

# Fourth International Young Geotechnical Engineers Conference



Alexandria, Egypt: 3<sup>rd</sup> – 6<sup>th</sup> October 2009

## CONFERENCE PROGRAM at El-Mahrousa Venue

Friday – 2<sup>nd</sup> of Oct. 2009

1:00 - 7:00 pm	Registration	Hotel Lobby
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7:00 - 8:30 pm	Dinner	(Level -7)
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### DAY 1: Saturday - 3<sup>rd</sup> of Oct. 2009

8:00 - 9:00 am	Registration	
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9:00 - 9:45 am	<p><b>Conference Opening Ceremony:</b></p> <p><i>Prof. Fatma El-Zahraa Baligh, Chairperson, 4iYGEC Organizing Committee(Egypt)</i></p> <p><i>Prof. Mamdouh Hamza, Chairman, 17<sup>th</sup> ICSMGE Organizing Committee(Egypt)</i></p> <p><i>Prof. Neil Taylor, Secretary of ISSMGE (UK)</i></p> <p><i>Prof. Pedro Sêco e Pinto, President, International Society for Soil Mechanics &amp; Geotechnical Engineering, ISSMGE (Portugal)</i></p>	(Hall C)
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9:45 - 10:30 am	<p><b>Keynote Lecture</b></p> <p><i>Chairperson: Prof. Pedro Sêco e Pinto, President, International Society for Soil Mechanics &amp; Geotechnical Engineering, ISSMGE (Portugal)</i></p> <p><i>Lecturer: Prof. Ahmed W. Elgamal, University of California, San Diego, (USA)</i></p> <p>"Scenario-focused three-dimensional computational modeling in geomechanics"</p>	(Hall C)
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10:30 - 11:15 am	<p><b>Group Picture</b></p> <p><b>Refreshment Break</b></p>	<p>(Hall C)</p> <p>(Hall E)</p>
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<b>11:15 am -12:45 pm</b>	<p style="text-align: center;"><b>Paper Session -1A: Soil Behavior &amp; Properties, New Concepts &amp; Correlations</b> <span style="float: right;"><b>(Hall C)</b></span></p> <p style="text-align: center;"><i>Chairpersons: Prof. Mait Mets (Estonia) Prof. Ahmed El Nimr (Egypt)</i></p> <p>A New Correlation between <math>\phi'_r</math> of Soils and Index Parameters Based on Multiple Non Linear Regressions <b>David Piccolo, Australia</b></p> <p>Data Acquisition for a Soil Water Retention Curve Transfer Function of Sands <b>Imre Laufer, T. Firgi, E. Imre &amp; K. Rajkai, Hungary</b></p> <p>Modelling of Double Porosity Clayfills using a Hypoplasticity <b>Jan Najser, (Czech Republic) Czech &amp; Slovak</b></p> <p>Determination of the Ground Thermal Conductivity with the Geothermal Response Test <b>Susanne Kurze, Germany</b></p> <p>Contact Creep and Aging in Sand <b>Dapeng Xu, Hong Kong</b></p>
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<b>11:15 am -12:45 pm</b>	<p style="text-align: center;"><b>Paper Session -2A: Ground Improvement: Chemical, Mechanical &amp; Reinforcement</b> <span style="float: right;"><b>(Hall D)</b></span></p> <p style="text-align: center;"><i>Chairpersons: Dr. Andrey Totsev (Bulgaria) Prof. Mamdouh Aly Sabry (Egypt)</i></p> <p>Predicted Site Behaviour of Geogrid Encased Stone Columns <b>Joel Gniel, Australia</b></p> <p>Settlement of Dykes on Permafrost: 30 Years of Performance Monitoring <b>Kent W. Bannister, Canada</b></p> <p>Case Study on Soil Improvement Effects of Dynamic Replacement <b>Rok Ćosić, Croatia</b></p> <p>Soil Improvement using Sand Columns <b>Amr El-Wakil, Egypt</b></p> <p>Behavior of a Road Embankment Constructed on Stabilized Soft Clay Formations <b>Christine N. Habib, A. O. Hindi, A. M. Samieh &amp; M. A. Mansour, Egypt</b></p> <p>Soft Soil Improvement During Stone Column Installation <b>Wissem Frikha, Tunisia</b></p> <p>Foundation Design for Runway with Stone Column Soil Improvement of Soft Soils <b>Sidsel Stabell, Denmark</b></p>
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<b>12:45 - 2:15 pm</b>	<b>Lunch</b> <span style="float: right;"><b>(Level -7)</b></span>
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<b>2:15 - 4:00 pm</b>	<p style="text-align: center;"><b>Paper Session -1B: Soil Behavior &amp; Properties, New Concepts &amp; Correlations</b> <span style="float: right;"><b>(Hall C)</b></span></p> <p style="text-align: center;"><i>Chairpersons: Dr. Trevor Orr (Ireland) Prof. Ahmed El Nimr (Egypt)</i></p>
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<b>2:15 - 4:00 pm</b>	<p>Bender Element Tests on Undisturbed and Reconstituted Specimens of a Residual Soil Under True Triaxial Conditions <i>Cristiana Ferreira, Portugal</i></p> <p>Entropy Concept to Explain Particle Breakage and Soil Improvement <i>P. Q. Trang, L. Karpati, I. Nyari, J. Szendefy, E. Imre, &amp; J. Lorincz, Hungary</i></p> <p>Particle Crushing and its Constitutive Modelling <i>Mamoru Kikumoto, David Muir Wood &amp; Adrian Russell, Japan</i></p> <p>Preliminary Results from a Multidisciplinary Investigation of the Bearpaw Shale <i>J. Suzanne Powell, Canada</i></p> <p>Evaluation of Strength and Stiffness Properties of Alluvial Soil Deposit using ANDMT <i>M. Arshad, Pakistan</i></p> <p>Evaluation of Liquefaction Potential of Synthetic Gypsum using Cyclic Simple Shear Test <i>Matej Maček, Slovenia</i></p> <p>A Digital Image Analysis Methodology for the Investigation of Heterogeneous Prismatic Cohesive Specimens <i>Okan Önal, Turkey</i></p>
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<b>2:15 - 4:00 pm</b>	<p style="text-align: center;"><b>Paper Session -2B: Ground Improvement: Chemical, Mechanical &amp; Reinforcement (Hall D)</b></p> <p style="text-align: center;"><i>Chairpersons: Prof. Liudas Furmonavicius (Lithuania) Dr. Hassan M. Abouseeda (Egypt)</i></p> <p>Numerical Modelling of Pad Footings Supported by Stone Columns <i>Michéal M. Killeen &amp; B. A. McCabe, Ireland</i></p> <p>Experimental and Numerical Analysis of Various Prefabricated Vertical Drains in Soft Clay <i>Zhanara A. Nazarova, Kazakhstan</i></p> <p>Creep Deformations of Deep Soil Mixing Columns - Laboratorial Tests and Numerical Simulation <i>António A. S. Correia, Portugal</i></p> <p>Bearing Capacity Tests of Lime Modified soils <i>Istvan Nyári &amp; J. Szendefy, Hungary</i></p> <p>A Contribution to Pre-stressed Reinforced Soil <i>Christian Lackner &amp; S. Semprich, Austria</i></p> <p>Evaluation of Design Methods for Geosynthetic Reinforced Fill Layers over Voids <i>Vicky J. Potts, UK</i></p> <p>Influence of Silica Fume on Shear Strength of Silica Sand <i>Noha A. Khalil, Egypt</i></p> <p>Sand Aging: Time-Dependent Strength Gain in Recently Disturbed Sand <i>David Saftner, USA</i></p>
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<b>4:00 - 4:30 pm</b>	<b>Refreshment Break (Hall E)</b>
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<b>4:30 - 6:45 pm</b>	<b>Paper Session -3: Seepage Flow, Contaminated Soil Treatment &amp; Response (Hall C)</b>
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<b>4:30 - 6:45 pm</b>	<p><i>Chairpersons: Prof. Laura Caldeira (Portugal)</i> <i>Prof. Nagwa R. El-Sakhawy (Egypt)</i></p> <p>Fully Coupled Thermo-Hydro-Mechanical Analysis of Soil-Vegetation-Atmosphere Interaction <b>Sahar Hemmati, France</b></p> <p>Metaheuristics for Parameter Estimation in Contaminant Transport Modeling Through Soils <b>Tadikonda Venkata Bharat, India</b></p> <p>Impact Force of Flowing Sediments on a Rigid Obstruction <b>Shuji Moriguchi, R. I. Borja, Yashima, &amp; K. Sawada, Japan</b></p> <p>Centrifuge Modeling of the Effect of Drainage Zoning and Plinth Embedment on Concrete Faced Gravel-fill Dam <b>Yun Wook Choo, Korea</b></p> <p>Characterization of Immiscible Displacement in Sands by Means of Non-Traditional Techniques <b>Marcos A. Montoro, Argentina</b></p> <p>Determination of Consolidation Parameters of a Sludge using the “Seepage Induced Consolidation Test” <b>Luca Barbetti, Belgium</b></p> <p>Microbes Turning Sand into Sandstone, using Waste as Cement <b>Leon A. van Paassen, Wouter R.L. van der Sta, Edris Taher, Marien Harkes &amp; Mark C. M. van Loosdrecht, Netherlands</b></p> <p>Mechanisms and Behavioral Patterns of Solid Waste Compression in Bioreactor Landfills <b>Chistofer A. Bareither, USA</b></p>
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<b>4:30 - 6:45 pm</b>	<p><b>Paper Session -4: Land Slide &amp; Slope Stability, Case Studies (Hall D)</b></p> <p><i>Chairpersons: Prof. Vlatko Sesov (Macedonia)</i> <i>Prof. Khalid Elzahaby (Egypt)</i></p> <p>Landslide Affected with an Open Pit Excavation <b>S. Dugonjić, Martina Vivoda &amp; V. Jagodnik, Croatia</b></p> <p>Excavation Stability Improvement Measures <b>Jana Kahankova, (Czech Republic) Czech &amp; Slovak</b></p> <p>Reliability Analysis of Slopes Susceptible to Static Liquefaction <b>Timo Schweckendiek, Netherlands</b></p> <p>Geotechnical Aspects of the Upper Harbour Bridge Duplication and Causeway Widening <b>Lucy Coe, New Zealand</b></p> <p>Study on a High Rock Slope Failure at Alishan, Taiwan <b>Ching-Ping Wang &amp; K. T. Chou, (Taiwan) South East Asia</b></p> <p>Creep Movement of Reactivated Landslides <b>Nejan Huvaj-Sarihan, Turkey</b></p> <p>A method to Locate the Slip Surface and Measuring Subsurface Deformations in Slopes <b>Amin Askarinejad, Switzerland</b></p>
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<b>4:30 - 6:45 pm</b>	<p>Application of the Second-Order Work to Modelling of the Trévoux Landslide <i>Huynh D. V. Khoa, Norway</i></p> <p>Behaviour of a Volcanic Soil Slope Subjected to Heavy Rainfall in Thailand <i>Apiniti Jotisankasa, Thailand</i></p> <p>Finite Element Dynamic Analysis of the Stability of San Pedro City at the Alhambra <i>Antonio Morales &amp; J. L. Justo, Spain</i></p> <p>The ground problematic instability of the hills overhanging the town Bujumbura <i>Thierry Rujerwaka, (Burundi) CTGA</i></p>
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<b>7:00 - 8:30 pm</b>	<b>Dinner</b>	<b>(Level -7)</b>
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## CONFERENCE PROGRAM at El-Mahrousa Venue

### Day 2: Sunday - 4<sup>th</sup> of Oct. 2009

<b>9:00 - 10:30 am</b>	<p><b>Paper Session -5A: Deep Foundation Design &amp; Practice</b> <span style="float: right;"><b>(Hall C)</b></span></p> <p><i>Chairpersons: Prof. Kamal Andraws (Egypt) Prof. Mohsen Mashhour (Egypt)</i></p> <p>3D Finite Element Modelling of Deep Foundations <i>Franz Tschuchnigg &amp; H. F. Schweiger, Austria</i></p> <p>Theoretical Analysis of Bearing Capacity and Load-Displacement Behaviour of Large Diameter Driven Open Ended Piles <i>Filip Mortelmans, Belgium</i></p> <p>Ultimate Resistance of Vibratory Driven Piles in the Neretva River Delta <i>Krešimir Bolanča, Croatia</i></p> <p>Cyclic Design of the Micropiles Foundation of a Wind Turbine <i>Michael Reboul, France</i></p> <p>Research and Development of Displacement Piles <i>Philipp Busch &amp; Gordian Ulrich, Germany</i></p> <p>The Effect of Plugging on the Shaft Resistance of a Jacked Pipe Pile in Loose Sand <i>David Igoe, Ireland</i></p>
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<b>9:00 - 10:30 am</b>	<p><b>Paper Session -6A: Performance of Different Types of Earth Retaining Structures</b> <span style="float: right;"><b>(Hall D)</b></span></p> <p><i>Chairpersons: Prof. Vlasta Szavits-Nossan (Croatia) Prof. Hisham Abdelmohsen (Egypt)</i></p> <p>Full-Scale Field Test of Various Methods for Installing Sheet Piles <i>Peter Folsted, Denmark</i></p> <p>Analysis of Geotechnical Failure Modes of a Caisson Quay <i>Jesus G. Galind, Spain</i></p>
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<b>9:00 - 10:30 am</b>	<p>Performance Based Seismic Design Method for Gravity Quay Walls <b><u>Heba K. Mohamed, M. M. Aid, A. M. Abdel Rahman, Egypt</u></b></p> <p>Fragility Curves for the Seismic Vulnerability Assessment of Waterfront Structures <b><u>Kalliopi Kakderi &amp; K. Pitilakis, Greece</u></b></p> <p>Method for Cleaning and Checking the Base of Diaphragm Wall Panels <b><u>Alice Berry, UK</u></b></p>
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<b>10:30 - 11:00 am</b>	<b>Refreshment Break</b>	<b>(Hall E)</b>
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<b>11:00 am - 12:30 pm</b>	<p><b>Paper Session -5B: Deep Foundation Design &amp; Practice</b></p> <p style="text-align: right;"><b>(Hall C)</b></p> <p><i>Chairpersons: Prof. Abdel Fatah Yousif (Egypt) Prof. Khadeja Abdelghani (Egypt)</i></p> <p>Pile Foundations in Liquefiable Soil – A Case Study of a Bridge Foundation <b><u>Hayden Bowen, New Zealand</u></b></p> <p>Calculation of Piles Based on CPT Results in Poland <b><u>Krzysztof Sahajda, Poland</u></b></p> <p>The Calculation of the Settlement “TRANSPORT TOWER” Administrative-Technological Complex on the Left Bank of Esil River in Astana City <b><u>Serik B. Yenkebaye, Kazakhstan</u></b></p> <p>Analysis of the Attenuation of Harmonic Vibrations Around a Pile Foundation <b><u>Salah Messast, D. Mendjel &amp; A. Boumekik (Algeria) CTGA</u></b></p> <p>Quality Control and Base Improvement in Auger Piles <b><u>Tevor A. L. Green, South Africa</u></b></p> <p>Axisymmetric and Three-Dimensional Numerical Modelling of Single Piles Loaded in Sand <b><u>Imen Said, Tunisia</u></b></p>
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<b>11:00 am - 12:30 pm</b>	<p><b>Paper Session -6B: Performance of Different Types of Earth Retaining Structures</b></p> <p style="text-align: right;"><b>(Hall D)</b></p> <p><i>Chairpersons: Prof. Mona M. Eid (Egypt) Dr. Gihan Abdel Rahman (Egypt)</i></p> <p>Performance of Gravity Caissons on Limestone with Cavity <b><u>Ma Soe Sandi &amp; C. F. Leung, Singapore</u></b></p> <p>Application of Stacked Soil Bags in Dam Engineering <b><u>Umair Aqil, S. A. Malik, W. A. Farooqi, M. Kenichi, Y. Mohri &amp; F. Tatsuoka, Pakistan</u></b></p> <p>Finite Element Analysis of Nearly Vertical Nailed Slope in Cairo <b><u>Ahmed A. Mohamed, Egypt</u></b></p> <p>A Case Study in Singapore on the Design of Earth Retaining Wall System to Minimize Impact on Adjacent Structures <b><u>Michelle Lew, T. S. Chua, H. L. Phua, V. Rama, Singapore</u></b></p>
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<b>11:00 am - 12:30 pm</b>	<p>Back-Calculation and Extensive Monitoring of a Deep Excavation in Soft Clay in Gothenburg, Sweden, with Different Constitutive Models <i>Anders Kullingsjö, Sweden</i></p> <p>Risk of Backfill Liquefaction under Wave Loading <i>Jean-Christophe Ballard, Belgium</i></p> <p>Seismic Earth Pressure Exerted on Retaining Wall Model Under Large Seismic Load <i>Kenji Watanabe, Japan</i></p>
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<b>12:30 - 2:00 pm</b>	<b>Lunch</b>	<b>(Level -7)</b>
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<b>2:00 - 4:00 pm</b>	<p><b>Paper Session -7: Soil Structure Interaction, Risk Management (Hall C)</b></p> <p><i>Chairpersons: Prof. Ergun Togrol (Turkey)</i> <i>Prof. Ahmed Mousalam (Egypt)</i></p> <p>Layered Soil-Structure Interaction <i>Miroslav Cerny, (Slovak Republic) Czech &amp; Slovak</i></p> <p>Method of Building Calculation Models Correction in the Process of Abnormal Building Tilts Elimination <i>Andriy V. Shokarev, Ukraine</i></p> <p>PML as Absorbing Boundary Conditions in Elastic Wave Propagation Analysis <i>Josif Josifovski &amp; V. Vitanov, Macedonia</i></p> <p>Effect of Spudcan Footprint on Future Rig Installation <i>Cheng T. Gan, C. F. Leung &amp; Y. K. Chow, Singapore</i></p> <p>Settlement Calculation of the Combined Pile- Slab Foundation <i>Ruslan Kovalskyy, Ukraine</i></p> <p>Geotechnical Risk Management – Concepts and Applications <i>Ek-Khai Tan, (Malaysia) South East Asia</i></p> <p>Soil-structure Interaction Analysis for the Design of Integral Bridges <i>Francesco Petrella, Italy</i></p> <p>Use of Expanded Polystyrene (EPS) Geofoam on Buried Concrete Pipe as a Compressible Material and Monitoring the Long-term Performance <i>J. Vaslestad, Girum. Y. Yesuf, T. H. Johansen, M. Wendt &amp; T. Damtew, Norway</i></p> <p>Probabilistic Analysis of Deep Excavation Practices of Pakistan <i>Ahmed H. Khan, Pakistan</i></p>
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<b>2:00 - 4:15 pm</b>	<p><b>Paper Session -8: Under Ground Construction (Hall D)</b></p> <p><i>Chairpersons: Prof. Dennis Bergado (Thailand)</i> <i>Prof. Amira M. Abdel-Rahman (Egypt)</i></p> <p>Hsuehshan Tunnel and its Long-Term Monitoring System <i>Chang Po-Hsiang, (Taiwan) South East Asia</i></p> <p>Estimation of Tunnel Final Lining Loads <i>Petros Fortsakis, Greece</i></p>
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<p><b>2:00 - 4:15 pm</b></p>	<p>Case Study of Ground Freezing for Shield Tunnel Launching and Arrival on Taipei Metro  <b><i>Jhih-Yong Jhang &amp; T.W. Wang (Taiwan) South East Asia</i></b></p> <p>Geotechnical Investigation of Decline Shaft Portals  <b><i>Richard A. Puchner, South Africa</i></b></p> <p>On the Geometrical Optimization of NATM in Urban Areas  <b><i>M. Zaki Abd Elrehim &amp; Ahmed. M. Marwan, Egypt</i></b></p> <p>Prediction and Performance of Cut and Cover Tunnel Solutions for the City Tunnel Project E101 Malmö Central, Sweden  <b><i>Tara A. Wood, Sweden</i></b></p> <p>Pressure and Rate Dependency of the Shear Strength of Conditioned Clays  <b><i>Rolf Zumsteg, S. Messerklinger, A. M. Puzrin, H. Egli &amp; A. Walliser, Switzerland</i></b></p> <p>Measurement of Internal Forces in the Segmental Lining of a Tunnel  <b><i>Emilio Bilotta, Italy</i></b></p> <p>Preliminary Numerical Simulations of the Bump at the End of the Railway Bridge  <b><i>Jennifer E. Nicks, USA</i></b></p> <p>General Aspects in Geotechnical Engineering for Shafts and Tunnels  <b><i>Oscar J. Luna-González, Mexico</i></b></p>
<p><b>4:30 - 5:00 pm</b></p>	<p><b>Conference Summary (announcement of presenters in ICSMGE) (Hall C)</b></p>
<p><b>6:00 - 10:00 pm</b></p>	<p><b>Dinner &amp; Cultural Evening (Around Swimming Pool)</b></p>

*Thanks for your contribution*

## DAY 3: Monday - 5<sup>th</sup> of Oct. 2009

### CONFERENCE PROGRAM 17<sup>th</sup> ICSMGE'09

(Alexandria, Egypt: 5th – 9th October 2009)

#### at Bibliotheca Alexandrina

8:00 - 9:00 am	<b>Delegate Registration</b> <span style="float: right;"><b>(Plaza of Civilization)</b></span> <i>(For those who would like to attend the rest of 17<sup>th</sup> ICSMGE'09)</i>
9:00 - 10:15 am	<b>Opening Ceremony :</b> <span style="float: right;"><b>(Great Hall)</b></span> <i>Mamdouh Hamza, Chairman, 17<sup>th</sup> ICSMGE Organizing Committee (Egypt)</i> <b>Kevin Nash Gold Medal Award :</b>  <i>Presenter: William Van Imp, President, Federation of International Geo-engineering Societies and Past President ISSMGE (Belgium)</i>  <i>ISSMGE Address: Pedro Sêco e Pinto, President, International Society for Soil Mechanics &amp; Geotechnical Engineering, ISSMGE (Portugal)</i>  <i>Welcome Addresses: Governor Adel Aly Labib, Governorate of Alexandria (Egypt)</i>  <i>H.E. Eng. Ahmed El Maghraby, Minister of Housing Utilities &amp; Urban Development (Egypt)</i>
10:15 - 11:00 am	<b>Terzaghi Oration :</b>  <i>Chairperson: Pedro Sêco e Pinto, President, International Society for Soil Mechanics &amp; Geotechnical Engineering, ISSMGE (Portugal)</i>  <i>Lecturer: Harry Poulos (Australia)</i>
11:00 am-12:00 pm	<b>Official Opening of Technical Exhibition &amp; Refreshment Break</b> <span style="float: right;"><b>(open area, level B-1)</b></span>

<p><b>12:00 - 1:00 pm</b></p>	<p><b>State-of-the-Art Lecture -1: Material Behavior &amp; Testing (Great Hall)</b></p> <p><i>Chairperson:</i> Gholamreza Mesri (USA)  <i>Lecturer:</i> Paul Mayne (USA)</p> <p><b>Contributors:</b></p> <p><i>Laboratory Testing:</i> Matthew Coop (UK)  <i>In Situ Testing of Geomaterial:</i> Paul Mayne (USA)  <i>Physical/Constitutive Modeling:</i> Sarah Springman (Switzerland)  <i>Problematic Soils, including Crushable Material/Expansive/Collapsible, Liquefiable, Laterites, etc. :</i> An-Bing Huang (Taiwan)  <i>Geosynthetic Material:</i> Jorge Zornberg (USA)</p>
<p><b>1:00 - 2:00 pm</b></p>	<p><b>Lunch</b></p>
<p><b>2:00 - 3:00 pm</b></p>	<p><b>State-of-the-Art Lecture -2: Analysis &amp; Design (Great Hall)</b></p> <p><i>Chairperson:</i> Za-Chieh Moh (Taiwan)  <i>Lecturer:</i> Brian Simpson (UK)</p> <p><b>Contributors:</b></p> <p><i>Deep Foundations/Mega Piles &amp; Barrettes:</i> Brian Simpson (UK)  <i>Embedded Retaining Structures:</i> Paul Morrisson (UK)  <i>Slopes &amp; Embankments:</i> Susumu Yasuda (Japan)  <i>Underground Structures:</i> Bradford F. Townsend (USA)  <i>Seismic Conditions:</i> George Gazetas (Greese)</p>
<p><b>3:00 - 3:30 pm</b></p>	<p><b>Refreshment Break (Level B-1 and Plaza of Civilization)</b></p>
<p><b>3:30 - 5:30 pm</b></p>	<p><b>Practitioners/Academia Forum (Great Hall)</b></p> <p><i>Coordinators:</i> Mamdouh Hamza, Chairman, 17<sup>th</sup> ICSMGE Organizing Committee (Egypt)  William F. Van Impe, Past President ISSMGE (Belgium)</p>
<p><b>7:30 - 9:30 pm</b></p>	<p><b>WELCOME RECEPTION (Ticket holders only) (Qaitbay Citadel)</b></p>

## DAY 4: Tuesday - 6<sup>th</sup> of Oct. 2009

<b>9:00 - 10:00 am</b>	<p><b>State-of-the-Art Lecture -3: Prediction, Monitoring &amp; Performance</b> <span style="float: right;"><b>(Great Hall)</b></span></p> <p><i>Chairperson:</i> Guillermo Springall (Mexico)  <i>Lecturer:</i> Arsenio Negro (Brazil)</p> <p><b>Contributors:</b></p> <p><i>Foundations:</i> Sri Srithar (Australia),  <i>Earth Fills:</i> Max Ervin (Australia)  <i>Instrumentation:</i> Eduard Vorster (South Africa)</p> <p><i>Supported Excavations:</i> Kjell Karlsrud, (Norway)  <i>Tunnels:</i> Dr. Arsenio Negro (Brazil)</p>
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<b>10:00 – 11:00 am</b>	<p><b>Heritage Lecture: "Hidden Egypt"</b> <span style="float: right;"><b>(Great Hall)</b></span></p> <p><i>Chairperson:</i> Mounir Bouassida, National Engineering School  of Tunis (Tunisia)  <i>Lecturer:</i> Zahi Hawass, Secretary General, Supreme Council  of Antiquities (Egypt)</p>
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<b>11:00 - 11:30 am</b>	<b>Refreshment Break</b>
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<b>11:30 am-12:30pm</b>	<p><b>State-of-the-Art Lecture -4: Construction Process</b> <span style="float: right;"><b>(Great Hall)</b></span></p> <p><i>Chairperson:</i> E.M. Nussbaumer  <i>Lecturer:</i> Chu Jian (Singapore)</p> <p><b>Contributors:</b></p> <p><i>Ground Improvement:</i> Serge Varaksin (France)  Chu Jian (Singapore)  <i>Grouting &amp; Injection:</i> Serge Varaks (France)  <i>Groundwater Control:</i> Chu Jian (Singapore)  <i>Deep Excavation &amp; Tunneling:</i> Ulrich Klotz (Germany)  <i>Natural Hazard Mitigation:</i> Chu Jian (Singapore)  <i>Dredging - Land Reclamation:</i> Patrick Mengé (Belgium)</p>
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<b>12:30 - 1:30 pm</b>	<b>Lunch</b>
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<b>1:30 -2:30 pm</b>	<p><b>State-of-the-Art Lecture -5: Management, Training &amp; Education</b> <b>(Great Hall)</b></p> <p><i>Chairperson: Mostafa E. Mossaad (Egypt)</i> <i>Lecturer: Mark Jaksa (Australia)</i></p> <p><b>Contributors:</b></p> <p><i>Owner/Engineer/Contractor Relationships for Optimum &amp; Safe Design: Jorgen Steenfelt (Denmark)</i> <i>Management of Geotechnical Data &amp; Processes: Ken Ho (Hong Kong)</i> <i>Training of Geotechnical Engineers (Practice/Adademic) Public &amp; Private Sectors: Marc Woodward (UK)</i> <i>Future of Geotechnical Engineering Education: Mark Jaksa (Australia)</i> <i>Owner, Engineer &amp; Public Awareness of Importance of Geotechnical Engineering: All contributors</i></p>
<b>2:30 - 3:00 pm</b>	<b>Refreshment Break (Level B-1 and Plaza of Civilization)</b>
<b>3:00 - 3:45 pm</b>	<p><b>4iYGEC: Thoughts &amp; Observations</b> <b>(Great Hall)</b></p> <p><i>Chairpersons: Pedro Sêco e Pinto, President, International Society for Soil Mechanics &amp; Geotechnical Engineering, ISSMGE (Portugal)</i> <i>Fatma El Zahraa A. Baligh, Chairperson of the 4iYGEC Organizing Committee (Egypt)</i></p> <p>Panelists Chosen from among 4iYGEC participants</p>
<b>3:45 - 4:30 pm</b>	<p><b>Great Project -1: Safeguarding Venice from High Tides: Site Characterization &amp; Geotechnical Problems</b> <b>(Great Hall)</b></p> <p><i>Chairperson: Ergun Togrol, Istanbul Technical University (Turkey)</i> <i>Lecturer: Michele Jamiolkowski, Polytechnic University of Turin (Italy) and Past President of the ISSMGE</i></p>
<b>4:30 -5:15pm</b>	<p><b>Great Project -2: Development of Foundation Construction Techniques Over the Past 5,000 Years</b> <b>(Great Hall)</b></p> <p><i>Chairperson: Kenji Ishihara, Science University of Tokyo (Japan)</i> <i>Lecturer: Wolfgang G. Brunner, Bauer Maschinen GmbH (Germany)</i></p>
<b>8:00 -10:00 pm</b>	<b>GALA DINNER (ticket holders only) (El-Montazah, Salamlek Palace)</b>

## Wednesday - 7<sup>th</sup> of Oct. 2009

<b>9:00 - 11:00 am</b>	<b>Technical Visit to San-Stefano Harbor:</b> <i>Mamdouh Hamza, Chairman, 17<sup>th</sup> ICSMGE Organizing Committee (Egypt)</i> A presentation on "San-Stefano Hotel" foundations. A visit to the sea site (harbor) which was designed and completed while the construction of water breaks is underway.
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### Conference Committees

#### Advisory Committee:

Dr. P. Sêco e Pinto	President, International Society for Soil Mechanics & Geotechnical Engineering, ISSMGE (Portugal)
Dr. M. Boussida	ISSMGE Vice President for Africa (Tunisia)
Dr. R. N. Taylor	ISSMGE Secretary General (UK)
Dr. M. Hamza	Chairman of the, 17 <sup>th</sup> ICSMGE Organizing Committee (Egypt)
Dr. M. Shahien	Secretary General, 17 <sup>th</sup> ICSMGE Organizing Committee (Egypt)

#### Organizing Committee:

Dr. F. Baligh	Chairperson
Dr. H. Abdelmohsen	Secretary General
Dr. H. Abouseeda	
Dr. G. Abdel Rahman	
Dr. N. El Sakhawy	

#### Conference Administration:

Ms. Y. Hanna	Coordinator
Eng. N. A. Rabia	Coordinator
Eng. D. Abdel Salam	
Eng. O. El-Shafee	
Eng. T. El Zafarany	

### GENERAL INFORMATION

#### The Venue and date of the Conference

The conference venue is at El-Mahrousa Hotel on the sea front in Alexandria, Egypt. The conference is from the 3<sup>rd</sup> to the 6<sup>th</sup> of October. The 4iYGEC'09 conference begins two days before the start of the 17<sup>th</sup> International Conference on Soil Mechanics and Geotechnical Engineering (17<sup>th</sup> ICSMGE 2009).

The conference starts on Friday the 2<sup>nd</sup> of October for registration. Paper Sessions are on Saturday the 3<sup>rd</sup> of October and Sunday the 4<sup>th</sup> of October. Following these two days, participants will join the

17<sup>th</sup> ICSMGE for its first two days (5<sup>th</sup> and 6<sup>th</sup> of October) to attend the state-of-the art and main lectures.

### Objectives of the Conference

The conference is primarily for the benefit of young geotechnical engineers. Where they present their work, discuss, exchange ideas and interact with their fellow researchers in the presences of senior chairpersons in their fields.

The 4iYGEC delegates will be asked to work in groups (usually at the end of the sessions or if necessary at the end of the day) to discuss the presentations being made. To come up with the presentations they would make in the session "Thoughts and Observations" from 3:00 to 3:45 on Tuesday 6<sup>th</sup> of October held at the main conference.

### Participants

The participants are selected by their National Societies as being distinguished young geotechnical engineers with outstanding research projects. Participation in the 4iYGEC'09 is restricted to those aged 35 years or younger at the date of the conference. Participants are requested to register and pay a prescribed fee.

### Official Languages

The official languages of the conference will be English and French. Contributions will be in either language.

### Program - An Overview

The program of the Conference includes registration on Friday the 2<sup>nd</sup> of October at the venue. A keynote lecture and twelve Paper Sessions will take place over the first two days (Saturday the 3<sup>rd</sup> of October and Sunday the 4<sup>th</sup> of October). During Monday the 5<sup>th</sup> of October and Tuesday the 6<sup>th</sup> of October participants will be joining the 17<sup>th</sup> ICSMGE 2009 to attend: five State-of-The-Art lectures, a Heritage lecture and two lectures on Great Projects. An optional short Technical Visit will take place in the morning of the 7<sup>th</sup> of October.

### The Technical Visit

The Project "San-Stefano Hotel" has 3 basements over an area of 20000 m<sup>2</sup>, 12 m below ground level located approximately 25 m away from the Mediterranean Sea shore. They are constructed with a Diaphragm Wall and a limited dewatering system. The building rests on large diameter grouted piles.

The sea site (harbor) of the Project was designed and completed while the construction of water breaks is underway.

### Social Program

The social program consists of tea and coffee breaks between sessions. Also a Cultural Evening of Egyptian Folk Dancing will take place around the Swimming Pool at El-Mahrousa Hotel where traditional oriental food and beverages will be served.