



ISC'6

CONFERENCE

BUDAPEST

26-29 September 2021

6TH INTERNATIONAL CONFERENCE ON GEOTECHNICAL AND GEOPHYSICAL SITE CHARACTERISATION



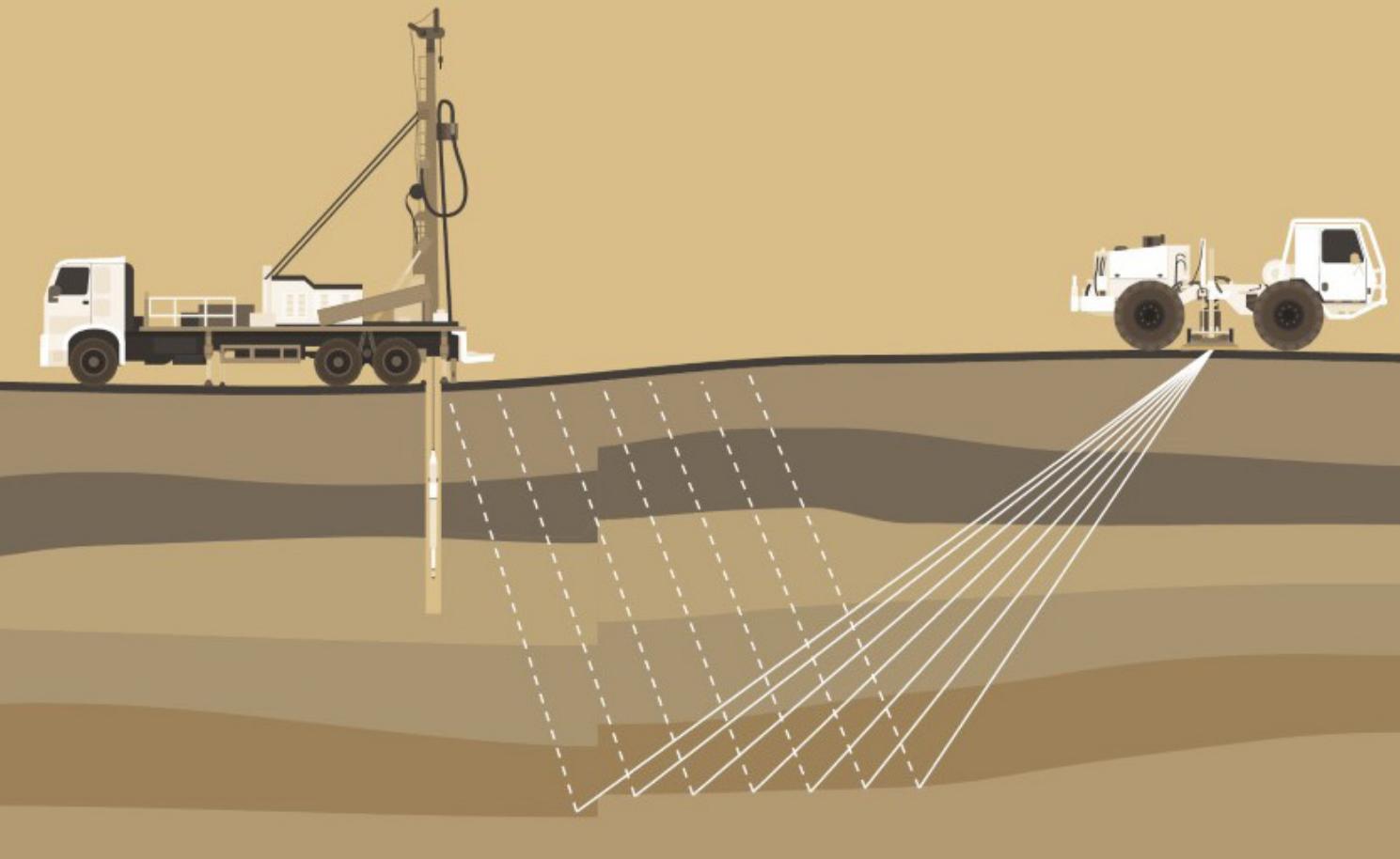
"Toward synergy at site characterisation"

Budapest Hungary September 26-29, 2021.

PROGRAM



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



For more information visit
fugro.com

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
26 th September	27 th September	28 th September	29 th September
	Registration - info BARTÓK HALL Opening Ceremony 09:00-09:45 MAIN SESSION Invited Lecture Catherine Jacquard 9:45-10:15 Invited Lecture József Puszta 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 Bartók Hall Keynote 1 Jason DeJong 15:35-16:20 Break 16:20-16:40 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 Meeting of TC102 Bartók Hall	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 Bartók Hall Mitchell Lecture Fernando Schnaid 15:35-16:20 Break 16:20-16:40 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 Gala Dinner 18:00-22:00 Európa Ship	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 Emöke 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 Bartók Hall Keynote 3 Ray Wood 15:35-16:20 Closing Ceremony 16:20-16:40
Short Course 9:00-16:00 In situ testing using the DMT, the SDMT and the Medusa DMT	Exhibition open	Exhibition open	Exhibition open

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	
	Catherine Jacquard	
09:45 – 10:15	The pressuremeter: recent developments in testing and design methods	
	József Puszta	
10:15 – 10:35	Soil Investigation Routine in Hungary	
	Jean-Sebastien L' Heureux	
10:35 – 10:45	The Norwegian GeoTest Site Infrastructure Project	
	Klaus Thoeni - Stephen Fityus - James Cudmore - Anna Giacomini	
10:45 – 10:55	Structural characterisation 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	
	Marcos Arroyo	
11:25 – 11:45	Geotechnical characterization: does it fit in a code? An European perspective	
	António Viana Da Fonseca	
11:45 – 11:55	Equivalent Soil Profiles: CPT_u-based soil classification for liquefaction	
	Sebastiano Foti	
11:55 – 12:05	Uncertainties in seismic site characterization	
	Serge Varaksin	
12:05 – 12:15	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		
39	Fracture system characterization by Pressure Probe		
379	Mingi Kim, Choong-Ki Chung		
484	Application of GISbased neural network models for subsurface stratification		
196	Chan-Young Yune, Kyoung-Jea Jun		
327	Topographic Changes in Real-scale Debris-flow Experiment using Terrestrial LiDAR		
108	Goran Vlastelica, Branko Kordić, Kristina Pikelj		
331	Discernment of layers in heterogeneous rock masses using Terrestrial Laser Scanning intensity		
471	Ana Raič, Nataša Štambuk Cvitanović, Goran Vlastelica, Ákos Török, Péter Görög		
164	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		
108	Undisturbed sampling of non-cohesive soils by drilling		
327	Philippe Reiffsteck, Franck Pilnière, Gilles Desanneaux, Fabrice Jadé		
115	A+ sampler for natural fine soils		
3	Jubert Pineda, Kaiwen Ouyang, Laxmi Prasad Suwal, Scott Sloan		
81	Effects of waxing on sample quality in soft soils		
260	Philippe Reiffsteck, Panagiotis Giorgios Karagiannopoulos, Michael Peronne		
300	Mesure of the water pressure during the pressuremeter test in a calibration chamber-physical and numerical approach		
469	Natalie Murphy, Krystle-Rae Biram, Scott Fidler		
164	Development of a site-specific correlation for the verification of relative density of dredged reclamation sand fill using CPT results		
164	Fausto Gómez, Antonio Viana da Fonseca, Cristiana Ferreira, Catarina Ramos, Diana Cordeiro		
164	Novel sampling techniques for collecting high-quality samples: Portuguese experience in liquefiable soils		
164	Peter Nagy, Dietmar Adam, Peter Freitag		
164	Evaluation of the compaction effect from deep vibro compaction using the seismic cone penetration test		
164	Volker Eitner, Ferdinand Stoelben		
164	Qualification criteria for operators and enterprises performing ground investigation		
164	Fauzan Sahdi, Phil Watson, M. Fraser Bransby, Christophe Gaudin, Joe Tom, Noor Laham		
164	Measurements of longterm strength changes due to cyclic loading in Gulf of Mexico clay		
164	Marcelo Penna, Anderson Diego Dárdis de Macedo, Gustavo Prado Guerra, António Sérgio De Pietro Damasco Penna		
164	DMT tests for compaction control purpose		
164	Patrick Mengé, Mathijs Maes		
164	Influence of Compaction on Material Behavior Index from CPT for carbonate sands		
164	William G. Lukas, Don J. DeGroot, Jason T. DeJong		
164	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.	
	Jason DeJong	
15:35 – 16:20	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 MinimallImpact 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 Oberholzner, Anna Fankhauser, Roman Marte, Franz Tschuchnigg, Michael Premstaller Characterization of microstructure in silty soils using SCPT_u tests	
73	Victor Hugo, Barbosa, Maria Esther Soares Marques, Antônio Carlos Rodrigues Guimarães Characterization of expansive soils in southwest Brazilian Amazon	
210	Paolo Ruggeri, Viviene Marianne Esther Fuzzetti, 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 CPT_u 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 Berislavljević 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, László 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 Gruber 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 Györi, 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 Hamed Hoseinimighani, Janos Szendefy	
312	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. Lórincz, 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. Lórincz, 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 CPT_U	
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 Hybridseisms: 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 CPT_u 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 Boni, 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		
	Diego Marchetti, Fernando Danziger, Graziella Maria Faquim Jannuzzi		
350	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 Stanichovsky, Tatiana Stanichovsky		
	Determination of subgrade reaction coefficient through DMT results for continuous beam foundation design		
K10	B.Intriago, H. Bazuerto, 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	
130	Evaluation of Soil Interaction with Laterally Loaded Minipiles using Optic Fibre julien Habert, Antoine Guimond, Fahd Cuira	
153	Pressuremeter based methods to predict the behaviour of micropiles and grouted anchors Akiyoshi Kamura, Motoki Kazama	
317	Assessment of stiffness degradation of soil by in-situ cyclic loading using pressuremeter Adrienn Nepusz, Hudacsek Péter, Wolf Ákos	
156	Pile capacity in calcareous high plasticity clay Garam Kim, Incheol Kim, Jiyoung Lee, Qaisar Abbas, Junhwan Lee	
366	Normalized py analysis method for laterally loaded piles in sand based on CPT results Daniel Borbely, Attila Szepesházi, Ferenc Scheuring	
357	Drilling Performance Prediction For Screwed Displacement Piles Based On CPT Testing Ahmad Kahiel, Salah Sadek, Shadi Najjar	
333	Implication of Spatial Variability on the Design of Piles in Liquefiable Soils Anteneh Biru Tsegaye	
482	Pore pressure dissipation around driven piles-a simplified approach using the Gauss-divergence method. Róisín Buckley, Richard Jardine, Stavroula Kontoe	
10:50 – 11:20	In situ testing in lowmedium density structured chalk	

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 Mlynarek, 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	
	Toshifumi Shibata, Shinichi Nishimura, Takayuki Shuku, Shigehiro Futatsugi, Akira Nishimura	
84	Soil classification and correlation between Swedish weight sounding test results and strength parameter	
	Caroline Forestti-Oliveira, Miguel Angel Benz Navarrete, Quoc-Anh Tran, Pierre Breul, Bastien Chevalier, Claude Bacconnet	
88	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	
	Amadeu Deu, Xavier Martí, Santiago Peña, Dani Tarragó, Antonio Gens, Marcelo Devincenzi	
189	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	
	Alexandre Lopes, Niculai Droniuc, Alain Puech, Francis Cour	
44	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 silty sandy 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 Arrache pied, 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, Gábor 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	
	Laurin Hauser, Helmut F Schweiger	
176	Numerical simulation 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	
	Hamid Hosseini Sadrabadi, Bruno Chareyre, Christophe Dano, Luc Sibille, Pierre Riegel, Ankit Sharma	
448	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	
	Ray Wood	
15:35 – 16:20	Integrating Recent Advances in Industry Site Characterization Capabilities to Reduce Unforeseeability in Sub-Surface Conditions for Capital Works Projects	
16:20 – 16:40	Closing Ceremony	Bartók Hall

POSTER session

Monday 08:00 – Wednesday 15:35

Hall

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**

- 1 Joek Peuchen
Pore pressure 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	SPECIAL SOILS	Hungarian Academy of Sciences
14:00 – 15:30		

Open-ing	János Józsa
1	Jean-Sébastien L'Heureux - NGI
2	Sensitive/quick clay in Norway
3	Szilvia Simon
4	Surface salinization from deep source
5	Zsombor Illés
6	Dispersive soils from geophysics viewpoint
7	János Lógó
8	Optimisation in water construction engineeringresults until now
9	Emőke Imre, Lachlan Bates, Daniel Bishop
10	Szeged soils, Ballina soil

Thursday 30 September	MSW - Landfill energy – biogas	Hungarian Academy of Sciences
15:30 – 17:00		

Open-ing	János Józsa
1	Kornél Kovács
2	A stimulating bacterium in the methane development, H₂ production
3	DNS- Arif Mohammad
4	Decomposition Characteristics of Municipal Solid Waste in a Bioreactor
5	László Tóth, Emőke Imre, J. Ősz et al
6	Wind energy plant on the top of a landfill hill – Hungary
7	Viktória Parrag, Kornél Szalay
8	Potential applications of hyperspectral imaging with a particular focus on the agriculture and food industry
9	Ágnes Bálint
10	Soil Pollution – heavy metals
11	Hosam Bayoumi
12	Soil pollution – effect of heavy metals on microbiology of soils

Friday 01 October	INVERSE PROBLEMS	Hungarian Academy of Sciences
11:00 – 13:00	Prof. Tom Schanz Memory	

Open-ing	János Józsa
1	Peter Berzi
2	Secant method in multidimension
3	Sai Sri Harsha Vallurupalli, M.Sc. Rubochum
4	Optimizing the design of retaining wall systems using multiobjective optimization strategies
5	Chenyang Zhao
6	A hybrid model for mechanized tunnel excavation
7	Elham Mahmoudi
8	Reliability-based Robust Design Optimization of a Rock Salt Cavern
9	Tamas Pfeil
10	An immuno-chemical model some thoughts before parameter identification
11	Péter Bakucz
12	Traffic and automated car development
13	Elham Mahmoudi
14	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

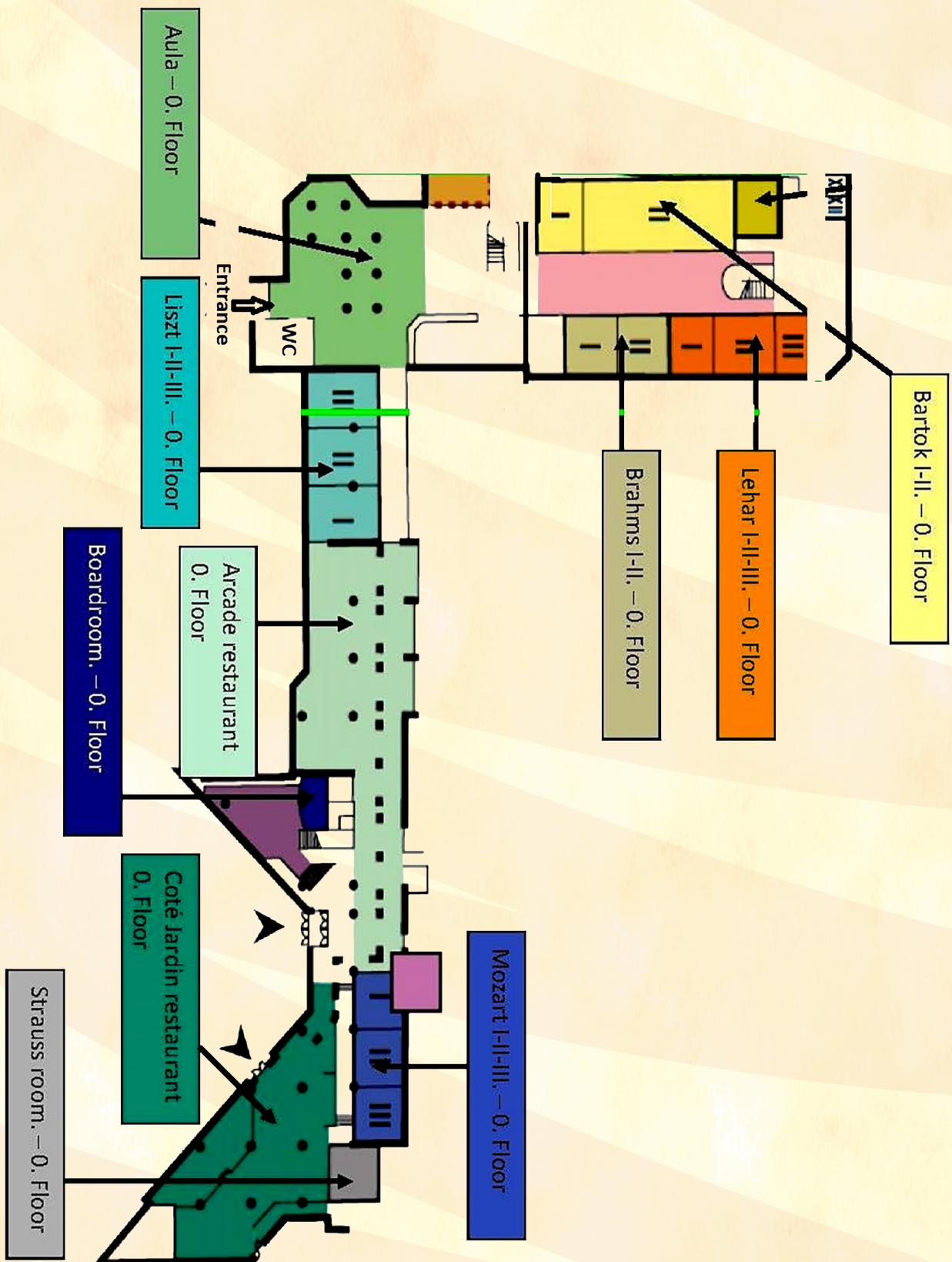
Part 1

- 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

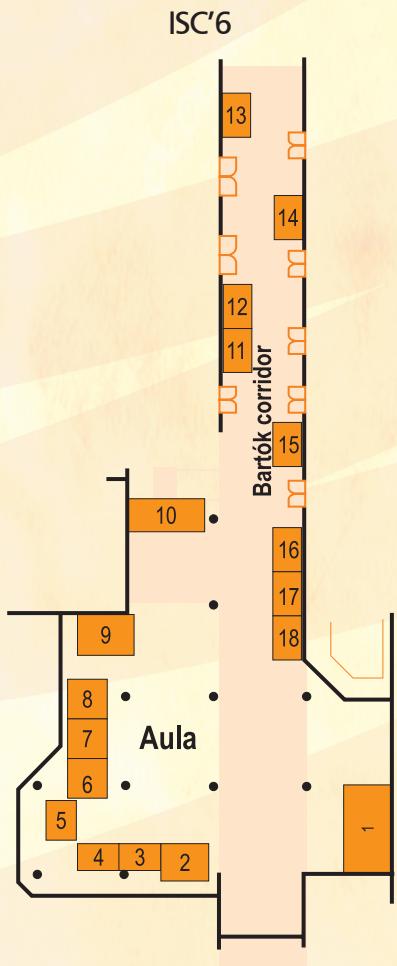
Part 2

- 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

AYOUT OF THE MEETING ROOMS



LIST OF EXHIBITORS



Budapest Convention Center

Standnumber	Company name
1.	Registration
2.	IDS Georadar
3.	APAGEO
4.	Wille-Geotechnik/APS
5.	Sol Solution
6.	A. P. van den Berg
7.	VJ Tech Ltd.
8.	Robertson Geologging Ltd.
9.	FUGRO
10.	Geomil Equipment
11.	Syscom Instruments S. A.
12.	Jean Lutz S. A.
13.	EMerald Geomodelling AS
14.	Geotomographie GmbH
15.	Sixense Soldata M. o.
16.	Cambridge Insitu Ltd.
17.	Studio Prof. Marchetti
18.	GDS Instruments

PLATINUM SPONSOR



SPONSOR



