

## FIG Commission 5 2015-18

### Main Technical Objectives

- Focus on development of new instruments and measurement techniques: Terrestrial Laserscanning, Ground-based Radar, UAVs, etc.
- Spreading knowledge and developments of existing and well-established measurement techniques: GNSS, total station, etc.

### Cooperation

- Cooperation with IAG, ISPRS and other sister organizations to continue and further improve
- Cooperation with UN to continue:
  - UN Office for Outer Space Affairs (UN OOSA); ICG - International Committee on GNSS
  - UN Global Geospatial Information Management (UN GGIM), Working Group 1 (Geodetic Reference Framework for Sustainable Development)
- Working with ISO:
  - ISO-TC211: Geographic Information / Geomatics
  - ISO-TC 172 SC6: Geodetic and Surveying Instruments

Chair Commission 5: Volker Schwieger, Germany

Vice Chair of Administration: Li Zhang, Germany



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### WG 5.1 Standards, Quality Assurance and Calibration

Chair: David Martin, France

First Ideas: Guide for the expression of uncertainty in measurements (GUM) for surveying, Connection to ISO TC211 (session at Working Week in Sofia 2015).

### WG 5.2: Reference Frame in Practise

Chair: Nic Donnelly, New Zealand

First Ideas: FIG Publication on ITRF2013, Publication regarding national datums (different types), Review of Reference Frames in Practise Manual, Continuing Seminars on Reference Frames in Practise, Connection to ISO-TC211: Geodetic Registry Network.

### WG 5.3: GNSS

Chair: Neil Weston, USA and ???

First Ideas: Precise Point Positioning, Processing Services, Low-Cost GNSS, Special Session regarding these topics on Working Weeks and Conferences.



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### **WG 5.4: Multi-Sensor-Systems (joint with IAG?!)**

**Chair: Allison Kealy, Australia**

First Ideas: Alternatives and backups of GNSS, Unmanned Aerial Vehicles (UAV), Special Sessions at Working Weeks and Supporting Special events like: Mobile Mapping Symposium, ION GNSS, IGNS Australia, IPIN

### **WG 5.5: Cost-effective Positioning**

**Chair: ????**

First Ideas: Evaluation of current measurement and positioning techniques with respect to cost and time, FIG publication on this topic, Base: Paper on “Cost-Effective Positioning” by Mikael Lilje and Volker Schwieger, in Abuja, Nigeria; and FIG publication No 49 (Commission 5 publication) on Cost-Effective GNSS

### **WG 5.6: Vertical Reference Systems**

**Chair: ????**

