

Czech and Slovak
National Committee
ISSMGE



Brno University of
Technology
Faculty of Civil
Engineering



International
Society
for Soil Mechanics
and Geotechnical
Engineering

BULLETIN No.3



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 Vice-President ISSMGE for Europe

Věra Glisníková Chairwoman

Jiří Boštík Secretary

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/>.

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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**

Session 1:	Ground Investigation
Chairman:	John ATKINSON

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

14:30 – 14:50 **Keynote lecture: “The removal of rocky environment and groundwater contamination – GEOtest Brno case studies”**
Miloš POLENKA – GEOtest Brno, Inc.

14:50 – 15:20 **Keynote lecture: “The Role of the Geotechnics in the Supply of Future Energy”**
Susanne LACASSE – Director of NGI and chairwoman of ISSMGE Technical Oversight Committee

15:20 – 16:00 **Lectures**

Session 3:	Geotechnics – Foundation Engineering
Chairman:	Susanne LACASSE

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**

Session 3: Geotechnics – Earth Structures
Chairman: Jean - Louis BRIAUD

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*

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 MÚHL – Technical director of Foundation engineering, Inc.
and Jan ŠPERGER

14:05 – 14:45 **Lectures**

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.

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.

For more information see <http://www.brno.cz/>.

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

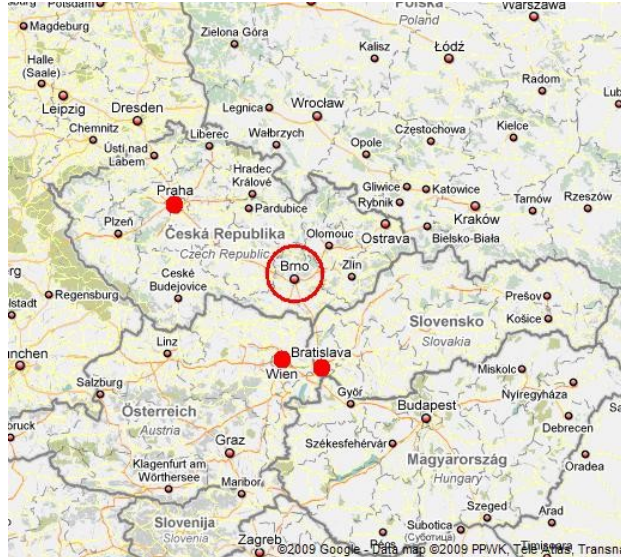
<http://www.hotel-palacky.cz/en/index.aspx>.

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

For further information about the Hotel Palacký see

<http://www.hotel-palacky.cz/en/index.aspx>.

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: Veverčí 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.

Train connection

Train	Departure - Brno Main train station (“Hlavní nádraží”)	Arrival – Bratislava Main train station (“Hlavná stanica”)
EC 175 Jan Jesenius	6:24 p.m.	7:51 p.m.
EC 177 Johannes Brahms	8:24 p.m.	10:02 p.m.

Note: without guarantee

Bus connection

Bus	Departure – Brno Hotel Grand, Benešova street	Departure –Brno Bus station “Zvonařka”	Arrival - Bratislava
000008 1	-	5:45 p.m.	7:30 p.m.
000038 3	6:30 p.m.	-	8:15 p.m.
000407 5	8:30 p.m.	-	10:00 p.m.

Note: without guarantee