



International Federation of Surveyors
 Fédération Internationale des Géomètres
 Internationale Vereinigung der Vermessungsingenieure
Commission 5
 Positioning and Measurement (2007-2010)
www.fig.net/figtree/commission5

Newsletter - December 2008

MESSAGE FROM THE CHAIR

Another year has passed and we sincerely hope the year has been a prosperous one for all. Commission 5 has had another solid year with our main technical event being the Stockholm Working Week. 2009 will be a very busy year, not only from a technical symposium viewpoint but also from a 'work plan' perspective as we approach the FIG 2010 Congress in Sydney.

On behalf of Commission 5 we look forward to your continuing support and participation in 2009, and wish you all a Merry Christmas and Happy New Year!

Rudolf Staiger



COMMISSION 5 NEWS

Standards

There are two standards presently under review:

- ISO 17123-5:2005 Optics and optical instruments - Field procedures for testing geodetic and surveying instruments, Part 5: Electronic tacheometers

and

- ISO 17123-7:2005 Optics and optical instruments - Field procedures for testing geodetic and surveying instruments, Part 7: Optical plumbing instruments

Any queries regarding the above please send an email to David Martin - david.martin@esrf.fr

TanDEM-X Project

Four months ago the Commission 5 published the announcement "Kinematic GNSS for Evaluation of TanDEM-X Digital Elevation Model". The DLR thanks Georgia Fotopoulos, Volker Schwieger and FIG Commission 5 for their support.

During these months a large number of e-mails reached the organisers at DLR. 20 scientists and / or companies from all over the world were registered. Most of them will join the TanDEM calibration and validation group. The teams have already a lot experience with GNSS and with radar, specially SRTM.

DLR now have the job to manage these proposals and group them into "scientific", "commercial" and "hybrid". DLR can not support ALL due to budgetary constraints. For each continent a group will be selected. Continent-wide tracks of a few thousands km can be supported with funding. "Scientist" proposals of a few hundred

kilometres are still welcome to contribute to the up-coming DEM validation activities.

In the next period DLR is expecting the offers of the continent-wide measuring groups and make an "optimal" compromise. Especially the tracks for Asia, Africa, and Australia will be contracted out.

Kinematic Tracks in Europe (from the Ukraine to Portugal), Asia and South America (Chile-Argentina) are already acquired by small consultants. The next tracks should be driven in the near future, since the ionospheric conditions will get worst. Furthermore a part of the Europe track (around 2000 km) is already processed.

For more information please email Volker Schwieger - volker.schwieger@iagb.uni-stuttgart.de

**Report from the Intergeo 2009
Bremen, Germany
30 Sep to 02 Oct 2008
Rudolf Staiger**

For our Commission - Positioning and Measurement - the Instrumentation, the Measuring Systems including the Accessories and the Software is very important. The biggest trade show for surveying is by far the yearly Intergeo-exhibition, which was held this year in Bremen in Northern Germany. A report from there is a story of success with astonishing figures. Together with the 3-day exhibition there is also a 3-day-congress in parallel organized by DVW (Deutscher Verein für Vermessungswesen).

More than 1400 Colleagues (1100 full registrations and 300 daily registrations) listened to 48 presentations. Integrated into the exhibition is the Intergeo-Forum which was formed this year by 32

presentations from the exhibiting companies. More than 500 companies showed their products on an overall surface of about 24000m² to more than 15000 visitors during the 3 days.

Some years ago Intergeo was a pure German-speaking-event, but nowadays it is becoming more and more international: 20% of the visitors and 30% of the exhibitors are not coming from Germany. The next Intergeo will be in Karlsruhe (September 2009) and then in Cologne (September 2010). If you want to get a complete overview on the actual instruments and measurement systems it is worth to go to the next Intergeo! See you next September in Karlsruhe!

**FIG Commission WG5.3 Integrated
Positioning, Navigation and Mapping
Systems and ISPRS**

Dr. Naser El-Sheimy, co-Chair of FIG WG5.3, was elected by the General Assembly of the International Society for Photogrammetry and Remote Sensing (ISPRS) as the President of Commission I (Sensors and Platforms) for 2008 to 2012. Dr. El-Sheimy was nominated by the Canadian Institutes of Geomatics and strongly supported by the University of Calgary. The ISPRS (www.isprs.org) is an international non governmental organization devoted to the development of international cooperation for the advancement of knowledge, research, development and education in the Photogrammetry, Remote Sensing and Spatial Information Sciences, their integration and application, to contribute to the well being of humanity and sustainability of the environment. Dr. El-Sheimy will bring strong ties between ISPRS COM I and FIG Commission 5.

Congratulations Naser !

Other News

After 34½ years of exemplary service **Dave Zilkoski** from the US National Geodetic Survey, NOAA - is retiring in Jan 2009. Commission 5 appreciate the efforts and support he has given to FIG over the years. We look forward to working with his successor and of course Neil Weston, Dave Doyle and William Henning.

COMING EVENTS in 2009

26-28 January, Anaheim, California **ION International Technical Meeting (ITM) 2009**

at the Disney's Paradise Pier Hotel
Web Site:

<http://www.ion.org/meetings/#itm>

FIG have a MoU with ION, and one of the initiatives is for us to participate at each others symposia. Mikael Lilje will be attending this forum on behalf of FIG and Commission 5.

3-8 May, Eilat, Israel **FIG Working Week and XXXII General Assembly**

*New Horizons across the Red Sea -
Surveyors Key Role in Accelerated
Development.*

Web site: www.fig.net/fig2009

Positioning and Measurement Topics -

- Establishing quality and reliable survey or geodetic infrastructure to underpin and support land development
- Standards, quality assurance and calibration
- Reference frame in practice
- Network adjustments
- Geodetic observing systems
- Integrated positioning, navigation and mapping systems

- GNSS and GNSS measuring devices
- Cost-effective GNSS
- GNSS networks and the impact of permanent GNSS networks and their applications in geodetic practice
- Precise GNSS
- GNSS calibration and check
- New positioning techniques
- Geodetic infrastructure
- Case studies on the above
- Vertical control networks based on precise spirit levelling, and its substitute alternatives.

Important Dates

1 December 2008 - Deadline for abstracts.

12 January 2009 - Confirmation to authors of acceptance of abstracts.

1-3 July, Vienna, Austria

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

Co-sponsored by FIG Commission 5 and 6,
ISPRS Commission V and IAG Sub-
Commission 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.iaq2009.com.ar/>

 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.p
 df](http://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

PLEASE NOTE - Commission 5 will endeavour to send representatives to all of the previously mentioned conferences. From a Commission 5 Steering Committee perspective we will be focussing our attention on the FIG Working Week in Eilat and the Regional Conference in Hanoi.

If you would like to circulate Commission 5 NEWS to all our members please email your item for consideration to the Vice Chair Administration - robert.sarib@nt.gov.au

*Best Wishes for the Festive
 Season and a Joyous
 New Year!*