



Romanian Society for Geotechnical and Foundation Engineering
Technical University of Civil Engineering Bucharest
International Society for Soil Mechanics and Geotechnical Engineering

25th European Young Geotechnical Engineers Conference

21-24 June 2016, Sibiu, Romania

FINAL PROGRAMME & USEFUL INFORMATIONS





25th European Young Geotechnical Engineers Conference

21st – 24th of June 2016, Sibiu, Romania

ORGANIZING COMMITTEE

Ernest OLINIC – Conference Chairperson
Technical University of Civil Engineering Bucharest

Nicoleta – Maria ILIES
Technical University of Cluj – Napoca

Iancu – Bogdan TEODORU
“Gh. Asachi” Technical University of Iasi

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Technical University of Civil Engineering Bucharest

Catalin BURLACU
Technical University of Civil Engineering Bucharest

SCIENTIFIC COMMITTEE

Sanda MANEA –Chairperson
Technical University of Civil Engineering Bucharest

Ernest OLINIC – Conference Chairperson
Technical University of Civil Engineering Bucharest

Loretta BATALI
Technical University of Civil Engineering Bucharest

Nicoleta – Maria ILIES
Technical University of Cluj – Napoca

Irina LUNGU
“Gh. Asachi” Technical University of Iasi

Luiza ROMAN
“Politehnica” University of Timisoara

SPONSORS



ZÜBLIN

Welcome

It is a great honor and pleasure to welcome you at the 25th European Young Geotechnical Engineers Conference.

The conference is organized by the Romanian Society for Geotechnical and Foundation Engineering with the support of the Technical University of Civil Engineering Bucharest, Department of Geotechnical and Foundation Engineering under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering.

The organizers are very grateful for the financial support offered by ISSMGE, Keller, Soletanche Bachy, Huesker, Zublin.

Proud to be GEOTECHNICAL ENGINEER is not only the motto of the conference, is the expression of a future career, full of challenges and also achievements.

I wish you a successful and productive conference and a pleasant stay in the beautiful city of Sibiu.

Ernest OLINIC

Conference Chair

Conference venue

The conference is organized at Hotel Ibis, in the very center of Sibiu, also known as Hermannstadt, a beautiful old city from Transylvania.



Day 1 – Tuesday, 21 June 2016

- 16:00 – 18:30** **REGISTRATION** at IBIS Hotel
- 18:30 – 20:30** **WELCOME RECEPTION** at IBIS Hotel

Day 2 – Wednesday, 22 June 2016

- 08:00 – 08:30** **REGISTRATION** at IBIS Hotel Conference Hall
- 08:30 – 09:00** **OPENING CEREMONY**

SESSION 1 - In-situ and laboratory tests

Chairperson: Antonio GENS – ISSMGE Vice-President for Europe

Keynote lecture: General presentation of Eurocode 7 on Geotechnical design
Roger FRANK – ISSMGE President, École nationale des ponts et chaussées

Permanent strain behavior of cyclically loaded cohesive soil in undrained conditions
Andrzej GŁUCHOWSKI

Geotechnical Characterization of Very Soft Deep-Sea Sediments by In-Situ Penetrometer Testing

- 09:00 – 11:00** **Bert LIETAERT, Francois CHARLET, Peter STAELENS**

Determination of characteristic values of geotechnical parameters
Monica LÖFMAN

Evaluation of ground deformation modulus definition by in situ and laboratory test methods
Sergii POKLONSKYI

Geotechnical investigation for determination of causes for occurred deformations of the Skopje Aqueduct

Borche RUMENOVSKI, Katerina TASEVSKA, Bojan JAKIMOVSKI, Teodor DIMITRIEVSKI

- 11:00 – 11:30** **COFFEE BREAK**

SESSION 2 - Researches in geotechnical engineering

Chairperson: Sanda MANEA – RoSGFE President

Keynote lecture: Difficult foundation conditions in Romania
Ernest OLINIC, Technical University of Civil Engineering Bucharest

Settlements of Foundations in Rock Fill due to Cyclic Loading and Creep Effects
Madeleine BRANDT, Terje STRØMME

- 11:30 – 13:00** Discussion on selected results obtained for fine grained soil treated with fly ash
Karolina KNAPIK

Barrettes under negative friction of soil surrounding
Iryna MIESHKOVA

Engineering geological investigation of a cave spa cut into rhyolite tuff
Ádám VINCZE, Péter GÖRÖG

Continuous Horizontal Reinforcement Diaphragm Wall Application
Nejla YILDIZ, Alp GÖKALP

13:00 – 14:00 | **LUNCH** at IBIS Hotel

SESSION 3 - Underground structures
Chairperson: Nicoleta ILIES

Invited lecture: SOLETANCHE BACHY Romania
Cristian RADU

Dual cell shaft for a 19.5m deep excavation. Design, execution and monitoring
Cristian RADU

Energy walls for an underground car park
Alice DI DONNA

14:00 – 16:00 | Use of the Hardening Soil Model for urban tunnels design
Nicolas GILLERON

Investigations on energy sheet pile walls for the exploitation of renewable thermal energy
David KOPPMANN

Wallslotrobot: a new method of deep braced excavation in compact spaces
Sahin MONSEREZ

Eurasia Tunnel Project: The Geotechnical Challenges of the Asian Transition Box
Alexis ROSE

Back-analysis of a deep excavation in Budapest
Attila SZEPESHÁZI

16:00 – 16:30 | **COFFEE BREAK**

SESSION 4 - Retaining structures
Chairperson: Mario Manassero

Invited lecture: Staggered anchors - Züblin Romania performs step anchors in Romania
ZUBLIN

Design of Retaining Walls at Metro Nordhavn, Copenhagen
Asbjørn M. DAM

16:30 – 18:00 | Eurocode 7 based retaining wall design in Finland – shortcomings in current method
Mika KNUUTI

Reliability-based assessment of a retaining wall using FEM
Katerina RIPPI, Ana TEIXEIRA

Dry Dock at the Merwede River Banks
Leon SCHADEE

Design of the Temporary Cofferdam and Permanent Intake Channel for the Dublin Waste to Energy Facility
Brian G. SEXTON

19:30 – 22:00 | **DINNER** at Restaurant La Dobrun

Day 3 – Thursday, 23 June 2016

SESSION 5 - Numerical/physical modelling
Chairperson: Roger FRANK – ISSMGE President

Keynote lecture: Modern Design of Landfill Liners

Mario MANASSERO, Politecnico di Torino

Investigation of the influence of gravity on granular flow using silo centrifuge model

Olja BARBIR, John MATHEWS

Selected geotechnical applications of deformation sensing by fibre optics and problems with gathered data evaluation

09:00 – 11:00 **Kristýna ČÁPOVÁ**

Finite Deformation Modelling of Cyclic Sand Behaviour using Bounding Surface Plasticity
Christian CAROW

Finite element limit analysis of offshore mudmat foundations subject to combined loads

Helen P. DUNNE

Jack-up vessel foundation stability during installation next to a Wind Turbine Generator

Carlos MOLINA, Lindita KELLEZI

Numerical analysis of penetration problems in clay with the Particle Finite Element Method

Lluís MONFORTE

Modelling Spudcan penetration using Abaqus CEL method

Aleksander WORREN

11:00 – 11:30 **COFFEE BREAK**

SESSION 6 - Slope stability and landslides

Chairperson: Irina LUNGU

Invited lecture: Lessons from the failure of a tailings dam

Antonio GENS – ISSMGE Vice-President for Europe, Universitat Politecnica de Catalunya

Stabilization of railway landslide with bored pile retaining wall

Marko BISCAN, Goran DIZDAR

Methodology for preparation of thematic geotechnical maps for urbanization purposes

11:30 – 13:00 **Natasha NEDELKOVSKA**

Experimental and numerical models in landslide behaviour

Ferran PARERA

Combined geotechnical and structural numerical analysis for cut slope stabilization

Katerina LAKOČEVIĆ, **Mario STOJANOVSKI**

Erosion of cuts in flysch: field monitoring by TLS and modelling of slope geometry development

Goran VLASTELICA

13:00 – 14:00 **LUNCH** at IBIS Hotel

SESSION 7 - Soil dynamics
Chairperson: Iacint MANOLIU

Invited lecture: Influence of Soil Improvement on Seismic Ground Response
Laurentiu FLOROIU- KELLER

4D seismic and velocity evolution in monitoring heated heavy oil sand reservoirs
Hong DOAN

Cohesive soil laboratory investigation using resonant column and torsional shear device
Alexandra Alisa GĂINĂ

14:00 – 16:00 Combined analysis of single station ambient vibration measurements and MASW method
Fátima GOUVEIA, Isabel LOPES, Rui Carrilho GOMES

The influence of dynamic loads on postglacial lacustrine fine-grained deposits
Michael HAVINGA

Prevention of soil liquefaction using stone columns
Jamal HLEIBIEH

Application of Offshore Seismic CPT data for Soil Stiffness Interpretation
Olsi KORETA, Lindita KELLEZI

Numerical analyses of the performance of seismically isolating buried barriers
Valeria NAPPA

16:00 – 16:30 **COFFEE BREAK**

SESSION 8 - Geosynthetics
Chairperson: Loretta BATALI

Invited lecture: An overview of pioneering projects with geosynthetic reinforcement over 20 years

Dimiter ALEXIEW - HUESKER

Swelling ability, volume of cracks and hydraulic conductivity of a polymer modified bentonite subjected to wet and dry cycles

Michela DE CAMILLIS

16:30 – 17:30 Physical and numerical modeling of an unpaved road structure liable to void forming. The effect of a biaxial geosynthetic reinforcement
Andor-Csongor NAGY, Dorin Vasile MOLDOVAN

Influence of prehydration condition on the hydraulic conductivity of GCLs permeated with landfill leachates

Tuğçe ÖZDAMAR KUL, Havva DEMİRKIRAN

Geotextile encased columns – verification of the analytical design method
Katarina SIRK, Boštjan PULKO

17:30 – 18:00 **CLOSING CEREMONY**

19:30 – 22:00 **DINNER** at Restaurant Han Tulgheş

Day 4 – Tuesday, 24 June 2016

09:00 – 12:00 **TECHNICAL VISIT**

12:00 – 13:00 **LUNCH**

PROGRAMME OVERVIEW

Tuesday, 21.06.2016 Wednesday, 22.06.2016 Thursday, 23.06.2016 Friday, 24.06.2016

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OPENING CEREMONY		
Session 1. In-situ and laboratory tests KEYNOTE LECTURE Roger FRANK 5 presentations	Session 5. Numerical/physical modelling KEYNOTE LECTURE Mario MANASSERO 7 presentations	Technical visit
COFFEE BREAK	COFFEE BREAK	
Session 2. Researches in geotechnical engineering KEYNOTE LECTURE Ernest OLINIC 5 presentations	Session 6. Slope stability and landslides KEYNOTE LECTURE Antonio GENS 5 presentations	
LUNCH	LUNCH	LUNCH
Session 3. Underground structures INVITED LECTURE SOLETANCHE BACHY 7 presentations	Session 7. Soil dynamics INVITED LECTURE KELLER 7 presentations	Sibiu Airport
COFFEE BREAK	COFFEE BREAK	Bucharest Airport
Session 4. Retaining structures INVITED LECTURE ZUBLIN 5 presentations	Session 8. Geosynthetics INVITED LECTURE HUESKER 4 presentations	
CLOSING CEREMONY		
Registration IBIS		
Welcome Reception IBIS	Dinner LA DOBRUN	Conference dinner HAN TULGHES

