



Commission 6

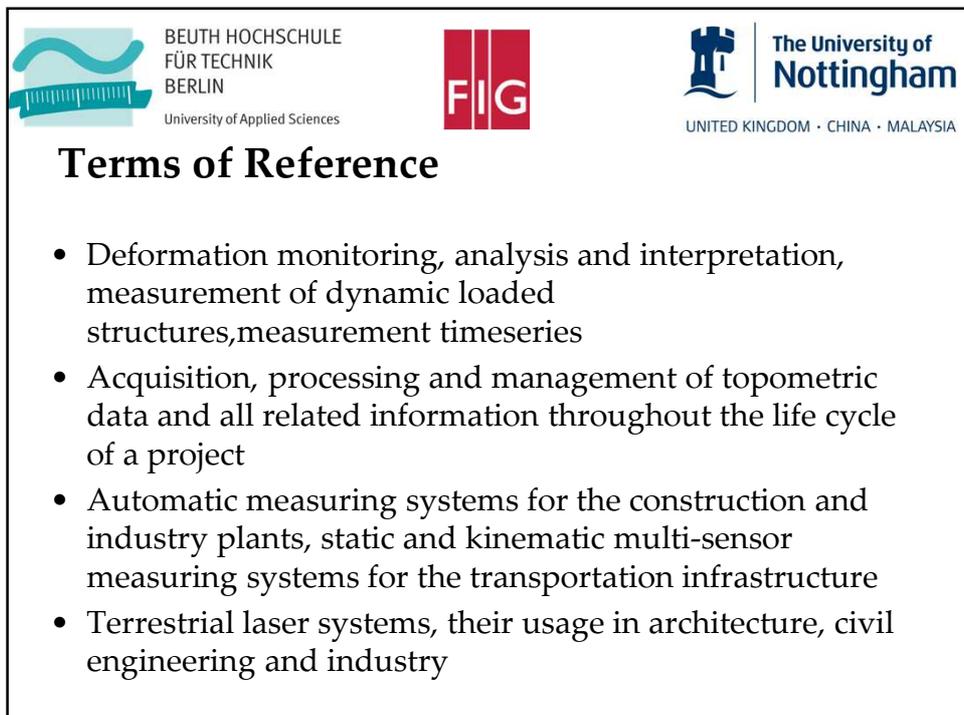
Engineering Surveying
Dr. Ivo Milev Berlin Chair elect

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FIG

Professor Gethin Wyn Roberts
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Dean of Science and Engineering
The University of Nottingham Ningbo, China
格辛·温·罗伯茨 教授
理工学院院长



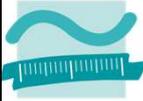
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FIG

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Terms of Reference

- Deformation monitoring, analysis and interpretation, measurement of dynamic loaded structures, measurement timeseries
- Acquisition, processing and management of topometric data and all related information throughout the life cycle of a project
- Automatic measuring systems for the construction and industry plants, static and kinematic multi-sensor measuring systems for the transportation infrastructure
- Terrestrial laser systems, their usage in architecture, civil engineering and industry



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FIG



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- WG6.1 Deformation Monitoring and Analysis (Prof W. Niemeier)
- WG6.2 Engineering Surveys for Construction Works and Structural Engineering (Joel Van Cranenbroeck)
 - Study Group 6.2.2 Laser Scanners (Joint with Commission 5, Commission 6 has lead)
 - Study group 6.2.5 Railway Surveying Techniques
- WG6.3 Machine Control and Guidance (H VadJensen)
- WG6.4/5.5 Ubiquitous Positioning Systems (Dr A Kealy, Dr G Rechster)



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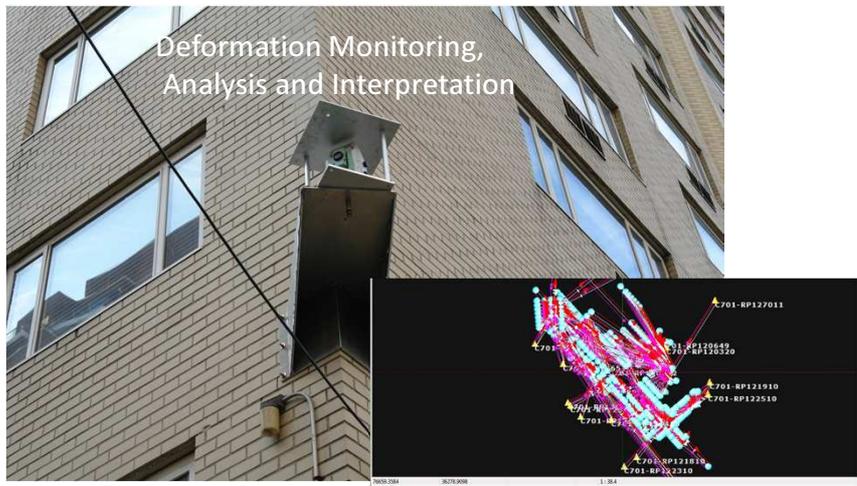


FIG



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Deformation Monitoring,
Analysis and Interpretation



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FIG

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Engineering Surveys for Construction Works and Structural Engineering



Image by Joel van Cranenbroeck

The image shows a high-angle view of a construction site in a dense urban area. A surveying instrument is mounted on a high-rise structure. An inset image shows a worker operating a Leica total station on a construction site.

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FIG

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Multisensor Scanning Complex



11 7 2012

The image shows two workers in high-visibility vests operating a RIEGL VMX-450 laser scanner on a construction site. The scanner is mounted on a structure, and the workers are adjusting it. A date stamp '11 7 2012' is visible in the bottom right corner of the image.



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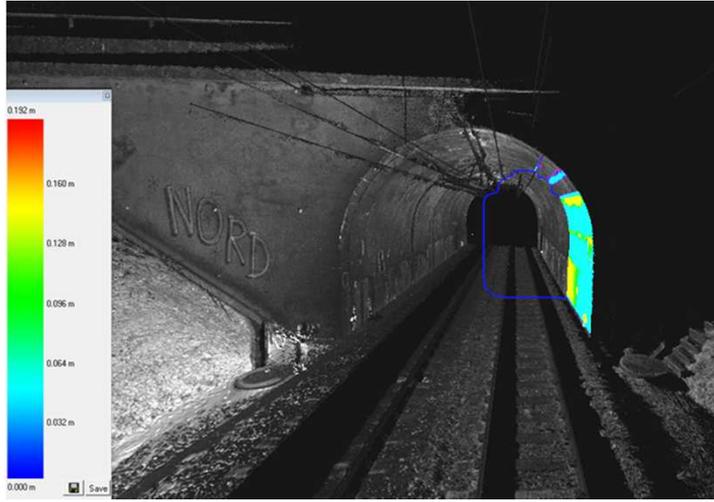


FIG



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Railway Tunnel Clearance





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FIG



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- **Events**
- 2011 Marrakech, Ulaanbaatar, Novosibirsk, Oskemen Kazakhstan
- 2012 Novosibirsk
- Nov 2012, Kazakhstan, Uruguay
- Nov 2012, WG6.2 Hong Kong
- Apr 2013, Interexpo GEO-Siberia-2013" - "Advanced Geospatial and Surveying Technologies for Environmental Management and Sustainable Development"
- Mai 2013 Nigeria Working Week
- June 2013 Philippines
- Sept 2013 6.1 Deformation Monitoring Symp. UK



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FIG



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- **Rome 2012**
 - TS01F - Dam and Reservoir Engineering Surveying
 - TS01L - Mining and Underground Engineering Surveying I
 - TS02F - Engineering Surveying – Photogrammetry
 - TS03F - Deformation Monitoring I
 - TS04F - Deformation Monitoring II
 - TS05J - Mining and Underground Engineering Surveying II
 - TS06G - Engineering Surveying, Machine Control and Guidance
 - TS07A - Laser Scanners I
 - TS07M - Remote Sensing Applications and Case Studies
 - TS08C - Laser Scanners II
 - TS09D - Laser Scanners III
 - TS09I - Engineering Surveying
 - TS05H - Remote Sensing I
 - TS06I - Remote Sensing II
 - TS08B - The Impact of Earthquakes and Geodynamics on Geodetic Reference Frames