

**49<sup>th</sup> Southeastern Transportation Geotechnical Engineering Conference (STGEC)**  
**Louisville, Kentucky**  
**October 8 – 11, 2018**  
**Presentation Links**

**SESSION 1 – OPENING SESSION**

[Welcome and Overview of the Louisville-Southern Indiana Ohio River Bridges Project - Andy Barber, P.E.; State Highway Engineer, Kentucky Transportation Cabinet](#)

[KEYNOTE - Advancements and Disappointments in Geotechnical Engineering and Geo-Construction - A 45 Year Reflection and Future Opportunities - Jerry A. DiMaggio, P.E., D.GE; Applied Research Associates](#)

[\*\*VIDEO OF KEYNOTE PRESENTATION BY JERRY DIMAGGIO & INTRODUCTON BY HENRY MATHIS\*\*](#)

[Advanced Geotechnical Exploration Methods - Benjamin S. Rivers, P.E.; Federal Highway Administration](#)

**SESSION 2 – SUBSURFACE EXPLORATION/CASE HISTORIES**

[Introducing CPT-WESS: Whipstock-enabled soil sampling and its' use in conjunction with the static cone penetrometer - John M. Lynk, PE, MSc; Vatten Geotechnical Services, Inc.](#)

[Kentucky Lock Exploration - Clint Ervin & Dennis Mitchell; American Engineers, Inc.](#)

[Geotechnical Investigation Execution for the Durham-Orange Light Rail - Chris Jones, PE; HDR Engineering, Inc.](#)

[MemFix 4: I-240 Bridge Replacement \(A CM/GC Project\) Geotechnical Challenges - Ashraf Elsayed, Ph.D., P.E, D.GE; Geotechnology, Inc.](#)

**SESSION 3 - DEEP FOUNDATION DESIGN AND CONSTRUCTION**

[Deep Water Drilled Shafts for the Herrington Lake Bridge Replacement Project - Darrin Beckett, P.E.; Kentucky Transportation Cabinet](#)

[US 68 / KY 80 Lake Barkley Bridge: Drilled Shaft Construction Methods, Karst Challenges and Lessons Learned - Austin Hart, P.E.; Kentucky Transportation Cabinet](#)

[Optimization of Deep Foundations with FB-MultiPier - Mike Batten, PE; HDR Engineering, Inc.](#)

[Policy Changes in Drilled Shaft Design and Construction - Silas Nichols, P.E.; Federal Highway Administration](#)

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**SESSION 4 - SLOPES/EMBANKMENTS**

[Ultra-lightweight Foamed Glass Aggregate: An Innovative and Sustainable Lightweight Fill Option - Theresa Andrejack Loux, Ph.D., P.E.; AeroAggregates LLC](#)

[Yeager Airport, Dismantling of a 240 feet High Reinforced Slope and Building an 85 ft. Wall to Restore the Runway Safety Area - Allen Cadden, PE, D.GE; Schnabel Engineering LLC](#)

[Remediation of an Instable Slope with Retaining Piles - Steven Zhou, PE, PhD; Visual Slope, LLC](#)

[Seismic Considerations and Design Methodology for Low-Density Cellular Concrete \(LDCC\) Embankments and Backfill - Steven F. Bartlett, Ph.D., P.E.; University of Utah](#)

**SESSION 5 - EARTH RETENTION**

[Circular Secant Pile Access Shafts for the Ohio River Tunnel Project - Stanley L. Worst, P.E.; Schnabel Foundation Company](#)

[Risk-Based Protocol for Asset Management of Metallically Reinforced Mechanically Stabilized Earth Walls – Amr M. Morsy, PhD; Geocomp Corporation](#)

[Corrosion Monitoring of Self Drilling Hollow Bar Soil Nail Wall - Brad Armstrong, PE, McMahon & Mann Consulting Engineers, P.C.](#)

[Overall Stability Moving from Service to Strength Limit State: Why? - Nicholas E. Harman, MS, PE and Ani Carignan, PE, LEED AP; South Carolina Department of Transportation](#)

**SESSION 6 - PAVEMENTS/SUBGRADES**

[Full Depth Reclamation - Doug Smith; Great Lakes Cement Promotion Council](#)

[New Interstate Cracked Pavement - Case Study - Jesse G Rauser, PE; Louisiana Department of Transportation & Development](#)

[US Highway 65 Emergency Pavement Subgrade Improvement - Rex Klentzman, P.E.; URETEK USA](#)

[In-place Roadway Subgrade Improvement and Pavement Grade Restoration - Joe Harris; Hayward Baker, Inc.](#)

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**SESSION 7 - SLOPES/EMBANKMENTS**

[US 68 Bridge Abutment Settlement - Joe Hauber, PE; Geotechnology, Inc.](#)

[Treatment of End Bent or Abutment Backfills Using Geotextile Reinforcement and Elastic Inclusion - Daryl J. Greer, P.E.; Kentucky Transportation Cabinet](#)

[High Strength Geogrids for Basal Reinforcement, Case Studies - Marianna Ferrara; Maccaferri Inc.](#)

[Using Hybrid Ground Improvement Techniques in Soft Clays as a Cost Saving Alternative - Taylor Towle, PE; Menard USA](#)

**SESSION 8 - DEEP FOUNDATION TESTING**

[Effective Dispersion Analysis of Reflections: A Nondestructive Evaluation Method for Estimating Embedded Pile Length - Vivek Samu; NC State University](#)

[Pre-Bid Load Testing for the Mobile River Bridge and Bayway Public Private Partnership \(P3\) Project - Sam Sternberg III, P.E. and W. Robert Thompson III, P.E., D.GE; Dan Brown and Associates, PC](#)

[Finding Value in Deep Foundation Test Results - Jon Sinnreich, P.E.; Load Test Consulting Ltd.](#)

[Advanced Dynamic Testing Methods-Driven Concrete Piles-Comprehensive Pile Integrity Evaluation and Pile Independent Tip and Skin Capacities - Dr. Aneesh Goly, Ph. D., P.E. and Dr. Sastry Putcha, Ph. D., P.E.; Smart Structures](#)

**BANQUET**

[An Overview of the Bridges to Prosperity Program - John Dietrick, PE, SE; Michael Baker International](#)

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**SESSION 9 –**  
**LOUISVILLE-SOUTHERN INDIANA OHIO RIVER BRIDGES (LSIORB) PROJECT**

[Geotechnical Aspects of the Ohio River Bridges Project, Louisville, Kentucky - Mark A. Litkenhus, PE and Stephen H. Bickel, PE; Stantec Consulting Services, Inc.](#)

[Problems with Drilled Shafts at Pier 3R and Remediation - Scott D. Zang, P.E.; Michael Baker International](#)

[Geotechnical Exploration and Considerations for the Ohio River Bridges East End Crossing - Drumanard Tunnel - David Neil; Parsons](#)

*The topic of the 47<sup>th</sup> Ohio River Valley Soils Seminar (ORVSS) held in Louisville on November 16, 2016 was “Geotechnical Aspects of the Louisville Kentucky-Southern Indiana Ohio River Bridges Project.” The overview of that project presented by Kentucky State Highway Engineer Andy Barber on Tuesday morning October 9, 2018 and the three presentations in morning session on Thursday October 11, 2018 were originally presented at the 47<sup>th</sup> ORVSS. Below is a link to the proceedings for that conference which contain several papers and/or presentation slides.*

[47<sup>th</sup> Ohio River Valley Soils Seminar \(ORVSS\) Proceedings](#)