



# **C6 Working Plan 2007 - 2010**

**Prepared by:  
Univ. Prof. habil. Alojz KOPÁČIK, PhD.  
Chair-Elect for C6**

XXIII FIG Congress

Munich, October 8-13, 2006



## **Main topics ...**

---

- ***management of topometric data throughout the life cycle of the construction,***
- ***quality control,***
- ***modern concepts for setting-out and machine guidance,***
- ***deformation monitoring, analysis, prediction,***
- ***automatic measuring systems, multi-sensor MS,***
- ***TLS usage for civil engineering and industry constructions, TLS testing,***
- ***standards related to CE, industry and research.***

XXIII FIG Congress

Munich, October 8-13, 2006

## **Mission statement ...**



- **knowledge management – promote skills and abilities, provide a forum for exchange of knowledge,**
- **support multidisciplinary expertise and co-operation, which lead to integrated survey methods and systems,**
- **co-operation with other FIG Comm,**
- **co-operation with other professional organisations (IAG, ISM, ISPRS, ...),**
- **support of regional events and events organised for young surveyors,**
- **participation on the FIG standardisation policy.**

## **C6 WGs ...**



- **WG 6.1 Deformation measurement and analysis**
- **WG 6.2 Engineering surveys for industry and research**
- **WG 6.3 Engineering survey data basis and facility management**
- **WG 6.4 Engineering surveys for construction works and structural engineering**

## **WG 6.1 Deformation measurement ...**



**Chair: N.N.**

**Vice-Chair: C. Whitaker (USA)**

- **automation of monitoring surveys,**
- **development of integrated MS,**
- **modelling of deformations,**
- **analysis and interpretation of deformation, deformation prediction,**
- **regular symposia, contribution to other events organised by FIG Comm and other professional organisations**

XXIII FIG Congress

Munich, October 8-13, 2006

## **WG 6.2 Engineering surveys ...**



**Chair: Th. Wunderlich (Germany)**

**Vice-Chair: P. Kyrinovic (Slovakia)**

- **usage of adopted survey techniques in industry,**
- **high precision measurements, special instrumentation,**
- **multi-disciplinary co-operation of experts to solve engineering survey problems,**
- **large metrology problems,**
- **high precision on-line monitoring, dynamic systems, real time measuring systems,**
- **International Course for Engineering Surveying, INGEO**

XXIII FIG Congress

Munich, October 8-13, 2006

### **WG 6.3 Engineering survey Data Bases...**



**Chair: L. Gruendig (Germany)**

**Vice-Chair: V. Seredovic (Russia)**

- *the role of surveying engineer – manager of spatially referenced data,*
- *multi-disciplinary co-operation of experts to solve facility management problems,*
- *data models for relevant 4D or 5D project data,*
- *automation and integration of different data sets, different acquisition techniques and sources,*
- *workshop and contribution to other events organised by the C6, FIG and other organisations,*

XXIII FIG Congress

Munich, October 8-13, 2006

### **WG 6.4 Engineering surveys for construction works ...**



**Chair: G. W. Roberts (UK)**

**Vice-Chair: J. V. Cranenbroek (Switzerland)**

- *usage of adopted survey techniques in structural engineering,*
- *high precision measurements, special instrumentation, fibre-optic techniques,*
- *multi-disciplinary co-operation of experts to solve structural monitoring problems,*
- *precise methods for setting-out, QC on the construction site, remote surveys of structures,*
- *dynamic monitoring of buildings and structures,*
- *regular workshops and symposia*

XXIII FIG Congress

Munich, October 8-13, 2006

## **C6 TFs ...**



- **TF 6.1 Terrestrial Laser Scanners, Chair: M. Tsakiri (Greece) – co-operation with C5**
- **TF 6.2 Optimal Use of Interferometric Synthetic Aperture Radar (InSAR), Chair: Ch. Rizos (Australia)**
- **TF 6.3 Crustal Deformation, Chair: S. Stiros (Greece)**
- **TF 6.4 Monitoring and Analysis of Cyclic Deformations and Structural Vibrations, Chair: G. W. Roberts (UK)**
- **TF 6.5 Fiber-Optic Sensors, Chair: H. Woschitz (Austria)**
- **TF 6.6 Terrestrial-Based RF Positioning Technologies, Chair: J. Barns (Australia)**
- **TF 6.7 Continuum Mechanics, Chair: A. Szostak-Chrzanowski**

XXIII FIG Congress

Munich, October 8-13, 2006

## **C6 co-operation and new partnership ...**



- **continue co-operation with IAG SC4**
- **developed co-operation with ISM**
- **new partnership with ISPRS (different comm), according to the increasing input of laser scanning (terrestrial and airborne) to the engineering survey projects**

XXIII FIG Congress

Munich, October 8-13, 2006

## C6 events ...



### 2007

- *participation on the International Course for Engineering Surveying, Graz (Austria)*
- *INGEO – 4th International Conference on Engineering Surveying, Bratislava (Slovakia)*
- *FIG WW Hong Kong (China)*
- *International Conference on Bridge Monitoring, ..... (China)*

### 2008

- *13th International Symposium on Deformation Measurement, ..... (Portugal)*
- *FIG WW Stockholm (Sweden)*

XXIII FIG Congress

Munich, October 8-13, 2006



**Thank you for your attention!**

**Prof. hab. Alojz Kopáčik, PhD.**  
Chair-Elect for C6  
Department of Surveying  
Fac. of Civil Engineering SUT Bratislava  
Radlinského 11  
SK – 813 68 BRATISLAVA  
[alozj.kopacik@stuba.sk](mailto:alozj.kopacik@stuba.sk)

XXIII FIG Congress

Munich, October 8-13, 2006