



LABORATÓRIO NACIONAL  
DE ENGENHARIA CIVIL

**measuring  
the changes**

## Presentation

The symposium is organized by LNEC, the National Laboratory for Civil Engineering, an institution of Science and Technology established in 1946. LNEC is responsible for carrying out, supervising and promoting scientific research and technologic development, as well as other scientific and technical activities necessary for civil engineering work and progress, including applied geodesy.

## Local organizing committee

Maria João Henriques - President	LNEC
Rui Manuel Fernandes	UBI
José Nuno Lima	LNEC
João Agria Torres	SPUIAGG
Manuela Vasconcelos	IGP

## Correspondence

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## Important dates

2007-05-11	Second circular
2007-11-02	Deadline for submission of abstract
2007-12-03	Notification of paper acceptance
2008-01-31	End of early registration
2008-03-21	Deadline for submission of full-paper manuscript
2008-03-31	Third circular



Fundo para o Desenvolvimento  
das Ciências da Construção



13th FIG Symposium on Deformation  
Measurement and Analysis



4th IAG Symposium on Geodesy  
for Geotechnical and Structural Engineering

**first circular  
Symposium announcement**

LNEC, LISBON, PORTUGAL  
2008 May 12-15



## Invitation

The recent catastrophic disasters such as the collapse of highway overpasses in Montreal; failures of levees and bridges in New Orleans; collapses of roofs of large civil structures in Germany, Poland, and Russia; land slides in California, Pakistan, and the Philippines; and rock failures and continued loss of lives in deep coal mines in China have dramatically increased the importance, and demand, for fully automated, continuous, and reliable deformation monitoring in the civil engineering, mining, and energy sectors.

In addition there is a strong trend to incorporating deformation systems into new structures from the very beginning, driven by concerns for whole-of-life structural health monitoring. Automation, multi-sensor integration, continuous data collection, integrated analysis and physical interpretation, and enhanced accuracy and reliability are the key developments in new monitoring systems.

These issues are the subject of studies of two international working groups: FIG Working Group 6.1 (Deformation Measurements) and IAG Sub-commission 4.2 (Applications of Geodesy in Engineering). This conference is the second joint meeting of the two groups under the theme "Measuring the Changes", combining the 13th FIG Symposium on Deformation Measurements and Analysis with the 4th IAG Symposium on Geodesy for Geotechnical and Structural Engineering.

Scientists, engineers, educators, public authorities, and other professionals are invited to attend this international event in order to share their experience in the monitoring and mitigation of structural and ground deformations in engineering and geoscience projects.

Prof. Adam Chrzanowski

Chair of FIG Working Group 6.1

Prof. Chris Rizos

IAG Sub-Commission 4.2

## Symposium topics

- Monitoring Static and Dynamic Deformations of Engineering and Geotechnical Structures
- Geometrical and Deterministic Modeling of Deformations
- Interdisciplinary Approaches to the Design and Analysis of Deformation Measurements
- Improvements to Monitoring Instrumentation and Techniques
- Multi-Sensor Systems
- Automation of Monitoring and Warning Systems
- Applications in Geotechnical and Structural Engineering
- Applications in Geosciences at Local and Regional Scales
- Education, Training and Mobility
- Activities of FIG WG6.1 and IAG SC4.2

## Scientific committee

João Casaca (Chairman)	Portugal
Lúisa Bastos	Portugal
Dorota Brzezinska	USA
Fritz Brunner	Austria
Adam Chrzanowski	Canada
Xiaoli Ding	Hong Kong
António Gil Cruz	Spain
Svend Johansen	Denmark
Alojz Kopacik	Slovakia
Gyula Mentés	Hungary
Wolfgang Niemeier	Germany
Witold Proszynski	Poland
Chris Rizos	Australia
Gethin Roberts	United Kingdom
Fernando Sansó	Italy
Stathis Stiros	Greece
Yukio Tamura	Japan

## Call for papers

Participants are invited to submit papers on the conference subjects or on related topics. All the contributions will be reviewed by the International Scientific Committee. Instructions for paper presentation will be included in the second conference bulletin, to be issued in April 2007. The conference language is English, no translation facilities will be provided.

## Symposium venue

The symposium will be held in Lisbon, Portugal, a historical capital, a potpourri of unusual character and charm. There you can find an amalgam of 800 years of cultural influences mingled with modern trends and life style, creating intricate and spectacular contrasts. Spread across seven hills always opening a window towards the majestic Tagus river, richly captivating, Lisbon invites you.

## Technical exhibition

During the event there will be an exhibition of equipments and technical solutions provided by the geo-information industry

## Social activities

A set of social activities will be organized, including technical excursions to an engineering structure.

## measuring the changes

May 12-15, 2008 - LISBON, PORTUGAL

13th FIG Symposium on Deformation Measurement and Analysis

4th IAG Symposium on Geodesy for Geotechnical and Structural Engineering.

If you want to receive further information on the joint symposiums return this form, by mail or fax, or send an e-mail to the organization.

name	
institution	
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state and country	
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	e-mail

Please keep me informed (only by email)

I intend to participate

I intend to submit a paper

My company is interested in participating in the technical exhibition

## Pre-registration card