



International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure

Commission 5

Positioning and Measurement (2007-2010)

www.fig.net/figtree/commission5

FIG 2009 Working Week Report Eilat-Israel

Surveyors Key Role in Accelerated Development

INTRODUCTION

In this Commission 5 Report we will provide a review on all interesting activities at the FIG Working Week 2009 in Eilat.

The working week took place from 3rd to 8th of May at Dan Eilat Hotel.

The Working attracted more than 500 delegates from 65 different countries and nations. The technical program included some 250 presentations in 60 technical sessions and work shops. Commission 5 was involved in 12 sessions including a plenary session. 20 per cent of all sessions had Commission 5 involvement!

GENERAL ASSEMBLY

Two (2) General Assemblies were held on the 4th and 8th of May 2009. There were at least 37 Member Associations representing various countries at both meetings.

Major decisions and highlights were -

- The General Assembly admitted the Association des Géomètres Experts du Niger (AGEN) to become member associations of FIG; and endorsed several national organisations as new

affiliate, cooperate or academic members.

- Mr Ken Allred was awarded Honorary membership of FIG.
- Mr Wafula Nabutola was appointed chair elect for Commission 8.
- Update reports on the progress of work from Commissions, Task Forces, ACCO, FIG Liaisons and various FIG projects.
- Nigeria was awarded FIG Working Week in 2013. No voting was needed as Nigeria was the only candidate.
- New Africa Task Force 2009-2014 was established as well as the Young Surveyors Network

In addition, changes to the FIG Internal rules were passed by the GA and they relate to the nomination and voting of Commission Chairs. The new rules are as follows -

New Internal Rule 9.4

No individual may be nominated for election to more than one position at any General Assembly. No serving Commission Chair or Chair Elect may be nominated for a position on Council if this would result in overlapping terms of office as a Council Member and Commission Officer.

Amended Internal rule 11.4

Each commission shall be presided over by a chair who shall take office at the start of the year following a congress and serve for a four year term. The election of chairs of commissions shall be decided by a vote of the General Assembly. *For each four year term, each member association may nominate one person for a position of a Commission Chair.*

PRECIS OF TECHNICAL SESSIONS

Overall there were 60 technical sessions with almost 250 presentations at the Eilat 2009 Working Week. At this symposium FIG Commission 5 was once again a very popular commission and thus busy as it attracted and facilitated 44 related technical papers and posters, including 5 peer reviewed papers. There was also a **Plenary Session for the technical FIG Commissions** at which Rudolf Staiger presented on "Push the button - or does the art of measurement still exist".

The following is a summary of the majority of Commission 5 technical sessions. To view most of these papers, presentations and posters from the Eilat Working Week please navigate to the web site - <http://www.fig.net/pub/fig2009/techprog.htm>

- TS 1C - CORS-RTK I

This technical session consisted of four presentations all dealing with CORS networks and services connected to them. We were given experiences from Israel and Croatia on their development of national CORS networks. From Korea we listened to a proposal on how to use their CORS network in the resurveying of the Korean Cadastre.

- TS 1F - Image processing, Visualization and Mapping Systems

This session was co-sponsored by Commission 5 and 6 as well as ISPRS. Six papers were presented. Five of them were presented by people from Israel and the sixth was from Turkey.

- TS 2C - CORS-RTK II

This session was a continuation of session TS 1C. It included four papers. One of the papers had successfully gone through the peer review system. This paper deals with the CORS network in Serbia. Two other papers were related to papers also in TS 1C dealing with the resurveying of the cadastre in Korea as well as the CORS network in Israel. At the end an overview about one German Real-Time CORS network and its quality control was provided.

- TS 2F - Geodetic Networks and Data Analysis

Three papers were presented in this Commission 5 and 6 session. One of the papers was a peer reviewed paper.

- TS 3C - Geoid-modelling

This session started by a presentation by Prof Vanicek (Canada) on the question "Do we need a proper geoid?". Three more papers were presented, two dealing with the geoid undulation model in Israel.

- TS 4C - Geodetic Datum I

This session included four papers dealing with coordinate transformations and geodetic datums as well as drawing connections to spatial data bases. The papers are presented by authors of New Zealand, Germany, the USA and Macedonia (former Yugoslavia).

- **TS 5C- Geodetic Datum II**
This session included three presentations focused on transformation issues as well as about a the vertical datum for the Dead Sea.
- **TS 6C - GPS for Engineering**
Two of the three papers in this session were peer reviewed. The first was presented by Volker Schwieger and dealt with the use of cheap GPS tools and their availability for accurate high sensitivity GPS. The second one was presented by Neil Weston and concerned the automatic post-processing service OPUS. The third paper in this session presented the use of the globally Suomi-Net and the advances in Kalman filtering for atmospheric tomography.
- **TS 8C - Instruments and Calibration**
Three papers were presented here were the first one, presented by Andreas Eichhorn dealt with the stability of tripods.
- **TS 8E - Terrestrial Laser Scanning, Visualization and LIDAR**
The session was co-sponsored between Commission 5 and 6. Three presentations were given: "Geometrical Building Inspection" was the subject of the peer reviewed paper from Germany. In the paper from Canada the possibilities of Mobile Laser Scanners were presented and discussed. Finally Prof. Seredovich reported about the experiences in Laser Scanning in Russia

STEERING COMMITTEE

The Commission 5 Steering Committee held a meeting whilst in Eilat. The main purpose of the meetings was to discuss the workings (technical sessions and forums) at Eilat and also future projects, work plans

and events. Minutes from these meetings can be found on the FIG Commission 5 web site.

The Steering Committee held an Open Commission meeting for its delegates, and also Prof. Rudolf Staiger (FIG Commission 5 Chair) and Mikael Lilje (Incoming chair FIG Commission 5) attended ACCO. Refer to Steering Committee Minutes for Commission 5 issues discussed at ACCO.

SOCIAL ACTIVITIES

FIG Commission 5 maintained their well known profile at the social events. Commission 5 wish to thank all delegates who made these festivities in Israel a memorable and enjoyable one. A special thanks must go to the "Three Monkey Bar".

The social functions of the working week that Commission 5 participated in were the-

- Welcome Reception at Dan Eilat Hotel
- FIG Foundation Dinner
- Commission 5 Dinner (included also Commission 4 and 6) - at "La Cucina"
- Gala Dinner at King Solomon's Pillars of Timna Park (an outstanding event)

CONCLUSION

For Commission 5 the Working Week 2009 in Eilat was a successful event. The participation at the Technical Programme was excellent.

The organisation of the whole conference including all social events was also great. A big thank you to the organizers in Israel.

I would like to thank all participants who supported this event. Once again I must

thank my Commission Officers for their efforts and constructive work.

Onward to Hanoi !



Rudolf Staiger

COMING FIG COMMISSION 5 EVENTS

1-3 July, Vienna, Austria

The 9th Conference on Optical 3-D Measurement Techniques.

Co-sponsored by FIG Comm 5 and 6, ISPRS Comm V and IAG Sub-Comm 4.2.

Web site:

<http://info.tuwien.ac.at/ingeo/optical3d/>

21-24 July, Presidente Prudente, São Paulo State University, Brazil

6th International Symposium on Mobile Mapping Technology - MMT2009. Serving the Information Society

Jointly organized by ISPRS, FIG, IAG, and UNESP, Brazil.

Web site:

www.fct.unesp.br/eventos/simposio/mmt09

The main objective of the conference is to discuss the most recent technology and its application, to exchange experiences and to promote future research aiming at the development and the production in the fields related to mobile mapping. The topics of interest are focused on the state-of-the-art in many important scientific and technological, and also cultural, issues related to the MMT'09, with the major objective of making human life safer, easier, and more comfortable in the near future.

2-15 August, Rio de Janeiro, Brazil
XXVII General Assembly of the International Astronomical Union.

Web site: www.iau.org

4-7 August, Bali, Indonesia

10th South East Asian Survey Congress (SEASC '09).

Hosted by Bakosurtanal.

Web site: www.seasc2009.org

31 August - 4 September, Buenos Aires
Geodesy for Planet Earth - IAG2009.

International Association of Geodesy Scientific Assembly IAG 2009. Co-sponsored by FIG Commission 5.

Web site: <http://www.iag2009.com.ar/>

At this event we are intending to hold several technical forums on the topic "Navigation and Earth Observation" with our sister organisation IAG, ION and ISPRS. See

<http://www.iag2009.com.ar/session6.pdf>

19-22 October, Hanoi, Vietnam

7th FIG Regional Conference. Spatial Data Serving People. Surveying & Mapping for Land Administration and Environment Management.

Organised by FIG and the Vietnam Association of Geodesy, Cartography and Remote Sensing.

Web site: www.fig.net/vietnam

First invitation:

www.fig.net/events/2009/vietnam_flyer.pdf

The Steering Committee are seeking suggestions for possible technical session or forum topics and 'contacts' in the region for this conference. If you would like to assist or have some ideas please contact Rob Sarib - robert.sarib@nt.gov.au