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<th>Track A</th>
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<tr>
<td>Welcoming Remarks from Edward G. Rendell</td>
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<th>Track C</th>
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<th>Track D</th>
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<tr>
<td>Sust-RTI, Powerful, Interactive Talks on Geotechnical Topics</td>
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<th>Track E</th>
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<th>Track G</th>
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<th>Track H</th>
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<td>Panel - Room 126: Deep Foundations in Urban Environments</td>
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### Technical Sessions

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#### 10:00 – 10:30 a.m.
- **Panel - Room 126: Deep Foundations in Urban Environments**
  - **Panelists:**
    - Peggy Hagerty Duffy, P.E., D.GE, ASCE, Chair
    - Thomas Jousselin, Stantec Inc.
    - Brian C. McQuire, Ph.D., P.E., MASCE
    - Kathryn Patel, P.E., FNAIA
    - Moderator: George E. Leventis, P.E., FASCE, Langan

#### 10:30 a.m. – 12:00 p.m.

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<td>SF01 - Shallow Foundations</td>
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<tr>
<td>SF02 - Embankments, Dams, and Slopes: Data and Lessons</td>
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<tr>
<td>SF03 - Multi-Decadal Earth Dam Remodeling and the Importance of Geotechnical Investigation</td>
</tr>
<tr>
<td>SF04 - Lateral Spreading Shake Table Testing at the University of California San Diego</td>
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<tr>
<td>SF05 - Soil Improvement: Case Histories from the Southeast and Beyond</td>
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<tr>
<td>SF06 - Stabilization of the Gull Island Confined Disposal Facility</td>
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<tr>
<td>SF07 - Hazardous Waste: Earthquake Engineering and Site Characterization</td>
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<tr>
<td>SF08 - Reliability of Shallow Foundation Systems Based on Performance Criteria</td>
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<tr>
<td>SF09 - The Effects of Liquefaction and Seismic Loading on Rocky Coastline Structures</td>
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<tr>
<td>SF10 - Review and Synthesis of the Geotechnical Literature on the Lake Erie Waterfront</td>
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<tr>
<td>SF11 - The Use of Geosynthetics in Stabilization Projects</td>
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<tr>
<td>SF12 - Innovative Solutions for Shallow Foundation Design and Construction</td>
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<tr>
<td>SF13 - Development of a Calibration Model for Moisture Content Determination Utilizing a Hybrid Nuclear-Electric Gauge</td>
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### Other Sessions

- **Comparing Direct Cone Penetration Testing Foundation Designs and Traditional Foundation Designs**
  - Ryan O’Keeffe, P.E., MASCE, University of Minnesota Duluth
  - David Deacon, P.E., MASCE, University of Minnesota Duluth
  - Paul Mayne, P.E., MASCE, Georgia Institute of Technology
  - David Saffier, A.MASCE, University of Minnesota Duluth

- **Analysis of differential settlement of circular tank foundations on multilayered soil**
  - Suranga Othreepathi, PhD, East Carolina University
  - Carolina Thanksgiving, PhD, East Carolina University
  - Alexander T. T. Y. Wong, PhD, East Carolina University
  - Corey D. Guntur, PhD, East Carolina University
  - Chad S. Connors, PhD, East Carolina University

- **Protection and Analysis of_indirect SOUND缺席**
  - Patrick J. Smith, PhD, CE, ASCE, University of Delaware
  - Christopher Meehan, PhD, CE, ASCE, University of Delaware
  - Victor Kaliakin, PhD, CE, ASCE, University of Delaware

- **Multi-Disciplinary Earth Dam Inspection Methods and Analysis**
  - Andisheh Nosrat, PhD, CE, ASCE, University of California, San Diego
  - Stephen Hughes, PhD, CE, ASCE, University of Puerto Rico at Mayaguez
  - Stephen Hughes, PhD, CE, University of Puerto Rico at Mayaguez

- **An Overview of Innovative Geotechnical Solutions for Shallow Foundation Design and Construction**
  - Patrick J. Smith, PhD, CE, ASCE, University of Delaware
  - Christopher Meehan, PhD, CE, ASCE, University of Delaware
  - Victor Kaliakin, PhD, CE, ASCE, University of Delaware

- **A Study on the Quality of Improved Bores in Liquefied Soil**
  - Jet Grouting Utilization Including a Custom Monitoring System for Improved Bores in Liquefied Soil
  - Takasi Shinsaka, Dr.Eng, P.E.Jp, Sen.Pro.C.E., Sanshin Corporation
  - Junichi Yamazaki, P.E.Jp, Sanshin Corporation
  - Yukihiro Hoshino, N.I.T. Inc.
  - Kazuhito Komiya, Chiba Institute of Technology

- **A Non-Stationary Power Law Model to Predict the Secondary Creep Rate of Rocks**
  - Ruofan Wang, PhD, CE, École Polytechnique de Montréal
  - Li Li, PhD, École Polytechnique de Montréal

- **Numerical Study of the Behavior of a Fully Encased Stone Column Bearing on a Non-Rigid Layer**
  - Al Saada, University of Delaware
  - Christopher Meehan, University of Delaware
  - Victor Kaliakin, University of Delaware

- **On-Site Particle Size Distribution by Size Distribution**
  - Andrea Ventola, S.MASCE, University of Michigan
  - Roman Yavu, P.D., MASCE, University of Michigan
Comparison of Estimated Soil Settlements Using Strain-Dependent and High-Strain Elastic Models: John Davis Ph.D., P.E., CEng, M.ASCE; Tyler Liao; Michael Levis; Jose Clemente, Batchel

Conical Load Test-Induced Settlement in Central Florida Soils: Class A Prediction of Field Performance with Advanced Soil Models: A. Felipa Urbina-Hernandez, University of Central Florida; Luis Articida-Monsalve Ph.D., University of Central Florida; Sergio Saverio, University of Central Florida; Marco Chopra Ph.D., P.E., University of Central Florida; Larry Jones, University of Florida; Don Drinkwater

A New Analysis of Circular Raft on Layered Elastic Soil: Heasham Elhinn, University of Waterloo; Bipin Gupta, University of Waterloo; Dipayan Basu Ph.D., C. Eng, M.ASCE, University of Waterloo

Use of the Observational Method as the Sole Basis for Design: Use of the Observational Method as the Sole Basis for Design: Michael Duncan Ph.D., P.E., D.OE(Ret.), Dist.M.ASCE, Virginia Polytechnic Institute and State University, and Thomas L. Brandon Ph.D., P.E., M.ASCE, W.E. English Geotechnical Research Laboratory, Virginia Polytechnic Institute and State University

Repairs to Whitehouse Lake Dam: Peter J. Anderson, ETTL Engineers and Consultants, Inc.

Monday, March 25, 2019
Track A | Room 122A
Track B | Room 122B
Track C | Room 123
Track D | Room 124
Track E | Room 121B
Track F | Room 20C
Track G | Room 121A
10:30 a.m. – 12:00 p.m.
Technical Sessions

EE01: Earthquake Engineering and Soil Dynamics: K. H. Eberhard, P.E., A.M.ASCE; Dragos Toteu, M.ASCE

EE02: Seismic Performance of Buildings at Centreport Wellington: Jonathan Bray Ph.D., P.E., NAE, F.ASCE, University of California, Berkeley; Mike Cunin, Ph.D., P.E., University of Canterbury, Christchurch, NZ; Christopher da la Torre Ph.D., University of Canterbury, Christchurch, NZ; Ritu Dhakal, University of Canterbury, Christchurch, NZ


EE03: Numerical Study of Dynamic Soil-Structure Interaction in Bridges by Using Large-Amplitude Mobile Shakers: Saeed Vafany, Ph.D., M.ASCE, Rutgers University; Brady Cox, Brudy Co., University of Texas, Austin; Farzad Mem, The University of Texas, Austin; Frankin Moon, Rutgers University; John Davis Ph.D., Rutgers University

Case Study: Design, Installation and Analysis of Column Supported Embankment Systems at I-295/I-76/Route 42 Direct Connection: Xuefang Xin, B.S., M.ASCE, University of Illinois at Urbana-Champaign; Xinlei Zhai, M.S., M.ASCE, University of Missouri; Jingtao Zhang, M.S., M.ASCE, University of Nebraska-Lincoln; Xiangheng Kim, Ph.D., University of Nebraska-Lincoln

Seismic Performance of Buildings at Centreport Wellington: Jonathan Bray Ph.D., P.E., NAE, F.ASCE, University of California, Berkeley; Mike Cunin, Ph.D., P.E., University of Canterbury, Christchurch, NZ; Christopher da la Torre Ph.D., University of Canterbury, Christchurch, NZ; Ritu Dhakal, University of Canterbury, Christchurch, NZ

EE04: Analysis of Dynamic Efforts on Reservoir-Feeding Rock Interactions during Injection Operations: Xirong Zhai, Ph.D., University of Buffalo; Kameila Mohamed, Ph.D., University of Arizona

EE05: Geotechnical Engineering: Marco Iusitti P.E., M.ASCE, Melissa S. Beangard EIT, M.ASCE

EE06: Geosynthetics Moderators: Marco Iusitti P.E., M.ASCE, Melissa S. Beangard EIT, M.ASCE

Comparison of Estimated Soil Settlements Using Strain-Dependent and High-Strain Elastic Models: John Davis Ph.D., P.E., CEng, M.ASCE; Tyler Liao; Michael Levis; Jose Clemente, Batchel

Conical Load Test-Induced Settlement in Central Florida Soils: Class A Prediction of Field Performance with Advanced Soil Models: A. Felipa Urbina-Hernandez, University of Central Florida; Luis Articida-Monsalve Ph.D., University of Central Florida; Sergio Saverio, University of Central Florida; Marco Chopra Ph.D., P.E., University of Central Florida; Larry Jones, University of Florida; Don Drinkwater

A New Analysis of Circular Raft on Layered Elastic Soil: Heasham Elhinn, University of Waterloo; Bipin Gupta, University of Waterloo; Dipayan Basu Ph.D., C. Eng, M.ASCE, University of Waterloo

Use of the Observational Method as the Sole Basis for Design: Use of the Observational Method as the Sole Basis for Design: Michael Duncan Ph.D., P.E., D.OE(Ret.), Dist.M.ASCE, Virginia Polytechnic Institute and State University, and Thomas L. Brandon Ph.D., P.E., M.ASCE, W.E. English Geotechnical Research Laboratory, Virginia Polytechnic Institute and State University

Repairs to Whitehouse Lake Dam: Peter J. Anderson, ETTL Engineers and Consultants, Inc.
Technical Sessions

**Room 122A**
- **EG02 - Engineering Geology and Site Characterization: Part II**
- **XD01 - Data and Software for Geotechnical Engineering (New Title TBD)**

**Room 125**
- **SU01 - Sustainability In Geotechnical Engineering**

**Room 124**
- **Influence of Temperature Variation on Freeze-Thaw and Sand Blasting Processes**
  - Frederick F. Tajirian Ph.D., P.E., F.ASCE, Chevron Energy Technology Company; Mansour Tabatabaie Ph.D., P.E., MTR and Associates; Pramod Rao Ph.D., P.E., M.ASCE, Chevron Energy Technology Company

**Room 121A**
- **Role of Water Absorption on Karst Topography Risks – Analysis of Laterally Loaded Piles**
  - Jason S. Lamb P.E., Hertz P.E., M.ASCE, Skanska; Shobha K. Smith Ph.D., John P. Stopen Engineering Partnership; Shobha K. Bhalla P.G., Syracuse University

**Room 121C**
- **Secondary Settlements of a Highway Embankment Constructed over Highly Organic Soils: A Case History**
  - Jennifer L. Sebastian Bryson Ph.D., P.E., University of Kentucky; Faisal S. Ahmed M.ASCE, University of Kentucky

**Room 122B**
- **Influence of Temperature Variation on Complex-Impedance Measuring Instrument Test Results**
  - Jason S. Lamb P.E., Hertz P.E., M.ASCE, Skanska; Shobha K. Smith Ph.D., John P. Stopen Engineering Partnership; Shobha K. Bhalla P.G., Syracuse University

**Room 122C**
- **Impact of Hysteretic Damping on Numerical Dynamic Soil-Structure-Interaction Analyses**
  - Yvezane Graniers Ph.D., P.E., M.ASCE, University of Illinois at Urbana-Champaign; Qiong A. Huang M.S., M.ASCE, University of Illinois at Urbana-Champaign; Yoosae N. Hashash Ph.D., P.E., M.ASCE, University of Illinois at Urbana-Champaign; Shiht-Shi Dai Ph.D., P.E., M.ASCE, University of Colorado Boulder

**Room 123**
- **Role of Water Absorption on Karst Topography Risks – Analysis of Laterally Loaded Piles**
  - Frederick F. Tajirian Ph.D., P.E., F.ASCE, Chevron Energy Technology Company; Mansour Tabatabaie Ph.D., P.E., MTR and Associates; Pramod Rao Ph.D., P.E., M.ASCE, Chevron Energy Technology Company

**Room 120**
- **GIS-Based Geotechnical Engineering Data Management: A Case Study at the Alabama DOT**
  - Ruttithivaphanich, University of South Florida; Shun Kwan Ph.D., P.E., M.ASCE, California State University, Los Angeles; James M. Hashash Ph.D., P.E., F.ASCE, University of Colorado Denver; Youssef K. Elbestawi Ph.D., P.E., M.ASCE, University of Central Florida

**Room 121**
- **Comparison of Settlement Response of Piled-Raft Foundation Subjected to Combined Loads Computed from Finite Element and Analytical Models**
  - Nadarajah Ravichandran M.A.S., Clemson University; Shannon Shrestha, Clemson University

**Room 120A**
- **Effective Stress Conceptualisation for the Design of Laterally Load Piles in Soft Clay**
  - Stephen Halcomb P.E., M.ASCE, Civil Engineering Group LLC; Sean Spaltedt P.E., M.ASCE, PhD Engineering, Inc.

**Room 120**
- **Influence of Temperature Variation on Complex-Impedance Measuring Instrument Test Results**
  - Jason S. Lamb P.E., Hertz P.E., M.ASCE, Skanska; Shobha K. Smith Ph.D., John P. Stopen Engineering Partnership; Shobha K. Bhalla P.G., Syracuse University

**Room 121**
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**Room 124**
- **Role of Water Absorption on Karst Topography Risks – Analysis of Laterally Loaded Piles**
  - Frederick F. Tajirian Ph.D., P.E., F.ASCE, Chevron Energy Technology Company; Mansour Tabatabaie Ph.D., P.E., MTR and Associates; Pramod Rao Ph.D., P.E., M.ASCE, Chevron Energy Technology Company

**Room 125**
- **Secondary Settlements of a Highway Embankment Constructed over Highly Organic Soils: A Case History**
  - Jennifer L. Sebastian Bryson Ph.D., P.E., University of Kentucky; Faisal S. Ahmed M.ASCE, University of Kentucky

**Room 126**
- **GIS-Based Geotechnical Engineering Data Management: A Case Study at the Alabama DOT**
  - Ruttithivaphanich, University of South Florida; Shun Kwan Ph.D., P.E., M.ASCE, California State University, Los Angeles; James M. Hashash Ph.D., P.E., F.ASCE, University of Colorado Denver; Youssef K. Elbestawi Ph.D., P.E., M.ASCE, University of Central Florida

**Room 127**
- **Comparison of Settlement Response of Piled-Raft Foundation Subjected to Combined Loads Computed from Finite Element and Analytical Models**
  - Nadarajah Ravichandran M.A.S., Clemson University; Shannon Shrestha, Clemson University

**Room 128**
- **Effective Stress Conceptualisation for the Design of Laterally Load Piles in Soft Clay**
  - Stephen Halcomb P.E., M.ASCE, Civil Engineering Group LLC; Sean Spaltedt P.E., M.ASCE, PhD Engineering, Inc.
Monday, March 25, 2019

1:30 – 3:00 p.m. Technical Sessions

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3:00 – 3:30 p.m. Afternoon Networking Break

3:30 – 5:30 p.m. Special Session - Room TBD: A 50-Year Tribute to Ralph Peck and the Observational Method, Part II

4:30 – 5:30 p.m. Poster Session

Deep Foundation Poster
Embassy Dams and Slope Poster
EQ Poster

EQ Poster
RM, SP, SP, SU Poster

5:30 – 7:00 p.m. Organizational Member Executive Leadership Dinner and Workshop (Invitation Only)

3:00 – 5:00 p.m. G4 Student Program: Organizational Members and Student Travel Grant Winners Job Fair (Invitation Only)

3:00 – 5:00 p.m. G4 Student Program: Organizational Member and Student Reception
Geo-PIT: Powerful, Informative Talks on Geotechnical Topics

Morning Networking Break

10:00 – 11:30 a.m.

Technical Sessions


- Case History Summaries of 5 Slope Failures, Missed Predictions and Lessons Learned Garry H. Gregorcy Ph.D., P.E., D.GE, M.ASCE, Gregory Geotechnical

- Lipfaction Mitigation of Silty Sands via Microbial Induced Saturation Mosquei Faisal S. Ahmed Ph.D., M.ASCE, Agriculture University of Punjab

- Microbially Induced Calcite Precipitation of Dunce Sand using a Surface Spray Technique Raphael Crowley Ph.D., P.E., M.ASCE, University of North Texas

- Effect of Lime Stabilization on the Unsaturated Hydraulic Conductivity of Clayey Soil Andrew J. Shastri Ph.D., P.E., A.ASCE, Rice University

- Long-term Monitoring of a Slow Moving Landslide before and after Remediation using Ground-Based Radar Interferometry Franco Gomez Ph.D., R.G., University of Missouri; Srikanth Reddy Ph.D., P.E., M.ASCE, University of Arkansas; Marco Gruttadauria Ph.D., P.E., M.ASCE; University of Arkansas; Rodman Ph.D., P.E., M.ASCE, University of Arkansas; Long-term Field Performance of Geosynthetics in Pavement Subgrades in Virginia M. Shabbir S.M.ASCE, University of Virginia; Jay L. Hoppe Ph.D., P.E., M.ASCE, Virginia Department of Transportation; Chaz Weaver P.E., F.ASCE, Virginia Department of Transportation

- Effects of Particle Size on Impact Force from a Granular Sliding Mass on a Rigid Obstruction Andrew W Grant, The Pennsylvania State University; Amr Ahmedpour, The Pennsylvania State University; Tong Du Ph.D., P.E., M.ASCE, University of Illinois at Urbana-Champaign

- Cyclic Behavior of a Reconstituted Gulf of Mexico Clay Yasheh Tashkhi B.S.MASCE, University of Illinois at Urbana-Champaign; Cassandra J. Rutherford Ph.D., P.E., M.ASCE, Iowa State University; Scott M. Olson Ph.D., P.E., M.ASCE, University of Illinois at Urbana-Champaign

- Matting Wind Erosion using Microbially Induced Calcite Precipitation Pierre Bick, Lehigh University; Hsintzu Bao, Lehigh University; Han Fei, Lehigh University; Muhammad T. Suleiman, Lehigh University; Jianbo Gu, Lehigh University; Panayiotis Diplas Ph.D., Lehigh University; Derick Brown Ph.D., Lehigh University; Nabil Daboul Ph.D., Qatar University


- Numerical Analysis of a TBM Retraction Shaft Construction Using Deep Soil Mixing Onur Kacar Ph.D., P.E., Anka USA; Chu Ho Sc.D., P.E., Anka USA

- Roadside Active-Passive MASW Keys for Soil Grouting Evaluation Choon Park Ph.D., Park Seismic LLC; Alessandro Cirone P.E., ENGENGRAT; Roger Rodrigues P.E., ENGENGRAT

- Using Soil-Moisture Active Passive Satellite Data to Evaluate the Performance of Transportation Infrastructure Foundations - A Feasibility Study Simon Packman S.M.ASCE, California State University Los Angeles; Sonya R. Lopez Ph.D., California State University Los Angeles; NASA Data Intensive Research and Education Center for STEM, Ann Faith S.M.ASCE, The University of Texas at El Paso; Maharan Mazari Ph.D., A.M.ASCE, California State University Los Angeles
**Technical Sessions**

09:00 – 11:30 a.m.

**EE03 - Earthquake Engineering and Soil Dynamics**


**GE01 - Unsaturated Soils**

- Laboratories: Kalehiwot Nega MANAHILOH Ph.D., P.E., M.ASCE; Rolge BAYER.

**PS01 - Geophysical Engineering**


**EI04 - Environmental Geotechnics**

- Laboratories: Rasa S. Salmiri, Ahmad Faleh A.M.ASCE.

**Development of Axial Load Transfer (T-2) Analytical Model for the PSC Plate**

- Laboratories: Mohamed T. Sulaiman A.M.ASCE, Jared M. Green P.E., M.ASCE.

**Hydrological Behavior of an Infiltration Induced Landslide in Colorado, USA**

- Laboratories: Alexander Wayback Ph.D., P.E., Colorado School of Mines; Ning Lu Ph.D., F.ASCE.

**PE01 - Foundations**

- Laboratories: Michael G. Gomez A.M.ASCE, University of Washington; Andres D. Yepez, University of Washington; Colin M. Kolbus, University of Washington; Artur Apostолов, Geocomp Corp.

**A NUMERICAL STUDY OF PRE-BORING IMPACTS ON SIDE FRICTION OF PILES**

- Laboratories: Shengli Chen Ph.D., Louisiana State University; Jim Lu P.D., Louisiana State University; Zhongze Zhang Ph.D., P.E., Louisiana State University; Meirci Loo P.D., M.ASCE; Louisian State University; Mohsen Tabrizi, Louisiana State University; Mohsen Eshagh.

**Stabilization of Rainfall-Induced Slope Failure and Pavement Distresses**

- Laboratories: Recycled Plastic Pins and Modified Moisture Barrier Anja Schoolke, University of Texas at Arlington; Aasif Ahmad P.E., National University of Science and Technology; Aasif Ahmad P.E., National University of Science and Technology; National University of Science and Technology.

**Evaluation of shear strength behavior of interbedded silty sands of low plasticity from Emilia Romagna, Italy**

- Laboratories: Daniele Dominica Pinceri, University of Mediteranea of Reggio Calabria; Paola Montana, University of Catania; Laura Torri V.M., University of Bologna.

**Characterizing the Unsaturated Strength Behavior of a Native Transition Soil Used as Backfill in the Construction of USB 351, Section 3 of the Kidsville Ph.D., P.E., Candidate University of Delaware; Kalheshw Nega Manahiloh P.E., P.E., University of Delaware; Victor N. Kainalik, Ph.D., University of Delaware.

**Theoretical Evaluation of the Interval Method Commonly Used for Downhole Seismic Testing**

- Laboratories: Mohammad M. Hattar B.E., P.A.S.C.; Univ. of Texas at Austin; Brady R. Cox P.D., P.E., Univ. of Texas at Austin.

**Evaluation of Direct CPT Methods for Estimating the Ultimate Capacity of Driven Piles**

- Laboratories: Mudhuri A. Nabi P.D., M.ASCE; Mohamed Abbas P.D., M.ASCE; Louisiana State University; Mohsen Eshagh.

**Evaluation of the in-situ effective height control in constant volume monotonic and cyclic Direct Simple Shear test Karav Zehtab, Geocorp; Seda Geral S. Geocorp; Salim K Wermen, Geocorp; W. Aiken Ph.D., P.E., M.ASCE; NAE. Geocorp; Artur Apostолов, Geocomp Corp.

**Stability of Unsaturated Sand Beds in the Interidil Zone during Tsunami Leading Baladi Mahmoon, University of Miami; Aaron P Gallant P.E., P.E., M.ASCE; University of Miami; Benjamin Mason Ph.D., Oregon State University.

**Restoring RMS at Yeager Airport**


**Detection of Voids in Karst Terrain With 3D Full Waveform Tomography**

- Laboratories: Tomography Khiam Tran, University of Florida; Michael McVeigh P.D., University of Florida; Allan Caden P.E., P.E., University of Florida; Jie Han, University of Science and Technology; Scott Wissman Ph.D., University of Florida.

**Assessment of Geotextile Effectiveness in Decreasing Subgrade Pumping and Increasing Service Life in Rigid Pavements**


**Inspection, Monitoring, and Design of a Street Retaining Wall Based on the Wall of a Moving Slope**

- Laboratories: Jason D. Rose P.E., M.ASCE; Same P. E., P.E., M.ASCE; Same P. E., Keynote Engineer, University of Washington; Daniel Alzamora P.E., M.ASCE; senior Geotechnical Engineer, Federal Highway Administration; Moderator: Barry R. Chen P.D., P.E., M.ASCE; Christopher Consultants.

**Large-scale cyclic plate loading tests of wicking geotextiles-stabilized bases with rainfall infiltration Jun Guo, Shenzhen University; Jian Han, University of Kansai, Xiong Zhen, Missouri University of Science and Technology.

**Ultimate limit state design using FEM and advanced soil model**


**Mechanical Assessment of Laiden Pavement Foundation System using Validated Intelligent Compaction Measurements**

- Laboratories: David White P.D., M.E., Ingco Geotechnics, Inc.; Paavani Vennapusa Ph.D., P.E., Ingco Geotechnics; Erol Futumaker P.D., P.E., University Of Illinois at Urbana-Champaign; Maziar Moaven P.D., P.E., University Of Illinois at Urbana-Champaign.
**Technical Sessions**

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td><strong>G101 - Geodynamics</strong> Moderators: Timothy D. Stark Ph.D., P.E., D.GE, M.ASCE, Joao Luiz Machado Clemente Ph.D., P.E., D.GE, M.ASCE</td>
<td>Track B</td>
<td>Room 122B</td>
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<td>10:00 AM</td>
<td><strong>G102 - Soil Dynamics</strong> Moderators: Marco Isola, Ph.D., P.E., M.ASCE, Richard Palumbo, P.E., M.ASCE</td>
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<td>11:00 AM</td>
<td><strong>G103 - Earthq. Geotechnics</strong> Moderators: S. Saidur Rahman, P.E., Gannett Fleming, Inc.; Joseph G. Servos, P.E., Langan Engineering and Environmental Services, Inc.; Kevin Paquette, P.E., Langan</td>
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<td>12:00 PM</td>
<td><strong>G104 - Soil Stabilization</strong> Moderators: Michael T. Lustig, P.E., Langan; Saad Saghir, P.E., Langan</td>
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<td>1:00 – 2:30 p.m.</td>
<td>Technical Sessions</td>
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<td>3:00 – 5:00 p.m.</td>
<td>Poster Session</td>
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<td>6:30 – 7:30 p.m.</td>
<td>Terzaghi Lecture Reception (Invitation Only)</td>
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**Tuesday, March 26, 2019**

**Technical Sessions**

- E05 - Earthquake Engineering and Soil Dynamics: Seismic Hazard Analyses, Site Response, and liquefaction Modestors: Mehrzad Pakhlavan Ph.D., P.E., M.ASCE, Ramin Motieian Ph.D., P.E., M.ASCE
- CS11 - Compositional Geotechnics Modestors: Martin Wetli, Victor N. Katakjian Ph.D., P.E., M.ASCE

**Room 122A**

- LA10 - La Conchita Landslide, Case History and Remedial Measures Moderators: Daniel Pradel Ph.D., P.E., G.E., M.ASCE, The Ohio State University

**Room 125**

- LA11 - Generating Synthetic Borehole Data for Applications in Site-Specific and Regional Evaluation of Liquefaction Consequences Zacz Bukowc, University of Colorado Boulder;
  Shiadhi Daifal, University of Colorado Boulder;
  Abbas B. Liel, University of Colorado Boulder;
  Keith A. Porter, University of Colorado Boulder

**Poster Session**

- CG - Poster Session
- EA - Poster Session
- GE - Poster Session
- JT - Poster Session
- PA - Poster Session

**Room 121A**

- A Simple and Rigorous Approach for Probabilistic Internal Stability Analysis and Design of Reinforced Soil Walls Moderators: Richard J. Bathurst, Ph.D., M.ASCE, Royal Military College of Canada

**Room 121B**

- A High Load Test for Large Diameter Drilled Shafts for the Kosciuszko Bridge Replacement Moderators: Daniel Baak, Zellers P.E., P.E., WSP; Sheryl Harna P.E., WSP; Matthew Russco P.E., P.E., WSP; Robert Adams P.E., P.E., New York State Department of Transportation; Jeffrey Mory P.E., New York State Department of Transportation

**Room 121C**

- Evaluation of the Mechanical Behavior of Shirin-Dare Earth Dam by the Numerical Analysis and Monitoring Moderators: Mohammad Rashidi, University of Texas at El Paso; Reza A. Azarhijab P.H., University of Texas at El Paso; Habib Rasouli, University of Technology Sydneym

**Room 122B**

- Field Performance of Reinforced Soils for Improving Coastal Resilience Moderators: Brian Maggi, P.E., M.ASCE, A.M.ASCE, University of South Carolina; Inthuorn Sasanakul, Ph.D., University of Washington

**Room 123**


**Room 124**

- A robust approach for selecting LRFD characteristic values of uncertain soil parameters for design of drilled shaft in sand Moderators: Saeed Khooshehvarian Ph.D., P.E., M.ASCE

**Room 124B**

- A simple robust approach for selecting LRFD characteristic values of uncertain soil parameters for design of drilled shaft in sand Moderators: Saeed Khooshehvarian Ph.D., P.E., M.ASCE

**Room 121D**

- Monitoring Stream Bank Geometry at Headwaters in a Densely Developed Watershed Moderators: James D. Kugel, S.M.ASCE, Villanova University; Emily J. Carambassis, S.M.ASCE, Villanova University; Andrea L. Walker, Ph.D., P.E., M.ASCE, Villanova University; Stanley J. Kemp, Ph.D., University of Baltimore

**Room 125**

- Assessment of Lateral Pressure Sensors for Measuring Interface Pressures in Mechanically Stabilized Soils Moderators: Dr. Xiaohui Tan Ph.D., Hefei University of Technology; Dr. Khoshnevis Ph.D., A.M.ASCE, Clarkson University; Dr. Charng Hsein Juang Ph.D., S.M.ASCE, Reserve University

**Room 126**

- Assessment of Lateral Spreading Estimations through the Lens of Centrifuge Modeling Moderators: Doostmohammadi, North Carolina State University; Ashtiy Cabas Ph.D., North Carolina State University; Brina Montana Ph.D., P.E., North Carolina State University

**Room 127**

- The Effects of Stress Redistribution on the Propagation of Stress Waves beneath the Bottom of Drilled Shaft Excavations Moderators: Alinari Korjulaj, Temple University; Joseph Thomas Coe, Ph.D., Temple University

**Room 128**

- The Effects of Stress Redistribution on the Propagation of Stress Waves beneath the Bottom of Drilled Shaft Excavations Moderators: Alinari Korjulaj, Temple University; Joseph Thomas Coe, Ph.D., Temple University

**Room 129**

- Use of Tactile Pressure Sensors to Measure Lateral Pressures at the Face of Geosynthetic Reinforced Soil Moderators: Jennifer E. Nicka, Ph.D., P.E., M.ASCE, Case Western Reserve University; Xiong Yu Ph.D., P.E., M.ASCE, Case Western Reserve University; Yuan Guo Ph.D., Case Western Reserve University; Xudong Fan, Case Western Reserve University

**Room 130**

- Monitoring Stream Bank Geometry at Headwaters in a Densely Developed Watershed Moderators: James D. Kugel, S.M.ASCE, Villanova University; Emily J. Carambassis, S.M.ASCE, Villanova University; Andrea L. Walker, Ph.D., P.E., M.ASCE, Villanova University; Stanley J. Kemp, Ph.D., University of Baltimore

**Room 131**

- Monitoring Stream Bank Geometry at Headwaters in a Densely Developed Watershed Moderators: James D. Kugel, S.M.ASCE, Villanova University; Emily J. Carambassis, S.M.ASCE, Villanova University; Andrea L. Walker, Ph.D., P.E., M.ASCE, Villanova University; Stanley J. Kemp, Ph.D., University of Baltimore
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<tr>
<td>8:00 – 9:30 a.m.</td>
<td><strong>Geo-PIT: Powerful, Informative Talks on Geotechnical Topics</strong></td>
<td>Track B</td>
<td>Room 122A</td>
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<tr>
<td>9:30 – 10:00 a.m.</td>
<td><strong>Morning Networking Break</strong></td>
<td>Track C</td>
<td>Room 123</td>
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<tr>
<td>10:00 – 11:30 a.m.</td>
<td><strong>Panel - Room 12B: Changing the Paradigm for Large Landslides: Forecasting Time-to-Failure</strong></td>
<td>Track E</td>
<td>Room 124</td>
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**Wednesday, March 27, 2019**

**Track A | Room 122A**
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**Track B | Room 122**
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**Track C | Room 123**
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**Track D | Room 124**
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**Track E | Room 121B**
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**Track F | Room 20C**
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**Track G | Room 121A**
---|---
**Track H | Room 121C**
---|---
**Track I | Room 122B**
---|---
Wednesday, March 27, 2019

10:00 – 11:30 a.m.

Technical Sessions

DESI - Deep Foundations: Special Topics Moderators: Joseph Thomas Car, Jr., P.E., Matteo Montesi, P.E., M.ASCE

RA01 - Risk Assessment and Management Moderators: Kathy M. Dawood, Ph.D., P.E., M.ASCE; Kathol Seil, Ph.D., EIT, A.M.ASCE

RA04 - Education for Geotechnical Engineering Moderators: Andrea L. Welker, P.E., M.ASCE; Patricia M. Gallagher, Ph.D., P.E., Drexel University; Shobha K. Bhatia, Ph.D., M.ASCE, Mott MacDonald; Frank Perrone, P.E., M.ASCE, Mott MacDonald; Amanda Wachenfeld, Ph.D., P.E., M.ASCE, University of Illinois at Chicago; Brian H. Zelenko P.E., M.ASCE, WSP USA

Visualization of Torpedo Pile Penetration and Pullout in Transparent Synthetic Soil Representative of Soft Marine Clays

Assessment of Helical Anchor Capacity in Marine Clays for Aquaculture Applications

500 Walnut Street: High-Capacity Auger Pressure-Grouted Piles Used to Support 26-Story Multi-Family Tower Behind Independence Hall

11:30 a.m. – 1:00 p.m.

Lunch in Exhibit Hall

1:00 – 2:00 p.m.

Geohazards, Extreme Weather Events and Climate Conditions – the Development of FHWA Guidance

Ralph B. Peck Award Lecture

2:00 – 2:30 p.m.

Closing Ceremony