

**Final Program &
Participations List**



**8th International Symposium on
Field Measurements in GeoMechanics**
Berlin, Germany, September 12-16, 2011

www.FMGM2011.org



Welcome to Berlin!

Like all FMGM-Symposia before, we have assembled a great program with eight invited lectures and more than 100 presentations of papers and posters from leaders in the field instrumentation industry published for the conference. As chairman of the organising committee, I want to thank you for joining us for this unique opportunity to meet and collaborate with others working in this field.



This conference starts with three workshops offered by leading authorities in their fields on various topics related to field instrumentation. The second part is a new one in FMGM-history. Eighteen young FMGM-engineers (under the age of 35) present their works. The first three (committee voting) will earn respectable prize moneys. Also the first three winning posters (floor voting) will earn prize moneys.

The three-day technical program is full of presentations on applications of instrumentation to measure field performance, recent research into new instrument types and new applications, what we can expect from technological advances and quantifying the benefits of monitoring systems.

There are twenty-two exhibitors by those who provide us with the quality products we use to monitor performance.

The post-conference activities consists of an organized technical tour to the harbour of Hamburg. Here you can visit the construction works for the new U4 subway line with two stops beneath the historic 'Speicherstadt' warehouse district. And there is also a cultural tour to the beautiful Sanssouci parks and palace in Potsdam.

The location of the venue at the old 'Humboldt-Universität zu Berlin' is outstanding. You are in the middle of the heart of Berlin with all its remarkable buildings, places and several world-class museums in walking distance. Berlin has also great public transportation facilities.

To discover Berlin and getting platforms for talks and profitable discussions we organized two city cruises, one with busses and one on water, and two banquets, one at the senators hall of the Humboldt-Universität and the grand FMGM-banquet in an old transformer station, built in 1899.

So, welcome to Berlin at the end of summer 2011. I hope you'll enjoy everything the FMGM-Symposium and Berlin have to offer.

Best regards,
Jörg Gattermann



FMGM is an acronym derived from the name of a series of international symposia entitled Field Measurements in GeoMechanics. These symposia deal in a broad sense with the use of instrumentation by civil engineers, geotechnical engineers, mining engineers, engineering geologists and geophysicists to measure the properties of soil deposits and geological formations and/or to quantify the performance and behavior of man-made structures and other engineering works by taking physical measurements.

The applications include, e.g. dams, foundations of structures, tunnels and other underground openings, embankments, natural slopes, land reclamation, mining facilities, repositories for industrial or nuclear waste, offshore structures and field testing to determine soil and rock properties.

Series of FMGM-Symposia:

1983: Zurich, Switzerland (Kalman Kovári)
1987: Kobe, Japan (Shun Sakurai)
1991: Oslo, Norway (Elmo DiBiagio)
1995: Bergamo, Italy (Giorgio Pezzetti)
1999: Singapore (Colin F. Leung)
2003: Oslo, Norway (Elmo DiBiagio)
2007: Boston, USA (Allen Marr)
2011: Berlin, Germany (Jörg Gattermann)
2015: ???



Venue: Humboldt-Universität zu Berlin | Unter den Linden 6 | D-10099 Berlin

International Advisory Committee

Kalman Kovári	Switzerland	Chairman FMGM Symposium 1983
Shun Sakurai	Japan	Chairman FMGM Symposium 1987
Elmo DiBiagio	Norway	Chairman FMGM Symposia 1991 and 2003
Giorgio Pezzetti	Italy	Chairman FMGM Symposium 1995
Colin F. Leung	Singapore	Chairman FMGM Symposium 1999
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Tae-Hyung Kim	Korea	Korea Maritime University, Busan
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P. Erik Mikkelsen	USA	Geotechnical instrumentation consultant
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Information Desk

Cordula Gattermann	Germany	Technische Universität Braunschweig
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DVW e.V.
Gesellschaft für Geodäsie,
Geoinformation und Landmanagement



Registration Fees

Main Congress & Young Engineer Session*

Delegate	600,00 EUR
Young FMGM Engineer (age limit 35)	250,00 EUR
Student (with I.D.)	100,00 EUR

Workshops

Workshops 1, 2 or 3 (Monday)	100,00 EUR
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Tours & Excursions

City Bus Tour (Tuesday)	20,00 EUR
City Boat Cruise (Thursday)	20,00 EUR
Technical Tour Hafencity Hamburg (Friday)	100,00 EUR
Cultural Tour Potsdam & Sanssouci (Friday)	50,00 EUR

Additional Tickets

Welcome Reception (Monday)	0,00 EUR
Banquet (Wednesday)	50,00 EUR

Please register online at
www.FMGM2011.org

* The congress fee covers:
Name badge
Admission to all sessions (except workshops)
Admission to exhibition
Congress proceedings
Welcome Reception
Exhibit hall lunches & refreshments
FMGM Banquet



Auditorium Maximum

Workshop 1 - Offshore instrumentation

9:00 a.m. - 12:00 noon Room 2014a

Moderator: Rolf Balthes (D)

Validation of design concepts by instrumented offshore pile foundations during installation and operation

Kirsch, Fabian (D)

Concept and Results of the Pile Instrumentation at FINO 3

(Research Plattform for the German Wind Industry No. 3 in the German Bight)

Fritsch, Maik (D)

Prospects for Dynamic Piletesting on Offshore-Foundations

Zahlmann, Jörn (D)

Lessons learnt in Subsea installation monitoring – From Oil Fields to Wind Farms

Per Sparrevik (N)

Geotechnical and structural Instrumentation of offshore structures in the international Oil- and Gas-Industry

Dougan, Alan; McGlynn, Ray (UK)

Lessons learnt for Offshore application from Soil measuring on a full-scale model of a gravity base foundation for offshore wind turbines

Sommer, Jan; Hartwig, Udo (D)

Workshop 2 - Instrumentation in underground laboratories and geological repositories

9:00 a.m. - 12:00 noon Room Kinosaal

Moderator: Klaus Wieczorek (D)

Instrumentation in Underground Laboratories and Geological Repositories – Overview and Special Challenges

Wieczorek, Klaus (D)

Geomechanical experiments at the Meuse Haute-Marne Underground Research Laboratory

Armand, Gilles; Noiret, Aurélien (F)

Challenges in geotechnical measurement techniques: case studies in the Mt. Terri rock laboratory, Switzerland

Steiner, Patrick (CH)

Geophysical Measurements and Monitoring in Underground Laboratories and Geological Repositories – Rock Characterization

Schuster, Kristof (D)

Long-term reliability/accuracy/power supply

Jaeggi, David (CH)

Workshop 3 - Standardization and product data sheets

9:00 a.m. - 12:00 noon Room 2103

Moderator: Martin Beth (F)

Field measurements in the fundamental geotechnical Eurocode EC 7 (EN 1997-1 and -2)

Scott, Jonathan (UK)

A comprehensive initiative towards more user-friendly standards

Nußbaumer, Manfred (D)

Standards and Eurocodes – some issues for authors to consider

Dunnicliff, John (UK)

Instrumentation standards in the United States

Marr, Allen (USA)

Geotechnical monitoring standards in Germany: DIN 4107, Parts 1 to 4

Bock, Helmut (D)

Geotechnical monitoring standards in Switzerland: Swiss Standard SN 670305

The European Task Group No. 2 of CEN TC341/WG1 on geotechnical monitoring by field instrumentation

Steiner, Walter (CH)

Engineering geodesy standards in Germany with particular reference to DIN 18710 – 4 “Deformation measurements”

Heunecke, Otto; Klein, Karl-Heinz (D)

Do we need regulations for product data sheets of geotechnical instrumentation?

Pezzetti, Giorgio (I)

9:00 a.m. - 12:00 noon Workshops

- W1: Offshore Instrumentation (Room 2014a)
- W2: Instrumentation in Geological Repositories (Room Kinosaal)
- W3: Standardization and Product Data Sheets (Room 2103)

12:00 noon - 1:00 p.m. Lunch in the Exhibit Hall

1:30 - 6:10 p.m. Forum for Young FMGM Engineers (Room Audimax)

Moderator: Naterop, Daniel (CH)

1:30 - 2:30 p.m. Session 1

Temporal prediction of landslides failure by continuous TInSAR monitoring

Mazzanti, P.; Bozzano, F.; Cipriani, I.; Esposito, F. (Italy)

Parameterization of a dry-stone retaining wall on a terraced slope in Valtellina (northern Italy) and subsequent stability analysis

Camera, C.; Apuani, T.; Masetti, M. (Italy)

Monitoring of a secant piled wall using fibre optic sensors

Schwamb, T.; Fuentes, R.; Elshafie, M.; Ouyang, Y.; Janmonta, K.; Soga, K.; Ferreira, P.; Swain, A. (United Kingdom)

Compression device for CDZ Experimentation – Mechanical containment test in gallery: control and monitoring

Morel, J.; Noiret, A.; Bourdon, M. (France)

Soil measuring on a full-scale model of a gravity base foundation for offshore wind turbines

Sommer, J. (Germany)

Discussion

2:30 - 2:50 p.m. Refreshment Break in the Exhibit Hall

2:50 - 3:50 p.m. Session 2

Application of observational method in conventional tunnelling projects in urban areas- the case of Niayesh road tunnel project, Tehran, Iran

Ghorbani, M.; Sharifzadeh, M.; Azimzadeh, A. (Iran)

High resolution monitoring of temperature in diaphragm wall concrete

Doornenbal, P. J.; Hopman, V.; Spruit, R. (Netherlands)

Suitability evaluation of the differential radar interferometry method for detection and deformation monitoring of landslides

Plank, S.; Singer, J.; Minet, C.; Thuro, K. (Germany)

Geomechanical surveys and geostatistic elaborations in Valchiavenna (Italian central Alps)

Ferrari, F.; Apuani, T.; Giani, G. (Italy)

Abu Dhabi, Qasr Al Hosn Rehabilitation Project: Automatic site monitoring in extreme temperature conditions

Mananjara, H.-P. (France)

Discussion

3:50 - 4:10 p.m. Refreshment Break in the Exhibit Hall

4:10 - 5:00 p.m. Session 3

Field monitoring of a motorway viaduct moving on an extremely slow landslide

Tombolato, S.; Pedrotti, M.; Someoni, L.; Mongioli, L. (Italy)

Application of terrestrial laser scanning and photogrammetry to a deep excavation

Fuentes, R.; Backes, D.; Robson, S.; Ferreira, P.; Swain, A. (United Kingdom)

Multivariate analysis of the measured data from monitoring system

Jung, S.J.; Kim, T.H.; Park, D. K.; Kim, H.S. (Korea)

A study on the behaviors of concrete lining and rock mass during shaft sinking by means of the short step method

Sakai, K.; Koike, M.; Aoki, T.; Inagaki, D. (Japan)

Discussion

5:00 - 5:20 p.m. Refreshment Break in the Exhibit Hall

5:20 - 6:10 p.m. Session 4

Influence of grout on earth pressure measurements taken by inclinometer

Schwager, M. V.; Fischli, F.; Puzrin, A. M. (Switzerland)

Automatic response capability in geodetic sensor networks

Horst, S.; Alkhatib, H.; Kutterer, H. (Germany)

Cost effective groundwater monitoring system during the construction of the 3rd E.ON power plant, Maasvlakte, Rotterdam, The Netherlands

Hogeweg, N.; Van der Salm, R.; Ochtman, D. (Netherlands)

Stabilization of soft ground under embankment load using deep cement mixing columns

Thang, N. N.; Kawamura, M. (Japan)

Discussion

7:00 p.m. Welcome-Reception at the Senators Hall

9:00 a.m. - 12:30 p.m. Opening Session (Room Audimax)

Welcome - Jörg Gattermann, Chairman of the Organisation Committee
Greeting addresses
Keynote Lecture 1: Architecture and Urban Development of Berlin
Thomas Krüger, Ticket B, Berlin
Interlude: Julia Gröning klassisches Trio: Ludwig van Beethoven - String Trio op. 3 in E flat
A moment of honour
Awarding the prizes for the Forum for Young FMGM Engineers
Keynote Lecture 2: First Prize Winner of the Forum of Young FMGM Engineers
Interlude: Julia Gröning klassisches Trio: Wolfgang Amadeus Mozart - Divertimento in E major

11:15 - 11:45 a.m. Refreshment Break in the Exhibit Hall

Keynote Lecture 3: Major Problems in the Design and Construction of the Gotthard Base Tunnel
Kalman Kovári, Consulting Engineer and Heinz Ehrbar, Chief Construction Officer Gotthard Base Tunnel

12:30 - 1:30 p.m. Lunch in the Exhibit Hall

1:30 - 3:10 p.m. Concurrent Technical Sessions

Room Audimax

- 1:30 p.m. Long term measurement and analysis of a deep mass movement
Müller, M.; Brunner, F. K.
- 1:50 p.m. Steering supporting measures for urban tunnelling
ThurLOW, P.; Knitsch, H.
- 2:10 p.m. Vibration measurements in bored tunnels and subsoil during trial runs on RandstadRail
Zandbergen, D.; Dalmeijer, R.; Berkelaar, R.
- 2:30 p.m. Toulon Tunnel: Where instrumentation pilotes everyday the tunnel works
Bourgine, A.; Dupriez, N.; Perraud, V.
- 2:50 p.m. Frejus Security Tunnel: Instrumentation of a rock tunnel under large convergences
Prusak, A.; de Lorenzi, D.; Beth, M.

3:10 - 3:40 p.m. Refreshment Break in the Exhibit Hall

Room Kinosaal

- New web based software for efficient geotechnical monitoring and data management
Rackwitz, F.; Savidis, S.A.; Rickriem, J.
- Demanding real time deformation monitoring and web data management
Krangnes, L.
- Spatial database and web-GIS for managing and validating river embankment monitoring data
Simeoni, L.; Floretta, C.; Zatelli, P.
- Real time, on-line monitoring for every Project
Thorarinnsson, A.; Simmonds, T.
- A micro Geo-Electric Signals measurement for the rock slope observation
Shishido, M.; Kusakabe, Y.; Ito, Y.; Murayama, H.; Niwa, H.

3:40 - 4:30 p.m. Poster Slam - Two Minutes of Fame (Room Audimax)

Every poster will be presented in two minutes by its authors. Floor Voting!

4:30 - 5:00 p.m. Refreshment Break in the Exhibit Hall

5:00 - 6:20 p.m. Concurrent Technical Sessions

Room Audimax

- 5:00 p.m. Summary and lessons learned from New York City tunneling instrumentation
Roy, D.
- 5:20 p.m. A network of robotic total stations to monitor the construction of Linea 9 of Metro Barcelona: The case of double tunnel of Sagrera
Valdemarin, F.; Tamagnan, D.; Schwarz, H.
- 5:40 p.m. -swissMon- An Approach to 4D Monitoring of Tunnels in Urban Environments
Meyer, C.
- 6:00 p.m. In-situ measurements regarding soil plugging
Henke, S.; Fischer, J.

Room Kinosaal

- Realistic design of big base slabs by combining geotechnical measurements and FEA to model the soil-structure-interaction
Vittinghoff, T.; Schneider, H.
- Dynamic response analysis of an embedded retaining wall: full-scale Instrumentation, monitoring and data interpretation
Rainieri, C.; Laorenza, C.; Dey, A.; Santucci de Magistris, F.;
- Measurements and investigations on the efficiency of geothermal storage of solar energy
Mock, S.; Herrmann, R. A.; Höfer, H.
- Standards and Eurocodes - some issues for authors to consider
Dunncliff, J.

7:00 p.m. City Bus Tour Berlin

3:40 - 4:30 p.m. Poster Slam - Two Minutes of Fame

Room Audimax

Underground wireless communication system using low-frequency magnetic field signals:
development, merit and potential application areas

Choo, J.; Kim, Y. S.; Oh, Y.-S.; Lim, S.; Jung, Y.-H.

Digital photogrammetry based real-time pile penetration measurement system

Kim, Y. S.; Choo, J.; Eom, I. S.

Foundation reinforcements on highway bridges in soft grounds due to seismic retrofit

Nam, M. S.; Jeong, J.-H.

Development of Discontinuity Analysis Program using Reverse Engineering and its Application

Cheon, D.-S.; Park, E.-S.; Jung, Y.-B.; Song, W.-K.; Choi, Y.

Field Measurement of Prestress Force of Tension-Type Ground Anchor
using FBG Sensor Embedded 7-Wire Strand

Kim, Y.S.; Sung, H.J.; Kim, J.M.; Lee, C.J.

Development of the state of stress in the closer surrounding of the pile toe
regarding to driven offshore foundations

Fischer, J.

Geomechanical investigation of coastal cliffs by terrestrial remote sensing techniques

Mazzanti, P.; Bretschneider, A.; Brunetti, A.

Earth pressure measurement on buried corrugated steel pipe culvert

Hong-Jong, K.; Nam, M. S.; Jeong, J.-H.

Using TDR system for continuous moisture monitoring of swellable Rock in MiS powerhouse Cavern

Daiyan, M.; Sheibani, H.

The early warning system of the 'Grande Frana' in Ancona

Cardellini, S.; Osimani, P.

In situ stress monitoring: Investigations of pressure pad coupling conditions

Friedrich, C.; Krause, M.; Paeghe, W.; Eilers, G.

Fibre optics strain sensing for geotechnical structures

Schwamb, T.

Case study of detecting a massive hard rock for tunnel excavation in serpentinite area
by geotechnical property data of boring cores

Okazaki, K.; Shishido, M.; Takahashi, Y.; Inoue, T.; Ito, Y.

Systematic inspection method for slope using digital photogrammetry

Ito, Y.; Shishido, M.; Kusakabe, Y.; Anan, S.

Automatic Metro of Torino - Line 1 - Porta Nuova St. - Lingotto St. Tract

"Example of risk management with continuous monitoring during TBM excavation in some critical zones"

Morino, A.; Mitrugno, D.; Fornari, E.; Colleoni, G.

8:30 - 10:00 a.m. Keynote Lectures

Room Audimax

Measurement and Monitoring: What they expect from?

Pezzetti, G.

Impact And Benefit of GEO Sensor network technology For Monitoring TASKS

Heunecke, O.

Subsea installation monitoring – Real-time key for operational success

Sparrevik, P.

10:00 - 10:30 a.m. Refreshment Break in the Exhibit Hall

10:30 a.m. - 12:10 p.m. Concurrent Technical Sessions

Room Audimax

10:30 a.m. Integrated onshore / offshore site investigation for Izmit Bay Suspension Bridge crossing the north Anatolian Fault zone, Turkey
Balthes, R.; Chacko, J.

10:50 a.m. Extensometer developed for femern large scale tests
Sparrevik, P.; Løvholt, J.; Hayes, S.; Kvistedal, Y.

11:10 a.m. Mitigation of underwater piling noise using new hydro sound dampers (HSD)
Elmer, K.-H.; Gattermann, J.; Bruns, B.; Kuhn, C.; Stahlmann, J.

11:30 a.m. Geotechnical monitoring on a ship:
The stability of cargo in a hold
Burton, P.; Ransley, C.

11:50 a.m. Dynamic load testing of large scale piles - offshore and onshore
Schallert, M.; Klingmüller, O.

12:10 - 1:10 p.m. Lunch in the Exhibit Hall

Room Kinosaal

Filling the gaps between drillhole data with high resolution geophysics
Bazin, S.; Pfaffhuber, A. A.

Detecting defects in diaphragm walls prior to excavation
Spruit, R.; van Tol, F.; Hopman, V.

Development and application of the shallow seismic reflection survey ahead of tunnel face using tunnel excavation blast as the seismic source
Murayama, H.; Niwa, H.; Kuroda, T.; Noda, K.

The acousto-elastic stress measurement-a new procedure for the geotechnical on-line monitoring
Jäger, F.-M.

Monitoring dams and reservoir slopes with interferometric SAR
Vöge, M.; Larsen, Y.; Frauenfelder, R.

1:10 - 2:50 p.m. Concurrent Technical Sessions

Room Audimax

1:10 p.m. 6 years earthworks monitoring with a fiber optics geotextile enabled sensor
Artieres, O.; Dortland, G.

1:30 p.m. Testing a large fibre optic strain-rosette, embedded in a landslide area
Wöllner, J.; Woschitz, H.; Brunner, F. K.

1:50 p.m. An all-digital implementation of the Brillouin optical frequency domain analysis for long-range distributed strain
Nöther, N.; Krebber, K.; Schneider-Glötzl, J.

2:10 p.m. Truly distributed optical fiber extensometers for geomechanical structure monitoring (dikes and underground repository):
Blairon, S.; Delepine-Lesoille, S.; Vincelas, G.

2:30 p.m. Smart CFRP systems for structural monitoring and retrofitting
Käseberg, S.; Schaller, M.-B.

2:50 - 3:20 p.m. Refreshment Break in the Exhibit Hall

Room Kinosaal

An automated approach for near surface soil site profiling by sasw technique
Mukherjee, M.; Prashant, A.

Ground-Based Radar Interferometry (GBInSAR) for the monitoring of a deep-seated landslide (Aosta Valley, NW Italian Alps)
Barla, G.; Antolini, F.; Barla, M.; Mensi, E.; Piovano, G.

Surface movements derived from Space: Valuable information for underground geomechanical processes!
Petrat, L.; Fokker, P. A.; Zschocke, A.; Petrat, K.

Advances in the application of Time Domain Reflectometry (TDR) as a monitoring system
Singer, J.; Thuro, K.; Sambeth, U.; Festl, J.

From planning to reporting of airborne laser scanning
Bannehr, L.; Jany, S.

3:20 - 5:00 p.m. Concurrent Technical Sessions

Room Audimax

3:20 p.m. Use of electrolevels for measuring slab deflection of concrete faced rockfill dams
Rocha-Filho, P.

3:40 p.m. The RASNIK opto-electronic alignment system: a high-precision, zero-drift deformation and displacement monitoring system
van der Salm, R.; van der Graaf, H.; Dorresteyn, W.

4:00 p.m. The effect of cement slag's amount on the measuring results of vibrating wire strain gages in concrete
Ahangari, K.; Noorbakhsh, S. M.

4:20 p.m. Buoyancy effect on slightly sloped horizontal in-place inclinometer
George, C.; Jensen, N.

4:40 p.m. GeoBeads, multi-parameter sensor network for soil stability monitoring
Peters, E.; van der Vliet, P.

5:00 - 5:30 p.m. Refreshment Break in the Exhibit Hall

Room Kinosaal

The forward ground prediction based on the axial displacement behavior of three dimensional convergence measurements
Takemura, I.; Tatsuhiro, O.; Koji, I.; Tatsunori, C.; Masato, S.

Emerging technologies of field instrumentation, data collection and reporting
Gujral, A.; Rastogi, V. K.

Combined observations of surface displacements using differential interferometry SAR (DInSAR), GPS and traditional monitoring techniques
Di Martire, D.; Iodice, A.; Ramondini, M.; Ruello, G.; Calcaterra, D.

The capabilities and limitations of satellite InSAR and terrestrial radar interferometry
Thomas, A.; Solomon, I.

Failure mechanisms in rock slopes imaged with a portable radar interferometer (GPRI)
Kos, A.; Strozzi, T.; Wiesmann, A.

5:30 - 6:30 p.m. Special Session (Room Audimax)

Awarding the prizes for the Poster Slam

The bid for FMGM 2015

FMGM - The Future

7:30 p.m. FMGM Banquet (Restaurant 'Umspannwerk Ost', Palisadenstr. 48)

8:30 a.m. - 10:00 a.m. Keynote Lectures

Room Audimax

- Urban Tunnelling Instrumentation: Analysis and reflexions
Beth, M.; Pezzetti, G.; Schmuck, C.
- How to create a Smart Levee Monitoring?
Hopman, V.; Kruiver, P.; Koelewijn, A.; Peters, T.
- On Site Visualization as a new scheme for risk visualization and safety management for geomechanics applications
Akutagawa, S.; Nomura, M.; Yamada, H.; Abe, R.; Izumi, C.; Kusui, A.

10:00 a.m. - 10:30 noon Résumé of Workshops

Room Audimax

- W1: Offshore Instrumentation
W2: Instrumentation in Geological Repositories
W3: Standardization and Product Data Sheets

10:30 - 11:00 a.m. Refreshment Break in the Exhibit Hall

11:00 a.m. - 12:40 p.m. Concurrent Technical Sessions

Room Audimax

- 11:00 a.m. Practical aspects of the fully-grouted method for piezometer installation
Contreras, I. A.; Grosser, A. T.; Ver Strate, R.
- 11:20 a.m. The length measuring probe for deformation measurements in axial and lateral direction - accuracy, compensation of temperature effects and measurement-experience
Szczyrba, S.; Kudla, W.
- 11:40 a.m. Field performance of fully grouted piezometers
Simeoni, L.; de Polo, F.; Caloni, G.; Pezzetti, G.
- 12:00 p.m. Long-term geotechnical response of Venice coastal defences detected by Persistent Scatterer Interferometry
Bincoletto, L.; Simonini, P.; Strozzi, T.; Teatini, P.; Tosi, L.
- 12:20 p.m. Instrumentation and monitoring of a proto-type scale test on pile foundations for over head bridge cranes
Mühl, A.; de Carvalho Thá, P.; Glockner, A.; Röder, K.

12:40 - 1:40 p.m. Lunch in the Exhibit Hall

Room Kinosaal

- New construction and extension of hydropower plants; site investigations with hydraulic and geotechnical in-situ testing
Hayer, J.; Reinhardt, S.; Kern, A.
- Permanent construction and geo monitoring programs for quality assurance of the construction and operation of the Danube Harbour Straubing
Lauber, T.; Herrmann, R. A.
- Settlement historical buildings compensated by lifting hydraulically
de Nijs, R.; Kaalberg, F.
- Case studies on design of vibration mitigation measures based on field measurements and numerical methods
Schepers, W.; Achilles, S.; Savidis, S.
- Geotechnical measurements during construction and operation of Sülfeld lock
Stelzer, O.; Schwab, R.; Neumann, S.

1:40 - 3:00 p.m. Concurrent Technical Sessions

Room Audimax

- 1:40 p.m. Deep heat mining by HDR/EGS technology
Rummel, F.
- 2:00 p.m. Catalogues, Product Data Sheets and Manuals: Tools to select instruments?
Pezzetti, G.
- 2:20 p.m. On-line sources of information about geotechnical Instrumentation
Dunncliff, J.
- 2:40 p.m. On the influence of casing and backfilling materials on inclinometer tests
Alber, M.; Plinninger, R.; Düllmann, J.

3:00 - 3:30 p.m. Refreshment Break in the Exhibit Hall

Room Kinosaal

- Comparison of wireless signal transmission and seismic tomography for monitoring radioactive waste repositories
Spillmann, T.; Rösl, U.; Parsons, S.; Blechschmidt, I.; Marelli, S.; Maurer, H.; Manukyan, E.; Breen, B.; León, V. M.; Bárcena, I.
- Preceding instrumentation for testing installation and handling of extensometers in real conditions
Fischle, W.; Kurokawa, F.; Eilers, G.
- Mine by experiments in order to study the hydromechanical behavior of the Callovo-oxfordien clay stone at the Meuse Haute-Marne underground research laboratory (France)
Noiret, A.; Armand, G.; Cruchaudet, M.; Conil, N.
- Results of stress and strain measurements in a barrier made of salt concrete
Manthee, F.; Fischle, W.; Paehge, W.; Rathke, C.; Mauke, R.

3:30 - 4:50 p.m. Concurrent Technical Sessions

Room Audimax

- 3:30 p.m. From site instrumentation to reversed stability analysis
Záleský, J.; Kos, J.; Kozel, M.; Záleský, M.
- 3:50 p.m. Ground and building movements during predrilling activities
Korff, M.; de Nijs, R.; Kimenai, J.
- 4:10 p.m. MEMS Digital inclinometer probe interchangeability
Tigani, B.; Rongo, R.
- 4:30 p.m.

Room Kinosaal

- Innovative TDR-techniques for capturing the water saturation process of the engineered barriers and host rocks in the framework of nuclear waste repository design experiments
Wörsching, H.; Trick, T.; Gaus, I.; Rüedi, J.; Schlaeger, S.
- In-situ rock stress measurement using downward compact conical-ended borehole overcoring technique
Sakaguchi, K.; Kizaki, A.; Matsuki, K.
- Pore water pressure effects in clay due to unloading - long-term measurements, change of soil fabric and application
Schulze, R.
- Monitoring challenges and opportunities associated with major construction programme slippages
Cook, D. K.; Kleinlugtenbelt, R.; Baaten, R.

6:00 p.m. City Boat Cruise

Tours

Tuesday, September 13, 2011 | 7:00 p.m.

Discover Berlin with Berlin Trails Classic Tour: an individual, exciting Berlin Sightseeing tour of about 3hrs by Bus – guided by real “Berliners” who know and love their city. A perfect combination of Berlin sightseeing and insider information and stories. Our tour will take us along the historical paths of the city center, and we will visit places such as: East Side Gallery, Unter den Linden, Museum Island, Government district, Reichstag, Brandenburg Gate, Bellevue Castle, Column of Victory, Kurfürstendamm, Holocaust Memorial, Potsdamer Platz, Topographie of Terror, the remains of the Berlin Wall, Hitler’s Bunker, Checkpoint Charlie and much more. Individual photo & toilet stops included.

http://www.berlin-trails.com/wp-content/uploads/Berlin_Free_Pocketguide_ENG.pdf

20,- Euro

Thursday, September 15, 2011 | 6:30 p.m.

Spree River Cruises with dining onboard: not only from the river banks and bridges you have wonderful views to the city. In any case you have the best view from the water - during a cruise on the river Spree. We will branch off at 'Märkisches Ufer'. The tour leads us to the Berlin Cathedral, the Museum Island and straight into the new Berlin with all its government buildings and the main station. The ship continues its route to the Hanseatic District and the Tiergarten, where we pass the industrial architecture of Moabit. Then we will return and see the historic port, the Mühlendamm and the famous Nikolai District.

20,- Euro

Friday, September 16, 2011 | 7:00 a.m. – 8:00 p.m. (Hamburg)
9:00 a.m. – 3:00 p.m. (Potsdam)

Technical Tour to HafenCity Hamburg

The bus starts at 7:00 a.m. in front of the congress building to take us to Europe’s biggest inner-city development project. HafenCity covers an area of 157 hectares, making it one of the most prominent inner-city waterfront development projects in the world. Based on a new concept for urban living, it will increase the size of Hamburg City by 40 percent (Hamburg has a population of approx. 1.78 million, the Hamburg Metropolitan Region 4.3 million). Between the historic Speicherstadt-warehouse district and the River Elbe a new city with a cosmopolitan mix of homes, service businesses, culture, leisure, tourism and commerce is emerging. Structures typical of a port will be retained. We will visit the construction site of the new metro U4 with all its measurements and after a typically harbor lunch with lots of fish we will have an English guided tour through the beautiful Hamburg. At 8:00 p.m. we will be back at our starting point.

OR

100,- Euro

Cultural Tour Potsdam & Sanssouci

The bus starts at 9:00 a.m. in front of the congress building to take us to a relaxing and harmonious journey through cultural, art- and architectural time through Potsdam. You can see among other sights of the historic sections of the city, the Russian Colony "Alexandrowka" and the Dutch Quarter (Holländisches Viertel). Enjoy a walk through marvellous gardens of Sanssouci and see the famous sights like Sanssouci Palace, New Palace, Palace New Chambers, Historic Windmill, Charlottenhof Palace, the Roman Baths, the Orangery Palace and more with an English guide. Take the opportunity to visit one of the Palaces in Sanssouci gardens. After this we have a great lunch at the 'Meierei Potsdam' included a traditional German 'Hausmacherplatte' (cheese & sausages) and you can try some of the well known 'Berliner Bier'. At 3:00 p.m. we will be back at our starting point.

50,- Euro

Please register online at

www.FMGM2011.org

or

at the registration desk!

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Exhibition

Exhibit Hall Hours:

Monday, September 12, 2011	08:30 p.m. – 6:30 p.m.
Tuesday, September 13, 2011	08:30 a.m. – 6:30 p.m.
Wednesday, September 14, 2011	08:00 a.m. – 7:00 p.m.
Thursday, September 15, 2011	08:00 a.m. – 4:30 p.m.

Gold Level



Silver Level



Bronze Level

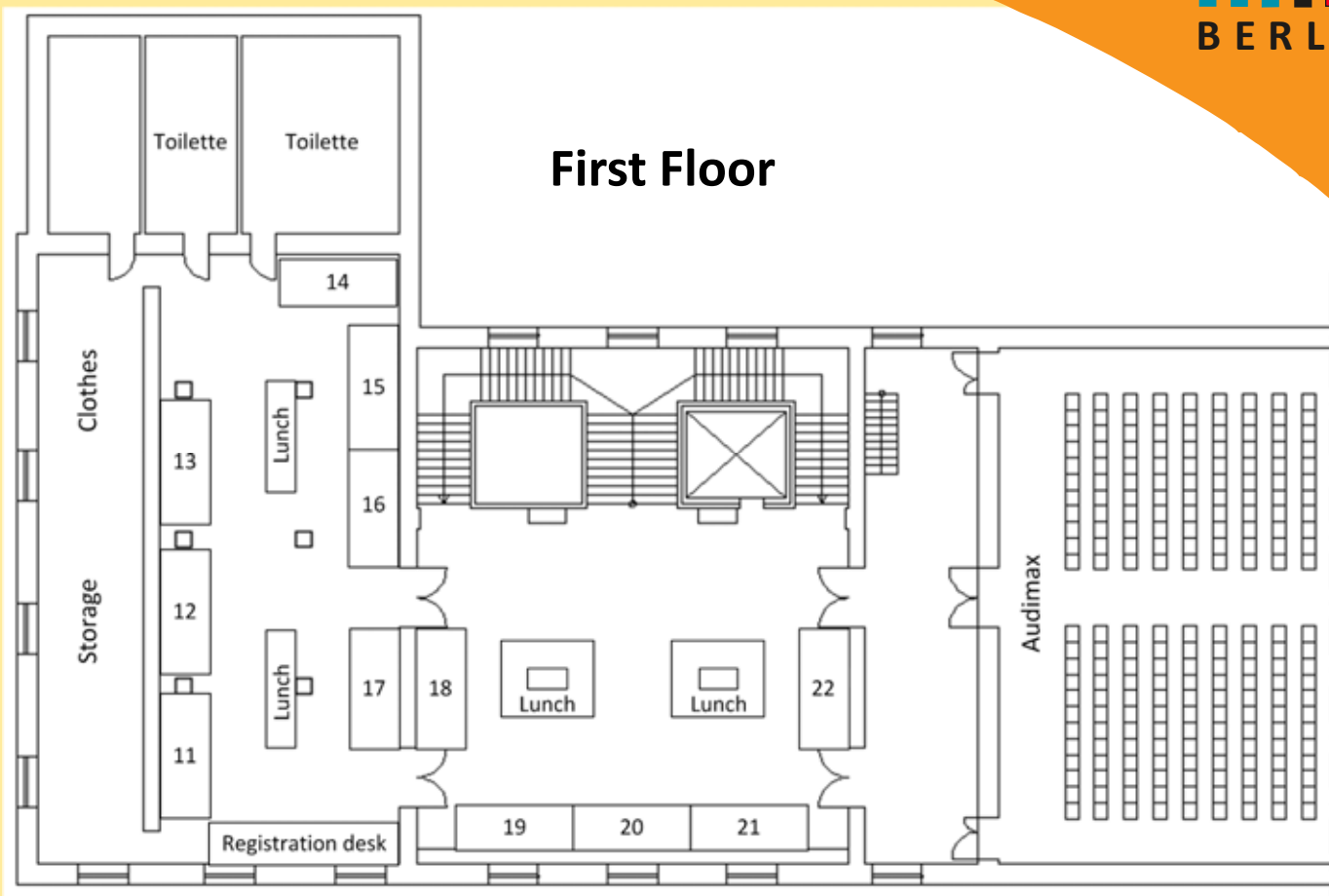
Bauer	Durham Geo Slope Indicator
Encardio Rite	fibris Terre
Geokon, Inc.	GeoInstrumentation
Geosense	Measurand, Inc.
RST Instruments Ltd.	Soldata
Terrasense	Vista Engineering

Non exhibitor

tecsis

Exhibition Floorplan

First Floor

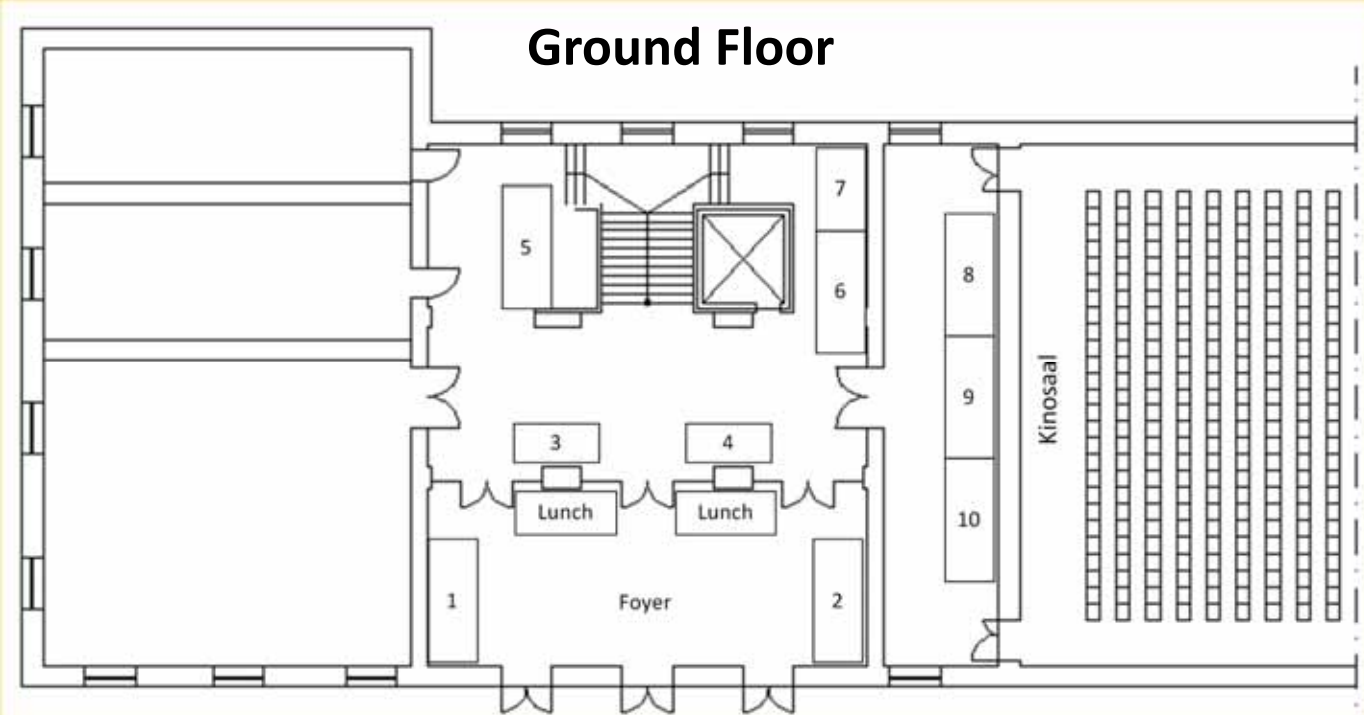


11 Measurand, Inc.
14 Geokon
17 Cautus Geo
20 Glötl

12 Geodata
15 TenCate Geodetect
18 Solexperts
21 Sisgeo, Field

13 CSG Geotechnical Monitoring
16 InstanTel
19 itmsoil
22 GeTec

Ground Floor



1 Soldata
4 GeoInstrumentation
7 fibris terre
10 Geosense

2 Bauer
5 Encardio Rite
8 RST Instruments

3 Terrasense
6 Durham Geo Slope Indicator
9 Vista Engineering

FMGM



B E R L I N

