



First Announcement & Call for Papers

Joint International Symposium on Deformation Monitoring

Combining:

14th FIG Symposium on Deformation Measurement and Analysis

5th IAG Symposium on Geodesy for Geotechnical and Structural Engineering

&

2nd International Workshop on Spatial Information Technologies for Monitoring the Deformation of Large-Scale Man-made Linear Features

2 - 4 November 2011 Hong Kong, China





Invitation

Structural failures such as collapses of bridges and buildings and geohazards caused by events such as landslides, ground subsidence and earthquakes are world-wide problems that often lead to significant economic and life losses. It is therefore important to carry out concerted systematic research to better understand and manage these problems.

Rapid developments in engineering, micro-electronics and computer sciences have significantly changed both sensors/instrumentation and methodology in Applied Geodesy, Engineering Surveying and the related fields, including those for monitoring natural phenomena and man-made structures. There is nowadays a high demand to develop new monitoring concepts and solutions to meet the real needs of the society in minimizing the negative environmental impacts.

The International Federation of Surveyors (FIG) Working Group 6.1 "Deformation Measurement and Analysis" and the International Association of Geodesy (IAG) represented by Sub-Commission 4.2 "Applications of Geodesy in Engineering" and Sub-Commission 4.4 "Applications of Satellite & Airborne Imaging Systems" have been very active in developing and applying new methods and technologies for deformation measurements, analysis and interpretation.

The announced symposium is the 3rd time for the FIG and IAG groups to have a joint meeting on this important topic, combining the 14th FIG Symposium on Deformation Measurement and Analysis and the 5th IAG Symposium on Geodesy for Geotechnical and Structural Engineering. In addition, this event is also joined by the 2nd International Workshop on Spatial Information Technologies for Monitoring the Deformation of Large-Scale Man-Made Linear Features.

Scientists, engineers, educators, representatives from public authorities, policy makers in surveying, geodesy, civil, structural, geotechnical and mining engineering, geology, geodynamics, geosciences, geohazard studies and hydrology are invited to attend this international event to share the latest research results and experiences in deformation measurement, analysis and interpretation.

Prof. Wolfgang Niemeier, Chair of FIG Working Group 6.1

Prof. Günther Retscher, Chari of IAG Sub-Commission 4.2

Prof. Xiaoli Ding, Chair of IAG Sub-Commission 4.4 & Chair of Organizing Committee

Themes of Symposium

The technical programme will consist of plenary sessions followed by special and poster sessions. Keynote speakers will present their general views on selected topics of geodetic, geotechnical and structural monitoring, modern sensor developments and related fields. Presentations in special and poster sessions will cover specific areas of developments, concepts and ideas.

The symposium welcomes contributions on any topics related to deformation monitoring, including modelling, measurements, analysis and interpretation of deformations. As examples, the following areas of interest are listed:

- Monitoring Concepts for Static and Dynamic Deformations of Engineering and Geotechnical Structures
- Geometrical, Deterministic and Non-Parametric Modelling of the Behaviour of Structures
- Interdisciplinary Approaches for the Design and Analysis of Deformation Measurements
- Innovative Concepts for Sensors and Methods
- Multi-Sensor Systems and Sensor-Networks
- Automation of Monitoring Measurements and Interpretation
- Warning and Alert Systems
- Applications in Geotechnical and Structural Engineering
- Applications in Geosciences on Local and Regional Scales

Technical Exhibition

A technical exhibition will be open to companies for presentation of their products and services related to the themes of the symposium. For additional information, please contact the symposium secretariat.

Important Dates

- 1 May 2011
- ★ 1 June 2011
- ★ 1 August 2011
- ★ 1 September 2011
- ★ 2-4 November 2011

Deadline for abstract submission

Notification of acceptance

End of early bird registration

Deadline for full paper submission (optional)

Symposium

Organizing Committee

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USGS, USA

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Prof. Chao Wang
Prof. Andreas Wieser
Prof. Anthony Yeh

Chinese Academy of Sciences, China
Vienna University of Technology, Austria
University of Hong Kong, Hong Kong

Prof. Jixian Zhang Chinese Academy of Surveying and Mapping, China

Chinese Academy of Sciences, China

Central South University, China

Co-Organizers

- ★ Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University
- ★ FIG Working Group 6.1: Deformation Measurements and Analysis
- ★ IAG Sub-Commission 4.2: Applications of Geodesy in Engineering
- ★ IAG Sub-Commission 4.4: Applications of Satellite & Airborne Imaging Systems
- ★ Engineering Surveying Sub-Society, Chinese Society for Geodesy, Photogrammetry and Cartography

Sponsors

Sponsorships of the Symposium are welcome. Please contact the Secretariat for further information.

Contact of Secretariat

Organizing Committee for Symposium on Deformation Monitoring c/f Department of Land Surveying and Geo-Informatics

The Hong Kong Polytechnic University

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