

# GRID - Technical Program Schedule

as of May 10, 2018

Monday, June 11, 2018		
<p><i>10:30 am – 12:15 pm</i> <b>B01/ Ground Motions and Site Response 1</b> <i>Moderator:</i> Dong Youp Kwak, Ph.D., RMS <i>Theme Lecture:</i> Youssef Hashash, Ph.D., P.E., F.ASCE, University of Illinois, Urbana-Champaign <b>Modelling of Site Amplification via Large Scale Nonlinear Simulations with Applications to North America</b> Youssef M. A. Hashash, Joseph Harmon, Okan Ilhan, Jonathan P. Stewart, Ellen M. Rathje, Kenneth W. Campbell, Walter J. Silva, Christine A. Goulet</p>	<p><i>10:30 am – 12:15 pm</i> <b>H01/ Slope Stability and Landslides</b> <i>Moderators:</i> Jack Montgomery, Ph.D., A.M.ASCE, Auburn University; Jennifer L. Donahue, Ph.D., P.E., M.ASCE, J.L. Donahue Engineering <i>Theme Lecture:</i> Glenn Rix, Ph.D., P.E., M.ASCE, Geosyntec Consultants <b>Evaluation of the Seismic Performance of a Class I Landfill</b> Glenn J. Rix, Robert C. Bachus, Chris Conkle, Mark Schultheis</p>	<p><i>10:30 am – 12:15 pm</i> <b>E01/ Liquefaction Triggering, Consequences, and Mitigation 1</b> <i>Moderator:</i> Brett Maurer, Ph.D., A.M.ASCE, University of Washington <i>Theme Lecture:</i> Takaji Kokusho, Ph.D., Chuo University, Tokyo, Japan <b>Revisit to Liquefaction of Gravelly Soils Compared with Sandy Soils</b> Takaji Kokusho</p>
<p><i>Papers:</i> <b>Insights from KiK-Net Data: What Input Parameters Should Be Addressed to Improve Site Response Predictions?</b> James Kaklamanos, Brendon A. Bradley <b>A Comparison of Alternative Seismic Compression Procedures</b> Eric Yee, Jonathan P. Stewart <b>Insights into Large-Strain Site Response from Downhole Array Data</b> Boqin Xu, Ellen Rathje <b>Topographic Amplification of Ground Motions in Mt Pleasant, Christchurch, New Zealand: An Experimental Study</b> Seokho Jeong, Brendon A. Bradley, Liam M. Wotherspoon <b>Advanced Data Analysis of Downhole Seismic Records</b> Sungmoon Hwang, Farnyuh Menq, Kenneth H. Stokoe II, Richard C. Lee, Julia N. Roberts</p>	<p><i>Papers:</i> <b>Development of a Seismic Risk Screening Tool for Earthen Embankments</b> Jennifer L. Donahue, Zahra A. Amini, Christopher E. Hunt, Glenn J. Rix, David R. Umberg <b>Cloud-Based Tools for the Probabilistic Assessment of the Seismic Performance of Slopes</b> Gökhan Saygili, Ellen M. Rathje, Yubing Wang, Mahmoud El-Kishky <b>Bridge Foundation Pinning Resistance Implied by Equivalent Static Analysis Procedure for Liquefaction-Induced Lateral Spreading</b> Christopher R. McGann <b>Dynamic Numerical Evaluation of the Effect of the Retained Tailings on the Performance of a Tailings Impoundment</b> Guillaume Léveillé, Michael James <b>Numerical Simulations of the Fourth Avenue Landslide Considering Strain-Softening</b> Michael Kierman, Jack Montgomery</p>	<p><i>Papers:</i> <b>Evaluation of the Effect of Relative Density on Liquefaction Assessment of Sands with Plastic and Non-Plastic Fines</b> E. Ece Eseller-Bayat, Mehmet M. Monkul, Ozge Akin, Senay Yenigun <b>Response Spectra for Liquefiable Sites: A Simplified Equivalent Linear Analysis Methodology</b> Yannis Z. Tsiapas, George D. Bouckovalas <b>Post-Liquefaction Volumetric Strain of Gravel-Sand Mixtures in Constant Volume Simple Shear</b> Jonathan F. Hubler, Adda Athanasopoulos-Zekkos, Dimitrios Zekkos <b>Influence of Strong Motion Records Characteristics on Numerical Simulations of Soil Liquefaction</b> Sebastiano Foti, Federico Passeri, Andrea Ciancimino <b>Soil Liquefaction Screening Using CPT Yield Stress Profiles</b> Paul W. Mayne, Mark Styler</p>
<p><i>12:00 – 1:30 pm</i> <b>POSTER Presentations</b>  <i>See List of Poster Presentations on page 7</i></p>		
<p><i>1:30 – 3:00 pm</i> <b>B02/ Ground Motions and Site Response 1</b> <i>Moderator:</i> Ashly Cabas Mijares, Ph.D., A.M.ASCE, North Carolina State University <i>Papers:</i> <b>Site Response of the Vertical Ground Motion</b> Ronnie Kamai, Gilboa Pe'er <b>Propagation of Uncertainty in Equivalent Linear Site Response Analyses</b> Mahdi Bahrapouri, Adrian Rodriguez-Marek <b>Evaluation of Site Response Analysis for Vertical Ground Motions based on Downhole Array Records: Case Study of the Service Hall Array in Japan</b> Austin Metz, Ramin Motamed, Kevin Stanton, Kirk Ellison, Ibrahim Almufti <b>Toward Improving Damping Characterization for Site Response Analysis</b> Ashly Cabas, Adrian Rodriguez-Marek <b>Topographic Amplification Factors for Japan Using 2D Finite Element Analysis</b> Byungmin Kim, Kyoungsoo Park, Hyunil Baek <b>Approach and Insights from 3-D Site Response Analyses at the Diablo Canyon Power Plant</b> Alfredo Fernandez, Weiyu Chen, Thaleia Travarasrou, Dan O'Connell</p>	<p><i>1:30 – 3:00 pm</i> <b>D01/ Laboratory Testing 1</b> <i>Moderator:</i> Inthuorn Sasanakul, Ph.D., P.E., M.ASCE, University of South Carolina <i>Papers:</i> <b>Post-Cyclic Behavior of a Gulf of Mexico Clay</b> Vashish Taukoor, Cassandra J. Rutherford, Scott M. Olson <b>Cyclic Behavior of Low-Plasticity Fine-Grained Soils with Varying Pore-Fluid Salinity</b> Mohammad M. Eslami, Scott J. Brandenberg, Jonathan P. Stewart <b>Effect of Pore Fluid on Cyclic Behaviour of Reconstituted Marine Clay</b> Swagatika Senapati, Subhadeep Banerjee, T. Thyagaraj <b>Effect of High Initial Effective Confining Stress on the Mechanical Response of Natural Silt</b> Priyesh Verma, Dharma Wijewickreme <b>Liquefaction Potential of Sand with Non-Plastic Fines with the Same Depositional Energy</b> Yolanda Alberto, Ikuo Towhata <b>Effects of Multi-Directional and Repeated Loading on Cyclic Resistance of Fraser River Sand</b> Stephen Jones, Abouzar Sadrekarimi</p>	<p><i>1:30 – 3:00 pm</i> <b>E02/ Liquefaction Triggering, Consequences, and Mitigation 2</b> <i>Moderator:</i> Katerina Ziotopoulou, Ph.D., A.M.ASCE, University of California, Davis <i>Papers:</i> <b>Progress of Liquefaction Ageing in Seismically Active Japan</b> Ikuo Towhata <b>Application of SPT Rod Energy Loss to Liquefaction Evaluation of Deep Alluvium beneath an Earthfill Dam</b> Francesco Tatone, Ethan Dawson, Jianping Hu, Dennis Nguyen <b>Field and Experimental Evidence on the Effect of Shaking History on the Liquefaction Resistance of Sandy Deposits</b> Waleed El-Sekelly, Tarek Abdoun, Ricardo Dobry, Jamie Steidl <b>Influence of Liquefaction History on Liquefaction Susceptibility</b> Rui Wang, Qianqian Hu, Xing Liu, Jian-Min Zhang <b>Centrifuge Modeling of Cone Penetration Testing in Layered Soil</b> Mohammad Khosravi, Ross W. Boulanger, Jason T. DeJong, Ali Khosravi, Masoud Hajjalilue-Bonab, Daniel W. Wilson <b>Evaluation of Dynamic Cone Penetration Test for Liquefaction Assessment of Gravels from Case Histories in Idaho</b> Kyle M. Rollins, Michael Talbot, T. Leslie Youd</p>
<p><i>3:30 – 4:30 pm</i> <b>Graduate Student Lightning Sessions</b> <i>Papers:</i> <b>A Modified Uniaxial Bouc-Wen Model for the Simulation of Transverse Lateral Pipe-Cohesionless Soil Interaction</b> Kien T. Nguyen, Domniki Asimaki <b>A Quasi-Static Displacement-Based Approximation of Seismic Earth Pressures on Rigid Walls</b> Joaquin Garcia-Suarez, Domniki Asimaki <b>An Investigation on the Effect of Bidirectional Seismic Loading on Volumetric Strain and Surface Settlement of Sand Deposits</b> James Adinata, Andrés Reyes, Andrés R. Barrero, Mahdi Talebat <b>Assessment of Nakamura Methodology for Evaluating Soil Liquefaction Potential</b> Mauricio Herrera, Sebastián Arango, Alejandro Cruz, Eimar Sandoval, Peter Thomson <b>Capabilities and Limitations of Different Numerical Tools in Capturing Seismic Site Performance in a Layered Liquefiable Site</b> Jenny Ramirez, Andrés R. Barrero, Long Chen, Alborz Ghoifani, Shideh Dashti, Mahdi Talebat, Pedro Arduino</p>		
<p><b>Centrifuge Modeling to Evaluate Kinematic Soil-Foundation-Structure Interaction</b> Amin Borghei, Majid Ghayoomi</p>	<p><b>Field Experiment of Rocking Shallow Foundation on Cohesive Soil Subjected to Lateral Cyclic Loads</b> Keshav Sharma, Lijun Deng</p>	<p><b>Modelling Nonlinear Site Effects in Physics-Based Ground Motion Simulation</b> Christopher A. de la Torre, Brendon A. Bradley <b>Prediction of Three-Dimensional Dynamic Soil-Pile Group Interaction in Layered Soil by Boundary Element Analysis and Seismic Cone Penetration Tests</b> Zhiyan Jiang, Jeremy C. Ashlock</p>
<p><b>Inertial and Liquefaction-Induced Kinematic Demands on a Pile-Supported Wharf: Physical Modeling</b> Milad Sour, Arash Khosravifar, Stephen E. Dickenson, Scott Schlechter, Nason McCullough</p>	<p><b>Interactive Web Application for Computing Seismic Earth Pressure</b> Nikolaos P. Machairas, Magued G. Iskander, Mehdi Omidvar</p>	<p><b>Probabilistic Geotechnical Site Characterization from Geophysical Measurements Using Model-Data Fusion</b> Siddharth S. Parida, Kallol Sett, Puneet Singla</p>
<p><b>Liquefaction Probability Curves for Three Surficial Sand Deposits near Charleston, South Carolina</b> Joshua D. Gathro, Barnabas Bwambale, Ronald D. Andrus, Tahereh Heidari</p>	<p><b>Winkler Stiffness Intensity for Flexible Walls Retaining Inhomogeneous Soil</b> Maria Giovanna Durante, Scott J. Brandenberg, Jonathan P. Stewart, George Mylonakis</p>	

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<b>Monday, June 11, 2018 - continued</b>		
<p>4:30 – 6:00 pm</p> <p><b>G01/ Seismic Hazard Assessment</b></p> <p><i>Moderator:</i> Sebastiano Foti, Ph.D., Politecnico Di Torino</p> <p><i>Papers:</i></p> <p><b>Turning Disaster into Knowledge in Geotechnical Earthquake Engineering</b> J. D. Bray, J. D. Frost, E.M. Rathje, F. E. Garcia</p> <p><b>Influence of the Uncertainty in Bedrock Characteristics on Seismic Hazard: A Case Study in Italy</b> Federico Passeri, Mahdi Bahrapouri, Adrian Rodriguez-Marek, Sebastiano Foti</p> <p><b>Capturing and PSHA Implementation of Spatial Variability of Near-Source Ground Motion Hazard</b> Badie Rowshandel</p> <p><b>Effect of the Size of Shillong Plateau on Relative Weightage of Selected Attenuation Relations for Seismic Hazard Analysis</b> Olympa Baro, Abhishek Kumar</p> <p><b>Probabilistic Seismic Hazard Analysis for Offshore Bangladesh Including Fault Sources</b> Brian D. Carlton, Elin Skurtveit, Bahman Bohloli, Kuvvet Atakan, Emily Dondzila, Amir M. Kaynia</p> <p><b>An Assessment of the Effects of Embankment Displacements on a Buried Water Reservoir</b> Donald G. Anderson, Phoebe Cheng, Michael E. Perez, Youssef M.A. Hashash, Steven L. Kramer</p>	<p>4:30 – 6:00 pm</p> <p><b>F01/ Numerical Modeling 1</b></p> <p><i>Moderator:</i> Giuseppe Buscamera, Ph.D., Aff.M.ASCE, Northwestern University</p> <p><i>Papers:</i></p> <p><b>Effectiveness of Ground Improvement in Sands upon Seismic Loading Using Non-Linear Soil Model</b> Sparsha Nagula, Jürgen Grabe</p> <p><b>Implementation, Validation and Application of PM4Sand Model in PLAXIS</b> Gregor Vilhar, Anita Laera, Federico Foria, Abhishek Gupta, Ronald B.J. Brinkgreve</p> <p><b>A Modified Uniaxial Bouc-Wen Model for the Simulation of Transverse Lateral Pipe-Cohesionless Soil Interaction</b> Kien T. Nguyen, Domniki Asimaki</p> <p><b>A Practical 3D Bounding Surface Plastic Sand Model for Geotechnical Earthquake Engineering Application</b> Zhao Cheng</p> <p><b>Analysis of the Contractive Behavior of Soil Deposits Subjected to Biaxial Excitation</b> Vicente Mercado, Mourad Zeghal, Omar El-Shafee</p> <p><b>A Constitutive Model Controlling Damping for 2D and 3D Site Response</b> Samuel Yniesta, Scott J. Brandenberg</p>	<p>4:30 – 6:00 pm</p> <p><b>E03/ Liquefaction Triggering, Consequences, and Mitigation 3</b></p> <p><i>Moderator:</i> Laurie G. Baise, Ph.D., M.ASCE, Tufts University</p> <p><i>Papers:</i></p> <p><b>Centrifuge Model Testing of Liquefaction Mitigation via Denitrification-Induced Desaturation</b> Caitlyn A. Hall, Gabby Hernandez, Kathleen M. Darby, Leon van Paassen, Edward Kavazanjian, Jr., Jason DeJong, Daniel Wilson</p> <p><b>Effect of Cyclic Rotation of Principal Stresses on Liquefaction Resistance of Sands</b> Rousseau Prasanna, Navaratnavel Sinthujan, Siva Sivathayalan</p> <p><b>A Study into Resin Injection as a Ground Improvement Technique for Seismic Liquefaction Mitigation</b> Nick J. Traylen, Frederick J. Wentz, Sjoerd Van Ballegooy, Liam M. Wotherspoon, Theo Hnat, Russell Deller</p> <p><b>Improved Liquefaction Resistance from Microbial Induced Carbonate Cementation</b> Atefeh Zamani, Kai Feng, Brina M. Montoya</p> <p><b>Centrifuge Model Testing of Liquefaction Mitigation via Microbially Induced Calcite Precipitation</b> Kathleen M. Darby, Gabby L. Hernandez, Michael G. Gomez, Jason T. DeJong, Dan Wilson, Ross W. Boulanger</p> <p><b>Simplified Evaluation of the Seismic Failure of an Old Wharf during the 2014 Mw 8.2, Pisagua, Chile Earthquake</b> Camilo Morales, Christian Ledezma, Esteban Sáez, Kyle Rollins</p>

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<b>Tuesday, June 12, 2018</b>		
<p><i>10:30 am – 12:15 pm</i></p> <p><b>G02/ Seismic Hazard Assessment 2</b></p> <p><i>Moderator:</i> Sebastiano Foti, Ph.D., Politecnico Di Torino</p> <p><i>Theme Lecture:</i> Sissy Nikolau, Ph.D., P.E., D.GE, F.ASCE, WSP Parsons Brinckerhoff</p> <p><b>Earthquake-Resilient Infrastructure: The Missing Link</b></p> <p>Sissy Nikolaou, Rallis Kourkoulis, Guillermo Diaz-Fanas</p> <p><i>Papers:</i></p> <p><b>Salient Features of Seismic Hazard Deaggregation and Computation of Vector Hazard</b></p> <p>Somayajulu L. N. Dhulipala, Adrian Rodriguez-Marek, Madeleine M. Flint</p> <p><b>Site Condition Influence on the Generalized Interstory Drift Spectrum (GIDS) as a Damage Estimation Tool for Urban Areas during Mw 7.8 Muisne-Pedernales Earthquake, Ecuador</b></p> <p>Oscar Gonzalez, Xavier Vera-Grunauer, Eduardo Miranda, Alejandra Vera, Bernardo Casares</p> <p><b>Using 2D Analyses to Augment Probabilistic 1D Site Response Analyses</b></p> <p>Lisa M. Anderson, Albert Kottke, Michael McHood</p> <p><b>UCERF3 Implementation for Site-Specific Probabilistic Seismic Hazard Analysis</b></p> <p>Jason Altekruze, Alfredo Fernandez, Roland LaForge, Dean Ostenaar, Osman El Menchawi, Thaleia Travarasrou</p> <p><b>Characteristics of Landslides Induced by the 25 April 2015 M7.8 Nepal Earthquake</b></p> <p>Benjamin Jie Min Lim, Eng Choon Leong</p>	<p><i>10:30 am – 12:15 pm</i></p> <p><b>I01/ Soil Structure Interaction 1</b></p> <p><i>Moderator:</i> Armin W. Stuedlein, Ph.D., P.E., M.ASCE, Oregon State University</p> <p><i>Theme Lecture:</i> Thomas O'Rourke, Ph.D., Hon.D.GE, M.ASCE, Cornell University</p> <p><b>Seismic Resistant Pipeline Response to Earthquake-Induced Ground Deformation</b></p> <p>Thomas D. O'Rourke</p> <p><i>Papers:</i></p> <p><b>Seismic Bearing Capacity of a Strip Footing Situated on Soil Slope Using a Non-Associated Flow Rule in Lower Bound Limit Analysis</b></p> <p>Koushik Halder, Debarghya Chakraborty, Sujit K. Dash</p> <p><b>Inertial and Liquefaction-Induced Kinematic Demands on a Pile-Supported Wharf: Physical Modeling</b></p> <p>Milad Soury, Arash Khosravifar, Stephen E. Dickenson, Scott Schlechter, Nason McCullough</p> <p><b>Calibration of a New Pressure Sensor and Application to a Dynamic Soil Structure Interaction Study</b></p> <p>Anne Lemnitzer, Lohrasb Keykhosropour</p> <p><b>A Quasi-Static Displacement-Based Approximation of Seismic Earth Pressures on Rigid Walls</b></p> <p>Joaquin Garcia-Suarez, Domniki Asimaki</p> <p><b>Comparison of Pseudo-Static Limit Equilibrium and Elastic Wave Equation Analyses of Dynamic Earth Pressures on Retaining Structures</b></p> <p>Nathaniel Wagner, Nicholas Sitar</p>	<p><i>10:30 am – 12:10 pm</i></p> <p><b>E04/ Liquefaction Triggering, Consequences, and Mitigation 4</b></p> <p><i>Moderator:</i> Shideh Dashti, Ph.D., A.M.ASCE, University of Colorado at Boulder</p> <p><i>Theme Lecture:</i> Jonathan D. Bray, Ph.D., P.E., F.ASCE, University of California, Berkeley</p> <p><b>Simplified Evaluation of Liquefaction-Induced Building Settlements</b></p> <p>Jonathan D. Bray, Jorge Macedo</p> <p><i>Papers:</i></p> <p><b>A Hybrid Simplified Method to Predict Liquefaction in Urayasu City during the Great East 2011 Earthquake</b></p> <p>Ziad Kteich, Pierre Labbé, Jean-François Semblat, Emmanuel Javelaud, Abdelkrim Bennabi</p> <p><b>Re-Evaluation of the Performance of the Upper San Fernando Dam: A Liquefaction-Induced Moderate Deformation Case History</b></p> <p>Khaled Chowdhury, Raymond B. Seed, Douglas S. Dreger, Vlad Perlea, Michael Beaty, Fenggang Ma, Zhi-Liang Wang</p> <p><b>Liquefaction, Ground Motions, and Pore Pressures at the Wildlife Liquefaction Array in the 1987 Superstition Hills Earthquake</b></p> <p>Steven L. Kramer, Samuel S. Sideras, Michael W. Greenfield, Behnam Hushmand</p> <p><b>Gravelly Soil Liquefaction after the 2016 Ecuador Earthquake</b></p> <p>Juan Sebastian Lopez, Xavier Vera-Grunauer, Kyle Rollins, Guillermo Salvatierra</p> <p><b>Lateral Spreading Characteristics from the 2011 Christchurch, New Zealand Earthquake</b></p> <p>Michael V. Little, Ellen M. Rathje, Gregory DePascale, Jeffrey Bachhuber</p>
<p><i>1:30 – 3:00 pm</i></p> <p><b>B03/ Ground Motions and Site Response 3</b></p> <p><i>Moderator:</i> James Kaklamanos, Ph.D., EIT, A.M.ASCE, Merrimack College</p> <p><i>Papers:</i></p> <p><b>Development of Peak Frequency-Site Condition Correlation Models Using H/V Spectral Ratio</b></p> <p>Dong Youp Kwak, Emel Seyhan</p> <p><b>Epistemic Uncertainty in Vs Profiles and Vs30 Values Derived from Joint Consideration of Surface Wave and H/V Data at the FW07 TexNet Station</b></p> <p>Michael B. S. Yust, Brady R. Cox, Tianjian Cheng</p> <p><b>Site Period Characteristics across the Canterbury Region of New Zealand</b></p> <p>Liam M. Wotherspoon, James Munro, Brendon A. Bradley, Clinton Wood, Ethan Thomson, Michael Deschenes, Brady R. Cox</p> <p><b>Investigation of Systematic Ground Motion Effects Through Ground Motion Simulation of Small-to-Moderate Magnitude Earthquakes</b></p> <p>Robin L. Lee, Brendon A. Bradley, Robert W. Graves, Adrian Rodriguez-Marek, Peter J. Stafford</p> <p><b>Development of a United States Community Shear Wave Velocity Profile Database</b></p> <p>Sean K. Ahdi, Shamsheer Sadiq, Okan Ilhan, Yousef Bozorgnia, Youssef M. A. Hashash, Dong Youp Kwak, Duhee Park, Alan Yong, Jonathan P. Stewart</p> <p><b>Importance of Implied Strength Correction for 1D Site Response at Shallow Sites at a Moderate to Low Seismicity Region</b></p> <p>Muhammad Aaqib, Shamsheer Sadiq, Duhee Park, Youssef M. A. Hashash, Menzer Pehlivan</p>	<p><i>1:30 – 3:00 pm</i></p> <p><b>D02/ Laboratory Testing 2</b></p> <p><i>Moderator:</i> Brad P. Wham, Ph.D., A.M.ASCE, University of Colorado, Boulder</p> <p><i>Papers:</i></p> <p><b>Comparisons in the Cyclic Direct Simple Shear Response of Two Sands from Christchurch, New Zealand</b></p> <p>Claudio Cappellaro, Misko Cubrinovski, Jonathan D. Bray, Gabriele Chiaro, Michael F. Riemer, Mark E. Stringer</p> <p><b>Comparison of Cyclic Triaxial Test Results on Sand-Rubber Tire Shred Mixtures with Dynamic Simple Shear Test Results</b></p> <p>B. R. Madhusudhan, A. Boominathan, Subhadeep Banerjee</p> <p><b>Dynamic Failure Potential of Partially Saturated Sand under Ultra-Low Confining Pressures</b></p> <p>Oliver-Denzil S. Taylor, Katherine E. Winters, Woodman W. Berry, Merissa L. Zuzulock</p> <p><b>Experimental Study of Strain Dependent Shear Modulus of Ottawa Sand</b></p> <p>Kaveh H. Zehrab, Seda Gokyer, Artur Apostolov, W. Allen Marr, Salim K. Werden</p> <p><b>Comparison of Measured Cyclic Resistance of Sand in Simple Shear Tests under Constant Volume Versus Undrained Constant Total Vertical Stress Conditions</b></p> <p>Chadi El Mohtar, Yuta Nakamura, Wing Shun Kwan</p> <p><b>Initial Observations on Laboratory Shear Loading Response of Sand-Silt Mixtures</b></p> <p>Achala Soysa, Dharma Wijewickreme</p>	<p><i>1:30 – 3:00 pm</i></p> <p><b>F02/ Numerical Modeling 2</b></p> <p><i>Moderator:</i> Majid T. Manzari, Ph.D., M.ASCE, The George Washington University</p> <p><i>Papers:</i></p> <p><b>Cyclic Multi-Directional Response of Clay Deposits: Evaluating a Constitutive Model</b></p> <p>Hamid Reza Nouri, Cassandra Rutherford, Giovanna Biscontin</p> <p><b>Fragility Based Seismic Performance Assessment of Buried Structures</b></p> <p>Wenyang Zhang, Abdoul R. Ghotbi, Elnaz E. Seylabi, Payman K. Tehrani, Alp Karakoc, Richard Gash, Ertugrul Taciroglu</p> <p><b>Simplified Soil-Pile Interaction Modeling under Impact Loading</b></p> <p>Mojdeh Asadollahi Pajouh, Jennifer Schmidt, Robert W. Bielenberg, John D. Reid, Ronald K. Faller</p> <p><b>Prediction of Three-Dimensional Dynamic Soil-Pile Group Interaction in Layered Soil by Boundary Element Analysis and Seismic Cone Penetration Tests</b></p> <p>Zhiyan Jiang, Jeremy C. Ashlock</p> <p><b>Numerical Simulation of the Seismic Response of Gravity Retaining Walls</b></p> <p>Usama El Shamy, Aliaksei Patsevich</p> <p><b>Simplified Method for Nonlinear Soil-Pile Interactions in Two Dimensional Effective Stress Analysis</b></p> <p>Yukio Tamari, Osamu Ozutsumi, Koji Ichii, Susumu Iai</p>

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as of May 10, 2018

<b>Tuesday, June 12, 2018 - <i>continued</i></b>		
<p><i>3:30 – 5:15 pm</i></p> <p><b>A01/ Regional Scale Assessment</b></p> <p><i>Moderator:</i> Qiushi Chen, Ph.D., EIT, A.M.ASCE, Clemson University</p> <p><i>Theme Lecture:</i> J. David Frost, Ph.D., P.E., F.ASCE, Georgia Tech  <b>The Role of Remote Sensing in Enhancing Geotechnical Analysis</b>                      David Frost</p> <p><i>Papers:</i></p> <p><b>Integration of Heterogeneous Data for Multiscale Regional Liquefaction Settlement Mapping</b>                      Qiushi Chen, Chaofeng Wang, Zhengshou Lai, C. Hsein Juang</p> <p><b>Assessing and Mapping Seismic Liquefaction Hazard, Vulnerability, and Risk of the Transportation Infrastructure of Mumbai City, India</b>                      Reshma R. Phule, Deepankar Choudhury</p> <p><b>Regional Landslide Susceptibility Following the 2016 Kumamoto Earthquake with Newmark's Sliding Block Analysis</b>                      Masahiro Shinoda, Yoshihisa Miyata</p> <p><b>Investigating the Applicability of Integrated Hydrological Modeling for Mapping Regional Liquefaction Hazard</b>                      Utkarsh Mital, Eswar Rajasekaran, Domniki Asimaki, Narendra N. Das</p> <p><b>Performance of Existing Line-Shaped Civil Infrastructure under the Effects of Co-seismic and Inter-seismic Displacements</b>                      Hanwei Yang, Weichia Hung</p>	<p><i>3:30 – 5:15 pm</i></p> <p><b>D03/ Laboratory Testing 3</b></p> <p><i>Moderator:</i> Mark Stringer, Post-Doctoral Research Fellow, University of Canterbury</p> <p><i>Theme Lecture:</i> Bruce Kutter, Ph.D., M.ASCE, University of California, Davis  <b>Twenty-Four Centrifuge Tests to Quantify Sensitivity of Lateral Spreading to Dr and PGA</b>                      Bruce Kutter</p> <p><i>Papers:</i></p> <p><b>Comparing Shear Response of Dense Sands from Centrifuge and Direct Simple Shear Tests with Published Correlations</b>                      Lopamudra Bhaumik, Alfonso A. Cerna-Diaz, Ozgun A. Numanoglu, Scott M. Olson, Cassandra J. Rutherford, Youssef M.A. Hashash, Thomas Weaver</p> <p><b>Effects of Confining Pressure and Void Ratio on the Maximum Shear Modulus of Natural Pumiceous Soils</b>                      Mohammad Bagher Asadi, Rolando P. Orense, Michael J. Pender</p> <p><b>Laboratory Study of Sands Reinforced with Polypropylene Fibers</b>                      Haiwen Li, Kostas Senetakis, Arman Khoshghalb</p> <p><b>Pore Pressure Generation and Dissipated Energy Ratio in Cohesionless Soils</b>                      Carmine P. Polito, Henry H. M. Moldenhauer</p> <p><b>The Relation between Static Young's Modulus and Dynamic Bulk Modulus of Granular Materials and the Role of Stress History</b>                      Amin Gheibi, Ahmadreza Hedayat</p>	<p><i>3:30 – 5:15 pm</i></p> <p><b>E05/ Liquefaction Triggering, Consequences, and Mitigation 5</b></p> <p><i>Moderator:</i> Mourad Zeghal, Ph.D., A.M.ASCE, Rensselaer Polytechnic Institute</p> <p><i>Theme Lecture:</i> Lelio Mejia, Ph.D., P.E., G.E., M.ASCE, Geosyntec Consultants  <b>Seismic Evaluation of Landmark Hydraulic Fill Dam on Soft Soil Foundation</b>                      Lelio Mejia</p> <p><i>Papers:</i></p> <p><b>Blast-Induced Liquefaction Results at the Silty-Sand Site of Mirabello (Emilia Romagna Region, Italy)</b>                      Sara Amoroso, Kyle M. Rollins, Cameron Lusvardi, Paola Monaco, Giuliano Milana</p> <p><b>Geomorphological Controls on the Distribution of Liquefaction in Blenheim, New Zealand, during the 2016 Mw7.8 Kaikōura Earthquake</b>                      Sarah Bastin, Mark E. Stringer, Russell A. Green, Liam Wotherspoon, Sjoerd van Ballegooy, Brady R. Cox, Alex Osuchowski</p> <p><b>Liquefaction Hazard Assessment: Satellites vs. In-Situ Tests</b>                      Brett W. Maurer, Brendon A. Bradley, Sjoerd van Ballegooy</p> <p><b>Measurement of Lateral Spread Displacements in Kaiapoi, New Zealand from the 2010 Darfield Earthquake Using Optical Image Correlation</b>                      J. Grant Martin, Ellen Rathje</p> <p><b>Rapid Liquefaction Detection Using Remote Sensing Techniques: 2011 Christchurch Earthquake</b>                      Vahid Rashidian, Laurie G. Baise</p>

# GRID - Technical Program Schedule

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<b>Wednesday, June 13, 2018</b>		
<p><i>10:30 am – 12:15 pm</i>  <b>B04/ Ground Motions and Site Response 4</b>  <i>Moderator:</i> Albert R. Kottke, Ph.D., P.E., M.ASCE, Pacific Gas and Electric  <i>Theme Lecture:</i> Jonathan Stewart, Ph.D., P.E., M.ASCE, University of California, Los Angeles  <b>Site Response Uncertainties and Impact on Ground Motion Hazard</b>                      Jonathan Stewart, Ph.D., P.E., M.ASCE, University of California, Los Angeles  <i>Papers:</i>  <b>Studies on Soil Parameter Reduction Coefficient from One-Dimensional Ground Response Analyses</b>                      Der-Wen Chang, Jheng-Fong Li, You-Syuan Lin  <b>Neural Network-Based Equations for Predicting PGA and PGV in Texas, Oklahoma, and Kansas</b>                      Farid Khosravikia, Yasaman Zeinali, Zoltan Nagy, Patricia Clayton, Ellen M. Rathje  <b>Liquefaction and Ground Response Analysis of Indian Pond Ash Using Shear Wave Velocity Measurements</b>                      Supriya Mohanty, Nihar Ranjan Patra  <b>Engineering Characteristics of Earthquake Motions from the Pawnee and Cushing Earthquakes in Oklahoma</b>                      Ayushi Tiwari, Ellen M. Rathje  <b>Basin Effects in Strong Ground Motion: A Case Study from the 2015 Gorkha, Nepal Earthquake</b>                      Peyman Ayoubi, Domniki Asimaki, Kami Mohammadi</p>	<p><i>10:30 am – 12:10 pm</i>  <b>I02/ Soil Structure Interaction 2</b>  <i>Moderator:</i> Anne Lemnitzer, Ph.D., A.M.ASCE, University of California, Irvine  <i>Theme Lecture:</i> George Gazetas, Ph.D., P.E., F.ASCE, National Technical University of Athens, Greece  <b>Interaction of a Rupturing Fault with Shallow and Deep Foundations</b>                      George Gazetas, Ph.D., P.E., F.ASCE, National Technical University of Athens, Greece  <i>Papers:</i>  <b>Key Parameters for Predicting Residual Tilt of Shallow-Founded Structures Due to Liquefaction</b>                      Zach Bullock, Zana Karimi, Shideh Dashti, Abbie Liel, Keith Porter  <b>Comparison of Experimental and Computational Snap-Back Responses of Driven Steel Tube Piles in Stiff Clay</b>                      Michael J. Pender, Lucas S. Hogan, Liam M. Wotherspoon  <b>A Nonlinear Model Inversion to Estimate Dynamic Soil Stiffness of Building Structures</b>                      Hamed Ebrahimian, S. Farid Ghahari, Domniki Asimaki, Ertugrul Taciroglu  <b>Centrifuge Modeling to Evaluate Kinematic Soil-Foundation-Structure Interaction</b>                      Amin Borghei, Majid Ghayoomi  <b>Factors Affecting the Torsional Response of Deep Foundations</b>                      Qiang Li, Armin W. Stuedlein</p>	<p><i>10:30 am – 12:15 pm</i>  <b>E06/ Liquefaction Triggering, Consequences, and Mitigation 6</b>  <i>Moderator:</i> Kevin W. Franke, Ph.D., P.E., M.ASCE, Brigham Young University  <i>Theme Lecture:</i> Misko Cubrinovski, Ph.D., University of Canterbury, New Zealand  <b>Liquefaction of Reclaimed Land at Wellington Port in the 2016 Kaikoura Earthquake</b>                      Misko Cubrinovski, Ph.D., University of Canterbury, New Zealand  <i>Papers:</i>  <b>Ground Improvement Reinforcement Mechanisms Determined for the Mw7.8 Muisne Ecuador Earthquake</b>                      Miriam E. Smith, Kord J. Wissmann  <b>Next-Generation Liquefaction (NGL) Case History Database Structure</b>                      Scott J. Brandenberg, Dong Youp Kwak, Paolo Zimmaro, Yousef Bozorgnia, Steven L. Kramer, Jonathan P. Stewart  <b>The Effects of Long-Duration Subduction Earthquakes on Inelastic Behavior of Bridge Pile Foundations Subjected to Liquefaction-Induced Lateral Spreading</b>                      Jonathan Nasr, Arash Khosravifar  <b>Volumetric Strains from Inverse Analysis of Pore Pressure Transducer Arrays in Centrifuge Models</b>                      Kathleen M. Darby, Ross W. Boulanger, Jason T. DeJong  <b>A Simplified Procedure for Evaluating Post-Seismic Settlements in Liquefiable Soils</b>                      Anna Chiaradonna, Emilio Bilotta, Anna d'Onofrio, Alessandro Flora, Francesco Silvestri</p>
<p><i>1:30 – 3:00 pm</i>  <b>D04/ Laboratory Testing 4</b>  <i>Moderator:</i> Scott M. Olson, Ph.D., P.E., M.ASCE, University of Illinois, Urbana  <i>Papers:</i>  <b>Cyclic Strength of Ottawa F-65 Sand: Laboratory Testing and Constitutive Model Calibration</b>                      Katerina Ziotopoulou, Jack Montgomery, Ana Maria Parra Bastidas, Brian Morales  <b>Importance of Automatization on Dry Funnel Deposited Specimens for Liquefaction Testing</b>                      M. Murat Monkul, Şenay Yenigün, Ece Eseller-Bayat  <b>Undisturbed Sampling of Pumiceous Deposits in New Zealand</b>                      Mark E. Stringer, Rolando P. Orense, Michael J. Pender, Iain Haycock  <b>Modification of Stokoe-Type Resonant Column and Torsional Shear Testing Device for Measurements at Higher Strains</b>                      Inthuom Sasanakul, Yoon Shin Bae, James Bay  <b>Hazard-Resilient Pipeline Joint Soil-Structure Interaction under Large Axial Displacement</b>                      Brad P. Wham, Blake A. Berger, Chalermapat Pariya-Ekkasut, Thomas D. O'Rourke  <b>A Critique of b-values Used for Computing Magnitude Scaling Factors</b>                      Kristin J. Ulmer, Sneha Upadhyaya, Russell A. Green, Adrian Rodriguez-Marek, Peter J. Stafford, Julian J. Bommer, Jan van Elk</p>	<p><i>1:30 – 3:00 pm</i>  <b>F03/ Numerical Modeling 3</b>  <i>Moderator:</i> Mahdi Taiebat, Ph.D., P.Eng, M.ASCE, University of British Columbia  <i>Papers:</i>  <b>Assessment of Vulnerability Curves of Pircas over Slopes by the Discrete Element Method (DEM): A Case Study in Carabayllo, Peru</b>                      Criss Zanelli, Sandra Santa Cruz, Noelia Valderrama, Dominique Daudon  <b>Selective Filtering of Numerical Noise in Liquefiable Site Response Analyses</b>                      Yannis Z. Tsiapas, George D. Bouckovalas  <b>Modeling Delayed Flow Liquefaction Initiation after Cyclic Loading</b>                      Zhenhao Shi, Ferdinando Marinelli, Giuseppe Buscarera  <b>Assessment of Soil-Structure-Fluid Interaction of a Digester Tank Complex in Liquefiable Soils under Earthquake Loadings</b>                      Deepak Rayamajhi, Dario Rosidi, Michele McHenry, Nathan M. Wallace  <b>Discrepancy Metrics and Sensitivity Analysis of Dynamic Soil Response</b>                      Mourad Zeghal, Nithyagopal Goswami, Majid Manzari, Bruce Kulter  <b>Data Analytics Applied to a Microscale Simulation Model of Soil Liquefaction</b>                      Usama El Shamy, Michael Hahsler</p>	<p><i>1:30 – 3:00 pm</i>  <b>E07/ Liquefaction Triggering, Consequences, and Liquefaction 7</b>  <i>Moderator:</i> Arash Khosravifar, Ph.D., P.E., M.ASCE, Portland State University  <i>Papers:</i>  <b>Challenges in Geoseismic Upgrade of Bridges in the Fraser Delta, BC, Canada</b>                      Alex Sy  <b>A Centrifuge Study of the Effects of Dense Granular Columns on the Performance of Gently Sloping Liquefiable Sites</b>                      Mahir Badanagki, Shideh Dashti, Peter Kirkwood  <b>An Experimental Study on the Effects of Enhanced Drainage for Liquefaction Mitigation in Dense Urban Environments</b>                      Peter Kirkwood, Shideh Dashti  <b>Effects of Variability in Base Excitation on the Response of Liquefiable Heterogeneous Sloping Ground</b>                      Mohamed A. ElGhoraiby, Majid T. Manzari  <b>Effect of Non-Liquefiable High Fines-Content, High Plasticity Soils on Liquefaction Potential Index (LPI) Performance</b>                      Sneha Upadhyaya, Brett W. Maurer, Russell A. Green, Adrian Rodriguez-Marek  <b>Optimization of Grid Spacing Pattern for the Development of Reference Parameter Maps for Liquefaction-Induced Free-Field Settlement</b>                      Kevin W. Franke, Braden M. Error</p>

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<b>Wednesday, June 13, 2018 - continued</b>		
<p><i>3:30 – 5:00 pm</i>  <b>B05/ Ground Motions and Site Response 5</b>  <i>Moderator:</i> Ramin Motamed, Ph.D., P.E., M.ASCE, University of Nevada, Reno  <i>Papers:</i>  <b>On the Use of a Bilinear Noise Model to Recover Residual Displacement from Strong Motion Recordings</b>                      Reeves Whitney  <b>Application of Conditional Mean Spectra in Liquefaction Triggering Evaluation</b>                      Albert R. Kottke, Michael D. Boone, Nick J. Gregor, Mahi Galagoda  <b>Impact of Ground Motion Modification on Results of Newmark-Type Displacement Analyses</b>                      Clinton P. Carlson, Dimitrios Zekkos  <b>Seismic Zonation of the City of Esmeraldas</b>                      Xavier Vera-Grunauer, Sebastian Lopez, Alejandra Vera, Jorge Ordoñez, Carlos Pozo, Luis Mendez  <b>Effects of Cracks on the Seismic Response of Soft Clay-Embankment Systems</b>                      Juan M. Mayoral, Adriana Badillo, and Simón Tepalcapa  <b>Effect of the 2D Spatial Variability of Linear Soil Properties on the Variability of Surface Ground Motion Coherency</b>                      Elias El Haber, Cecile Cornou, Dalia Youssef Abdelmassih, Denis Jongmans, Tamara Al-Bittar, Fernando Lopez-Caballero</p>	<p><i>3:30 – 5:00 pm</i>  <b>F04/ Numerical Modeling 4</b>  <i>Moderator:</i> Usama S. El Shamy, Ph.D., P.E., M.ASCE, Southern Methodist University  <i>Papers:</i>  <b>Evaluation of Liquefaction Case Histories from the 2010-2011 Canterbury Earthquakes Using Advanced Effective Stress Analysis</b>                      Nikolaos Ntritsos, Misko Cubrinovski, Aimee Rhodes  <b>Cyclic Shearing Response of Granular Material in the Semi-Fluidize Regime</b>                      Andres R. Barrero, William Oquendo, Mahdi Taiebat, Arcesio Lizcano  <b>Partially Saturated Soil: Formulation through Generalized Fluid Vector and Validation with Leaking Test</b>                      Susumu Iai  <b>SSI Versus SSSI for Adjacent Pump Stations in San Francisco</b>                      Kirk C. Ellison, Armin Masroor, Sue Chen, William Liang, Tina Kwan, Bessie Tam, Martin Walker  <b>Fragility Assessment of Transportation Infrastructure Systems Subjected to Earthquakes</b>                      Sotiris Argyroudis, Stergios Mitoulis, Amir M. Kaynia, Mike G. Winter  <b>Energy Dissipation in Soil Structure Interaction System</b>                      Han Yang, Yuan Feng, Sumeet K. Sinha, Hexiang Wang, Boris Jeremić</p>	<p><i>3:30 – 5:00 pm</i>  <b>C01/ In Situ Site Characterization</b>  <i>Moderator:</i> Menzer Pehlivan, Ph.D., P.E., M.ASCE, CH2M; Thaleia Travarasrou, Ph.D., G.E., P.E., M.ASCE, Fugro Consultants, Inc.  <i>Papers:</i>  <b>Machine Learning Applications for Site Characterization Based on CPT Data</b>                      Dimitra Tsiaousi, Thaleia Travarasrou, Vasilis Drosos, Jose Ugalde, Jacob Chacko  <b>Measured and Predicted VS Values of a Granular Backfill Test Pad</b>                      Kenneth H. Stokoe II, Sungmoon Hwang, Michael Boone, Michael R. Lewis, Yaning Wang, Matthew F. Cooke, Andrew Keene  <b>Determination of Shear Strength Parameters Using Screw Driving Sounding (SDS)</b>                      S. Yasin Mirjafari, Rolando P. Orense, Naoaki Suemasa  <b>In-Situ Testing for Evaluation of Modulus and Damping of Solid Waste at a Hazardous Waste Landfill</b>                      Neven Matasovic, Dimitrios Zekkos, Andhika Sahadewa, Clinton P. Carlson  <b>Site Characterization of TexNet Seismic Stations Using Different Geophysical Approaches</b>                      Alexandros Savvaids, Ellen Rathje, Brady Cox, Zalachoris George, Tiwari Ayushi, Michael Yust, Bissett Young  <b>Experiments Using a UAV-Deployed Impulsive Source for Multichannel Analysis of Surface Waves Testing</b>                      William W. Greenwood, Hao Zhou, Dimitrios Zekkos, Jerome P. Lynch</p>

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## Monday, June 11, 2018

12:00 – 1:30 pm

### POSTER Presentations

**Acceleration Response of a Geosynthetic Reinforced Soil Bridge Abutment under Dynamic Loading**

Yewei Zheng, John S. McCartney, Patrick J. Fox, P. Benson Shing

**An Investigation on the Effect of Bidirectional Seismic Loading on Volumetric Strain and Surface Settlement of Sand Deposits**

James Adinata, Andrés Reyes, Andrés R. Barrero, Mahdi Taiebat

**Analysis of Train Induced Vibrations and Investigation of Preventive Measures for Reinforced Earth Walls**

Ozgur L. Ertugrul, Nihan A. Ertugrul

**Approximation of Equivalent Linear Ground Response Analysis at Low Strain by Strain Dependent Linear Ground Response Analysis for Typical Site at Delhi, India**

Abhishek Kumar, Suman Haldar, Olympia Baro

**Assessment of Nakamura Methodology for Evaluating Soil Liquefaction Potential**

Mauricio Herrera, Sebastián Arango, Alejandro Cruz, Eimar Sandoval, Peter Thomson

**Bayesian Estimation of Nonlinear Soil Model Parameters Using Centrifuge Experimental Data**

Elnaz Esmailzadeh Seylabi, Hamed Ebrahimiyan, Wenyang Zhang, Domniki Asimaki, Ertugrul Taciroglu

**Capabilities and Limitations of Different Numerical Tools in Capturing Seismic Site Performance in a Layered Liquefiable Site**

Jenny Ramirez, Andres R. Barrero, Long Chen, Alborz Ghofrani, Shideh Dashti, Mahdi Taiebat, Pedro Arduino

**Comparison of Code-Based Design Spectra and Site-Specific Response Spectra in San Francisco**

Pawan Kumar, Jongwon Lee, Martin Walker, Reza Baradaran, Robert Chew

**Comparison of Seismic Performance of High Modulus Columns in Liquefiable Soils**

Selçuk Demir, Pelin Özener

**Construction Vibration Mitigation for Laboratory Animals**

Christopher G. Naida

**CPT Prediction of Liquefaction Resistance Using the CPT Soil Characterization Curve Lookup Technique**

Richard S. Olsen

**Cyclic Behavior at Small Shear Deformations of Non-Liquefiable Sand Ground Obtained from Horizontal 1-D and 2-D E-Defense Tests**

Kentaro Tabata, Masayoshi Sato

**Determination Magnitude Scaling Factor for Induced Earthquakes in Groningen, The Netherlands**

Piet Meijers, Geeralt van den Ham

**Discrete Element Simulation of Soil Liquefaction: Fabric Evolution, Large Deformation and Multi-Directional Loading**

Gang Wang, Duruo Huang, Jiangtao Wei

**Downhole Seismic Testing within Existing Steel Cased Sonic Boreholes**

Viji Fernando, Yannick Wittwer, Rob Luzitano, Trevor Fitzell

**Dynamic Response of Model Footing on Reinforced Sand**

Raghvendra Sahu, Ramanathan Ayothiraman, G. V. Ramana

**Dynamic Stresses in Foundation Soils beneath Strip Footings**

Bahareh Heidarzadeh, Jonathan P. Stewart, George Mylonakis

**Effect of Local Site Condition on the Seismic Stability of Municipal Solid Waste Landfills**

Anindya Pain, V. S. Ramakrishna Annareddy, Shantanu Sarkar

**Effect of Sustained Shear on Overburden Stress Correction in Liquefaction Resistance Evaluation**

Hon Yue Sze, Jun Yang

**Effectiveness of Stone Column in Liquefaction Mitigation**

Sunita Kumari, Vishwas A. Sawant, Siddharth Mehndiratta

**Effects of Ageing on the Shear Modulus Degradation Curve of Loose Fraser River Sand**

Ilaibakam W. Omunguye, John A. Howie, Mark A. Styler

**Enactment of New Site Classification System and Design Response Spectra as New Minimum Requirements in Korea**

Satish Manandhar, Hyung-Ik Cho, Dong-Soo Kim

**Evaluating Compaction Quality during Earth Dam Construction Using Multi-Channel Analysis of Surface Wave**

Sheng-Huoo Ni, Wen-Jong Chang, Yu-Zhang Yang, En-Shuo Fan

**Evaluation of Liquefaction Resistance from in Situ and Laboratory-Measured Shear Wave Velocities**

Takashi Kiyota, Chieh-yu Wu

**Evaluation of the Influence of Frequency Characteristics of Input Earthquake on Seismic Coefficient for Gravity Quay Wall via Dynamic Centrifuge Tests**

Moon-Gyo Lee, Jeong-Gon Ha, Heon-Joon Park, Dong-Soo Kim

**Evaluation of the ISA-Hypoplasticity Constitutive Model for the LEAP-2017 Project**

William Fuentes, Vicente Mercado, Carlos Lascarro

**Experimental Study of the Injectability and Effectiveness of Laponite Mixtures as Liquefaction Mitigation Technique**

Lucia Mele, Alessandro Flora, Stefania Lirer, Anna d'Onofrio, Emilio Bilotta

**Field Experiment of Rocking Shallow Foundation on Cohesive Soil Subjected to Lateral Cyclic Loads**

Keshab Sharma, Lijun Deng

**General Equation and Simplified Model to Predict Damping Properties of Clays Using Soil Plasticity**

Behzad Amir-Faryar, M. Sherif Aggour

**Ground Motion Amplification Atop Complex Sedimentary Structures along and Adjacent to the Dead Sea Transform**

Michael Tsesarsky, Shahar Shani-Kadmiel, Omri Volk, Tal Zaslavski, Ram Weinberger, Zohar Gvirtsman

# GRID - Technical Program Schedule

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## Monday, June 11, 2018 - *continued*

12:00 – 1:30 pm

### POSTER Presentations - *continued*

#### Ground Response Analysis of Representative Sites of Hawassa City

Besrat E. Alemu, Asrat Worku, Getnet M. Wassie, Genet T. Habtesellasi

#### Implementation and Application of GEM's Openquake Software on Palmetto Cluster

Elnaz Peyghaleh, Vahidreza Mahmoudabadi, James R. Martin

#### Induced Seismicity in Fox Creek, AB: Amplification Function and Foundation Factors

Gennaro Esposito

#### Integration of Viscoplastic Effects in Nonlinear Ground Response Analysis

Mallak Janati Idrissi, Samuel Yniesta

#### Interactive Web Application for Computing Seismic Earth Pressure

Nikolaos P. Machairas, Magued G. Iskander, Mehdi Omidvar

#### Investigating Implications of Induced Seismicity on Wind Turbine Foundations

Eric Ntambakwa, Ian Prowell, Carlos Guzman

#### Investigating Surface Fault Rupture Hazard Mitigation for Shallow Foundations by EPS Wall Using Numerical Studies

Sajjad Heidari Hasanaklou, Alireza Saeedi Azizkandi, Mohammad Hasan Baziar

#### Investigation into the Settlement of a Case Study Building on Liquefiable Soil in Adapazari, Turkey

Julieeth Quintero, Sofia Saldanha, Maxim Millen, Antonio Viana da Fonseca, Sinan Sargin, Sadik Oztoprak, Mustafa Kubilay Kelesoglu

#### Investigation of Rocking Mechanism of Shallow Foundation via Centrifuge Tests

Kil-Wan Ko, Jeong-Gon Ha, Heon-Joon Park, Dong-Soo Kim

#### Land Use Exposure to Deterministic Seismic Hazard in Delhi National Capital Territory

Saranya Divakar, E. Lalith Prakash, Sreevalsa Kolathayar

#### Liquefaction Probability Curves for Three Surficial Sand Deposits near Charleston, South Carolina

Joshua D. Gathro, Barnabas Bwambale, Ronald D. Andrus, Tahereh Heidari

#### Modelling Nonlinear Site Effects in Physics-Based Ground Motion Simulation

Christopher A. de la Torre, Brendon A. Bradley

#### Neptune Marina Ground Improvement Case Study

Thang Nguyen, Aditya Zutshi, Chase Henri, Lisheng Shao

#### On the Applicability of Shear Strain Index as a Proxy for Site Response Nonlinearity

Jian Shi, Domniki Asimaki

#### Pile Driving Vibration Attenuation Relationships: Overview and Calibration Using Field Measurements

Athina Grizi, Adda Athanasopoulos-Zekkos, Richard D. Woods

#### Predicting Soil Liquefaction Lateral Spreading: The Missing Time Dimension

Wing Shun Kwan, Sam S. Sideras, Chadi El Mohtar

#### Probabilistic Geotechnical Site Characterization from Geophysical Measurements Using Model-Data Fusion

Siddharth S. Parida, Kallol Sett, Puneet Singla

#### Probabilistic Seismic Hazard Analyses in Low Seismicity Regions: A Case History in the Arabian Peninsula

Konstantinos Syngros, Ramin Golesorkhi

#### Probability of Liquefaction at the Sampit and Gapway Sites in South Carolina

Emad Gheibi, Sarah L. Gassman

#### Processing, Visualization, and Analysis of Direct Simple Shear Test Data Using Jupyter Notebooks in the DesignSafe Cyberinfrastructure

Mohammad M. Eslami, Ai Zhong, Scott J. Brandenberg

#### Reevaluation of SPT-Based Liquefaction Case History Using Earthquake Demand Energy

Hamid Rostami, Mohammad H. Baziar, Mahdi Alibolandi

#### Re-Evaluation of the Lower San Fernando Dam: A Seismic Performance Case History Involving Liquefaction Flow Failure Conditions

Khaled Chowdhury, Raymond B. Seed, Douglas S. Dreger, Vlad Perlea, Michael Beaty, Fenggang Ma, Zhi-Liang Wang

#### Response of Hybrid Monopile-Friction Wheel Foundation under Earthquake Loading Using Centrifuge Modelling

Xuefei Wang, Xiangwu Zeng, Xinyao Li

#### Robust Earthquake Site Characterization at Ontario Bridge Sites

Alex Bilson Darko, Sheri Molnar, Abouzar Sadrekarimi

#### Seismic Stability Analysis of Soil Slopes Using Soil Nails

Pankaj Rawat, Kaustav Chatterjee

#### Selecting Moduli Reduction and Damping Curves Based on Cone Penetration Test Soil Behaviour Type

Mark A. Styler, John Rogie, Ilmar Weemees

#### Selection of Physical 2D Probabilistic Realizations of Shear Wave Velocity Random Field Based on Dispersion Curves Derived from MASW Numerical Experiment

Eliane Youssef, Elias El Haber, Dalia Abdel Massih, Cecile Cornou, Tamara Al-Bittar, Fernando Lopez-Caballero

#### SEM-Based Seismic Slope Stability and Mitigation Model for the Jure Landslide after the 7.8Mw 2015 Barpak-Gorkha, Nepal Earthquake

Netra P. Bhandary, Ram C. Tiwari, Ryuichi Yatabe, Surendra Paudel

#### Shear Strength Characteristics of Internal Bentonite Layer of GCL Used in Small Earth Dams under Cyclic Loading

Rintaro Shigemoto, Yutaka Sawada, Riku Maki, Toshinori Kawabata

#### The Takanodai Landslide, Kumamoto, Japan: Insights from Post-Earthquake Field Observations, Laboratory Tests and Numerical Analyses

Gabriele Chiaro, Mohammed Umar, Takashi Kiyota, Christopher Massey

#### Uplift Analysis of an Underground Structure in a Liquefiable Soil Subjected to Dynamic Loading

Priya Beena Sudevan, Boominathan Adimoolam, Subhadeep Banerjee