25th European Young Geotechnical Engineers Conference

21-24 June 2016, Sibiu, Romania

FINAL PROGRAMME & USEFUL INFORMATIONS
ORGANIZING COMMITTEE

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Technical University of Cluj – Napoca

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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
Bert LIETAERT, Francois CHARLET, Peter STAELENS

09:00 – 11:00

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

Discussion on selected results obtained for fine grained soil treated with fly ash
Karolina KNAPIK

11:30 – 13:00

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
### 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
  Use of the Hardening Soil Model for urban tunnels design
  Nicolas GILLERON

#### 14:00 – 16:00

- 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 SZEPEHÁZI

### 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

- Eurocode 7 based retaining wall design in Finland – shortcomings in current method
  Mika KNUUTI

#### 16:30 – 18:00

- 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
## SESSION 5 - Numerical/physical modelling

**Chairperson:** Roger FRANK – ISSMGE President

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>09:00 – 11:00</td>
<td>Keynote lecture: Modern Design of Landfill Liners Mario MANASSERO, Politecnico di Torino</td>
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<td>Investigation of the influence of gravity on granular flow using silo centrifuge model Olja BARBIR, John MATHEWS</td>
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<td>Selected geotechnical applications of deformation sensing by fibre optics and problems with gathered data evaluation Kristýna ČÁPOVÁ</td>
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<td>11:00 – 11:30</td>
<td>COFFEE BREAK</td>
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<td>11:30 – 13:00</td>
<td>Invited lecture: Lessons from the failure of a tailings dam Antonio GENS – ISSMGE Vice-President for Europe, Universitat Politecnica de Catalunya</td>
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<td>Stabilization of railway landslide with bored pile retaining wall Marko BISCAN, Goran DIZDAR</td>
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<td>Methodology for preparation of thematic geotechnical maps for urbanization purposes Natasha NEDELKOVSKA</td>
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<td>13:00 – 14:00</td>
<td>LUNCH at IBIS Hotel</td>
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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

Combined analysis of single station ambient vibration measurements and MASW method
Fátima GOUGEIA, 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 HLEBIEH

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

14:00 – 16:00 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

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 DEMİRKİRAN

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

16:30 – 17:30 CLOSING CEREMONY

17:30 – 18:00 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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1. In-situ and laboratory tests</th>
<th>Session 5. Numerical/physical modelling</th>
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<tr>
<td>8:00</td>
<td>Opening Ceremony</td>
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<td>8:30</td>
<td>Keynote lecture</td>
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<td>9:00</td>
<td>Roger Frank</td>
<td>Mario Manassero</td>
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<td>9:30</td>
<td>5 presentations</td>
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<td>Session 2. Researches in geotechnical engineering</td>
<td>Session 6. Slope stability and landslides</td>
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<td>Keynote lecture</td>
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<td>Ernest Olinc</td>
<td>Antonio Gens</td>
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<td>Session 3. Underground structures</td>
<td>Session 7. Soil dynamics</td>
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<td>Soletanche Bachy</td>
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**Technical visit**

- Sibiu Airport
- Bucharest Airport

**Invited Lectures**

- Session 1: Roger Frank  
- Session 5: Mario Manassero  
- Session 2: Ernest Olinc  
- Session 6: Antonio Gens  
- Session 3: Soletanche Bachy  
- Session 7: Kellner  
- Session 4: Züblin  
- Session 8: Huesker

**Sessions**

- Session 1: In-situ and laboratory tests  
- Session 2: Researches in geotechnical engineering  
- Session 3: Underground structures  
- Session 4: Retaining structures  
- Session 5: Numerical/physical modelling  
- Session 6: Slope stability and landslides  
- Session 7: Soil dynamics  
- Session 8: Geosynthetics

**Technical Visit**

- Sibiu Airport
- Bucharest Airport

**Keynote Lectures**

- Roger Frank  
- Mario Manassero  
- Antonio Gens  
- Kellner  
- Züblin  
- Huesker  
- Antonio Gens  
- Ernest Olinc  
- Antonio Gens  
- Kellner

**Lunch**

- Session 3: Lunch  
- Session 4: Lunch  
- Session 5: Lunch  
- Session 6: Lunch  
- Session 7: Lunch  
- Session 8: Lunch  

**Conference Dinner**

- Han Tulghes  
- Huesker

**Dinner**

- La Dobrun  
- IBIS  

**Conference Dinner**

- Conference dinner  
- Han Tulghes  
- IBIS  

**Closing Ceremony**

- IBIS