

**Thursday, 8.06.2023**

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| 8:00 - 8:30   | Registration  |
| 8:30 - 9:00   | <b>Opening</b><br><b>Chairs:</b> Loretta Batali, Sanda Manea<br>Representatives SRGF, ISSMGE, UTCB, MDLPA and messages from partner associations  |
| 9:00 - 9:40   | <b>Keynote lecture</b><br><b>Chair:</b> Loretta Batali<br>Lyesse Laloui - Exploiting the renewable energy resources of our cities' underground  |
| 09:40 - 13:00 | <b>Plenary session 1</b><br><b>Chairs:</b> Loretta Batali, Alexandra Ene<br>2nd generation of Eurocode 7 - A new evolution of geotechnical design   |
| 9:40 - 10:10  | <b>Keynote lecture</b><br>Adriaan van Seters - General overview of the revision of Eurocode 7   |
| 10:10 - 10:25 | <b>Panelist:</b> Gunilla Franzén - Key modification of the basis of geotechnical design   |
| 10:25 - 10:45 | <i>coffee break</i>   |
| 10:45 - 11:00 | <b>Panelist:</b> Christian Moormann - EN1997-3: 'Geotechnical Structures'<br>– Overview of design and key modifications on pile design  |
| 11:00 - 11:15 | <b>Panelist:</b> Håkan Garin - Ground model in the future Eurocode 7  |
| 11:15 - 11:30 | <b>Panelist:</b> Karolina Trybocza - Ground improvement - a new topic in Eurocode 7   |
| 11:30 - 11:45 | <b>Panelist:</b> Sébastien Burlon - Eurocode 7 : Geotechnical design assisted by numerical methods  |
| 11:45 - 12:00 | <b>Panelist:</b> Roger Frank - How geotechnical engineering adapted itself to the Eurocodes structural design   |
| 12:00 - 12:10 | <b>Hans-Peter Daxer, Helmut F. Schweiger, Franz Tschuchnigg</b> - Ultimate limit state design for deep excavations according to Eurocode 7 by means of numerical methods  |
| 12:10 - 12:20 | Maria Kovaiou, <b>Georgios Belokas</b> - A comparative evaluation of design approaches and computational models for shallow foundations based on Ec7  |
| 12:20 - 12:30 | <b>Cristina Chirea</b> - Implementation of the 2nd generation of Eurocodes in Romania   |
| 12:30 - 13:00 | <b>Sponsor session</b><br><b>Chair:</b> Lóránd Sata<br>Sponsor DIAMOND - ALL BIM NET: Adrian Ghencea - Point clouds for ground model definition. BIM parametric modeling in specific application such as ground engineering and foundations |

13:00 - 14:00 *Lunch*

**14:00 - 14:40 Keynote lecture**

**Chair: Irina Lungu**

**Marc Ballouz - Geotechnical engineering marriage between theory & practice**

**14:40 -18:30 Plenary session 2**

**Chairs: Christian Moormann, Adrian Ciutină**

**Geotechnical investigation and design - European practices**

**14:40 - 15:00 Invited lecture**

**Sanda Manea - Geotechnical problems in Romania - focus on Bucharest ground**

**15:00 - 15:20 Invited lecture**

**Helmut F. Schweiger, Laurin Hauser - Interpretation of CPT by means of numerical modelling**

**15:20 - 15:35 Panelist: Edina Koch;** Edina Koch, Károly Gombás, Márton Maller -

**Site characterization of the Szigetköz focusing on backward erosion piping**

**15:35 - 15:50 Panelist: Irina Lungu;** Anghel Stanciu, Irina Lungu, Mircea Aniculăesi, Andrei Ilaș, Oana Elena Colț, Florin Bejan - New laboratory devices for testing soil samples

**15:50 - 16:00 Paul Joseph Vardanega,** Jun S. Gan - Comparison of data from fall-cone and laboratory vane tests to investigate undrained shear strength for some fine-grained materials

**16:00 - 16:20 Coffee break**

**16:20 - 17:05 Sponsor session**

**Chair: Denisa Paşa**

**16:20 - 16:50 Sponsor Platinum Plus INOVECO GEOBRUGG TENSAR**

**Leo Kuljanski - Mechanically stabilised working platforms for windfarms using the latest generation of stabilising geogrids**

**Roberto Luis - „DEFOX®. Optical system for continuous monitoring”**

**16:50 - 17:05 Sponsor Platinum SBR SOLETANCHE BACHY FUNDATII**

**Lóránd Sata - Innovation and sustainability by Soletanche Bachy**

**Plenary session 2 - cont -**

**17:05 - 17:35 Keynote lecture**

**Ivan Vaníček - Earth structures - current trends**

**17:35 - 17:50 Panelist: Özer Çinicioglu;** Mostafa Almasraf, Araz Salimnezhad, S. Feyza Cinicioglu, Ozer Cinicioglu - Parametrical Analysis of Soil Arching Behavior in Pile-Supported Embankments

**17:50 - 18:05 Panelist: Alexandra Ene;** Alexandra Ene, Timo Schreckendiek, Horațiu Popa -

**Reliability-based design in geotechnical engineering – status of application in relation with design codes**

**18:05 - 18:15 Katarzyna Zabielska-Adamska, Patryk Dobrzycki, Mariola Wasil -**

**Fibre-reinforcement of non-cohesive soil and its influence on CBR values**

**18:15 - 18:30 Dr Marc Ballouz - ISSMGE: Meet your international family**

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| 8:00 - 8:30          | Registration  |
| <b>8:30 - 10:40</b>  | <b>Plenary session 3</b><br>Environmental geotechnics, hydrogeology, energy geotechnics<br><b>2nd Symposium Environmental Geotechnics</b><br>Chairs: Katarzyna Zabielska-Adamska, Iulia Prodan                  |
| <b>8:30 - 9:10</b>   | <b>Keynote lecture</b><br>Dietmar Adam - Energy Foundations and Other Energy Geostructures – Geotechnical Contributions to Alleviate the Global Energy Crisis   |
| <b>9:10 - 9:50</b>   | <b>Keynote lecture, 3rd R.K. Rowe Lecture</b><br>Abdemalek Bouazza - Untangling the mysteries of geosynthetic clay liners behaviour in aggressive and challenging environments                                  |
| <b>9:50 - 10:10</b>  | <b>Invited lecture</b><br>Andrea Dominijanni - Performance-based design of landfill liners  |
| <b>10:10 - 10:25</b> | <b>Panelist: Sofie ten Bosch;</b> Sofie ten Bosch, Jose Bosch, Dimitrios Terzis, Lyesse Laloui<br>3D multiphysical modelling of an MICP upscaling experiment with ex-situ hydrolysis                            |
| <b>10:25 - 10:40</b> | <b>Panelist: Nicoleta Ilies;</b> Ilies Nicoleta-Maria, Trîmbițaș (Urian) Ana-Maria, Nemeş Ovidiu, Nagy Andor-Csongor - Geotechnical and environmental aspects in soil improvement using plastic waste materials |
| <b>10:40 - 11:00</b> | <i>coffee break</i>   |
| <b>11:00 - 11:30</b> | <b>Sponsor session</b><br>Chair: Oana Colț  |
| <b>11:00 - 11:15</b> | <b>Sponsor Platinum ZUBLIN - STRABAG - TPA</b><br>Răzvan Zamfir - A Technology group for construction projects  |
| <b>11:15 - 11:30</b> | <b>Sponsor Gold Plus Extra POPP &amp; ASOC. ING. GEOTEHNICA</b><br>Dragoș Marcu - Complete approach of geotechnical works   |
| <b>11:30 - 12:45</b> | <b>Plenary session 4</b><br><b>Geo-hazards</b><br>Chairs: S. Feyza Cinicioglu, Nicoleta Ilies   |
| <b>11:30 - 12:10</b> | <b>Keynote lecture</b><br>Mario Manassero - The importance of soil mechanics in the risk assessment of temporary storage deposits of crushed aggregate  |
| <b>12:10 - 12:30</b> | <b>Invited lecture</b><br>Kemal Önder Çetin - Geotechnical Aspects of February 6, 2023 Kahramanmaraş-Turkiye Earthquake Sequence  |
| <b>12:30 - 12:45</b> | <b>Panelist: Cristian Arion;</b> Cristian Arion, Cristian Neagu, Elena Călărașu, Florin Pavel, Alexandru Aldea, Radu Văcăreanu - Vertical seismic profiles for Bucharest  |

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| 12:45 - 13:30 | <b>Sponsor session</b><br>Chair: Alexandru Măgureanu   |
| 12:45 - 13:00 | <b>Sponsor Gold Plus Extra MIDAS GEOTECH</b><br>JaeSeok Yang, Senior Geotechnical consultant of MIDAS IT - Numerical Modeling and Geotechnical Applications using MIDAS GTS NX |
| 13:00 - 13:15 | <b>Sponsor Gold Plus SAIDEL ENGINEERING</b><br>Tudor Saidel - SAIDEL Monopile – an Efficient Alternative to Pile & Shallow Foundations for All Column Types                    |
| 13:15 - 13:30 | <b>Sponsor Gold Plus DEWATERING &amp; SILENT PILING</b><br>Darius Macijauskas - Environmentally-Friendly Quay Wall Solution – Case Study: Port Odesos PBM, Varna               |
| 13:30 - 14:30 | <i>Lunch</i>   |

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| 14:30 - 16:30 | <b>Discussion session 1</b><br><b>Geotechnical investigation and ground model</b><br>Chairs: Edina Koch, Vasile Fărcaş |
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14:30 - 14:40 **Shoei Osawa**, Milev Nikolay, Takashi Kiyota, Masataka Shiga, Rana Ito, Toshihiko Katagiri, Atsunori Numata - Performing of Shaking Table Tests for Evaluation of Liquefaction Mitigation Effect of Log Pile Soil Densification Technique by Adopting Various Improvement Width Below a Low-rise Structure

14:40 - 14:50 **Nikolay Milev**, Noriyuki Fujii, Takashi Kiyota - Parallel between a numerical study and 1-g shaking table tests for estimating the effect of log-piling as shallow ground improvement technique for liquefaction mitigation

14:50 - 15:00 **Božana Baćić**, Ivo Herle - A simplified cyclic shear test for pore water pressure evolution

15:00: 15:10 **Ouarda Boumendjel-Game**, Shuyin Feng, Paul J. Vardanega, Erdin Ibraim, Andrea Diambra - Influence of soil grading on the coefficient of permeability of hydraulic fills

15:10 - 15:20 **Syed Uzair Us Salam Shah**, Roberto Cudmani, Andrés Alfonso Peña-Olarte - Micromechanics of the quasi-steady state: a DEM study

15:20 - 15:30 **Abdalla Almukashfi**, Svend Pilgaard Larsen, Niels Trads - Thermal conductivity dry-out curve of sand backfill for power cables

15:30 - 15:40 Charlotte E.L. Gilder, Rama M. Pokhrel, Flavia De Luca & **Paul J. Vardanega** - Further analysis of CPTu and seismic cone data collected in the Kathmandu valley, Nepal

15:40 - 15:50 **Ioan Boți**, Cătălin Bălăceanu - Use of dynamic penetration probing for anthropogenic fillings mapping

15:50 - 16:00 **Cristian Arion**, Cristian Neagu, Alexandru Aldea, Radu Văcăreanu - Laboratory investigations for estimation of low amplitude moduli for Bucharest soils

16:00 - 16:10 **Conrad Boley**, Claas Meier, Florian Hörtkorn - Collapse behavior and microstructure of loess soils in middle Asia

16:10 - 16:15 Discussions

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| 16:15 - 16:30 | <b>Sponsor Gold GEO SEARCH</b><br>Florin Borbei - <b>Unlocking Geotechnical Potential: Integrating Data for Enhanced Solutions -</b>  |
| 14:30 - 16:30 | <b>Discussion session 2</b><br><b>Geotechnical design</b><br><b>Chairs: Andrey Totsev, Dan Carastoian</b>   |
| 14:30 - 14:40 | <b>Ionela Ciocaniu, Alexandra Ene, Horațiu Popa</b> - Analysis and correlations between design estimations and monitoring works for a deep excavation in Bucharest  |
| 14:40 - 14:50 | <b>Ilian Markov, Andrey Totsev</b> - Sensitivity analysis of parameters on a deep excavation in the city of Sofia   |
| 14:50 - 15:00 | <b>Moritz Schleeh, Christian Moormann</b> - Bearing capacity of unreinforced and reinforced working platforms – verification of different design methods by model tests, field measurements and numerical simulations |
| 15:00 - 15:10 | <b>Dan Carastoian, Andreea Bitir, Adrian Iliesi, Oana Elena Colț, Nicolae Boțu</b> - Technical solutions to assure construction areas in urban zones  |
| 15:10 - 15:20 | <b>Szerző Árpád, Lóránd Sata, Ciumeică Daniel</b> - Circular diaphragm wall for a deep shaft  |
| 15:20 - 15:30 | <b>Abigail H. Bateman, George Mylonakis</b> - “p-y” curves for piles in radially inhomogeneous soil   |
| 15:30 - 15:40 | <b>Andreas Paraschos, Georgios Tsitsas</b> - State integral abutment bridge practices in the United States  |
| 15:40 - 15:50 | <b>Paul Olteanu, Tudor Saidel, Ion Răileanu, Tudor Stanciu, Cornel Rădulescu, Divian Tăbăcaru, Andrei Coman</b> - Full scale cyclic loaded Monopile in extreme geotechnical conditions vs. numerical analyses         |
| 15:50 - 16:00 | <b>Berend Schmidt, Leo Kuljanski, Lars van Rouwendaal</b> - Innovative quay wall structures for inland ports  |
| 16:00 - 16:10 | <b>Zsombor Illés, László Nagy, Örs Antal</b> - Dike deterioration along the Danube and its tributaries  |
| 16:10 - 16:15 | Discussions   |
| 16:15 - 16:30 | <b>Sponsor Gold TERRATEST GEOTEHNIC - GEOPIER</b><br><b>Adrian Botezatu - Terratest Group + Geopier - 60 years of excellence in geotechnical works</b>  |
| 14:30 - 16:30 | <b>Discussion session 3</b><br><b>Chairs: Andrea Dominijanni, Ioan Boți</b><br><b>Environmental geotechnics, hydrogeology, energy</b><br><b>2nd Symposium on Environmental geotechnics</b>                            |
| 14:30 - 14:40 | <b>Igor Simeonovski, Jovan Br. Papić, Slobodan B. Mickovski, Igor Pesevski</b> - Contribution of vegetation to the shearing resistance of soil  |

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- 14:40 - 14:50 **Navila Tabassum**, Kimitoshi Hayano, Yamauchi Hiromoto - Effect of dry and wet cycles on the strength development of clay treated with paper sludge ash-based stabilizer
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- 14:50 - 15:00 **Feten Chihi**, Gabriella Varga - Municipal solid waste characteristic determination through field investigation
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- 15:00 - 15:10 **Stefan Niewerth, Vitomir Dobric** - Remediation of a former industrial landfill using a multifunctional active surface sealing
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- 15:10 - 15:20 **Adrian Brunner**, Roman Markiewicz, Johannes Pistrol, Dietmar Adam - Long-term monitoring data of the energy walls at Vienna's metro station Taborstraße
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- 15:20 - 15:30 **Matthias Wojnarowicz**, Aldo Madaschi, Lyesse Laloui - THM multiphysical optimization and uncertainties propagation around the full-scale experiment of a nuclear waste repository concept
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- 15:30 - 15:40 João Martins, **Shilton Rica**, Cécile Prüm, José Humberto Matias de Paula Filho - Sustainable quay wall construction
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- 15:40 - 15:50 **Katarzyna Gabryś**, Kamil Zajac, Wojciech Sas - Compaction characteristics of waste materials: recycled concrete aggregate, recycled rubber waste and recycled concrete aggregate-recycled rubber waste mixtures
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- 15:50 - 16:00 Discussions
- 16:00 - 16:15 **Sponsor Gold Plus HOLCIM**  
Ştefan Zghibarcea - Sustainable solutions for geotechnical works in construction projects

16:15 - 16:30 **Sponsor Gold Plus HOELSCHER WASSERBAU**  
Joseph Dreissiger, Cristian Bădoi - Hoelscher Group – general presentation & Brăila Bridge - Dewatering System
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- 16:30 - 16:45 Coffee break
- 16:45 - 18:00 Discussion session 4**  
**Geotechnical investigation and ground modelling**  
**Chairs: Jovan Papić, Olimpiu Mureşan**
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- 16:45 - 16:55 Daniel Meyer, **Svend Pilgaard Larsen**, Niels Trads - Comparison of results from pinned and "saw tooth" end plates in DSS testing
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- 16:55 - 17:05 Andreea Vasilica Dascălu, Irina Lungu, **Mircea Aniculăes**, Florin Bejan - Influence of the compaction moisture content on the soil shear strength parameters
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- 17:05 - 17:15 Erick Baziw, **Gerald Verbeek** - Minimizing the Effects of Variable Cone Tip Diameters by Implementing the qcHMM Algorithm on Cone Bearing Measurements
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- 17:15 - 17:25 Paul Țurcanu, Dana-Mădălina Pohrib, **Irina Lungu** - Studies, investigations and time monitoring regarding the stabilization of a structure located close to the top of an unstable slope

- 17:25 - 17:35 **Jose A. Bosch**, Dimitrios Terzis, Lyesse Laloui - Towards a better understanding of microbially-induced calcite precipitation in geotechnics using numerical models
- 17:35 - 17:45 **Mohammad Ali Khodabandeh**, Katalin Kopcskó, Gábor Nagy - Strength properties of collapsible soils stabilized by innovative materials
- 17:45 - 18:00 **Sponsor Gold Plus Extra INGEO & GEOCORE:**  
**Łukasz Baran - Modern methods of geological investigation on land and nearshore**
- 16:45 - 18:00 Discussion session 5**  
**Geotechnical design - Ground improvement**  
**Chairs: András Mahler, George Tsitsas**
- 16:45 - 16:55 **Matthias J. Rebhan**, Hans-Peter Daxer, Jörg Edler, Florian Scharinger, Franz Tschuchnigg, Roman Marte - Determination of the conservation status of anchored structures in Austria
- 16:55 - 17:05 **Andrzej Głuchowski**, Maciej Miturski, Kamil Zajac, Luiza Rzepczyńska, Wojciech Sas - Geopolymerization as a stabilization method for low plasticity clayey silts
- 17:05 - 17:15 **Nemanja Marković**, Elefterija Zlatanović, Zoran Bonić, Nikola Romić, Branimir Stanković, Dušan Cvetković - Improvement of physical and mechanical properties of soil for road construction purposes by adding chemical stabilisers
- 17:15 - 17:25 **Conrad Boley**, Paul Pratter - Design aspects of a soil improvement in saturated clay - requirements for the material properties of an innovative composite
- 17:25 - 17:30 Discussions
- 17:30 - 17:45 **Sponsors GOLD CARMEUSE**  
**Radu Mosteanu , Diana Oprean - Treating and improving difficult soils with lime-based binders**
- 17:45 - 18:00 **Sponsors GOLD MENARD**  
**Karolina Trybocza - Different techniques for different needs**
- 16:45 - 18:00 Discussion session 6**  
**Geo-hazards**  
**Chairs: Georgios Belokas, Cristian Arion**
- 16:45 - 16:55 **Alexandru Praporgescu**, Vasile F. Chiorean, Olimpiu C. Mureşan, Augustin Popa - Comparative study between different methods of evaluating slope stability in geotechnical engineering
- 16:55 - 17:05 Camilo Zapata, Elizabeth A Holcombe, **Paul J Vardanega**, Eliana Jimenez - Modelling the effect of hydraulic conductivity variability on slope stability calculations for a site in South-East Quito, Ecuador
- 17:05 - 17:15 **G. Bonci, B. Klappstein** - Real time geotechnical monitoring systems for an open pit coal mine. Thresholds for the alarm systems and the increase of safety of operations. Update

- 17:15 - 17:25 **Mihaela Stanciu**, Adrian Mihai Diaconu - Hazards induced in infrastructure projects by unrevealed geological features
- 17:25 - 17:35 **Sara Amoroso** et al - Site investigations for liquefaction assessment after the 2020 Petrinja Mw6.4 earthquake (Croatia)
- 17:35 - 17:45 **Claudia Klotz**, Lukas Riedl, Lennart Buehn - A study on different methods for slope stability evaluation with and without supporting elements
- 17:45 - 18:00 **Sponsor Bronze Plus GEOSTRU**  
**Zanellato Gianluca - Geostru: Innovation and technology to always be a step ahead**
- 18:00 - 18:30 Closing**
- 18:00 - 18:05 **Marc Ballouz**, president ISSMGE
- 18:05 - 18:10 **Lyesse Laloui**, VP Europe, ISSMGE
- 18:05 - 18:10 Presentation **18DEC GE**
- 18:10 - 18:15 Presentation **21ICSMGE**
- 18:15 - 18:20 Presentation **18ECSMGE**
- 18:20 - 18:30 **Loretta Batali**, Chair 17DEC GE

