

# Overview of achievements of Commission 5 since Abuja

Presented at General Assembly




## FIG Commission 5 2011-14

Mission statement - The five "F";

- **F**ocus on modern technologies, technical development and assist surveyors through guidelines and recommendations
- **F**acilitate and follow technical development through collaboration with other commissions and other international organisations
- **F**oster and support research and development and stimulate new ideas.
- **F**ormulate and formalise collaboration with manufacturers on the improvement on instruments and associated software
- **F**IG Events – use these to present and promote the work of the Commission and its working groups





**FIG Commission 5**  
-  
**Positioning and Measurement**  
**2011-2014**



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

WG 5.2: Reference Frames (Graeme Blick (New Zealand))

WG 5.3: Geodetic and Positioning Infrastructure (Neil D Weston (USA))

WG 5.4: Kinematic Measurements (Volker Schwieger (Germany))

WG 5.5: Ubiquitous Positioning (Allison Kealy (Australia)). Joint with IAG /Com. 6

**Reference Frames in Practice**


The Commission has initiated and successfully held another two Technical Seminars on Reference Frames since Rome

- o 2013 SE Asian Survey Congress Manila,
- o 2013 FIG/UN-GGIM-AP Pacific Smalls Developing States Symposium Fiji.

Development and publishing of a manual on reference frames – this has now been completed

- o Contributions by experts in their fields of interest
- o Joint with IAG and UNGGIM AP wg 1
- o Published as a series of fact sheets

Discussions and a workshop to be held at this Congress with particularly UN-GGIM AP WG1 about the next step in this region and how FIG can contribute – TS04A Wed 18 June, 1430 (Plenary Hall)



## New Publications

The Commission is at this Congress presenting;

- Revision of FIG publication no 49: Cost Effective GNSS Positioning Techniques (Weston and Schwieger)
- FIG Publication no 64: Reference Frame in Practice Manual

Also;

- Special Issue of Journal of Applied Geodesy; Vol. 7, No 4 (November 2013) on "Ubiquitous positioning and Navigation Systems"



## FIG International Cooperation

**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)

**United Nations agencies** as

- UN Office for Outer Space Affairs (UN OOSA); in particular the ICG – International Committee on GNSS
- UN Global Geospatial Information Management (UN GGIM); in particular UN GGIM AP Working Group 1 (Geodetic Reference Framework for Sustainable Development)



## UN resolution on Global Geodetic Reference Frame

The UN Committee of Experts on Global Geospatial Information Management (UN-GGIM) decided in July 2013 to formulate and facilitate a resolution for a global geodetic reference frame.

UN-GGIM recognises the growing demand for more precise positioning services, the economic importance of a global geodetic reference frame and the need to improve the global cooperation within geodesy

Global geodesy is dependent on contributions from nations all around the globe. No single country can maintain a global geodetic reference frame alone



## UN resolution on Global Geodetic Reference Frame

The aim is to change from the current system where contributions to the development of a global geodetic reference frame are undertaken on a "best efforts" basis to one where they are made through a multilateral collaboration under a UN mandate.

The process will be discussed at several sessions and meetings during the week starting with

TS06A; Joint FIG/UN GGIM AP session on Global Geodetic Reference Frame, Thursday 11.30 – 13.00 in Hall 1.

A joint statement to be prepared for the second General Assembly

