General view on the complex of buildings of the Faculty of Civil Engineering BUT, Brno

Invitation to

20th European Young Geotechnical Engineers Conference

The Czech and Slovak Committee of the ISSMGE and Organising Committee have the pleasure of inviting you to Brno, Czech Republic where the 20th European Young Geotechnical Engineers Conference will be held from

May 30, to June 1, 2010

Conference Advisory Committee
Ivan Vaníček       Vice-President ISSMGE for Europe, Conference advisor
Kamila Weiglová
Jana Frankovská    Chairwoman of the Czech and Slovak Committee of ISSMGE
Věra Glisníková

**Conference Organising Committee**
Ivan Vaníček  
Věra Glisníková  
Jiří Boštík  
Kamila Weiglová  
Alexandra Erbenová  
Lumír Miča  
Pavel Pospíšil  
Václav Račanský  
All Department of Geotechnics, Faculty of Civil Engineering, BUT

**Conference Venue**
The 20th European Young Geotechnical Engineers Conference will be held at the Faculty of Civil Engineering, Brno University of Technology, Brno, Czech Republic.

Brno University of Technology is the second largest and second oldest technical university in the Czech Republic. Its history goes back to 1849; the Faculty of Civil Engineering is 110 years old and has been significantly refurbished in recent years. For more details, see [http://www.fce.vutbr.cz/](http://www.fce.vutbr.cz/).

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Czech Republic

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[bostik.j@fce.vutbr.cz](mailto:bostik.j@fce.vutbr.cz)
Programme of EYGEC Conference

Sunday 30th May 2010

Arrival, accommodation.

14:00 – 16:00 Conference registration at the Hotel Palacký
16:00 Sightseeing Brno, meeting point Hotel Palacký
18:00 Dinner for all EYGEC delegates in town
   (Restaurant “Špalíček”, Zelný trh 12)

Monday 31st May 2010

08:00 – 09:00 Conference registration at the Faculty of Civil Engineering, auditorium D182

09:00 – 09:30 Opening Ceremony
   Ivan VANÍČEK – Vice-President ISSMGE for Europe
   Rostislav DROCHYTKA – Dean of Faculty of Civil Engineering, Brno University of Technology

09:30 – 10:00 Keynote lecture: “How to do research“
   John ATKINSON – Emeritus Professor of Soil Mechanics, City University London

10:00 – 11:00 Lectures

<table>
<thead>
<tr>
<th>Session 1:</th>
<th>Ground Investigation</th>
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<td>Chairman:</td>
<td>John ATKINSON</td>
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Nanna Vesterlund Frandsen: Philosophy of site investigations for an offshore wind farm

Sergii Kurash: Soil sinkholes in conditions of compact city planning

Katarzyna Stefaniak: The constrained modulus of varved clay from in-situ tests
Session 2: Geomechanics
Chairman: John ATKINSON

Marzena Lendo-Siwicka: Volume change of Warsaw clay due to deep excavation
Laure F. C. Wils: Stiffness of calcareous sands under cyclic loading
Ibrahim Yigit: Influence of duration of anisotropic loading in terms of clay fabric

11:00 – 11:15 Coffee break

11:15 – 13:00 Lectures

João Santos Pina: The behaviour under excavation of the Luanda's sandy formation: case studies
Rasmus Klinkvort: Centrifuge modelling of monopiles
Benoit Meulewaeter: Application of the observational method for both final and temporary complex slopes design. Case study Bioko 3 Bridges
Zsolt Szilvágyi: New development in geotechnical numerical calculations
Florent Prunier: Modelling material instabilities in geomechanics. Application to landslides
Benjamin Charbit: Numerical analysis of laterally loaded lime/cement columns
Muge Balkaya: Comparison of the results of 3D FEA with analytical solutions for a buried PVC with water distribution pipe
Olga-Joan Ktenidou: Numerical investigation of site effects at Aegion, Greece
Mirko Petković: Experience in using increx system for axial deformation measurements
Dominik Hauswirth: Development of a fibre optic strain sensor for soil displacement monitoring
Raffaele di Laora: Phase lag between kinematic and inertial interaction

13:00 – 14:00 Lunch

14:00 – 14:30 Walk round the Faculty of Civil Engineering


15:20 – 16:00  **Lectures**

<table>
<thead>
<tr>
<th>Session 3: Geotechnics – Foundation Engineering</th>
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<td>Chairman: Susanne LACASSE</td>
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</tbody>
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Arne T. Eigeland: *New head office for DnB-NOR in Bjørvika, Oslo, Norway*  
*Foundation on drilled steel pipe piles*

Asuencei Vlad: *Influence of hydrostatic level variation on the foundations of civil engineering works in Moinesti town area, Moldavia region, Romania*

Yuri Gotman: *Variant design of using the jet-grouting technology for reduction the settlements of the existing buildings while construction an underground complex in Moscow*

Paul Doherty: *The impact of end condition on pile resistance in clay*

16:00 – 16:15  **Coffee break**

16:15 – 17:25  **Lectures**

Johann Brückl: *Pile integrity testing effected by concrete age*

Ján Pivarč: *Stone columns - design methods*

Malek Allani: *Non axial effects in dynamic pile testing: pile vibration analysis using Timoshenko beam theory*

Ellen Katrine Wensaas Lied: *A study of time effects on pile capacity*

Dirk-Jan Jaspers Focks: *Quay wall design under seismic conditions in Filyos, Turkey*
Dimitros Karamitros: *Simplified methodology for the performance-based design of shallow foundations on liquefiable soil with a clay crust*

Paul J. Vardanega: *Design methods for piles: dealing with uncertainty*

19:00 Dinner with live dulcimer music for all EYGEC participants

**Tuesday 1st June 2010**

09:00 – 09:30 Keynote lecture: “ISSMGE, research, and education“
Jean - Louis BRIAUD – President of ISSMGE, Texas A&M University, USA

09:30 – 10:45 Lectures

<table>
<thead>
<tr>
<th>Session 3:</th>
<th>Geotechnics – Earth Structures</th>
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<td>Chairman:</td>
<td>Jean - Louis BRIAUD</td>
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Alexander Rohe: *Stability analysis of dikes with reinforcing structures using finite element calculations*

Zoran Jovanov: *Repair of damaged building and road near dam*

Ville J. Lehtonen: *Instrumentation and analysis of a full-scale railway embankment failure experiment*

Germain Auray: *Construction of a motorway section on potential sinkholes: reinforcement with an original very high tensile strength geogrid*

Dorin Vasile Moldovan: *Designing reinforced soil slopes and retaining walls with geosynthetics*

Zoran Berisavljevic: *Problems in predicting the behaviour of the road embankment built on a soft soil*

José Sánchez Martín: *Reinforcing soil in front of the toe of a diaphragm wall with jet-grouting*

10:45 – 11:00 Coffee break
11:00 – 12:30  Lectures

Jude M. Clancy: *Analysis of pullout resistance of a novel multifunctional geosynthetics in a fine grained marginal fill*

Sebastian Althoff: *Contribution to use multi-stage large shear-frame tests to investigate the interaction- behaviour between geosynthetics and cohesive soil*

Gregor Supp: *Spinanchor - a new constructional element*

Kevin Briggs: *Charing embankment: climate change impacts on embankment hydrology*

Ignasi Aliguer: *Canelles dam left abutment stability analysis*

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Session 3:  Geotechnics – Environmental Geotechnics  
Chairman:  Ivan VANÍČEK

Marcus Fuchsschwanz: *Geotechnical aspects for the design of waste rock dumps from coal mining in Vietnam*

Jan Valenta: *Problems with highly loaded foundation slab of building situated on abandoned fly ash tail basin*

12:30 – 13:30  Lunch

13:30 – 14:05  Keynote lecture: “Modern foundation technologies”  
Jiří MŰHL – Technical director of Foundation engineering, Inc. and Jan ŠPERGER

14:05 – 14:45  Lectures

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Session 3:  Geotechnics – Underground Structures  
Chairman:  Ivan VANÍČEK

Jiří Boštík: *Experimental analysis of parallel tunnels*

Tomáš Svoboda: *Simulations of a NATM tunnel in a stiff clay using hypoplastic model*
Maxim Tupikov: *Prediction of deformation of surfaces and buildings due to shallow service tunnels construction*

Primož Jelušič: *Deformation analysis of LRC underground gas – storage*

15:00 – 17:00  **Technical excursion** – construction of city road tunnels in Brno, meeting point car park in front of Faculty of Civil Engineering

**Note:**
- Each participant will make a Power point presentation lasting **8 minutes** with **2 minutes** of discussion. We kindly ask participants to submit their presentation at the registration desk.
- Organizers reserve the right to change the conference programme.

The proceedings also includes the following papers:
Valeria Bandini: *Modelling of seismic-induced deformations in slopes: multi-block analysis vs shaking table tests*

Elona Goxhaj: *Bearing capacity of shallow foundations*

Xhevahir Aliu: *Some aspects during design of one bridge abutment*

Late afternoon – transportation to Bratislava for participants wishing to join the Danube-European Conference ISSMGE in Bratislava – Slovak Republic, see [www.decge2010.sk](http://www.decge2010.sk).

**Information about the city of Brno**
Brno is the second largest city of the Czech Republic and has a population of nearly 370,000 people. It lies at the central part of Europe and within its two hundred-kilometre radius there are other important European capitals including Prague, Vienna and Bratislava. The international airport in Brno serves regular flights.


**Currency**
The official currency in the Czech Republic is Czech crown (CZK).
1 EUR = 25 CZK
Accommodation
Accommodation of hotel quality is booked in twin-bedded rooms at the Hotel Palacký ***. Address of the Hotel Palacký:
    Kolejní 2
    612 00 Brno
For further information about the Hotel Palacký see

Note: Check in time: 14:00
     Check out time: 10:00
USEFUL INFORMATION

How to get to Brno
Brno is easily accessible by plane, train and by car.

By plane
Brno international airport is situated 7.5km from the centre of the city. However, there is only limited connection to other European cities and other international airports in Prague, Vienna and Bratislava can be considered as these have very good direct transport links to Brno by train or bus.

By train or by bus
There is a direct connection with many European capitals; e.g. with Prague, Bratislava, Berlin, Vienna, Budapest, Bucharest.

By car
Brno is situated at the crossroads of the D1 (Prague - Brno) and D2 (Brno - Bratislava) motorways. Both these motorways form part of the trans-European East-West highways (France - Ukraine: E50) and North-South (Scandinavia - Balkans: E55, E65).

How to get to Hotel Palacký by public transport
Accommodation of hotel quality has been booked in twin-bedded rooms at the Hotel Palacký ***. Hotel Palacký is close the “Kolejní” stop.

Address of the Hotel Palacký:
Kolejní 2
612 00 Brno

From Main train station (“Hlavní nádraží”) to Hotel Palacký
Take tram No. 13 (direction “Technologický park”) and go to the “Skácelova” stop. Then change to bus No. 53 and go to “Kolejní” stop (the 5th stop). It takes about 30 minutes.

From Airport Brno Tuřany (http://www.airport-brno.cz/index.php?id=0&lang=en) to Hotel Palacký
Take bus No. 76 and go to the ending stop (“Hlavní nádraží” stop). Then change to tram No. 13 and continue as mentioned above. It takes about 60 minutes.

How to get from Hotel Palacký to Faculty of Civil Engineering by public transport
Take bus No. 53 and go to the “Technologický park” stop (the 2nd stop). Then change to tram No. 13 and go to the “Nerudova” stop. Faculty of Civil Engineering is near the “Nerudova” stop: Veveří street 95. It takes about 20 minutes.

For more information on public transport see http://www.dpmb.cz/e41.asp.

How to get to Bratislava
The EYGEC Conference Organising Committee will not organise transport to Bratislava on June 1. However the connection between these two cities is very easy by bus or train; the distance is only about 150 km.

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<tr>
<th>Train connection</th>
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<td><strong>Train</strong></td>
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*Note: without guarantee*

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