ISC'6
CONFERENCE
BUDAPEST
26-29 September 2021

6TH INTERNATIONAL CONFERENCE ON GEOTECHNICAL AND GEOPHYSICAL SITE CHARACTERISATION

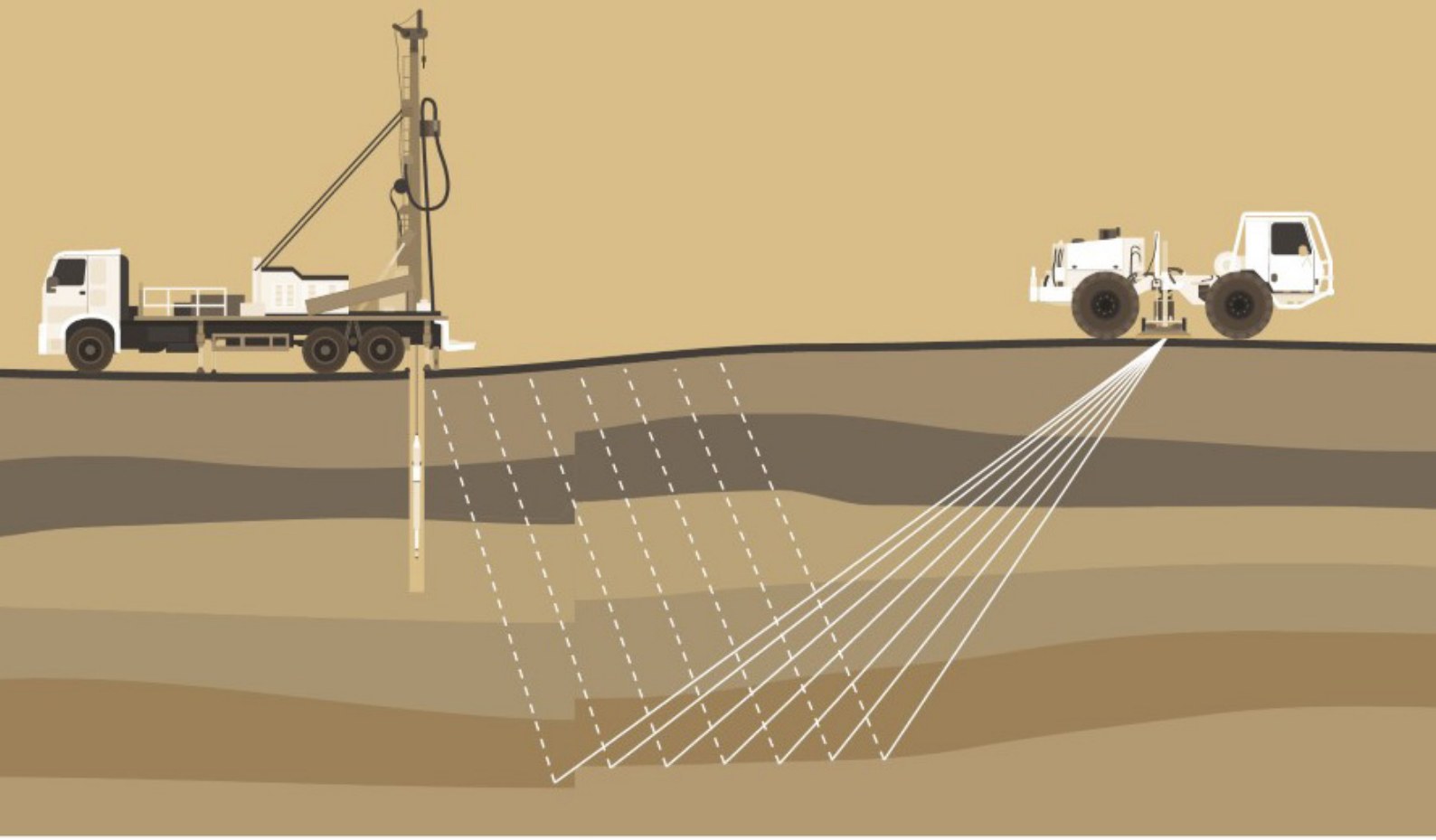
"Toward synergy at site characterisation"

Budapest Hungary September 26-29, 2021.

PROGRAM

FUGRO

UNLOCKING **INSIGHTS** FROM **GEO-DATA** FOR A **SAFE** AND **LIVEABLE** WORLD



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WELCOME MESSAGE

On behalf of the Hungarian Geotechnical Society, we warmly welcome you to the ISC'6 Conference in the beautiful city of Budapest.

The ISC (International Conference on Geotechnical and Geophysical Site Characterization) conference series has already toured the world through previous events. After Atlanta, Porto, Taipei, Porto de Galinhas and Brisbane, it has now returned to Europe, to Budapest. At the same time, the event has become even more global. For the first time in the history of the conference series, the event will also be available in virtual space, as many are unable to be present in person due to the pandemic.

The theme of the conference is: "Toward synergy at site characterization". Due to the continuous spread and development of field and laboratory tests, more and more information is available on subsoil conditions and soil properties. Consequently, a major challenge for practice is to summarize, evaluate, and determine the parameters required for design.

The conference's goal is to promote collaboration, innovation, and information sharing, as well as provide an opportunity for us to reconnect in person or virtually after the previous period of pandemic. We hope that this conference will meet your expectations by providing engaging talks, posters, and exhibits. We would like to express our gratitude to all of the presenters, authors, participants and to TC102 who helped make this conference a success.

We hope you have a pleasant stay in Budapest and look forward to seeing you again.

Budapest, September 2021.

Hungarian Geotechnical Society

PROGRAM OVERVIEW

Sunday	Monday	Tuesday	Wednesday
26th September	27th September	28th September	29th September
Short Course 9:00-16:00 In situ testing using the DMT, the SDMT and the Medusa DMT	Exhibition open Registration - info BARTÓK HALL Opening Ceremony 09:00-09:45 MAIN SESSION Invited Lecture Catherine Jacquard 9:45-10:15 Invited Lecture József Pusztai 10:15-10:35 Invited Lecture Jean-Sebastien L'Heureux 10:35-10:45 Invited Lecture Stephen Fityus 10:45-10:55 Coffee break 10:55-11:25 Invited Lecture Marcos Arroyo 11:25-11:45 Invited Lecture António Viana Da Fonseca 11:45-11:55 Invited Lecture Sebastiano Foti 11:55-12:05 Invited Lecture Serge Varaksin 12:05-12:15 Lunch 12:15-13:15 **B1 – 13:15-15:05** **Breakout sessions-Halls** B1-1 Bartók Hall B1-2 Lehár Hall B1-3 Bhrams Hall B1-4 Liszt Hall Coffee break 15:05-15:35	Exhibition open Registration - info B2 – 9:00-10:50 Breakout sessions-Halls B2-1 Bartók Hall B2-2 Lehár Hall B2-3 Bhrams Hall B2-4 Liszt Hall Coffee break 10:50-11:20 Invited Lecture Rainer Massarsch 11:20-11:30 SMA winner 11:30-12:15 Lunch 12:15-13:15 **B3 – 13:15-15:05** **Breakout sessions-Halls** B3-1 Bartók Hall B3-2 Lehár Hall B3-3 Bhrams Hall B3-4 Liszt Hall Coffee break 15:05-15:35	Exhibition open Registration - info **B4 – 9:00-10:50** **Breakout sessions-Halls** B4-1 Bartók Hall B4-2 Lehár Hall B4-3 Bhrams Hall B4-4 Liszt Hall Coffee break 10:55-11:20 Bartók Hall Invited Lecture Richard Jardine 11:20-11:40 Invited Lecture Patrick Mengé 11:40-11:50 Invited Lecture Joek Peuchen 11:50-12:00 Invited Lecture Imre Emőke 12:00-12:10 Invited Lecture Tóth Gyula 12:10-12:20 Lunch 12:20-13:15 **B5 – 13:15-15:05** **Breakout sessions-Halls** B5-1 Bartók Hall B5-2 Lehár Hall B5-3 Liszt Hall Coffee break 15:05-15:35
Afternoon workshop 16:00-18:00 Dissipation test	Bartók Hall Keynote 1 Jason DeJong 15:35-16:20 Break 16:20-16:40	Bartók Hall Mitchell Lecture Fernando Schnaid 15:35-16:20 Break 16:20-16:40	Bartók Hall Keynote 3 Ray Wood 15:35-16:20
Welcome Party 18:00-21:00 Budapest Congress Center	Bartók Hall Keynote 2 16:40-17:25 Kenneth H. Stokoe Invited Lecture Mike Long 17:25-17:35 Invited Lecture Paul Mayne 17:35-17:45	Bartók Hall Invited Lecture Helmut Schweiger 16:40-17:10 Invited Lecture Richard Ray 17:10-17:20 Invited Lecture Don J. DeGroot 17:20-17:30 Invited Lecture Rainier Arndt 17:30-17:40	Closing Ceremony 16:20-16:40
	Meeting of TC102 Bartók Hall	**Gala Dinner** **18:00-22:00 Európa Ship**	

PRACTICAL INFORMATION

Venue

Budapest Congress Center – AULA ENTRANCE!
www.bcc.hu
Jagelló út 1-3 H-1123 Budapest, Hungary

Entering the conference

Only registered participants/speakers/exhibitors with name badge. Upon arrival, first please contact us at the Registration desk to get your badge, and conference material.

Please note that due to epidemiological regulations, we need to check you your VALID EU Covid certificate (in case of EU citizens) or a negative PCR test within 72 hours (in case of all other countries) at the registration desk.

Registration desk

We are waiting for you:

26 September (Sunday) 16,00-20,30
27, 28 September (Monday, Tuesday) 8,00-19,00
29 September (Wednesday) 8,00-16,30

Wifi

network / BKK
password is not necessary

Plenary and breakout rooms

Bartók room –plenary and breakout room
Lehár II-III –breakout room
Brahms I-II –breakout room
Liszt II-III –breakout room
Lehár I – posters

Speakers'preview room

Technicians are at your disposal:

26 September (Sunday) 16,00-20,30
27, 28 September (Monday, Tuesday) 8,00-19,00
29 September (Wednesday) 8,00-16,30

If you have a presentation, please contact them a day before, but at latest one hour before your lecture.

Gala dinner with cruising

28 September / 19,00-22,00

This program can only be attended with ticket (it should be bought in advance, but it will be available on site, at the registration desk, in limited number.

CONFERENCE PROGRAMME

SUNDAY 26 SEPTEMBER		LOCATION
09:00 – 16:00	Short Course - In situ testing using the DMT, the SDMT and the Medusa DMT	Bartók Hall
16:00 – 18:00	Workshop – Dissipation test	
16:00 – 20:30	Registration	
18:00 – 21:00	Welcome Party	

MONDAY 27 SEPTEMBER		
08:00 - 19:00	Registration	
09:00 – 09:45	Opening Ceremony	Bartók Hall
	László Szilvágyi (Hungarian Chamber of Engineers)	
	András Mahler (Hungarian Geotechnical Society)	
	Antonio Viana Da Fonseca (ISSMGE TC102)	
09:45 – 10:55	Invited Lectures	Bartók Hall
	Chairman: László Szilvágyi	
09:45 – 10:15	Catherine Jacquard **The pressuremeter: recent developments in testing and design methods**	
10:15 – 10:35	József Pusztai **Soil Investigation Routine in Hungary**	
10:35 – 10:45	Jean-Sebastien L ' Heureux **The Norwegian GeoTest Site Infrastructure Project**	
10:45 – 10:55	Klaus Thoeni - Stephen Fityus - James Cudmore - Anna Giacomini **Structural characetrisation of rock mass defects: a comparison of traditional and emerging technologies**	
10:55 – 11:25	Coffee Break	

11:25 – 12:15	Invited Lectures	Bartók Hall
	Chairwoman: Catherine Jacquard	
11:25 – 11:45	Marcos Arroyo **Geotechnical characterization: does it fit in a code? An European perspective**	
11:45 – 11:55	António Viana Da Fonseca **Equivalent Soil Profiles: CPTu-based soil classification for liquefact**	
11:55 – 12:05	Sebastiano Foti **Uncertainties in seismic site characterization**	
12:05 – 12:15	Serge Varaksin **A case study of ground improvement optimization in Hungary using CPT and PMT**	
12:15 – 13.15	Lunch	

Monday	Breakout session B1 - 1	Hall
13:15 – 15:05	10. Liquefaction	Bartók

Paper	Chairwoman: Cristiana Ferreira
141	Antonio Viana da Fonseca, Fausto Gómez, Cristiana Ferreira, Diana Cordeiro **Obtaining the state parameter from SCPTU data for liquefaction assessment in alluvial deposits in Portugal**
289	Salvatore Grasso, Maria Rossella Massimino, Maria Stella Sammito **Evaluation of the Shear Stress Reduction Factor for the Liquefaction Potential in the Catania Area (Italy)**
230	Kyle Rollins, Sara Amoroso **Evaluation of the Dynamic Cone Penetration Test (DPT) for Liquefaction Triggering at Gravel Sites in Italy and Alaska**
284	Sebastian Lopez, Jean Canou, Jean Calude Dupla, Miguel Angel, Benz Navarrete **Development of a liquefaction risk assessment methodology using an instrumented lightweight dynamic penetrometer: calibration chamber tests**
288	Sebastian Lopez, Jean Canou, Jean Calude Dupla, Miguel Angel, Benz Navarrete **Evaluation of soil liquefaction resistance with variable energy dynamic penetration test, PANDA®: state of the art**
178	Catarina Ramos, Cristiana Ferreira, Fausto Gómez, Antonio Viana da Fonseca **Enhanced liquefaction susceptibility evaluation of Lisbon sands from SPT and CPTu tests: integration of laboratory-measured fines content**
212	Debnath Mondal, Debasis Roy, Samir Saurav **Influence of bacterial activities on cone tip resistance and liquefaction susceptibility of sand**
199	Diana Cordeiro, Antonio Viana da Fonseca, Cristiana Ferreira, Fausto Gómez, Carlos Rodrigues **Liquefaction assessment trough SCPTU and DMT tests: Averio case study**
278	Sara Amoroso, Kyle Rollins, Kord Wissmann, Luca Minarelli **Estimation of lateral spreading by SPT, CPTU and DMT following the 2016 Mw7.8 Ecuador earthquake**
K29	Zoltán Bán **Liquefaction Evaluation Based on Hybridized CPT-and VS-based method**

15:05 – 15:35	Coffee Break

Monday	Breakout session B1 - 2	Hall
13:15 – 15:05	3. Special soils	Lehár

Paper	Chairman: Richard P. Ray
202	Walter Steiner **Challenges characterizing glacial soil deposits**
131	Guillem Massallé, Àlex Vancells, Amadeu Deu, Marcelo Devincenzi **Effect of seawater and salt-saturated water on marine deltaic cohesive soft soils from Llobregat River (Barcelona, Spain)**
370	MD Azhar, A. K. Sinha, Udaya Pratap **Dissipation tests in saline and quick environments**
353	Jovan Papic, Saška Velkovska **Comparison of results from laboratory tests on materials from mine tailings: permeability case**
394	Archana Mallick, D.K. Baidya **Utilization of flyash & geotextile on expansive soil subgrade**
405	Ikuo Towhata, Takashi Hosoya, Mitsuyoshi Ikeda **Reconnaissance survey on earthquake induced failures of ground composed of volcanic materials in Hokkaido, Japan, during the 2018 Iburitobu earthquake of Mw=6.6**
280	Mária Emőke Imre, Stephen Fityus, Daniel Bishop, Lachlan Bates, Miklós Juhász, Zsófia Bakácsi, Kálmán Rajkai **Dynamic Modulus, Young's Modulus and Damping Ratio Measurements of Fly Ash from FixedFree Resonant Column Apparatus**
54	Rolando Orense **Laboratory-based method to quantify pumice contents of volcanic deposits**
401	Susumu Yasuda **Soil investigations and soil tests required for seismic inspection of abandoned tailings dams in Japan**
187	Luljeta Bozo, Ardita Malaj, Skënder Allkja, Besian Xhagolli **Problematic soils in the western part of Albania**

15:05 – 15:35	Coffee Break

Monday	Breakout session B1 - 3	Hall
13:15 – 15:05	14. Rock, stiff clay, cavity, debris flow	Brahms

Paper	Chairman: Péter Görög
20	Sándor Szalai, István Lemperger, Attila Novák, Katalin Gribovszky, László Szarka, Mohamed Zubair, Mátyás Krisztián Baracza **Fracture system characterization by Pressure Probe**
39	Mingi Kim, Choong-Ki Chung **Application of GISbased neural network models for subsurface stratification**
379	Chan-Young Yune, Kyoung-Jea Jun **Topographic Changes in Real-scale Debris-flow Experiment using Terrestrial LiDAR**
484	Goran Vlastelica, Branko Kordić, Kristina Pikelj **Discernment of layers in heterogeneous rock masses using Terrestrial Laser Scanning intensity**
196	Ana Raič, Nataša Štambuk Cvitanović, Goran Vlastelica, Ákos Török, Péter Görög **Marly soft rocks from Dalmatia (Croatia) and Budapest (Hungary) – correlations of intact rock physical and mechanical properties**
15:05 – 15:35	Coffee Break	

Monday	Breakout session B1 - 4	Hall
13:15 – 15:05	16. Sampling +15. Quality control	Liszt

Paper	Chairman: Jacques Monnet
80	Volker Eitner, Ferdinand Stoelben, Jean-Robert Courivaud **Undisturbed sampling of non-cohesive soils by drilling**
108	Philippe Reiffsteck, Franck Pilnière, Gilles Desanneaux, Fabrice Jadé **A+ sampler for natural fine soils**
327	Jubert Pineda, Kaiwen Ouyang, Laxmi Prasad Suwal, Scott Sloan **Effects of waxing on sample quality in soft soils**
331	Philippe Reiffsteck, Panagiotis Giorgios Karagiannopoulos, Michael Peronne **Mesure of the water pressure during the pressuremeter test in a calibration chamber-physical and numerical approach**
471	Natalie Murphy, Krystle-Rae Biram, Scott Fidler **Development of a site-specific correlation for the verification of relative density of dredged reclamation sand fill using CPT results**
115	Fausto Gómez, Antonio Viana da Fonseca, Cristiana Ferreira, Catarina Ramos, Diana Cordeiro **Novel sampling techniques for collecting high-quality samples: Portuguese experience in liquefiable soils**
3	Peter Nagy, Dietmar Adam, Peter Freitag **Evaluation of the compaction effect from deep vibro compaction using the seismic cone penetration test**
81	Volker Eitner, Ferdinand Stoelben **Qualification criteria for operators and enterprises performing ground investigation**
260	Fauzan Sahdi, Phil Watson, M. Fraser Bransby, Christophe Gaudin, Joe Tom, Noor Laham **Measurements of longterm strength changes due to cyclic loading in Gulf of Mexico clay**
300	Marcelo Penna, Anderson Diego Dárdis de Macedo, Gustavo Prado Guerra, Antônio Sérgio De Pietro Damasco Penna **DMT tests for compaction control purpose**
469	Patrick Mengé, Mathijs Maes **Influence of Compaction on Material Behavior Index from CPT for carbonate sands**
164	William G. Lukas, Don J. DeGroot, Jason T. DeJong **Laboratory study of impact of drainage during sampling of intermediate soils**
15:05 – 15:35	Coffee Break	

15:35 – 17:45	Keynote & Invited Lectures	Bartók Hall
	Chairman: Rainer Massarsch	
	Keynote 1.	
15:35 – 16:20	Jason DeJong **Optimization of CPT Soundings to Reduce Uncertainty in Interpretation of Subsurface Stratigraphy**	
16:20 – 16:40	Break	
	Keynote 2.	
16:40 – 17:25	Kenneth H. Stokoe **The Increasing Role of Seismic Measurements in Geotechnical Engineering**	
	Invited lectures	
17:25 – 17:35	Cor Zwanenburg - Bo Vesterberg - Priscilla Paniagua - Mike Long **ELGIP peat group – outline of research into peat behaviour**	
17:35 – 17:45	Paul Mayne **New Case Studies Validating Direct CPT Footing Method**	
18:00 – 19:00	TC201 meeting	Bartók Hall

TUESDAY 28 SEPTEMBER

08:00 - 19:00 Registration

Tuesday	**Breakout session B2 - 1**	**Hall**
09:00 – 10:50	7/1. Geophysics	Bartók
Paper	Chairman: Tamás Tóth	
	Rainier Arndt, Endre Hegedus, János Stickel , Attila Csaba Kovacs	
10	**You can leave your head on…: Geophysics serves nondestructive insitu inspections of ground anchors**	
466	Paul Lehmann, Markus Schmidt, Thomas Richter, Michael Eidner **Geophysical structural exploration applications in civil engineering, tunneling and mining**	
40	Tivadar Szabó, Tamás Tóth, Zoltán Hámori, Viktor Németh, Péter Filipszki **2C land streamer for high resolution shallow seismic investigations**	
1	Zsombor Illés, Gábor Nagy, László Nagy, András Kovács **Geotechnics and Soil Sciences: multidisciplinary investigation of a saline lakebed**	
60	Thomas Fechner, Uta Koedel, Lutz Karl, Sonja Mackens-Siemes **A novel CPT-based seismic tomographic system for geotechnical applications**	
91	Teyssier Alexandre, Catherine Jacquard, Quoc-Anh Tran, Miguel Angel, Benz Navarrete, Jean-Christophe Pellez **Field correlation between shear wave velocity measured by Panda 3®, Cone penetrometer (CPT) and geophysical tests**	
429	Endre Törös, Péter Nagy, Zsolt Prónay, Bence Solymosi **Experiences on geophysical inspection of retaining wall structures**	
257	Zsolt Prónay, Endre Törös, Péter Nagy, Csaba Hegymegi **Geophysical investigation on recultivated opencast mining areas**	
175	Hariharan G N **2D UHR seismic survey as a tool for mapping of shallow subsurface soil stratigraphy at exploratory well locations and for initial assessment of geohazard risk for drilling rigs– A case study**	
10:50 – 11:20	Coffee Break	

Tuesday	Breakout session B2 - 2	Hall
09:00 – 10:50	11/1. Case studies	Lehár

Paper	Chairman: Zsolt Szilvágyi
148	Rod Eddies, David Kilcoyne, Laurent Metral, Tim Nixon **MinimalImpact Site Characterisation for Mining and Nuclear Infrastructure Development**
294	Roy Anthony Luna, Alexis Acacio, Ramon Quebral, Michael Follosco, Gian Reyes, Jenna Carmela Pallarca, Marvin Renzo Malonzo **Geological and Geotechnical Characterization for the Rehabilitation of the NorthSouth Philippine Railway System**
386	Izabela Nitka, Urszula Tomczak **TRENCHMIX technology as the answer in the railways modernization problems.**
368	Fred Yi, Robert J. Johnson **Case Study of Liquefaction Mitigation By Compaction Grouting**
295	Roy Anthony Luna, Patrick Adrian Selda, Karen Joy Leobrera, Ramon Quebral, Francis Jenner Bernales, Maria Deandra Andal, Emmanuel Marasigan **Geophysical Characterization and Seismic Hazard Analysis for the Proposed Metro Manila Subway**
299	Roy Anthony Luna, Edgardo Kasilag, Rodora Perez, Jose Carlo Eric Santos, Arlene Buenaventura , John Michael Gargullo, Emmanuel Marasigan **Geohazard and Geotechnical Assessment for Reclamation Projects in the Philippines**
380	Luiz Felipe Goulart Fiscina, Paulo José Rocha de Albuquerque, Jean Rodrigo Garcia **Reliability and Risk Analysis of Micropile Bearing Capacity Based on SPT Variability: Case Study**
416	Paola Monaco, Gianfranco Totani, Giovanni Bosco, Ferdinando Totani **Site characterization for assessment of seismic vulnerability of ancient buildings in the centre of Macerata (Italy)**
435	Andre Mazur, Jane Lee, Xavier Shum, Jana Schultze **Hong Kong's marine UXO. The prevalence, burial depth, associated hazard and identification of marine UXO**
481	Jørgen S. Steenfelt **Settlement and tilt of large-scale bridge piers based on site characterization and monitoring**

10:50 – 11:20	Coffee Break

Tuesday	Breakout session B2 - 3	Hall
09:00 – 10:50	1. Statistical-risk-economical aspects	Brahms

Paper	Chairman: Ákos Török
264	Stefano Collico, Marcos Arroyo, Norma Perez, Marcelo Devincenzi **Probabilistic quantification of soil delineation coherence using CPTu data**
58	Nina Stark, Ali Albatal, Dennis Kiptoo, Nicola Brilli, Reem Jaber **Spatial variability of relative density of sandy seabed surface sediments in an energetic nearshore zone estimated from a portable free fall penetrometer**
468	Andreas Aspmo Pfaffhuber, Craig Christensen, Guro Skurdal, Asgeir Lysdahl, Malte Vöge **Large scale & efficient geotechnical soil investigations: Applying machine learning on airborne geophysical models**
70	Juan Camilo Viviescas, Juan P. Osorio **Geological origin as an input variable in reliability -based designs: for an accurate exploration in geotechnical engineering.**
474	Valentina Lentini, Emanuele Colica, Sebastiano D'amico, Pauline Galea, Francesco Castelli **Site characterization and mitigation of the coastal risks: the southern Sicily and the Maltese islands**
124	Jinsong Huang, Richard Kelly **A Bayesian framework for probabilistic site investigation**
237	Shin-ichi Nishimura, Go Kubota, Toshifumi Shibata, Takayuki Shuku **Evaluation of spatial distribution for permeability based on CPTU and geostatistics**
382	Ikuo Towhata, Tsunemi Watanabe, Tetsutaro Sumi, Shunichi Sawada, Keigo Azuno **Promotion of ground investigation for avoidance of geo-risk and better construction management**
71	Tsutomu Namikawa **Statistical uncertainty in evaluating strength of deep mixing column**
12	Alvaro Boiero **Development of a Rational Methodology for Soil Geotechnical Characterization**

10:50 – 11:20	Coffee Break

Tuesday	Breakout session B2 - 4	Hall
09:00 – 10:50	2/1. Tests in various soil types	Liszt

Paper	Chairman: Tibor Horváth
183	Simon Oberhollenzer, Anna Fankhauser, Roman Marte, Franz Tschuchnigg, Michael Premstaller **Characterization of microstructure in silty soils using SCPTu tests**
73	Victor Hugo, Barbosa, Maria Esther Soares Marques, Antőnio Carlos Rodrigues Guimarães **Characterization of expansive soils in southwest Brazilian Amazon**
210	Paolo Ruggeri, Viviene Marianne Esther Fruzzetti, Giuseppe Scarpelli **Characterization of the recent soft silty clay deposit in the Ravenna port area (Italy)**
98	Christopher Krage, Jason DeJong, Ross Boulanger, Don DeGroot **Laboratory Investigation of Old Bay Clay Consolidation Strain Rate and Creep Behavior**
304	Helena Nierwinski, Fernando Schnaid, Edgar Odebrecht **Insitu state parameter assessment of nonplastic silty soils and tailings using the seismic cone**
208	Laxmi Prasad Suwal, Jubert Pineda, Ben Morris, Richard Kelly **Hydromechanical characterization of an Australian organic black soil**
402	Ronan Travers, Shane Doolan **Some Geotechnical Characteristics of Carlingford Clay**
191	Stanciu Anghel, Ilas Andrei, Nicuta Alina **Laboratory Equipment for the Determination of Soils Compressibility Characteristics**
378	Maira Alejandra, Baron Castro, Edgar Eduardo Rodriguez **Calibration of the CPTu and analysis of a lacustrine deposit of Bogotá**
56	Meng Wu, Guojun Cai **Evaluation of the engineering characteristics of the floodplain soil in the Yangtze River Delta**
10:50 – 11:20	Coffee Break

11:20 – 12:15	Invited Lecture & SMA Winner	Bartók Hall
	Chairwoman: Jana Frankovska	
	Invited Lecture	
11:20 – 11:30	Rainer Massarsch **Settlement analysis of granular soils based on CPT and DMT investigations.**	
	SMA Winner	
11:30 – 12:15	Dušan Berisavljević **Dilatometer and seismic dilatometer tests in different depositional environments**	
12:15 – 13.15	Lunch	

Silvano Marchetti Award

The ISSMGE Technical Committee TC102 – Ground Property Characterization from In-Situ Tests in cooperation with the University of L'Aquila, Italy has instituted the Silvano Marchetti Award (SMA) in memory of Professor Silvano Marchetti (1943-2016). The award is funded entirely by Studio Prof. Marchetti, Italy.

The SMA aims to support scientific publications on in-situ testing and its application to geotechnical engineering design, focusing especially on DMT and/or SDMT.

Tuesday	Breakout session B3 - 1	Hall
13:15 – 15:05	7/2. Geophysics	Bartók

Paper	Chairman: Endre Tőrös
19	Sándor Szalai, Lukács Kuslics, Attila Kovács, Árpád Kis, István Lemperger, Mátyás Krisztián Baracza **Pricking Probe (PriP) method and its applicability**
139	Gerald Verbeek, Erick Baziw **Implementation of the Forward Modeling/Downhill Simplex Method Absorption Analysis (FMDSMAA) Algorithm**
179	Alessandro Arato, Mario Naldi, Luisella Vai, Antonella Chiappone, Cesare Comina **Towards a seismoelectric land streamer**
265	Pedro Baltazar-Soares, Jeniffer Viegas, Claudia Escada, Francisco Martinez-Moreno, Fernando Monteiro Santos, Jaime Santos, Giulio Vignoli **Inversion of Electrical Resistivity Tomography (ERT) and Transient Electromagnetic (TEM) data to site characterization of PLLN Alluvial Area, VFX, N Lisbon**
340	Jodie Crocker, Joseph Vantassel, Brady Cox **Limitations of the Multichannel Analysis of Surface Waves (MASW) Method for Subsurface Anomaly Detection**
57	Richard de Kunder, Tamás Tóth, Jordan Bos, Péter Filipszki, Viktor Németh, Tivadar Szabó, Géza Wórum **Novel P and S wave electric seismic source for highresolution seismic imaging**
76	Xiaoqiang Gu, Wenlan Jiang, Jiangu Qian, Maosong Huang **Sampling disturbance evaluation based on the shear wave velocity measured in laboratory and field tests**
346	Attila Csaba Kovács, Gábor Szongoth, Laszló Zilahi Sebess **Geotechnical information based on well logging in tunnel pre-drillings**
314	Tamás Tóth, Csaba Petik, Péter Filipszki, Viktor Németh, Tivadar Szabó, Gábor Vincze **Combined geophysical-geotechnical investigation of a land slide surface of a recultivated openhole mine**
11	Jorge Machado de Carvalho, Mafalda Lopes Laranjo **The use of the Stransform in Prazeres clay site characterization combining insitu and laboratory tests**
15:05 – 15:35	Coffee Break

Tuesday	Breakout session B3 - 2	Hall
13:15 – 15:05	11/2. Case studies	Lehár

Paper	Chairman: Patrick Mengé
192	Jalal Zenah, Péter Görög, Bernadetta Pasierb **Exploration and stability analysis of underground cavities of urban areas**
221	Julie Paprocki, Nina Stark, Hans Graber **Assessment of FineGrained Sediment Properties From SatelliteBased Imagery**
270	Walter Steiner **Site investigation for crossing a river in constraint conditions**
342	Anna Wudzka, Francesco Petrella, Kathrine Rive **The use of the seismic flat dilatometer for soil characterisation and geotechnical design of a fjord crossing**
375	Tawfiq Bourfina **Specific slope stability study of Aomar region—Characterization and proposal of reinforcement measures**
377	Jose Carlo Eric Santos, John Michael Gargullo, Karen Joy Leobrera, Joanne Parafina **Methodology for Cavity Detection under Multi-level Buildings in the Karstic Island of Boracay, Philippines**
173	Santiago Peña, Amadeu Deu, Marcelo Devincenzi **Practical approach for soil characterization with multivariate analysis**
K12	Z. Szilvágyi, A.C. Kovács, J. Stickel **Combined geotechnical – geophysical soil investigations: a case study from Budapest**
K3	Babak Hamidi, Serge Varaksin **The contribution of CPT and PMT for optimization of a ground improvement project in Hungary**
K20	Erzsébet Győri, Máté Timkó, Zoltán Gráczer, Gyöngyvér Szanyi **Joint analysis of active and passive surface wave methods – case studies from seismic microzonation of Budapest**
15:05 – 15:35	Coffee Break

Tuesday	Breakout session B3 - 3	Hall
13:15 – 15:05	12. Environmental + 9. Dams, dikes, embankments	Brahms

Paper	
	Chairwoman: Edina Koch
312	Hamed Hoseinimighani, Janos Szendefy **Comparison of different methods for measuring thermal properties of soil: review on laboratory, insitu and numerical modeling methods**
365	Takashi Fujishiro, Hemanta Hazarika **Investigation on Slope Failure Caused by the 2018 Northern Kyushu Torrential Rainfall, Japan**
185	Gianluca Regina, Ernesto Ausilio, Giovanni Dente, Paolo Zimmaro **Geophysical investigations used in the seismic revaluation of the Farneto del Principe dam**
286	Andhika Sahadewa, Haris Setyawan, Mahdi Tanjung, Aprianto Indrawan, Ridwan Santoso, Ratika Salim, Abi Hakim **The Importance of Investing in Site Characterization in a Dam Project to Avoid Impending Losses**
313	Tamás Tóth, Sándor Baranya, János Szendefy, Zoltán Hámori, Gergely Török, Miklós Kóbor **Integrated geophysicalgeotechnical investigation of shallow sections of river Danube, Hungary**
479	Mehrad Kamalzare, Hector Marquez **Geotechnical stability analyses of embankment dam systems and assessment of the current design criteria**
K10	E. Imre, E. Koch, L. Nagy and Zs. Illés and Zs. Hortobágyi, D. Barreto **Several cases of backward erosion/liquefaction piping from Hungary**
34	Zsombor Illés, Gábor Nagy **Verification and modelling of seepage control walls**
209	Renato Cosentini, Federico Passeri, Sebastiano Foti **Geophysical and geotechnical characterisation of small earth dams in the Piedmont region for seismic risk assessment**
376	Fernando Danziger, Graziella Maria Faquim Jannuzzi, Arthur Pinheiro, Renato Goldbach **The use of CPT to evaluate the properties of a compacted embankment**
K25	E. Imre, L. Nagy, D. Barreto, J. Lőrincz, Á. Bálint, E. Koch, M. Datcheva, L. Kovács, S. Fityus, V. P. Singh **The use of CPT to evaluate the properties of a compacted embankment**

15:05 – 15:35	Coffee Break

Tuesday	Breakout session B3 - 4	Hall
13:15 – 15:05	2/2. Tests in various soil types	Liszt

Paper	
	Chairman: Tibor Horváth
373	E. Imre, E. Á Bálint, L. Nagy, J. Lőrincz, Zs. Illés, D. Barreto, F. Casini, G. Guida, S. Feng **Examination of saturated hydraulic conductivity using grading curve functions**
16	Priscilla Paniagua, Jean-Sébastien L'Heureux, Marianna Kalogeropoulou **A comparison between grain size distribution methods applied to Halden silt**
100	Paul Mayne, Bruce Miller **Application of modified NTH solution to overconsolidated Hartford clay**
323	An-Bin Huang, Anders Hust Augustesen, Caspar Thrane Leth, Edward Charles George Molyneaux, Lone Krogh **A field study on the effects of fines on the interpretation of CPTu**
133	Tjie-Liong Gouw **Stiff Clay Derivation Through Pressuremeter Test Data**
424	Paola Monaco, Laura Tonni, Sara Amoroso, Maria F. Garcia Martinez, Guido Gottardi, Diego Marchetti, Luca Minarelli **Use of Medusa DMT in alluvial silty sediments of the Po river valley**
281	Yenni Mariana Ramírez Mazo, Juan Pablo Osorio, Sergio Agudelo Flórez **Development of a new electroosmotic consolidation apparatus**
107	Philippe Reiffsteck, Panagiotis Giorgios Karagiannopoulos, Michael Peronne, Jean Benoît, Quang Huy Dang **Cyclic pressuremeter tests with pore pressure measurements, application to CSR evaluation**
486	Lang Liu, Silvio Giger, Derek Martin, Rick Chalaturnyk, Nathan Deisman **Stress and strain dependencies of shear modulus from pressuremeter tests in Opalinus Clay**
334	Anteneh Biru Tsegaye **Determining the radial consolidation coefficient from cone penetration based dissipation tests.**
78	Jacques Monnet, Luc Boutonnier, Dino Mahmutovic **Elastic Interpretation of Unsaturated undrained Pressuremeter Tests in clays**

15:05 – 15:35	Coffee Break

15:35 – 17:40	Keynote & Invited Lectures	Bartók Hall
	Chairman: Richard P. Ray	
	Mitchell Lecture	
15:35 – 16:20	Fernando Schnaid **On the geo-mechanics and geo-characterization of tailings**	
16:20 – 16:40	Break	
	Invited lectures.	
16:40 – 17:10	Helmut Schweiger, Marcos Arroyo **New Advances in Numerical Modelling of CPT**	
17:10 – 17:20	Richard P. Ray **Harmonizing Dynamic Property Measurements of Hungarian Soils**	
17:20 – 17:30	Don J. DeGroot **Recent advances in sampling and laboratory characterization of intermediate soils**	
7:30 – 17:40	Rainier Arndt **P- and S-Wave Hybridseismics: Non-Destructive Geotechnical Site Characterizations Using State-Of-Science Surface Geophysics**	
18:00 – 22:00	Gala Dinner	Europa ship

WEDNESDAY 29 SEPTEMBER

08:00 - 16:30	Registration	
Wednesday	Breakout session B4 - 1	Hall
09:00 – 10:50	6/1. Soil parameters from testing	Bartók
Paper	Chairman: Balázs Móczár	
310	Jana Frankovska, Eliska Kucova **Correlations to estimate engineering properties from dynamic penetration test**	
428	Ramdane Bahar, Meriem Letif, Nourredine Mezouar **Field and laboratory correlations for various Algerian cohesive soils**	
421	Miguel Angel, Benz Navarrete, Pierre Breul, Gabriel Villavicencio Arancibia, Philippe Moustan **Correlation between static and dynamic variable energy cone penetration test**	
381	Alexandru Poenaru, Tudor Saidel, Loretta Batali, Alexandra Bilcu, Alexandra Meirosu **In situ and laboratory soil investigations. Correlations between different parameters specific to Bucharest area.**	
478	Chi-Chin Tsai, L Ge, C W Lu **Prediction model for shear wave velocity of gravelly soil**	
K6	Editha Ehrmanntraut, Carl Wersäll, K. Rainer Massarsch **Soil identification by vibration measurements during dynamic penetration testing – a field study**	
55	Rolando Orense, Yasin Mirjafari **Estimation of fines content and plasticity index of clayey soils using Screw Driving Sounding**	
235	Wengang Zhang, Liang Han, Chongzhi Wu, Goh Anthony T. C., Changyou Yang, Xiaowan Zhou **Investigation on Parameter Correlations for Residual Soils in Singapore**	
261	Nuno Bravo de Cruz **Behaviour of Portuguese granitic residual soils represented in DMT and CPTu soil behaviour type (SBT) charts**	
261	Tariq Arafat **Empirical Correlation of CPT resistance and shear wave velocity**	
10:50 – 11:20	Coffee Break	

Wednesday	Breakout session B4 - 2	Hall
09:00 – 10:50	4/1. Equipments, tests	Lehár

Paper	Chairman: Zbigniew Bednarczyk
134	Michael Peronne, Michel Rispal, Philippe Reiffsteck, Catherine Jacquard **New measuring while drilling technology ASFOREC®**
135	Kevin Berthet, Maddy Murali , Joek Peuchen, Phil Vardon **Add-on Sensors for Cone Penetration Testing**
200	Louis Marcil **Comparison between pressuremeter tests carried out in a controlled environment with Menardtype triplecell vs singlecell pressuremeters**
398	Claudia Meisina, Roberta Bonì, Massimiliano Bordoni, Stefano Stacul, Diego Lo Presti **The importance of minicone penetration test in thin layered soils**
480	Jacques Monnet **Expected precision of the pressuremeter results**
478	Chi-Chin Tsai, L Ge, C W Lu **Prediction model for shear wave velocity of gravelly soil**
157	Luisa Dhimitri, John J. M. Powell, Darren Ward **The friction sleeve measurement in CPTU - Does size matter? - A new study**
K2	J. Peuchen, E. Gómez Meyer **Geo-intelligence from databases of offshore in situ tests in public domain**
350	Diego Marchetti, Fernando Danziger, Graziella Maria Faquim Jannuzzi **Comparison of DMT results using traditional pneumatic equipment and the Medusa DMT in the Sarapuí II soft clay deposit in Brazil**
33	Zbigniew Bednarczyk **Engineering application of smart slope stability insitu and remote monitoring methods in lignite opencast mine**

10:50 – 11:20	Coffee Break

Wednesday	Breakout session B4 - 3	Hall
09:00 – 10:50	5. Evaluation, verification, special modelling	Bhrams

Paper	Chairman: Marcos Arroyo
52	Franz Tschuchnigg **KIM – A method to estimate the relative density of calcareous sands**
65	Lulu Liu, Wenzong Gong, Guojun Cai, Xuepeng Li, Songyu Liu **Evaluation of Coefficient of Consolidation of Nonstandard Dissipation Types of SoilBentonite Wall Based on CPTU**
104	Shehab Agaiby, Paul Mayne **Analytical Evaluation of CPTu Soundings in Soft Chicago Clay**
117	Santiago Peña, Ramiro Gómez **Soft sediments consolidation backanalysis under preload with wick drains**
489	Amin Barari, L B Ibsen **Accounting for stress-dependent stiffness of skirted circular foundation during monotonic loading in layered seabed**
259	Ruan Gomes, Eurípedes Vargas, Raquel Velloso, Guilherme Gomes, Felipe Alves **Development of surrogate for transient flow: model calibration with the Monitored Infiltration Test**
322	Miguel Stanichevsky, Tatiana Stanichevsky **Determination of subgrade reaction coefficient through DMT results for continuous beam foundation design**
K10	B.Intriago, H. Bazurto, D. Besenzon, X. Vera-Grunauer, S. Amoro **Shear wave velocity prediction using different in situ tests at a soft clayey site in Guayaquil (Ecuador)**
186	Zhongkun Ouyang, Paul Mayne **Modified NTH solution for overconsolidated fissured clays**
273	Mária Emőke Imre, Stephen Fityus, Lachlan Bates **Evaluation of dilatometer dissipation test data with no inflexion point.**
166	Arash Pirouzi, Don J. DeGroots **Evaluation of recompression index for structured clays from laboratory constant rate of strain consolidation tests**

10:50 – 11:20	Coffee Break

Wednesday	Breakout session B4 - 4	Hall
09:00 – 10:50	13. Piles	Liszt

Paper	Chairman: Attila Szepesházi
	Zoltán Kőhalmi, Gábor Bibók
38	**"Fresh Take" on an old technology , Construction area bounding and foundation reinforcement with megapile and nailed slope surface protection**
96	Sanchari Mondal, Chin Fung Tsang, Amirhassan Mehdizadeh, Guillermo A. Narsilio, Mahdi M Disfani **Evaluation of Soil Interaction with Laterally Loaded Minipiles using Optic Fibre**
130	julien Habert, Antoine Guimond, Fahd Cuira **Pressuremeter based methods to predict the behaviour of micropiles and grouted anchors**
153	Akiyoshi Kamura, Motoki Kazama **Assessment of stiffness degradation of soil by in-situ cyclic loading using pressuremeter**
317	Adrienn Nepusz, Hudacsek Péter, Wolf Ákos **Pile capacity in calcareous high plasticity clay**
156	Garam Kim, Incheol Kim, Jiyoung Lee, Qaisar Abbas, Junhwan Lee **Normalized py analysis method for laterally loaded piles in sand based on CPT results**
366	Daniel Borbely, Attila Szepesházi, Ferenc Scheuring **Drilling Performance Prediction For Screwed Displacement Piles Based On CPT Testing**
357	Ahmad Kahiel, Salah Sadek, Shadi Najjar **Implication of Spatial Variability on the Design of Piles in Liquefiable Soils**
333	Anteneh Biru Tsegaye **Pore pressure dissipation around driven piles-a simplified approach using the Gauss-divergence method.**
482	Róisín Buckley, Richard Jardine, Stavroula Kontoe **In situ testing in lowmedium density structured chalk**

10:50 – 11:20	Coffee Break

11:20 – 12:20	Invited Lectures	Bartók Hall
	Chairman: Helmut F. Schweiger	
11:20 – 11:40	Richard Jardine **Recent developments in CPT based design procedures for driven piles**	
11:40 – 11:50	Patrick Mengé **Quality control of ground improvement works for large land reclamations**	
11:50 – 12:00	Joek Peuchen **Geo-intelligence from databases of offshore in-situ tests in public domain**	
12:00 – 12:10	E. Imre, Zs. Hortobágyi - M. Hegedűs - V. P. Singh **Evaluation of total stress dissipation test data**	
12:10 – 12:20	Tóth Gyula **Eötvös Torsion Balance in Geophysics, surprising tidal effects**	
12:20 – 13.15	Lunch	

Wednesday	Breakout session B5 - 1	Hall
13:15 – 15:05	6/2. Soil parameters from testing	Bartók

Paper	Chairman: János Szendefy
90	Jędrzej Wierzbicki, Zbigniew Młynarek, Tom Lunne **G0 modulus of sands with varying overconsolidation effect, obtained from SDMT and SCPTU tests**
32	Jean Claude Gress, Matthias Ferreira **Geotechnical site characterization recent advances**
53	Michael Premstaller **SCPT Downhole Seismik The key for the evaluation of the stiffness modulus for sensitive silty soils**
84	Toshifumi Shibata, Shinichi Nishimura, Takayuki Shuku, Shigehiro Futatsugi, Akira Nishimura **Soil classification and correlation between Swedish weight sounding test results and strength parameter**
88	Caroline Forestti-Oliveira, Miguel Angel, Benz Navarrete, Quoc-Anh Tran, Pierre Breul, Bastien Chevalier, Claude Bacconnet **Soil elastic modulus and shear wave velocity determination through dynamic penetrometer Panda 3® and wave analysis**
18	Yue Hu, Yu Wang **Subsurface soil classification and zonation from limited CPT soundings in a 2D vertical cross-section**
189	Amadeu Deu, Xavier Martí, Santiago Peña, Dani Tarragó, Antonio Gens, Marcelo Devincenzi **DMT, CPTU and laboratory tests comparison for soil classification and strength parameters of deltaic soft soils in Barcelona Port**
347	Shaoli Yang **Application of machine learning on soil classification based on CPTU data**

15:05 – 15:35	Coffee Break

Wednesday	Breakout session B5 - 3	Hall
13:15 – 15:05	4/2. Equipments, tests	Lehár

Paper	Chairman: Péter Hudacsek
44	Alexandre Lopes, Niculai Droniuc, Alain Puech, Francis Cour **Assessment of shear stiffness at small strain rate using an innovative monocell pressuremeter probe**
46	Francis Cour, Alexandre Lopes **An innovative MonoCell pressuremeter probe to meet the recent needs of geotechnical engineering**
82	Catherine Jacquard, Michel Rispal **Ménard Pressiometric Tests crosschecked under the ARSCOP program in a siltysandy soil**
83	Theo Besson, Catherine Jacquard, Michel Rispal, Philippe Reiffsteck Fabien Szymkiewicz **The Dilatosol®, a new tool for soil characterization**
111	Philippe Reiffstec, Lucile Saussaye, Thibaut Arrachepied, Julien Habert **Borehole quality influence on expansion test results**
113	Alexandre Teyssier, Philippe Reiffstec, Michel Rispal, Catherine Jacquard **Evaluation of modulus deformation and drainage condition during Cone Loading Tests in sands**
91	Alexandre Teyssie, Miguel Angel, Benz Navarrete, Quoc-Anh Tran, Jean-Christophe Pellez, Catherine Jacquard **Field correlation between shear wave velocity measured by Panda 3®, Cone penetrometer (CPT) and geophysical tests**
341	Mária Emőke Imre, Tibor Firgi, Gabor Telekes, Gábor Mile, József Módos **CPTu dissipation tests of a landfill**
411	Rhamira Pascual, Roberto Mazzarone, George Teles, Graziella Maria Faquim Jannuzzi, Arthur Pinheiro, Fernando Danziger, Davi Ferreira de Oliveira **Application of non-destructive techniques to assess sample quality in soft clay: a case study**

15:05 – 15:35	Coffee Break

Wednesday	Breakout session B5 - 3	Hall
13:15 – 15:05	8. Numerical modelling	**Liszt**

Paper	Chairman: Franz Tschuchnigg
404	Ashraf Osman **An Eulerian-based finite element approach for simulating cone-penetration tests in soft clay**
176	Laurin Hauser, Helmut F. Schweiger **Numerical simualtion of cone penetration testing using a unified state parameter model for clay and sand**
206	Ali Khosravi, Alejandro Martinez, Jason DeJong **Effect of Contact Parameters on Simulation of CPT Measurements in Granular Materials**
224	Lluís Monforte, Marcos Arroyo, Antonio Gens, Josep Maria Carbonell **Exploring the effect of clay permeability on CPTu metrics through numerical modelling**
204	Alessandra Di Mariano , Sara Amoroso, Marcos Arroyo, Paola Monaco, Antonio Gens **DMT/SDMT testing and its use in the numerical modelling of a deep excavation**
293	Vincenzo Silvestri, Ghassan Abou-Samra **Coupled Eulerian-Lagrangian 3D Finite Element Technique for analysis of dilatometer test in clay**
448	Hamid Hosseini Sadrabadi, Bruno Chareyre, Christophe Dano, Luc Sibille, Pierre Riegel, Ankit Sharma **Assessing the interpretation of a cyclic Cone Penetration Test (CPT) under saturated conditions: numerical and experimental approaches.**
498	Julian Lehn, Ernö Biczók **Numerical modelling of soil nailing combined with flexible facing for slope stabilization**
269	Maria Emőke Imre **Coupled models to describe total stress dissipation tests**

15:05 – 15:35	Coffee Break

15:35 – 16:20	Keynote	Bartók Hall
	Chairman: António Viana Da Fonseca	
	Keynote 3	
15:35 – 16:20	Ray Wood **Integrating Recent Advances in Industry Site Characterization Capabilities to Reduce Unforseeability in Sub-Surface Conditions for Capital Works Projects**	
16:20 – 16:40	**Closing Ceremony**	**Bartók Hall**

POSTER session		Hall
Monday 08:00 Wednesday 15:35		Lehár I.
Paper		
	Ryoko Sera, Masatoshi Okamura, Hiromitsu Nishiyama, Masahiko Harigaya, Reiko Kuwano	
182	**On-site Monitoring Surveys and Investigations of Subsurface Cavity for Effective Road Cave-in Prevention**	
	John Damm	
430	**The Use of Various Geophysical Methods to Characterize the Velocity Profile of a Deep Soil Site**	
	Kitazawa Masashi, Tadashi Hara, Noboru Nakajima	
246	**Investigation of the relationship between fluvial topography and the factors associated with the occurrence of liquefaction**	
	Kazunari Imaide, Shin-ichi Nishimura, Toshifumi Shibata, Takayuki Shuku	
247	**Evaluation of liquefaction probability of earthfill dam over next 50 years using geostatistical method based on CPTU**	
	Hiroshi Nakazawa, Tadashi Hara, Daisuke Suetsugu, Kitazawa Masashi	
324	**Post-liquefaction behaviors based on in-situ investigations after earthquake**	
	Reiko Kuwano, Naoto Kominami, Masahide Otsubo, Itsuki Sato, Jiro Kuwano	
120	**Field Investigation on a Sinkhole Developed in the Loose Volcanic Ground**	
	Claver Pinheiro, Rubens Alves, Alfran Moura	
138	**Comparative assessment of methods to predict the bearing capacity of continuous flight auger piles**	
	Bruma Morganna Mendonca de Souza, Lucas Fernandes, Guilherme de Oliveira Souza, Osvaldo Freitas Neto	
229	**Correlation study between DCP and CBR of typical soils from Natal/RN, Brazil as an instrument for in situ technological control**	
	Claver Pinheiro, Fausto Gómez, Sara Rios, Antonio Viana da Fonseca	
161	**Comparative assessment of soil behavior by in situ and laboratory tests**	

Workshops

Sunday 26 September 16:00 – 18:00	DISSIPATION TEST	Budapest Congress Center
	Joek Peuchen	
1	**Pore presssure dissipation tests for offshore geohazards**	
	K. Rainer Massarsch	
2	**Pore water dissipation following pile driving in clay**	
	Diego Marchetti	
3	**The dissipation test performed with the standard DMT, with the Medusa DMT, partial drainage**	
	Laurin Hauser, Helmut Schweiger	
4	**Numerical study on cone penetration and the dissipation afterwards**	
	Osman, Ashraf	
5	**Penetration modelling**	
	Emoke Imre, Stephen Fityus, Lachlan Bates, Márton Hegedűs	
6	**Short evaluation in embedded system**	

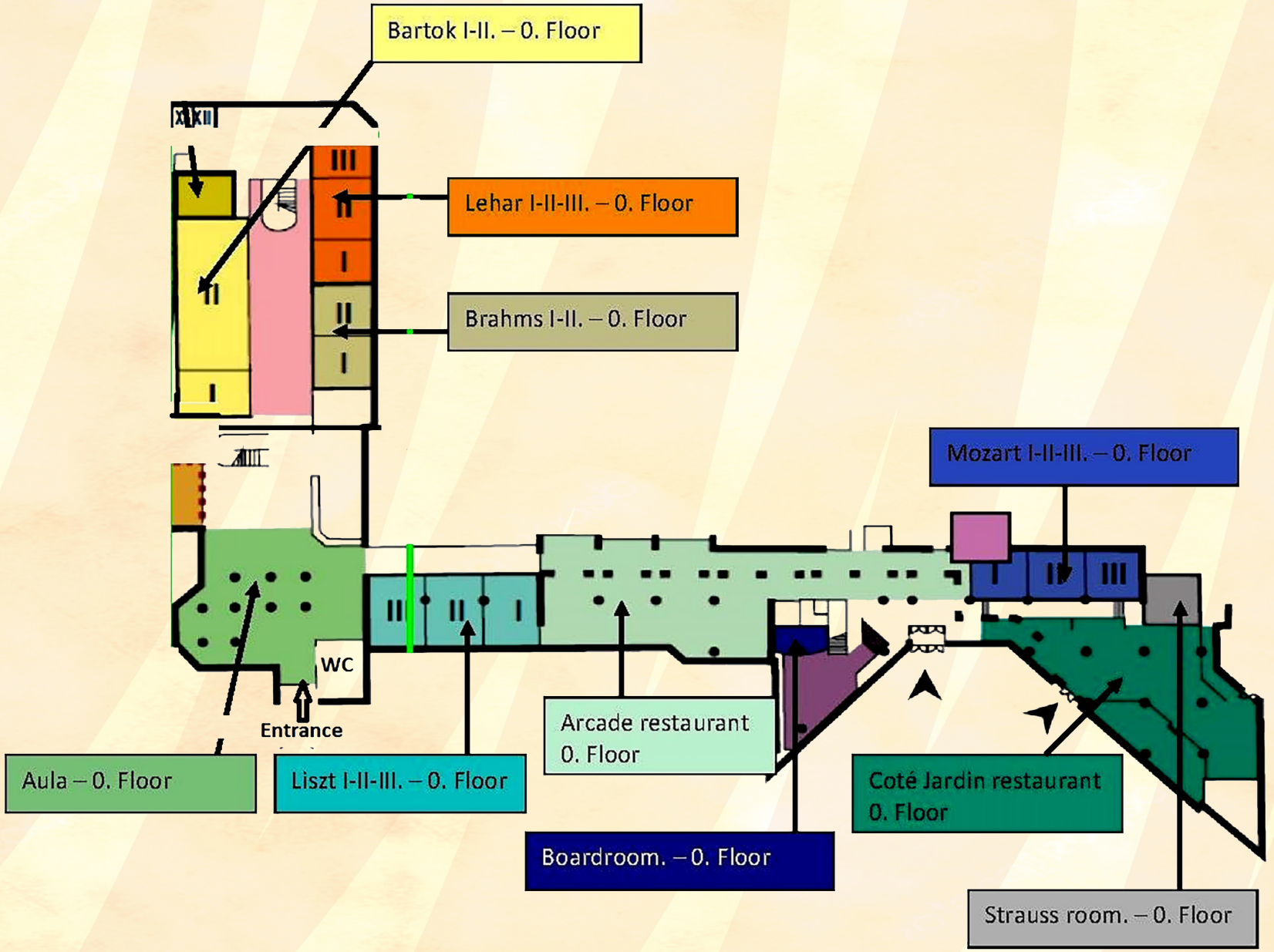
Thursday 30 September **14:00 – 15:30**	SPECIAL SOILS	Hungarian Academy of Sciences
Open-ing	János Józsa	
1	Jean-Sébastien L'Heureux - NGI **Sensitive/quick clay in Norway**	
2	Szilvia Simon **Surface salinization from deep source**	
3	Zsombor Illés **Dispersive soils from geophysics viewpoint**	
4	János Lógó **Optimisation in water construction engineering ….results until now**	
5	Emőke Imre, Lachlan Bates, Daniel Bishop Szeged soils, Ballina soil	

Thursday 30 September **15:30 – 17:00**	MSW - Landfill energy – biogas	Hungarian Academy of Sciences
Open-ing	János Józsa	
1	Kornél Kovács **A stimulating bacterium in the methane development, H2 production**	
2	DNS- Arif Mohammad **Decomposition Characteristics of Municipal Solid Waste in a Bioreactor**	
3	László Tóth, Emőke Imre, J. Ősz et al **Wind energy plant on the top of a landfill hill – Hungary**	
4	Viktória Parrag, Kornél Szalay **Potential applications of hyperspectral imaging with a particular focus on the agriculture and food industry**	
5	Ágnes Bálint **Soil Pollution – heavy metals**	
6	Hosam Bayoumi **Soil pollution – effect of heavy metals on microbiology of soils**	

Friday 01 October **11:00 – 13:00**	INVERSE PROBLEMS Prof. Tom Schanz Memory	Hungarian Academy of Sciences
Open-ing	János Józsa	
1	Peter Berzi **Secant method in multidimension**	
2	Sai Sri Harsha Vallurupalli, M.Sc. Rubochum **Optimizing the design of retaining wall systems using multiobjective optimization strategies**	
3	Chenyang Zhao **A hybrid model for mechanized tunnel excavation**	
4	Elham Mahmoudi **Reliability-based Robust Design Optimization of a Rock Salt Cavern**	
5	Tamas Pfeil **An immuno-chemical model some thoughts before parameter identification**	
6	Péter Bakucz **Traffic and automated car development**	
7	Maria Datcheva (chair) **Epilogue: Professor Schanz**	

Friday 01 October 14:00 – 16:00	GRAVITATION	Hungarian Academy of Sciences
Open-ing	János Józsa	
1	Bruno Meurers, Gábor Papp, Hannu Ruotsalainen, Judit Benedek, Roman Leonhardt **Environmental effects in tilt and gravity residuals observed at Conrad Observatory (Austria)**	
2	Völgyesi Lajos Development of the Eötvös balances: automatization and readout	
3	Szondy György **Eötvös balance, the everythingmeter: environmental effects**	
4	Ván Péter **The weak equivalence principle and the 5th force: the new Eötvös experiment**	
5	Mező György **Data collection and data processing: the example of Eötvös balance networks**	
6	Gyula Tóth **Outlier tolerant automated inversion of noisy data captured on the Eötvös torsion balance**	

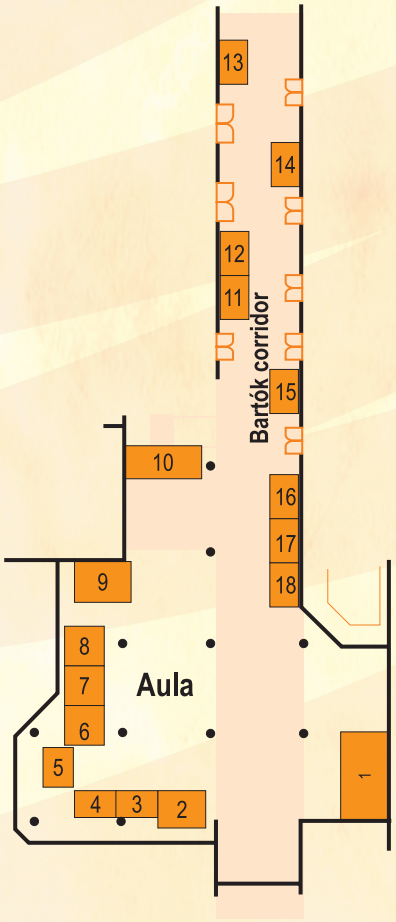
Friday 01 October 16:00 – 20:00	GRADING CURVE Prof. Gyan Pande Memory	Hungarian Academy of Sciences
Open-ing	János Józsa	
Part 1		
1	John McDougall **The grading curves on the entropy diagram – a representation of salt dissolution and grading entropy diagram**	
2	Casini – Guida **Fracture tests and Weibull distribution for the grading curves**	
3	Wiebke Baille **Sand/Silt mixtures (Rahemi/Baille/Wichtmann)**	
4	Daniel Barreto **Fine content**	
5	Imre et al **Fractals and grading curves**	
6	Ákos Nemcsics **A pattern of rocks**	
Part 2		
1	Min Wang Role of Gradation Curve in Description of Mechanical Behavior of Unsaturated Soils	
2	Shuyin Feng **k and grading curve**	
3	Hans-Georg Mattutis **Shape effects, friction**	
4	Janos Török **Edwards Statistical Physics in granular matter modelling**	
5	Daniel Barreto **Critical state and DEM**	
6	Quỳnh Hương Đặng, Emoke Imre, Ágnes Balint **Permeability and grading curve**	
6	E Imre et al **Grading entropy - fractals – critical state friction angle and density**	
6	Fityus et al **Open mine rehabilitation work and soil maturity**	



LAYOUT OF THE MEETING ROOMS

LIST OF EXHIBITORS

ISC'6



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1.	Registration
2.	IDS Georadar
3.	APAGEO
4.	Wille-Geotechnik/APS
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