

# EYGEC 2014

## (Barcelona, 2<sup>nd</sup>-5<sup>th</sup> September 2014)

### PROGRAM

**Tuesday, 2<sup>nd</sup> September 2014**

18:30-20:30	<b>Registration and Welcome reception</b> Room D2-212, Building D-2 second floor
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**Wednesday, 3<sup>th</sup> September 2014. Building C-2, ground floor**

8:00-8:30	<b>Registration</b>
8:30-8:45	<b>OPENING</b>
8:45-9:00	<b>Address by Roger FRANK</b> President of the International Society for Soil Mechanics and Geotechnical Engineering
<b>9:00-11:00</b>	<b>SESSION W1: Experimental studies and constitutive models</b> <b>Chair: Giuseppe Modoni, University of Cassino</b>
9:00-9:30	KEYNOTE LECTURE: <u>Slope stability in sanitary landfills</u> Cesar SAGASETA (Universidad de Cantabria, Spain)
9:30-9:45	<i>Experimental study of strain accumulation of silica sand in a cyclic triaxial test</i> Jelle BENOOT (Belgium)
9:45-10:00	<i>Long-term behavior of crushed concrete in road structure</i> Taavi DETTENBORN (Finland)
10:00-10:15	<i>Effect of pre-loading on dynamic soil properties and deformation characteristics</i> Máté VÁMOS (Hungary)
10:15-10:30	<i>Experimental and numerical (DEM and FEM) non-cohesive soil uniaxial compression</i> Šarūnas SKUODIS (Lithuania)
10:30-10:45	<i>Effective stress model for soft Scandinavian clays</i> Jon A. RØNNINGEN (Norway)
10:45-11:00	<i>Shear modulus of selected cohesive soils in a wide range of strain</i> Katarzyna GABRYS (Poland)
<b>11:00-11:30</b>	<b>COFFEE BREAK</b>
<b>11:30-13:00</b>	<b>SESSION W2: Dynamics problems</b> <b>Chair: Roger Frank, CERMES - École Nationale de Ponts et Chaussées</b>
11:30-11:45	<i>Characteristics of oscillatory drums in dynamic roller compaction</i> Johannes PISTROL (Austria)
11:45-12:00	<i>Modelling the behaviour of a disk of clay during pile driving using hypoplasticity</i> Henri de CHAUNAC (Belgium)
12:00-12:15	<i>Vibration isolation in soil by thin vertical foam barriers</i> Julian SPRENGEL (Germany)
12:15-12:30	<i>Advanced analyses of cone penetration tests in fine-grained soils</i> Markus UHLIG (Germany)
12:30-12:45	<i>Multichannel Analysis of Surface Waves for Estimation of Soils Stiffness Profiles</i> Elín ÁSTA ÓLAFSDÓTTIR (Iceland)
12:45-13:00	<i>South Toulon tube: numerical back-analysis on a monitoring zone</i> Jean-Pierre JANIN (France)
<b>13:00-14:00</b>	<b>LUNCH</b>

<b>14:00-16:00</b>	<b>SESSION W3: Pile foundations</b> <b>Chair: Lidija Zdravkovic, Imperial College</b>
14:00-14:30	KEYNOTE LECTURE: <i>Progressive failure in overconsolidated clays</i> Antonio GENS (Universitat Politècnica de Catalunya, Spain)
14:30-14:45	<i>Static load test analysis for 600 mm bored pile in stiff soil</i> Tomislav ŠIŠA (Croatia)
14:45-15:00	<i>Behaviour of single piles under axial loading</i> Joana BETENCOURT RIBEIRO (Portugal)
15:00-15:15	<i>Field measurements investigating the stress strain behavior of driven pile foundations on hard soil</i> Dmitry SURSANOV (Russia)
15:15-15:30	<i>Piling phenomena in weak coral rock</i> Çağdaş ARDA (Turkey)
15:30-15:45	<i>Peculiarities of implementation of primary numerical modeling when determination of the forces of negative friction on pile side surface in condition of its test with static load</i> Dmytro KARPENKO (Ukraine)
15:45-16:00	<i>Determination of the bearing capacity value of large diameter piles using the Osterberg test method and large scale tests</i> Irina ZAVARZINA (Ukraine)
<b>16:00-16:30</b>	<b>COFFEE BREAK</b>
<b>16.30-18.00</b>	<b>SESSION W4: Geo-environmental problems</b> <b>Chair: Antonio Gens, UPC</b>
16:30-16:45	<i>Comparison of 2D and 3D FEM Calculations, Strengthening of the Little Belt Bridge of 1935 in Denmark</i> Bjørn STAGHØJ KNUDSEN (Denmark)
16:45-17:00	<i>Zero-valent iron/pumice granular mixtures used in permeable reactive barriers for the remediation of heavy metals contaminated groundwater</i> Stefania BILARDI (Italy)
17:00-17:15	<i>Numerical analysis for improved design of piled and other ground heat exchanger applications</i> Francesco CECINATO (Italy)
17:15-17:30	<i>The effect of freeze-thaw action on the mechanical properties of the active Bahlui clay stabilized with lime and/or cement</i> Anca HOTINEANU (Romania)
17:30-17:45	<i>Heating and cooling an energy pile under working load in Valencia</i> María DE GROOT (Spain)
17:45-18:00	<i>Pressuremeter tests on a rock glacier in the Swiss Alps</i> Thomas BUCHLI (Switzerland)
19:30-22:00	<b><i>Spanish Tapas Cooking Workshop (BcnKitchen)</i></b>

Thursday, 4<sup>th</sup> September 2014. Building C-2, ground floor

<b>9.00 – 11.00</b>	<b>SESSION T1: Marine geotechnics.</b> <b>Chair: Marcos Arroyo, UPC</b>
9:00-9:30	KEYNOTE LECTURE: <u>How to build confidence in numerical analysis</u> Lidija ZDRAVKOVIC (Imperial College, UK)
9:30-9:45	<i>Multi-disciplinary site investigations: integration of geology, geophysics and geotechnics in offshore wind projects</i> Iñaki FUNES MACARRO (Denmark)
9:45-10:00	<i>On the multi-directional loading of a monopile foundation: finite element modeling</i> Brian SHIEL (Ireland)
10:00-10:15	<i>Feasibility of simulating pile set-up in centrifuge model tests</i> Dirk DE LANGE (The Netherlands)
10:15-10:30	<i>Assessment of mudmat foundation settlements in calcareous soils</i> Joar SPENCER GLOPPESTAD (Norway)
10:30-10:45	<i>Numerical and laboratory analysis of anchors embedded in sandy seabed</i> Fernando CAÑIZAL (Spain)
10:45-11:00	<i>Pre-design of gravity-based sub-structures for offshore wind turbines</i> David ABADÍAS (Spain)
<b>11:00-11:30</b>	<b>COFFEE BREAK</b>
<b>11.30 – 13.00</b>	<b>SESSION T2: Soil improvement.</b> <b>Chair: Pere Prat, UPC</b>
11:30-11:45	<i>The design of soil reinforced structures with thin concrete facing panels under railways</i> Viktor TÓTH (Czech & Slovak)
11:45-12:00	<i>Experimental and numerical approaches of the design of geosynthetic reinforcements overlying voids</i> Audrey HUCKERT (France)
12:00-12:15	<i>Strength verification of soil-cement columns; a scale laboratory investigation of the Push-In Resistance Test</i> Martin TIMONEY (Ireland)
12:15-12:30	<i>Three dimensional numerical modelling of tunnels with jet grouting canopy</i> Maciej OCHMANSKI (Poland)
12:30-12:45	<i>Seminatural experimental studies of geotextile encased stone columns</i> Roman SHENKMAN (Russia)
12:45-13:00	<i>Feasibility Study of Random Fibre Reinforced Railway Ballast</i> Femi AJAYI (United Kingdom)
<b>13:00-14:00</b>	<b>LUNCH</b>
<b>14.00-16.00</b>	<b>SESSION T3: Geo-hazards.</b> <b>Chair: Cesar Sagaseta, Universidad de Cantabria</b>
14:00-14:30	KEYNOTE LECTURE: <u>Building a large tunnel next to Sagrada Familia</u> Alberto LEDESMA (Universitat Politècnica de Catalunya, Spain)
14:30-14:45	<i>Geo-Hazards and Urban Planning</i> Egi BOZO (Albania)
14:45-15:00	<i>Geotechnical supervision of a construction work of reservoirs in karst region</i> Davorin ŠINDLER, Marko KAIĆ (Croacia)
15:00-15:15	<i>Rockfall experimental investigation in 3D space</i> Pavlos ASTERIOU (Greece)
15:15-15:30	<i>Geotechnical Risk Management applied at reconstruction of underground parking in historical and vulnerable urban surrounding</i> Auke T. BALDER (The Netherlands)

15:30-15:45	<i>Informed decisions on safety assessments of historic structures</i> Jaap WIERENGA (The Netherlands)
15:45-16:00	<i>Lindisfarne castle: a rock mass stability assessment</i> Katherine JONES (United Kingdom)
<b>16:00-16:30</b>	<b>COFFEE BREAK</b>
<b>16:30-18:00</b>	<b>SESSION T4: Soil-structure interaction</b> <b>Chair: Lidija Zdravkovic, Imperial College</b>
16:30-16:45	<i>Earth pressure on retaining walls in slopes</i> Georg AUSWEGER (Austria)
16:45-17:00	<i>Up against the wall</i> David HINXMAN (UK)
17:00-17:15	<i>Stability analysis of an underground structure cut into calcareous marl, Castle Hill, Budapest (Hungary)</i> Balázs CZINDER (Hungary)
17:15-17:30	<i>Comparative numerical modelling of granular soil embankment stability using LEM, FEM, FEM-SPH and DEM approaches</i> Adrian Liviu BUGEA (Romania)
17:30-17:45	<i>Safety factor against sliding of gravity dams founded on fractured rock masses considering an impersistent joint set</i> Miriam CABRERA (Spain)
17:45-18:00	<i>Shear band localization behind retaining walls</i> Adlen ALTUNBAŞ (Turkey)
18:00-18:30	CLOSURE
<b>20.00-22.30</b>	<b>CONFERENCE DINNER</b>

**Friday, 5<sup>th</sup> September 2014**

8:00-14:00	TECHNICAL VISIT: Barcelona High-speed train works / Sagrada Familia
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