monitoring and Analysis
   (W. Niemeier)
WG 6.2 Engineering surveys for design, constructive works and
   exploitation of buildings and communication infrastructures
   (Joel van Cranenbroeck)
WG 6.3 Sensor fusion, data acquisition and processing techniques for
   moving measuring complexes
   (Vladimir Seredovich)
WG 6.4 Wide Area Engineering Surveys for Monitoring, Features
   Determination and Environmental Management
   (Rémy Boudon)

What I hope to achieve over the 4 year Term

• Dynamic Monitoring of Buildings and Structures during and
  after construction
• Get the offshore and high-rise construction surveys as state of
  the art and get the requirements for this in the standards
• Definition of more productive workflow for the engineering
  infrastructure inventory and rehabilitation based on 3D mobile
  data acquisition and processing
• Combination of the ‘Smart technology solutions’ with the
  objectives of the engineering surveying for optimization the
  processes of train and automobile control system, and traffic
  management
Areas of Focus in this Year

- **2015/2016**
- The 3rd International Symposium on Deformation Monitoring (JISDM) will take place in Vienna from 30\textsuperscript{th} March–1\textsuperscript{st} April 2016, organised by the Department of Geodesy and Geoinformatics of Vienna Technical University. [http://www.jisdm2016.org/](http://www.jisdm2016.org/).

General Assembly
FIG Commission 7
Cadastre & Land Management

Chair: Gerda SCHENNACH (AT)
Vice-chair Hyunsook LEE (KR)
Vice-chair Chrit LEMMEN (NL) / Vice-chair Daniel PAEZ (CO)
Vice-chair Robin McLAREN (UK) / Vice-chair Gyula IVÁN (HU)
Goals for the 4-year term

- Raise awareness about necessity and benefit of property registration among society
  being a mastermind in developments of good land management
- Get one step further in developing trustable, self-monitoring and sustainable land registration systems
- Use modern technologies for raising security of property information and for improving trust of citizens into systems
  providing expertise for securing land tenure and advocating citizens rights
- Make the citizen the centre of the procedures in cadastre and land management
  initiating professional discussions on new business models as required by a changing society

- Build solid long-term co-operation with UN bodies and NGOs (UN Habitat, GLTN, FAO, WB, UN GGIM e.a.)
Areas of focus in 2015/2016

- encourage delegates from as many as possible member associations to get actively involved
- implementing new technologies into the agenda of Commission 7
  - Crowdsourcing of land rights
  - Fit-for-Purpose models for developing cadastre and infrastructures
  - Land information as tool for pre- and post-disaster management
  - Qualification of professionals and training of stakeholders as partners

Workshop Com3/Com7 on Crowdsourcing in Malta – Oct/Nov 2015
Workshop Com2/Com7/ISPRS on Professional Qualification and Training in Nepal – Nov 2015

- Development of Cadastral Template 2.0 towards a more global information tool

FIG Commission 8 Spatial Planning and Development

Planning for Humanities Needs

Chair: Kwame Tenadu
How to unpack linkages of Surveyors’ functional Roles in PLANNING & RESOURCE DEVELOPMENT

- Issues on
  - Availability
  - Accessibility
  - Equitability
  - Profitability
  - Accountability
- The HOW TO PLAN:
  - Minimize Vulnerability
  - Improve Sustainability
  - Achieve Resilience.
- FOR GLOBAL COMMON GOOD!!!

COMMISSION OFFICERS

**Working Group 8.1** – Disaster recovery, risk management and resilience planning – Chair: Phil Rhodes NZ

**Working Group 8.2** – Stewardship for water, land and forest as primary resources for development – Chairs: L.Bruce Keith UK, Yvonne Sowah, Ghana

**Working Group 8.3** – Human settlement policies and implementation – Chair; Peter Laarrakker

**Working Group 8.4** – Resilient Urban Development: Dr. Frank Friesecke, Germany

**Working Group 8.5** – Rural development and land governance: Chairs: Rosy Liao Rong, China & Dr.-Ing. Michael Klaus, (Germany)
TOUR OF WESTERN REGION OF GHANA

Nzulezu-stilt-village-western-region-Ghana

Jump on board C8

• “Be the change that you wish to see in the world.” Live as if you were to die tomorrow. Therefore learn as if you were to live forever.”

• — Mahatma Gandhi

His vision of sustainable development

Heroes of the 20th century
Kwame Tenadu  
Chair, FIG Commission 8  
tenaduk@yahoo.com  
kametenadu@gmail.com  
www.fig.net/commission8


By See Lian Ong – Commission 10 Chair
Focus for 2015/2016

1. In collaboration with the ICMS Coalition to develop the framework for ICMS. ICMS to be launched in Washington 16-17 June 2015

2. Prepare Tool Kit for the promotion of the Quantity Surveying / Cost Management profession for FIG member countries
Young Surveyors Network

Chair: Eva – Maria Unger
Overview Working Groups

Working Group 1
Social Media

Working Group 2
Events

Working Group 3
Mentoring

Working Group 4
Partnerships

Working Group 5
Policy Issues
3rd FIG YSEM
16 May 2015  Sofia, Bulgaria

‘European Young Surveyors
together for
tomorrow’s challenges’
Session #1 - Surveying the future: Mapping the bitcoint

Is it possible to publish a land transaction completely transparent, secure, legal, open and reliable using bitcoint?

In this session we apply the principles of the innovative and game-changing concept of bitcoint and the blockchain. You have heard of it before? But you are curious to learn more. Then this is the session to be instead of using bitcoint as a tool for currency transactions, why not use it as tool to register the transaction of property. Google Maps for the cadastral mapping, LinkedIn for the legal Registration and bitcoint for the transactions...? Imagine what happens if you see one square meter in a land transaction equal to a bitcoint. This sounds impossible to you... it doesn’t to us! Within this session we want to challenge all surveyors, young and experienced, to verify how bitcoint and blockchain contribute to the challenges in land administration. We want to introduce the idea and concept and then further want to get to know your experience and input on how the revolution could look like.

Session #2 - Mapping response - contributions for Nepal

TUESDAY 19 MAY 2015
14:00 - 16:30
Hall 1.1/1.2, NPC
Everybody is welcome!

The FIG Young Surveyors Network wants to contribute and actively do something for our dear friends and colleagues in Nepal. There was originally another session scheduled but this has been changed to

"Mapping response - contributions for Nepal"

We invite all of you to join us and use the already established Open Street Map (OSM) initiative to map for Nepal. OpenStreetMap (OSM) volunteers from around the world rapidly digitize satellite imagery to provide maps and data to support humanitarian organizations deployed to the affected countries.

There will be a short introduction on how to use OSM and then we will work together on a specific task defined by the OSM mapping manager.

Important note: Please bring your own Laptop!!