

CHRISTOPHER L. MEEHAN

Department of Civil & Environmental Engineering
University of Delaware
Newark, DE 19716

Tel: (302) 831-6074 Fax: (302) 831-3640
E-mail: cmeehan@udel.edu

EDUCATION

Doctor of Philosophy, Civil Engineering, January 2006

Virginia Tech, Blacksburg, VA – Specialization in Geotechnical Engineering

Dissertation: An Experimental Study of the Dynamic Behavior of Slickensided Surfaces
([URN:etd-01302006-101603](https://etd.ohiolink.edu/urn:etd-01302006-101603))

Advisor: J. Michael Duncan

Master of Science, Civil Engineering, August 2000

Virginia Tech, Blacksburg, VA – Specialization in Geotechnical Engineering

Bachelor of Science, Civil Engineering, May 1999

University of New Hampshire, Durham, NH

PROFESSIONAL CERTIFICATIONS & LICENSURE

Professional Engineer (P.E.) Registration, Delaware, No. 17857

ACADEMIC POSITIONS HELD

Bentley Systems Incorporated Chair of Civil Engineering, University of Delaware, Newark, DE, 9/12 – 8/17

Department of Civil and Environmental Engineering, Geotechnical Engineering Group

Fulbright Scholar & Visiting Professor, (on sabbatical leave from the University of Delaware).

Tampere University of Technology, Tampere, Finland, 2012-2013

2012-2013 Fulbright U.S. Scholar Grant, Fulbright-Tampere University of Technology Scholar Award

Associate Professor, University of Delaware, Newark, DE, 9/12 – Present

Department of Civil and Environmental Engineering, Geotechnical Engineering Group

Assistant Professor, University of Delaware, Newark, DE, 9/06 – 8/12

Department of Civil and Environmental Engineering, Geotechnical Engineering Group

Post-Doctoral Associate, Virginia Tech, Blacksburg, VA, 1/06 – 7/06

Department of Civil and Environmental Engineering, Geotechnical Engineering Group

Instructor and Graduate Researcher, Virginia Tech, Blacksburg, VA, 1/02 – 1/06
Department of Civil and Environmental Engineering, Geotechnical Engineering Group

Visiting Researcher, University of California, Davis, CA, 2/05 – 8/05
Research conducted at the Center for Geotechnical Modeling Centrifuge Facility

Via Fellow and Teaching Assistant, Virginia Tech, Blacksburg, VA, 8/99 – 1/01
Department of Civil and Environmental Engineering, Geotechnical Engineering Group

Student Researcher, University of New Hampshire, Durham, NH, 9/98 – 5/99

PROFESSIONAL POSITIONS HELD

Independent Consultant, Blacksburg, VA, 3/02 – 7/06, Working with Mike Duncan.

Staff Engineer, GeoSyntec Consultants, Inc., Walnut Creek, CA, 2/01 – 12/01

Field Engineer, GZA GeoEnvironmental, Inc., Manchester, NH, 5/99 – 8/99

Field Engineer, Haley & Aldrich, Inc., Manchester, NH, 5/98 – 8/98

HONORS & AWARDS

2018 Iraq Fulbright Program Recipient, Engineering Cohort

American Society of Civil Engineers (ASCE): Fellow, 6/28/17

2017 Iraq Fulbright Program Recipient, Engineering Cohort

2016 Iraq Fulbright Program Recipient, Engineering Cohort

ASTM Geotechnical Testing Journal: 2012 Award for Outstanding Article on the Practice of
Geotechnical Testing, 1/26/15

2014 Iraq Fulbright Program Recipient, Engineering Cohort

American Society of Civil Engineers (Delaware Section): 2012 Young Engineer of the Year,
11/27/12

University of Delaware: Bentley Systems Incorporated Chair of Civil Engineering

American Society of Civil Engineers: 2012 ASCE ExCEED New Faculty Excellence in
Teaching Award

2012-2013 Fulbright U.S. Scholar Grant: Fulbright-Tampere University of Technology Scholar
Award

Nominated for University of Delaware Excellence in Teaching Award, 6/7/11

ASCE MSE Wall Team 2010 National Champions – Faculty Advisor for Student Team

National Science Foundation CAREER Award, 2009

ExCEED 2008 Teaching Mentor, Fayetteville, AR

ExCEED 2007 Teaching Fellow, Flagstaff, AZ

Summa Cum Laude for Doctoral Degree, Virginia Tech, 2006

United States Society on Dams Scholarship, 2003

Summa Cum Laude for Master's Degree, Virginia Tech, 2000

Via Master's Fellowship Award Winner, 1999-2000

Chi Epsilon, Civil Engineering Honor Society, 1999 – present

Summa Cum Laude, University of New Hampshire, 1999
Tau Beta Pi Engineering Honor Society, 1998 – present
University of New Hampshire Honors Program, Civil Engineering, 1995-1999
Granite State Scholarship Winner - Governor's Success Grant, 1995-1999

PROFESSIONAL AFFILIATIONS

Fellow, American Society of Civil Engineers (ASCE), 2017 – present
Member, Delaware Environmental Institute (DENIN), 2017 – present
Director, Delaware Center for Transportation (DCT), 2016 – present
Board of Directors, United States Universities Council on Geotechnical Education and Research (USUCGER), 2010 – 2015
Member, Transportation Research Board Committee AFP30 – Soil and Rock Properties, 2009 – 2018
Member, American Society of Civil Engineers (ASCE) Geo-Institute Committee on Embankments, Dams, and Slopes, 2009 – present
Technical Affiliate, ADSC International Association of Foundation Drilling (IAFD), 2008 – present
Member, International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), 2007 – present
Affiliate Faculty Member, Delaware Center for Transportation (DCT), 2007 – present
Member, Geo-Engineering Earthquake Reconnaissance (GEER) Association, 2007 – present
Member, Delaware Valley Geo-Institute (DVGI), 2006 – present
Member, United States Universities Council on Geotechnical Education and Research (USUCGER), 2006 – present
Member, American Society for Engineering Education (ASEE), 2003 – present
Member, United States Society on Dams (USSD), 2003 – present
Member, American Society of Civil Engineers (ASCE), 1996 – present

RESEARCH & PUBLICATIONS

Books & Book Chapters:

1. D'Ignazio, M., Jostad, H. P., Länsivaara, T., Lehtonen, V., Mansikkamäki, J., and **Meehan, C. L.** (2017). "Effects of Sample Disturbance in the Determination of Soil Parameters for Advanced Finite Element Modelling of Sensitive Clays." *Landslides in Sensitive Clays: From Research to Implementation*, Chapter 13, Vol. 46 of the series Advances in Natural and Technological Hazards Research, edited by Thakur, V., L'Heureux, J.-S., and Locat, A., pp. 145-154, Springer International Publishing, Cham. (ISBN:978-3-319-56487-6, doi:10.1007/978-3-319-56487-6_13)

Edited Proceedings:

2. **Meehan, C. L.**, VanBriesen, J. M., Vahedifard, F., Yu, X., and Quiroga, C. (2014). "Shale Energy Engineering 2014: Technical Challenges, Environmental Issues, and Public Policy." *Proceedings of the ASCE Energy Division's 2014*

Shale Energy Engineering Conference, Pittsburgh, PA, July 21-23, 2014, ASCE, Reston, VA, 733 pp.
(Published on CD-ROM, ISBN:978-0-7844-1365-4, [doi:10.1061/9780784413654](https://doi.org/10.1061/9780784413654))

1. **Meehan, C. L.**, Pradel, D., Pando, M. A., and Labuz, J. F. (2013). “Geo-Congress 2013: Stability and Performance of Slopes and Embankments III.” *Proceedings of the ASCE Geo-Institute’s 2013 Geo-Congress*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 2280 pp.
(Published on CD-ROM, ISBN:978-0-7844-1278-7, [doi:10.1061/9780784412787](https://doi.org/10.1061/9780784412787))

Refereed Journal Publications: (* indicates published with student)

38. Tabarsa, A., Latifi, N., **Meehan, C. L.**, and Manahiloh, K. N. (2018). “Laboratory Investigation and Field Evaluation of Loess Improvement Using Nanoclay – A Sustainable Material for Construction.” *Construction and Building Materials*, Elsevier, 158, 454-463.
([doi:10.1016/j.conbuildmat.2017.09.096](https://doi.org/10.1016/j.conbuildmat.2017.09.096))
37. Rashid, A. S. A., Latifi, N., **Meehan, C. L.**, and Manahiloh, K. N. (2017). “Sustainable Improvement of Tropical Residual Soil Using an Environmentally Friendly Additive.” *Geotechnical and Geological Engineering*, Springer, 35(6), 2613-2623.
([doi:10.1007/s10706-017-0265-1](https://doi.org/10.1007/s10706-017-0265-1))
36. *Talebi, M., **Meehan, C. L.**, and Leshchinsky, D. (2017). “Applied Bearing Pressure Beneath a Reinforced Soil Foundation Used in a Geosynthetic Reinforced Soil Integrated Bridge System.” *Geotextiles and Geomembranes*, Elsevier, 45(6), 580-591.
([doi:10.1016/j.geotexmem.2017.07.008](https://doi.org/10.1016/j.geotexmem.2017.07.008))
35. Latifi, N., Eisazadeh, A., Marto, A., and **Meehan, C. L.** (2017). “Tropical Residual Soil Stabilization: A Powder Form Material for Increasing Soil Strength.” *Construction and Building Materials*, Elsevier, 147, 827-836.
([doi:10.1016/j.conbuildmat.2017.04.115](https://doi.org/10.1016/j.conbuildmat.2017.04.115))
34. ***Meehan, C. L.** and Talebi, M. (2017). “A Method for Correcting Field Strain Measurements to Account for Temperature Effects.” *Geotextiles and Geomembranes*, Elsevier, 45(4), 250-260.
([doi:10.1016/j.geotexmem.2017.02.005](https://doi.org/10.1016/j.geotexmem.2017.02.005))
33. Manahiloh, K. N. and **Meehan, C. L.** (2017). “Determining the Soil Water Characteristic Curve and Interfacial Contact Angle from Microstructural Analysis of X-Ray CT Images.” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 143(8), 04017034.1-04017034.11.
([doi:10.1061/\(ASCE\)GT.1943-5606.0001677](https://doi.org/10.1061/(ASCE)GT.1943-5606.0001677))
32. Latifi, N., Horpibulsuk, S., **Meehan, C. L.**, Abd Majid, M. Z., Tahir, M., and

- Mohamad, E. T. (2017). "Improvement of Problematic Soils with Biopolymer – An Environmentally Friendly Soil Stabilizer." *Journal of Materials in Civil Engineering*, ASCE, 29(2), 04016204.1-04016204.11.
([doi:10.1061/\(ASCE\)MT.1943-5533.0001706](https://doi.org/10.1061/(ASCE)MT.1943-5533.0001706))
31. ***Meehan, C. L.**, Cacciola, D. V., Tehrani, F. S., and Baker, W. J. (2017). "Assessing Soil Compaction Using Continuous Compaction Control and Location-Specific In Situ Tests." *Automation in Construction*, Elsevier, 73, 31-44.
([doi:10.1016/j.autcon.2016.08.017](https://doi.org/10.1016/j.autcon.2016.08.017))
30. Latifi, N., **Meehan, C. L.**, Abd Majid, M. Z., and Horpibulsuk, S. (2016). "Strengthening Montmorillonitic and Kaolinitic Clays Using a Calcium-Based Non-Traditional Additive: A Micro-Level Study." *Applied Clay Science*, Elsevier, 132-133, 182-193.
([doi:10.1016/j.clay.2016.06.004](https://doi.org/10.1016/j.clay.2016.06.004))
29. Latifi, N., Horpibulsuk, S., **Meehan, C. L.**, Abd Majid, M. Z., and Rashid, A. S. A. (2016). "Xanthan Gum Biopolymer: An Eco-Friendly Additive for Stabilization of Tropical Organic Peat." *Environmental Earth Sciences*, Springer, 75(9), 1-10.
([doi:10.1007/s12665-016-5643-0](https://doi.org/10.1007/s12665-016-5643-0))
28. Lehtonen, V. J., **Meehan, C. L.**, Lämsivaara, T. T., and Mansikkamäki, J. N. (2015). "Full-Scale Embankment Failure Test Under Simulated Train Loading." *Géotechnique*, The Institution of Civil Engineers, 65(12), 961-974.
([doi:10.1680/geot.14.P.100](https://doi.org/10.1680/geot.14.P.100))
27. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2015). "Column Supported Embankments with Geosynthetic Encased Columns: Validity of the Unit Cell Concept." *Geotechnical and Geological Engineering*, Springer, 33(3), 425-442.
([doi:10.1007/s10706-014-9826-8](https://doi.org/10.1007/s10706-014-9826-8))
26. *Khabbazian, M., **Meehan, C. L.**, and Kaliakin, V. N. (2014). "Column Supported Embankments with Geosynthetic Encased Columns: Parametric Study." *Transportation Infrastructure Geotechnology*, Springer, 1(3-4), 301-325.
([doi:10.1007/s40515-014-0010-7](https://doi.org/10.1007/s40515-014-0010-7))
25. ***Meehan, C. L.** and Benjasupattananan, S. (2014). "Analytical Approach for Modeling Axisymmetric Levee Underseepage." *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 140(4), 04013037.1-04013037.12.
([doi:10.1061/\(ASCE\)GT.1943-5606.0000952](https://doi.org/10.1061/(ASCE)GT.1943-5606.0000952))
24. Haeri, S. M., Garakani, A. A., Khosravi, A., and **Meehan, C. L.** (2014). "Assessing the Hydro-Mechanical Behavior of Collapsible Soils Using a Modified Triaxial Test Device." *Geotechnical Testing Journal*, ASTM, 37(2), 190-204.
([doi:10.1520/GTJ20130034](https://doi.org/10.1520/GTJ20130034))

23. ***Meehan, C. L.**, Khosravi, M., and Cacciola, D. V. (2013). “Monitoring Field Lift Thickness Using Compaction Equipment Instrumented with Global Positioning System (GPS) Technology.” *Geotechnical Testing Journal*, ASTM, 36(5), 755-767.
([doi:10.1520/GTJ20120124](https://doi.org/10.1520/GTJ20120124))
22. *Khosravi, A., Sadaghiani, M. H., Khosravi, M., and **Meehan, C. L.** (2013). “The Effect of Asperity Inclination and Orientation on the Shear Behavior of Rock Joints.” *Geotechnical Testing Journal*, ASTM, 36(3), 404-417.
([doi:10.1520/GTJ20120060](https://doi.org/10.1520/GTJ20120060))
21. *Vahedifard, F., Leshchinsky, D., and **Meehan, C. L.** (2013). “Displacement-Based Internal Design of Geosynthetic-Reinforced Earth Structures Subjected to Seismic Loading Conditions.” *Géotechnique*, The Institution of Civil Engineers, 63(6), 451-462.
([doi:10.1680/geot.11.P.130](https://doi.org/10.1680/geot.11.P.130))
20. ***Meehan, C. L.** and Hertz, J. S. (2013). “Using a Complex-Impedance Measuring Instrument to Determine In Situ Soil Unit Weight and Moisture Content.” *Geotechnical Testing Journal*, ASTM, 36(1), 119-137.
([doi:10.1520/GTJ20120005](https://doi.org/10.1520/GTJ20120005))
19. ***Meehan, C. L.** and Vahedifard, F. (2013). “Evaluation of Simplified Methods for Predicting Earthquake-Induced Slope Displacements in Earth Dams and Embankments.” *Engineering Geology*, Elsevier, 152(1), 180-193.
([doi:10.1016/j.enggeo.2012.10.016](https://doi.org/10.1016/j.enggeo.2012.10.016))
18. ***Meehan, C. L.** and Benjasupattananan, S. (2012). “An Analytical Approach for Levee Underseepage Analysis.” *Journal of Hydrology*, Elsevier, 470-471, 201-211.
([doi:10.1016/j.jhydrol.2012.08.050](https://doi.org/10.1016/j.jhydrol.2012.08.050))
17. *Vahedifard, F., Leshchinsky, D., and **Meehan, C. L.** (2012). “Relationship Between the Seismic Coefficient and the Unfactored Geosynthetic Force in Reinforced Earth Structures.” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 138(10), 1209-1221.
([doi:10.1061/\(ASCE\)GT.1943-5606.0000701](https://doi.org/10.1061/(ASCE)GT.1943-5606.0000701))
16. *Kaliakin, V. N., Khabbazian, M., and **Meehan, C. L.** (2012). “Modeling the Behavior of Geosynthetic Encased Columns: Influence of Granular Soil Constitutive Model.” *International Journal of Geomechanics*, ASCE, 12(4), 357-369.
([doi:10.1061/\(ASCE\)GM.1943-5622.0000084](https://doi.org/10.1061/(ASCE)GM.1943-5622.0000084))
15. *Leshchinsky, D., Vahedifard, F., and **Meehan, C. L.** (2012). “Application of a Hydraulic Gradient Technique for Modeling the Uplift Behavior of Piles in Sand.” *Geotechnical Testing Journal*, ASTM, 35(3), 400-408.

([doi:10.1520/GTJ103850](https://doi.org/10.1520/GTJ103850))

14. ***Meehan, C. L.**, Tehrani, F. S., and Vahedifard, F. (2012). “A Comparison of Density-Based and Modulus-Based In Situ Test Measurements for Compaction Control.” *Geotechnical Testing Journal*, ASTM, 35(3), 387-399.
([doi:10.1520/GTJ103479](https://doi.org/10.1520/GTJ103479))
13. **Meehan, C. L.**, Tiwari, B., Brandon, T. L., and Duncan, J. M. (2011). “Triaxial Shear Testing of Polished Slicksided Surfaces.” *Landslides*, Journal of the International Consortium on Landslides, Springer, 8(4), 449-458.
([doi:10.1007/s10346-011-0263-y](https://doi.org/10.1007/s10346-011-0263-y))
12. *Khabbazian, M., **Meehan, C. L.**, and Kaliakin, V. N. (2011). “Discussion of “Geosynthetic-Encased Stone Columns: Analytical Calculation Model” by Bostjan Pulko, Bojan Majes, and Janko Logar, *Geotextiles and Geomembranes* 29 (2011) 29-39.” *Geotextiles and Geomembranes*, Elsevier, 29(6), 581-583.
([doi:10.1016/j.geotexmem.2011.01.010](https://doi.org/10.1016/j.geotexmem.2011.01.010))
11. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2011). “Performance of Quasilinear Elastic Constitutive Models in Simulation of Geosynthetic Encased Columns.” *Computers and Geotechnics*, Elsevier, 38(8), 998-1007.
([doi:10.1016/j.compgeo.2011.07.007](https://doi.org/10.1016/j.compgeo.2011.07.007))
10. *Vahedifard, F. and **Meehan, C. L.** (2011). “A Multi-Parameter Correlation for Predicting the Seismic Displacement of an Earth Dam or Embankment.” *Geotechnical and Geological Engineering*, Springer, 29(6), 1023-1034.
([doi:10.1007/s10706-011-9434-9](https://doi.org/10.1007/s10706-011-9434-9))
9. ***Meehan, C. L.** and Tehrani, F. S. (2011). “A Comparison of Simultaneously Recorded Machine Drive Power and Compactometer Measurements.” *Geotechnical Testing Journal*, ASTM, 34(3), 208-218.
([doi:10.1520/GTJ103235](https://doi.org/10.1520/GTJ103235))
8. *Vahedifard, F., Nili, M., and **Meehan, C. L.** (2010). “Assessing the Effects of Supplementary Cementitious Materials on the Performance of Low-Cement Roller Compacted Concrete Pavement.” *Construction and Building Materials*, Elsevier, 24(12), 2528-2535.
([doi:10.1016/j.conbuildmat.2010.06.003](https://doi.org/10.1016/j.conbuildmat.2010.06.003))
7. *Leshchinsky, D., Imamoglu, B., and **Meehan, C. L.** (2010). “Exhumed Geogrid-Reinforced Retaining Wall.” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 136(10), 1311-1323.
([doi:10.1061/\(ASCE\)GT.1943-5606.0000354](https://doi.org/10.1061/(ASCE)GT.1943-5606.0000354))
6. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2010). “Numerical Study of the Effect of Geosynthetic Encasement on the Behaviour of Granular Columns.” *Geosynthetics International*, Thomas Telford, 17(3), 132-143.

[doi:10.1680/gein.2010.17.3.132](https://doi.org/10.1680/gein.2010.17.3.132))

5. **Meehan, C. L.**, Brandon, T. L., Duncan, J. M., and Tiwari, B. (2010). "Direct Shear Testing of Polished Slickensided Surfaces." *Landslides*, Journal of the International Consortium on Landslides, Springer, 7(2), 157-167.
([doi:10.1007/s10346-010-0199-7](https://doi.org/10.1007/s10346-010-0199-7))
4. *Leshchinsky, D., Zhu, F., and **Meehan, C. L.** (2010). "Required Unfactored Strength of Geosynthetic in Reinforced Earth Structures." *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 136(2), 281-289.
([doi:10.1061/\(ASCE\)GT.1943-5606.0000209](https://doi.org/10.1061/(ASCE)GT.1943-5606.0000209))
3. **Meehan, C. L.**, Boulanger, R. W., and Duncan, J. M. (2008). "Dynamic Centrifuge Testing of Slickensided Shear Surfaces." *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 134(8), 1086-1096.
([doi:10.1061/\(ASCE\)1090-0241\(2008\)134:8\(1086\)](https://doi.org/10.1061/(ASCE)1090-0241(2008)134:8(1086)))
2. **Meehan, C. L.**, Brandon, T. L., and Duncan, J. M. (2008). "Measuring "Fast" Shear Strengths Along Slickensided Surfaces in the Bromhead Ring Shear." *Geotechnical Testing Journal*, ASTM, 31(3), 239-242.
([doi:10.1520/GTJ101325](https://doi.org/10.1520/GTJ101325))
1. **Meehan, C. L.**, Brandon, T. L., and Duncan, J. M. (2007). "Measuring Drained Residual Strengths in the Bromhead Ring Shear." *Geotechnical Testing Journal*, ASTM, 30(6), 466-473.
([doi:10.1520/GTJ101017](https://doi.org/10.1520/GTJ101017))

Conference Proceedings: (* indicates published with student)

39. *Talebi, M., **Meehan, C. L.**, and Poggiogalle, T. M. (2018). "Strain in a GRS Bridge Abutment: Strain Gauge Attachment Techniques, Performance and Survivability During Construction and Operation." *International Foundations Congress and Equipment Expo '18 (IFCEE18)*, 2018 Geo-Congress, Orlando, FL, March 5-10, 2018. (Accepted, In Press)
38. *Poggiogalle, T. M., Talebi, M., and **Meehan, C. L.** (2018). "Changes in Temperature Distribution in a Geosynthetic Reinforced Soil Abutment and Their Effect on Measured Strain." *International Foundations Congress and Equipment Expo '18 (IFCEE18)*, 2018 Geo-Congress, Orlando, FL, March 5-10, 2018. (Accepted, In Press)
37. *Cacciola, D. V., **Meehan, C. L.**, Baker, W. J., and Tehrani, F. S. (2018). "A Comparison of Continuous Compaction Control Measurements with Localized In Situ Test Results." *International Foundations Congress and Equipment Expo '18 (IFCEE18)*, 2018 Geo-Congress, Orlando, FL, March 5-10, 2018. (Accepted, In Press)

36. *Baker, W. J. and **Meehan, C. L.** (2018). "A Comparison of In-Place Unit Weight and Moisture Content Measurements Made Using Nuclear Based Methods and the Drive Cylinder Method." *International Foundations Congress and Equipment Expo '18 (IFCEE18)*, 2018 Geo-Congress, Orlando, FL, March 5-10, 2018. (Accepted, In Press)
35. *Motalleb Nejad, M., Manahiloh, K. N., and **Meehan, C. L.** (2017). "Applying the Techniques of Microstructural Image Processing Toward Measuring Interface Angles in Unsaturated Geomaterials." *Proc., Geotechnical Frontiers 2017: Geotechnical Materials, Modeling, and Testing*, Geotechnical Special Publication No. 280, Orlando, FL, March 12-15, 2017, ASCE, Reston, VA, 659-668. ([doi:10.1061/9780784480472.070](https://doi.org/10.1061/9780784480472.070))
34. Latifi, N. and **Meehan, C. L.** (2017). "Strengthening of Montmorillonitic and Kaolinitic Clays with Calcium Carbide Residue: A Sustainable Additive for Soil Stabilization." *Proc., Geotechnical Frontiers 2017: Transportation Facilities, Structures, and Site Investigation*, Geotechnical Special Publication No. 277, Orlando, FL, March 12-15, 2017, ASCE, Reston, VA, 154-163. ([doi:10.1061/9780784480441.017](https://doi.org/10.1061/9780784480441.017))
33. *Baker, W. J. and **Meehan, C. L.** (2017). "Utilizing a Neighboring Weighted-Estimation Method for Anomaly Detection with a Continuous Compaction Control Data Set." *Proc., Geotechnical Frontiers 2017: Transportation Facilities, Structures, and Site Investigation*, Geotechnical Special Publication No. 277, Orlando, FL, March 12-15, 2017, ASCE, Reston, VA, 55-65. ([doi:10.1061/9780784480441.007](https://doi.org/10.1061/9780784480441.007))
32. Manahiloh, K. N. and **Meehan, C. L.** (2015). "Evolution of Interphase Contact Angle in Partially Saturated Granular Soils Using Digital Analysis of X-ray Computed Tomography Images." *Proc., International Foundations Congress and Equipment Expo 2015 (IFCEE15)*, Geotechnical Special Publication No. 256, San Antonio, TX, March 17-21, 2015, ASCE, Reston, VA, 2092-2101. ([doi:10.1061/9780784479087.193](https://doi.org/10.1061/9780784479087.193))
31. *Talebi, M. and **Meehan, C. L.** (2015). "Numerical Simulation of a Geosynthetic Reinforced Soil Integrated Bridge System During Construction and Operation Using Parametric Studies." *Proc., International Foundations Congress and Equipment Expo 2015 (IFCEE15)*, Geotechnical Special Publication No. 256, San Antonio, TX, March 17-21, 2015, ASCE, Reston, VA, 1493-1502. ([doi:10.1061/9780784479087.135](https://doi.org/10.1061/9780784479087.135))
30. Haeri, S. M., Khosravi, A., Ghaizadeh, S., Garakani, A. A., and **Meehan, C. L.** (2014). "Characterization of the Effect of Disturbance on the Hydro-Mechanical Behavior of a Highly Collapsible Loessial Soil." *Unsaturated Soils: Research and Applications - Proceedings of the 6th International Conference on Unsaturated Soils, UNSAT 2014*, Vol. 1, Sydney, Australia, July 2-4, 2014, ASCE, Sydney, Australia, 261-265.

29. *Talebi, M., **Meehan, C. L.**, Cacciola, D. V., and Becker, M. L. (2014). "Design and Construction of a Geosynthetic Reinforced Soil Integrated Bridge System." *Proc., Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, Geotechnical Special Publication No. 234, Atlanta, GA, February 23-26, 2014, ASCE, Reston, VA, 4176-4190.
([doi:10.1061/9780784413272.406](https://doi.org/10.1061/9780784413272.406))
28. *Becker, M. L., **Meehan, C. L.**, and Kaliakin, V. N. (2014). "Finite Element Modeling of Heat Transfer in a Reinforced Concrete Pavement." *Proc., Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, Geotechnical Special Publication No. 234, Atlanta, GA, February 23-26, 2014, ASCE, Reston, VA, 2942-2951.
([doi:10.1061/9780784413272.285](https://doi.org/10.1061/9780784413272.285))
27. *Cacciola, D. V., Khosravi, M., and **Meehan, C. L.** (2014). "Using Compaction Equipment Instrumented with Global Positioning System (GPS) Technology to Monitor Field Lift Thickness." *Proc., Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, Geotechnical Special Publication No. 234, Atlanta, GA, February 23-26, 2014, ASCE, Reston, VA, 2630-2639.
([doi:10.1061/9780784413272.254](https://doi.org/10.1061/9780784413272.254))
26. *Tehrani, F. S., **Meehan, C. L.**, and Vahedifard, F. (2014). "A Comparison of Density-Based and Modulus-Based In Situ Tests for Earthwork Quality Control." *Proc., Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, Geotechnical Special Publication No. 234, Atlanta, GA, February 23-26, 2014, ASCE, Reston, VA, 2345-2354.
([doi:10.1061/9780784413272.228](https://doi.org/10.1061/9780784413272.228))
25. *Khosravi, A., Khosravi, M., Sadaghiani, M. H., **Meehan, C. L.**, and Amini, E. (2014). "Assessing the Shear Behavior of Oriented Rock Joints under Constant Normal Loading Conditions." *Proc., Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, Geotechnical Special Publication No. 234, Atlanta, GA, February 23-26, 2014, ASCE, Reston, VA, 553-562.
([doi:10.1061/9780784413272.053](https://doi.org/10.1061/9780784413272.053))
24. *Khosravi, M., Leshchinsky, D., **Meehan, C. L.**, and Khosravi, A. (2013). "Stability Analysis of Seismically Loaded Slopes Using Finite Element Techniques." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 1310-1319.
([doi:10.1061/9780784412787.132](https://doi.org/10.1061/9780784412787.132))
23. *Vahedifard, F., Leshchinsky, D., and **Meehan, C. L.** (2013). "Application of a New Analytical-Numerical Framework for Displacement-Based Seismic Design of Geosynthetic-Reinforced Earth Structures." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special

Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 1158-1167.

([doi:10.1061/9780784412787.117](https://doi.org/10.1061/9780784412787.117))

22. *Benjasupattananan, S. and **Meehan, C. L.** (2013). "Probability-Based Design for Levee Underseepage: Heaving vs. Piping Phenomena." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 1139-1142.
([doi:10.1061/9780784412787.115](https://doi.org/10.1061/9780784412787.115))
21. *Benjasupattananan, S. and **Meehan, C. L.** (2013). "Analytical Solutions for Levee Underseepage Analysis: Straight and Curved Levee Sections with an Infinite Blanket." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 1129-1138.
([doi:10.1061/9780784412787.114](https://doi.org/10.1061/9780784412787.114))
20. *Talebi, M., Vahedifard, F., and **Meehan, C. L.** (2013). "Effect of Geomechanical and Geometrical Factors on Soil Arching in Zoned Embankment Dams." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 1056-1065.
([doi:10.1061/9780784412787.107](https://doi.org/10.1061/9780784412787.107))
19. *Cacciola, D. V., **Meehan, C. L.**, and Khosravi, M. (2013). "An Evaluation of Specification Methodologies for Use with Continuous Compaction Control Equipment." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 413-416.
([doi:10.1061/9780784412787.041](https://doi.org/10.1061/9780784412787.041))
18. *Hertz, J. S. and **Meehan, C. L.** (2013). "Comparisons of Data from a Complex-Impedance Measuring Instrument and Conventional Compaction Control Tests." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 353-362.
([doi:10.1061/9780784412787.035](https://doi.org/10.1061/9780784412787.035))
17. *Khosravi, M., **Meehan, C. L.**, Cacciola, D. V., and Khosravi, A. (2013). "Effect of Fast Shearing on the Residual Shear Strengths Measured Along Pre-Existing Shear Surfaces in Kaolinite." *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 245-254.
([doi:10.1061/9780784412787.025](https://doi.org/10.1061/9780784412787.025))
16. *Khosravi, A., Khosravi, M., and **Meehan, C. L.** (2013). "The Hydro-Mechanical

Behavior of Infilled Rock Joints with Fill Materials in Unsaturated Conditions.” *Proc., Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, Geotechnical Special Publication No. 231, San Diego, CA, March 3-7, 2013, ASCE, Reston, VA, 129-138.
([doi:10.1061/9780784412787.014](https://doi.org/10.1061/9780784412787.014))

15. *Benjasupattananan, S. and **Meehan, C. L.** (2012). “Deterministic and Probabilistic Approaches for Two- and Three-Dimensional Levee Underseepage Analyses.” *Proc., Dam Safety 2012: Annual Conference of the Association of State Dam Safety Officials*, Denver, CO, September 16-21, 2012, ASDSO, Lexington, KY, Published on CD-ROM. (*ASDSO 2012 Award Winner: Student Paper Competition*)
14. *Benjasupattananan, S. and **Meehan, C. L.** (2012). “An Investigation of Three Probabilistic Approaches for Levee Underseepage Analysis.” *Proc., GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, Geotechnical Special Publication No. 225, Oakland, CA, March 25-29, 2012, ASCE, Reston, VA, 2912-2921.
([doi:10.1061/9780784412121.298](https://doi.org/10.1061/9780784412121.298))
13. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2012). “Numerical Simulation of Column Supported Embankments with Geosynthetic Encased Columns: Influence of Soft Soil Constitutive Model.” *Proc., GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, Geotechnical Special Publication No. 225, Oakland, CA, March 25-29, 2012, ASCE, Reston, VA, 1-10.
([doi:10.1061/9780784412121.001](https://doi.org/10.1061/9780784412121.001))
12. *Vahedifard, F. and **Meehan, C. L.** (2011). “Error Analysis of Predicted Seismic Displacement of Earth Dams Using Simplified Sliding Block Methods.” *Proc., Geo-Frontiers 2011: Advances in Geotechnical Engineering*, Geotechnical Special Publication No. 211, Dallas, TX, March 13-16, 2011, ASCE, Reston, VA, 3245-3254.
([doi:10.1061/41165\(397\)332](https://doi.org/10.1061/41165(397)332))
11. *Chen, Y. and **Meehan, C. L.** (2011). “Undrained Strength Characteristics of Compacted Bentonite/Sand Mixtures.” *Proc., Geo-Frontiers 2011: Advances in Geotechnical Engineering*, Geotechnical Special Publication No. 211, Dallas, TX, March 13-16, 2011, ASCE, Reston, VA, 2699-2708.
([doi:10.1061/41165\(397\)276](https://doi.org/10.1061/41165(397)276))
10. *Khabbazian, M., **Meehan, C. L.**, and Kaliakin, V. N. (2011). “Influence of Granular Soil Constitutive Model when Simulating the Behavior of Geosynthetic Encased Columns.” *Proc., Geo-Frontiers 2011: Advances in Geotechnical Engineering*, Geotechnical Special Publication No. 211, Dallas, TX, March 13-16, 2011, ASCE, Reston, VA, 539-548.
([doi:10.1061/41165\(397\)56](https://doi.org/10.1061/41165(397)56))

9. *Vahedifard, F., **Meehan, C. L.**, and O’Neal, M. A. (2011). “Earthquake-Triggered Landslide Hazard Mapping: The Effects of Spatial Resolution and Displacement Model Selection.” *Proc., 2011 Earthquake Engineering Research Institute (EERI) Annual Meeting*, La Jolla, CA, February 9-12, 2011, 169-170.
8. *Han, B., Imhoff, P. T., Scicchitano, V., O’Neal, M. A., Puleo, J. A., **Meehan, C. L.**, Dentel, S. K., and Fluman, D. A. (2010). “Airborne Measurements for Quantifying Methane Emissions from Landfills.” *2010 Global Waste Management Symposium Proceedings*, San Antonio, TX, October 3-6, 2010.
7. *Kaliakin, V. N., Jiang, P., Khabbazian, M., and **Meehan, C. L.** (2010). “Performance of Enhanced Mixed Elements with Continuous Pressure Approximations as Applied to Porous Geologic Materials.” *16th US National Congress of Theoretical and Applied Mechanics*, State College, PA, June 27-July 2, 2010, Published on CD-ROM.
6. *Vahedifard, F. and **Meehan, C. L.** (2010). “Examination of Simplified Displacement-Based Methods for Dynamic Analyses of Slopes.” *Proc., GeoFlorida 2010: Advances in Analysis, Modeling & Design*, Geotechnical Special Publication No. 199, West Palm Beach, FL, February 20-24, 2010, ASCE, Reston, VA, 3175-3184.
([doi:10.1061/41095\(365\)324](https://doi.org/10.1061/41095(365)324))
5. *Tehrani, F. S. and **Meehan, C. L.** (2010). “The Effect of Water Content on Light Weight Deflectometer Measurements.” *Proc., GeoFlorida 2010: Advances in Analysis, Modeling & Design*, Geotechnical Special Publication No. 199, West Palm Beach, FL, February 20-24, 2010, ASCE, Reston, VA, 930-939.
([doi:10.1061/41095\(365\)92](https://doi.org/10.1061/41095(365)92))
4. *Khabbazian, M., **Meehan, C. L.**, and Kaliakin, V. N. (2010). “Numerical Study of Effect of Encasement on Stone Column Performance.” *Proc., GeoFlorida 2010: Advances in Analysis, Modeling & Design*, Geotechnical Special Publication No. 199, West Palm Beach, FL, February 20-24, 2010, ASCE, Reston, VA, 184-193.
([doi:10.1061/41095\(365\)15](https://doi.org/10.1061/41095(365)15))
3. *Tehrani, F. S. and **Meehan, C. L.** (2009). “Continuous Compaction Control: Preliminary Data from a Delaware Case Study.” *Proc., Eighth International Conference on the Bearing Capacity of Roads, Railways and Airfields (BCR2A’09)*, Champaign, IL, June 29-July 2, 2009, Taylor & Francis Group, London, UK, 745-754.
([doi:10.1201/9780203865286.ch80](https://doi.org/10.1201/9780203865286.ch80))
2. *Walsh, N. A., **Meehan, C. L.**, and Leshchinsky, D. (2009). “Lessons Learned: Field Installation of Strain Gages on High-Strength Geotextile.” *Proc., International Foundations Congress and Equipment Expo '09 (IFCEE09)*, Contemporary Topics in Ground Modification, Problem Soils, and Geo-Support, Geotechnical Special Publication No. 187, Orlando, FL, March 15-19, 2009,

ASCE, Reston, VA, 369-376.
([doi:10.1061/41023\(337\)47](https://doi.org/10.1061/41023(337)47))

1. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2009). “3D Numerical Analyses of Geosynthetic Encased Stone Columns.” *Proc., International Foundations Congress and Equipment Expo '09 (IFCEE09)*, Contemporary Topics in Ground Modification, Problem Soils, and Geo-Support, Geotechnical Special Publication No. 187, Orlando, FL, March 15-19, 2009, ASCE, Reston, VA, 201-208.
([doi:10.1061/41023\(337\)26](https://doi.org/10.1061/41023(337)26))

Technical Reports: (* indicates published with student)

17. ***Meehan, C. L.**, Talebi, M., and Poggiogalle, T. M. “Analysis of the Field Behavior of a Geosynthetic Reinforced Soil Integrated Bridge System During Construction and Operation.” *Report of the Delaware Center for Transportation*, No. DCT 262, University of Delaware, Newark, DE, December 2016, 507 pp. ([Link to Report](#))
16. ***Meehan, C. L.** and Cacciola, D. V. (2013). “Using Continuous Compaction Control Systems within an Earthwork Compaction Specification Framework.” *Report of the Delaware Center for Transportation*, No. DCT 236, University of Delaware, Newark, DE, October 2013, 313 pp. ([Link to Report](#))
15. Kaliakin, V. N., **Meehan, C. L.**, Attoh-Okine, B., and Imhoff, P. T. (2012). “Long-Term Performance Monitoring of a Recycled Tire Embankment in Wilmington, Delaware.” *Report of the Delaware Center for Transportation*, No. DCT 232, University of Delaware, Newark, DE, December 2012, 40 pp. ([Link to Report](#))
14. ***Meehan, C. L.** and Hertz, J. S. (2011). “Using Electrical Density Gauges for Field Compaction Control.” *Report of the Delaware Center for Transportation*, No. DCT 220, University of Delaware, Newark, DE, December 2011, 149 pp. ([Link to Report](#))
13. McKenna, T. E., Puleo, J. A., and **Meehan, C. L.** (2011). “Temporal Imaging of the Intertidal Zone – Field Application.” *Final Report, Delaware NASA/EPSCoR RID Seed Grant Program*, University of Delaware, Newark, DE, December 2011, 17 pp.
12. Imhoff, P. T., Puleo, J. A., **Meehan, C. L.**, O’Neal, M. A., and Dentel, S. K. (2010). “Quantifying Reductions in Greenhouse Gas Emissions with Airship-Based Measurements.” *Report of the Department of Civil & Environmental Engineering*, University of Delaware, Newark, DE, September 2010, 9 pp.
11. ***Meehan, C. L.** and Benjasupattananan, S. (2010). “Designing Safer Levee Systems.” *Report of the Department of Civil & Environmental Engineering*,

University of Delaware, Newark, DE, August 2010, 40 pp.

10. **Meehan, C. L.** (2010). “Establishment of a Geotechnical Information Database.” *Report of the Delaware Center for Transportation*, No. DCT 207, University of Delaware, Newark, DE, August 2010, 147 pp. ([Link to Report](#))
9. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2010). “Geosynthetic Reinforced Stone Columns & Column Supported Embankments: A Numerical Parametric Study” *Report of the Department of Civil & Environmental Engineering*, University of Delaware, Newark, DE, June 2010, 8 pp.
8. ***Meehan, C. L.** and Tehrani, F. S. (2009). “An Investigation of Continuous Compaction Control Systems.” *Report of the Delaware Center for Transportation*, No. DCT 204, University of Delaware, Newark, DE, July 2009, 433 pp. ([Link to Report](#))
7. *Leshchinsky, D., **Meehan, C. L.**, and Imamoglu, B. (2009). “Case History: Strain and Force Distribution in HDPE Reinforced Wall.” *Report of the Delaware Center for Transportation*, No. DCT 203, University of Delaware, Newark, DE, July 2009, 149 pp. ([Link to Report](#))
6. *Walsh, N. A., Leshchinsky, D., and **Meehan, C. L.** (2009). “High Strength Geotextile: Strain Monitoring at Cherry Island Landfill.” *Report of the Department of Civil & Environmental Engineering*, University of Delaware, Newark, DE, June 2009, 412 pp.
5. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2008). “Geosynthetic Supported Base Reinforcement over Deep Foundations: A Numerical Parametric Study of Geosynthetic-Encased Stone Columns.” *Report of the Department of Civil & Environmental Engineering*, University of Delaware, Newark, DE, October 2008, 32 pp.
4. *Leshchinsky, D., Berkheimer, S. A., and **Meehan, C. L.** (2007). “Instrumented Geogrid Reinforced Mechanically Stabilized Earth Wall Undergoing Large Settlement.” *Report of the Center for Innovative Bridge Engineering*, University of Delaware, Newark, DE, May 2007, 144 pp. ([Link to Report](#))
3. **Meehan, C. L.**, Duncan, J. M., Brandon, T. L., and Boulanger, R. W. (2006). “An Experimental Study of the Dynamic Behavior of Slicksided Surfaces.” *Report of the Center for Geotechnical Practice and Research*, Virginia Tech, Blacksburg, VA, April 2006, 292 pp. ([Link to Report Download Site](#))
2. **Meehan, C. L.**, Duncan, J. M., and Boulanger, R. W. (2005). “Collaborative Research: Dynamic Behavior of Slicksided Surfaces – Centrifuge Data Report for CLM02.” *Report UCD/CGMDR-05/04*, *Center for Geotechnical Modeling*, University of California, Davis, CA, 93 pp. ([Link to Report](#))

1. **Meehan, C. L.**, Duncan, J. M., and Boulanger, R. W. (2005). “Collaborative Research: Dynamic Behavior of Slickensided Surfaces – Centrifuge Data Report for CLM01.” *Report UCD/CGMDR-05/03, Center for Geotechnical Modeling*, University of California, Davis, CA, 134 pp. ([Link to Report](#))

Magazine Articles:

2. *Talebi, M., **Meehan, C. L.**, Cacciola, D. V., and Becker, M. L. (2014). “Rapid Replacement.” *Civil Engineering*, ASCE, April 2014, 64-69 and 81.
1. **Meehan, C. L.** (2003). “A New Approach for Seismic Analyses of Dams on Clays: Cyclic Shear Strength of Slickensided Slip Surfaces.” *United States Society on Dams Newsletter*, July 2003, 4-5.

Invited Lectures: (* indicates with student)

41. Mashayekhi, M., Adams, M. T., Nicks, J. E., Kaliakin, V. N., and **Meehan, C. L.** (2017). “Numerical Modeling of Performance Test in Geosynthetic Reinforced Structures: Building Blocks for the Next Generation of GRS Design.” *Turner-Fairbank Highway Research Center, Federal Highway Administration*, McLean, VA, 8/22/17.
40. *Mashayekhi, M., Kaliakin, V. N., **Meehan, C. L.**, Nicks, J. E., and Adams, M. T. (2017). “Numerical Modeling of Performance Tests for Geosynthetic Reinforced Structures.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 3/23/17.
39. Clarke-Sather, A. R. and **Meehan, C. L.** (2017). “Sustainable Geotextiles for Transportation Applications from Recycled Textiles.” *Center for Advanced Infrastructure and Transportation (CAIT) Seminar*, Newark, DE, 2/28/17.
38. **Meehan, C. L.** (2017). “Keynote: Construction and Performance Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System.” *Delaware Valley Geo-Institute Meeting*, King of Prussia, PA, 2/21/17.
37. *Mashayekhi, M., Kaliakin, V. N., **Meehan, C. L.**, Adams, M. T., and Nicks, J. E. (2017). “Implications of Numerical Modeling of Geosynthetic Reinforced Soil Structures.” *AFS20, Geotechnical Instrumentation and Modeling Committee Meeting*, Transportation Research Board 96th Annual Meeting, Washington, D.C., 1/11/17.
36. **Meehan, C. L.** (2016). “Field Behavior of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS).” *Temple University*, Philadelphia, PA, 12/9/16.
35. **Meehan, C. L.** (2016). “Soils and Their Role in Infrastructure.” *Soils: The Foundation of Life*, National Academy of Sciences, Washington, D.C., 12/5/16.

34. ***Meehan, C. L.** and Poggiogalle, T. M. (2016). “Performance of Geosynthetic Reinforced Soil Integrated Bridge System (GRS IBS).” *Center for Advanced Infrastructure and Transportation (CAIT) Seminar*, Newark, DE, 11/30/16.
33. Nicks, J., **Meehan, C. L.**, Dasenbrock, D., Connors, P., and Alzamora, D. (2016). “Performance of Geosynthetic Reinforced Soil Integrated Bridge System (GRS IBS).” *TRB Webinar Co-Sponsored by Geosynthetic Committee (AFS70) and Transportation Earthworks Committee (AFS10)*, 10/24/16.
32. **Meehan, C. L.** (2015). “Geotechnical Engineering at the University of Delaware.” *Department of Geological Sciences, University of Delaware*, Newark, DE, 5/14/15.
31. ***Meehan, C. L.**, Talebi, M., Baker, W. J., Boyce, T. J., and Pereira, H. T. S. (2015). “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS).” *Delaware Department of Transportation*, Dover, DE, 3/27/15.
30. **Meehan, C. L.** (2014). “Monitoring an Undrained Stability Failure in a Soft Clay Foundation: A Case History.” *University of Delaware*, Newark, DE, 6/5/14.
29. *Talebi, M., **Meehan, C. L.**, Cacciola, D. V., and Becker, M. L. (2014). “Design and Construction of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS): BR. 1-366 in Delaware.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/18/14.
28. *Cacciola, D. V. and **Meehan, C. L.** (2013). “Quality Assurance Procedures for Use with Continuous Compaction Control Equipment.” *Delaware Department of Transportation*, Dover, DE, 5/21/13.
27. **Meehan, C. L.** (2013). “Designing Safer Flood Protection Systems.” *University of Tampere*, Tampere, Finland, 3/14/13.
26. *Cacciola, D. V. and **Meehan, C. L.** (2013). “A Quality Assurance Procedure for Use with Continuous Compaction Control Equipment.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/19/13.
25. **Meehan, C. L.** (2012). “Freedom of Knowledge in the Digital Age: One American’s Perspective.” *University of Turku*, Turku, Finland, 10/12/12.
24. **Meehan, C. L.** (2012). “What Do Academic Departments Look for in an Applicant? The Student-Mentor Relationship.” *Fulbright Center*, Helsinki, Finland, 9/24/12, (panel presentation).
23. **Meehan, C. L.** (2012). “An Overview of Recent Geotechnical Engineering Research at the University of Delaware.” *Tampere University of Technology*,

Tampere, Finland, 8/24/12.

22. *Benjasupattananan, S. and **Meehan, C. L.** (2012). "Levee Underseepage: Three Dimensional Configuration Effects." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/22/12.
21. **Meehan, C. L.** (2011). "An Introduction to Continuous Compaction Control Systems." *DuPont, Inc.: Facilities, Construction, and Services Division*, Newark, DE, 5/12/11, (e-presentation).
20. *Vahedifard, F. and **Meehan, C. L.** (2011). "Regional Hazard Assessment of Earthquake-Triggered Landslides using GIS." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/22/11.
19. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2010). "Geosynthetic-Reinforced Pile-Supported Embankments with Emphasis on Geosynthetic Encased Columns." *Huesker, Inc.*, Charlotte, NC, 9/28/10.
18. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2010). "Geosynthetic-Reinforced Pile-Supported Embankments with Emphasis on Geosynthetic Encased Columns." *GeoPier Foundation Company*, Charlotte, NC, 9/27/10.
17. **Meehan, C. L.** (2010). "An Introduction to the Geosynthetic Reinforced Soil Integrated Bridge System." *Delaware Department of Transportation*, Dover, DE, 8/19/10.
16. **Meehan, C. L.** (2010). "An Introduction to Continuous Compaction Control Systems." *Schnabel Engineering*, Gaithersburg, MD, 4/16/10.
15. **Meehan, C. L.** (2010). "A Comparison of In Situ Testing Methods for Control of Soil Compaction." *Schnabel Engineering*, Gaithersburg, MD, 4/16/10.
14. **Meehan, C. L.** (2010). "Emerging Technologies of Interest in Geotechnical Engineering." *Schnabel Engineering*, Gaithersburg, MD, 4/15/10.
13. **Meehan, C. L.** (2010). "Electrical Density Gauge Data Analysis: Data from a Delaware Case Study." *U.S. Army Engineer Research and Development Center*, Vicksburg, MS, 3/31/10.
12. **Meehan, C. L.** (2010). "A Comparison of In Situ Testing Methods for Control of Soil Compaction." *U.S. Army Engineer Research and Development Center*, Vicksburg, MS, 3/31/10.
11. **Meehan, C. L.** (2010). "An Introduction to Continuous Compaction Control Systems." *Delaware Department of Transportation Winter Workshop*, Dover, DE, 2/18/10.

10. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2010). “Numerical Study of Effect of Geosynthetic Encasement on the Behavior of Granular Columns.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/15/10.
9. **Meehan, C. L.** (2010). “Keynote: Civil Engineering Education: Challenges & Opportunities for the Future.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/15/10.
8. **Meehan, C. L.** (2010). “The Seismic Behavior of Slickensided Surfaces.” *University of Colorado at Boulder*, Boulder, CO, 2/11/10.
7. **Meehan, C. L.** (2009). “An Investigation of Continuous Compaction Control Systems.” *Duffield Associates, Inc.*, Wilmington, DE, 12/16/09.
6. **Meehan, C. L.** (2009). “An Investigation of Continuous Compaction Control Systems.” *Delaware Department of Transportation*, Dover, DE, 7/29/09.
5. **Meehan, C. L.** (2009). “Electrical Density Gauge Data Analysis: Data from a Delaware Case Study.” *Duffield Associates, Inc.*, Wilmington, DE, 5/13/09.
4. *Tehrani, F. S. and **Meehan, C. L.** (2009). “Continuous Compaction Control Systems – A Delaware Case Study.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/17/09.
3. *Walsh, N. A., Leshchinsky, D., and **Meehan, C. L.** (2008). “Cherry Island Landfill Expansion.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/19/08.
2. **Meehan, C. L.** (2006). “Slope Stability and the Dynamic Behavior of Slickensided Slip Surfaces.” *Iowa State University*, Ames, IA, 3/20/06.
1. **Meehan, C. L.** (2006). “An Experimental Study of the Dynamic Behavior of Slickensided Slip Surfaces.” *University of Delaware*, Newark, DE, 2/13/06.

Research Conference Presentations: (* indicates with student)

113. D’Ignazio, M., Jostad, H. P., Länsivaara, T., Lehtonen, V., Mansikkamäki, J., and **Meehan, C. L.** (2017). “Effects of Sample Disturbance in the Determination of Soil Parameters for Advanced Finite Element Modelling of Sensitive Clays.” *Second International Workshop on Landslides in Sensitive Clays (2017 IWLSC)*, Norwegian University of Science and Technology, Trondheim, Norway, 6/12/17.
112. *Aldawwas, A. and **Meehan, C. L.** (2017). “An Approach for Field Assessment of Pile Downdrag.” *Delaware Center for Transportation 2017 Research Showcase*, Dover, DE, 5/3/17, (poster presentation).

111. *Baker, W. J. and **Meehan, C. L.** (2017). “Preliminary Continuous Compaction Control Data During US 301 Construction.” *Delaware Center for Transportation 2017 Research Showcase*, Dover, DE, 5/3/17, (poster presentation).
110. *Poggiogalle, T. M., Talebi, M., and **Meehan, C. L.** (2017). “Performance of a Geosynthetic Reinforced Soil Integrated Bridge System.” *Delaware Center for Transportation 2017 Research Showcase*, Dover, DE, 5/3/17, (poster presentation).
109. *Baker, W. J. and **Meehan, C. L.** (2017). “Preliminary Continuous Compaction Control Data During US 301 Construction.” *External Advisory Council Reception*, University of Delaware, Newark, DE, 5/2/17, (poster presentation).
108. *Poggiogalle, T. M., Talebi, M., and **Meehan, C. L.** (2017). “Performance of a Geosynthetic Reinforced Soil Integrated Bridge System.” *External Advisory Council Reception*, University of Delaware, Newark, DE, 5/2/17, (poster presentation).
107. *Sagnak, M. and **Meehan, C. L.** (2017). “Strength Behavior and Microstructural Characterization of Kaolinite and Bentonite Clays Treated with a Sodium Silicate-Based Liquid Stabilizer and Recycled Gypsum.” *Seventh Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/13/17, (poster presentation).
106. *Aldawwas, A. and **Meehan, C. L.** (2017). “An Approach for Field Assessment of Pile Downdrag.” *Seventh Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/13/17, (poster presentation).
105. *Poggiogalle, T. M., Talebi, M., and **Meehan, C. L.** (2017). “Performance of a Geosynthetic Reinforced Soil Integrated Bridge System.” *Seventh Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/13/17, (poster presentation).
104. *Baker, W. J. and **Meehan, C. L.** (2017). “Anomaly Detection Using a Neighboring-Weighed Approach for Continuous Compaction Control Data.” *Seventh Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/13/17, (poster presentation).
103. *Sagnak, M. and **Meehan, C. L.** (2017). “Strength Behavior and Microstructural Characterization of Kaolinite and Bentonite Clays Treated with a Sodium Silicate-Based Liquid Stabilizer and Recycled Gypsum.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 3/23/17, (poster presentation).
102. *Aldawwas, A. and **Meehan, C. L.** (2017). “An Approach for Field Assessment of Pile Downdrag.” *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 3/23/17, (poster presentation).

101. *Poggiogalle, T. M., Talebi, M., and **Meehan, C. L.** (2017). "Performance of a Geosynthetic Reinforced Soil Integrated Bridge System." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 3/23/17, (poster presentation).
100. *Baker, W. J. and **Meehan, C. L.** (2017). "Anomaly Detection Using a Neighboring-Weighed Approach for Continuous Compaction Control Data." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 3/23/17, (poster presentation).
99. *Motalleb Nejad, M., Manahiloh, K. N., and **Meehan, C. L.** (2017). "Applying the Techniques of Microstructural Image Processing Toward Measuring Interface Angles in Unsaturated Geomaterials." *Geotechnical Frontiers 2017: Innovation and Collaboration in Technology and Practice*, ASCE Geo-Institute 2017 GeoCongress, Orlando, FL, 3/15/17.
98. *Baker, W. J. and **Meehan, C. L.** (2017). "Utilizing a Neighboring Weighted-Estimation Method for Anomaly Detection with a Continuous Compaction Control Data Set." *Geotechnical Frontiers 2017: Innovation and Collaboration in Technology and Practice*, ASCE Geo-Institute 2017 GeoCongress, Orlando, FL, 3/14/17.
97. Latifi, N. and **Meehan, C. L.** (2017). "Strengthening of Montmorillonitic and Kaolinitic Clays with Calcium Carbide Residue: A Sustainable Additive for Soil Stabilization." *Geotechnical Frontiers 2017: Innovation and Collaboration in Technology and Practice*, ASCE Geo-Institute 2017 GeoCongress, Orlando, FL, 3/13/17.
96. *Baker, W. J. and **Meehan, C. L.** (2016). "Utilizing a Neighboring Weighted-Estimation Method for Outlier Detection with a Continuous Compaction Control Data Set." *MATS UTC 2016 Annual Meeting*, Charlottesville, VA, 8/4/16, (poster presentation).
95. *Aldawwas, A., **Meehan, C. L.**, Talebi, M., and Wright, A. W. (2016). "An Examination of Pile Downdrag Provisions in Existing Bridge Design Specifications." *Delaware Center for Transportation 2016 Research Showcase*, Dover, DE, 5/12/16, (poster presentation).
94. *Baker, W. J. and **Meehan, C. L.** (2016). "Utilizing Continuous Compaction Control to Improve Soil Performance." *Delaware Center for Transportation 2016 Research Showcase*, Dover, DE, 5/12/16, (poster presentation).
93. *Talebi, M. and **Meehan, C. L.** (2016). "Performance Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)." *Delaware Center for Transportation 2016 Research Showcase*, Dover, DE, 5/12/16, (poster presentation).

92. *Talebi, M., Poggiogalle, T. M., Baker, W. J., and **Meehan, C. L.** (2016). "Calibration Testing of Strain Gauged Geotextiles: An Image Analysis Approach." *Delaware Center for Transportation 2016 Research Showcase*, Dover, DE, 5/12/16, (poster presentation).
91. *Baker, W. J. and **Meehan, C. L.** (2016). "Utilizing Continuous Compaction Control to Improve Soil Compaction." *External Advisory Council Reception*, University of Delaware, Newark, DE, 5/5/16, (poster presentation).
90. *Talebi, M., **Meehan, C. L.**, and Forsythe, S. M. (2016). "Structural Health Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)." *Sixth Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/28/16, (poster presentation).
89. *Alahmar, M., Zabar, B. S., and **Meehan, C. L.** (2016). "The Behavior of Gypseous Soil Under Vertical Vibration Loading." *Sixth Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/28/16, (poster presentation).
88. *Aldawwas, A., **Meehan, C. L.**, Talebi, M., and Wright, A. W. (2016). "Examining Pile Downdrag Provisions in Existing Bridge Design Specifications." *Sixth Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/28/16, (poster presentation).
87. *Baker, W. J. and **Meehan, C. L.** (2016). "Utilizing Continuous Compaction Control to Improve Soil Compaction." *Sixth Annual University of Delaware Graduate Research Forum*, University of Delaware, Newark, DE, 4/28/16, (poster presentation).
86. *Alahmar, M., Zabar, B. S., and **Meehan, C. L.** (2016). "The Behavior of Gypseous Soil Under Vertical Vibration Loading." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/9/16, (poster presentation).
85. *Talebi, M., **Meehan, C. L.**, and Forsythe, S. M. (2016). "Structural Health Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/9/16, (poster presentation).
84. *Al-Saadi, A. N., **Meehan, C. L.**, and Lehtonen, V. J. (2016). "Soft Soil Creep Behavior: An Instrumented Embankment Case History." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/9/16, (poster presentation).
83. *Aldawwas, A., **Meehan, C. L.**, Talebi, M., and Wright, A. W. (2016). "AASHTO LRFD Bridge Design Specifications – Pile Downdrag Provisions." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/9/16, (poster presentation).

82. *Forsythe, S. M., Talebi, M., Baker, W. J., and **Meehan, C. L.** (2016). "Calibration Testing of Strain Gauged Geotextiles: An Image Analysis Approach." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/9/16, (poster presentation).
81. *Mashayekhi, M., Kaliakin, V. N., and **Meehan, C. L.** (2016). "Thermomechanical Modeling of Cohesive Soils." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/9/16, (poster presentation).
80. *Baker, W. J. and **Meehan, C. L.** (2016). "Utilizing Continuous Compaction Control to Improve Soil Compaction." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/9/16, (poster presentation).
79. *Forsythe, S. M., **Meehan, C. L.**, and Talebi, M. (2015). "Structural Health Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System." *Undergraduate Research and Service Celebratory Symposium*, Newark, DE, 8/13/15, (poster presentation).
78. *Baker, W. J. and **Meehan, C. L.** (2015). "Assessing Soil Performance with Continuous Compaction Control." *MATS UTC 2015 Annual Meeting*, Wilmington, DE, 8/6/15, (poster presentation).
77. *Talebi, M., Boyce, T. J., and **Meehan, C. L.** (2015). "Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)." *The First Annual International Scholar Fair*, Newark, DE, 5/8/15, (poster presentation).
76. *Talebi, M., Boyce, T. J., and **Meehan, C. L.** (2015). "Load Testing of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)." *Delaware Center for Transportation 2015 Research Showcase*, Dover, DE, 5/5/15, (poster presentation).
75. *Talebi, M., Boyce, T. J., and **Meehan, C. L.** (2015). "Monitoring of a Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)." *Delaware Center for Transportation 2015 Research Showcase*, Dover, DE, 5/5/15, (poster presentation).
74. *Wright, A. W., **Meehan, C. L.**, and Talebi, M. (2015). "AASHTO LRFD Bridge Design Specifications - Pile Downdrag Provisions." *Delaware Center for Transportation 2015 Research Showcase*, Dover, DE, 5/5/15, (poster presentation).
73. *Manahiloh, K. N., **Meehan, C. L.**, and Motalleb Nejad, M. (2015). "Applying X-ray CT and Image Processing to Quantify Interphase Contact Angle in Unsaturated Granular Soils." *Delaware Valley Geo-Institute Meeting*, King of Prussia, PA, 3/30/15, (poster presentation).

72. *Talebi, M. and **Meehan, C. L.** (2015). “Numerical Simulation of a Geosynthetic Reinforced Soil Integrated Bridge System During Construction and Operation Using Parametric Studies.” *Delaware Valley Geo-Institute Meeting*, King of Prussia, PA, 3/30/15, (poster presentation).
71. *Manahiloh, K. N., **Meehan, C. L.**, and Motalleb Nejad, M. (2015). “Applying X-ray CT and Image Processing to Quantify Interphase Contact Angle in Unsaturated Granular Soils.” *International Foundations Congress and Equipment Expo 2015 (IFCEE15)*, ASCE Geo-Institute 2015 GeoCongress, San Antonio, TX, 3/20/15, (poster presentation).
70. *Talebi, M. and **Meehan, C. L.** (2015). “Numerical Simulation of a Geosynthetic Reinforced Soil Integrated Bridge System During Construction and Operation Using Parametric Studies.” *International Foundations Congress and Equipment Expo 2015 (IFCEE15)*, ASCE Geo-Institute 2015 GeoCongress, San Antonio, TX, 3/20/15, (poster presentation).
69. Haeri, S. M., Khosravi, A., Ghazizadeh, S., Garakani A. A., and **Meehan, C. L.** (2014). “Characterization of the Effect of Disturbance on the Hydro-Mechanical Behavior of a Highly Collapsible Loessial Soil.” *UNSAT2014: Unsaturated Soils: Research & Applications*, Sydney, Australia, 7/2/14.
68. Talebi, M. and **Meehan, C. L.** (2014). “AASHTO LRFD Bridge Design Specifications - Pile Downdrag Provisions.” *Delaware Center for Transportation 2014 Research Showcase*, Dover, DE, 5/7/14, (poster presentation).
67. *Talebi, M. and **Meehan, C. L.** (2014). “Monitoring of a Geosynthetic Reinforced Soil – Integrated Bridge System (GRS-IBS) in the State of Delaware.” *Delaware Center for Transportation 2014 Research Showcase*, Dover, DE, 5/7/14, (poster presentation).
66. *Cacciola, D. V., Khosravi, M., and **Meehan, C. L.** (2014). “Using Compaction Equipment Instrumented with Global Positioning System (GPS) Technology to Monitor Field Lift Thickness.” *Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, ASCE Geo-Institute 2014 GeoCongress, Atlanta, GA, 2/26/14.
65. *Tehrani, F. S., **Meehan, C. L.**, and Vahedifard, F. (2014). “A Comparison of Density-Based and Modulus-Based In Situ Tests for Earthwork Quality Control.” *Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, ASCE Geo-Institute 2014 GeoCongress, Atlanta, GA, 2/26/14, (poster presentation).
64. *Becker, M. L., **Meehan, C. L.**, and Kaliakin, V. N. (2014). “Finite Element Modeling of Heat Transfer in a Reinforced Concrete Pavement.” *Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, ASCE Geo-Institute 2014 GeoCongress, Atlanta, GA, 2/25/14.

63. *Khosravi, A., Khosravi, M., Sadaghiani, M. H., **Meehan, C. L.**, and Amini, E. (2014). "Assessing the Shear Behavior of Oriented Rock Joints under Constant Normal Loading Conditions." *Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, ASCE Geo-Institute 2014 GeoCongress, Atlanta, GA, 2/24/14.
62. *Talebi, M., **Meehan, C. L.**, Cacciola, D. V., and Becker, M. L. (2014). "Design and Construction of a Geosynthetic Reinforced Soil Integrated Bridge System." *Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability*, ASCE Geo-Institute 2014 GeoCongress, Atlanta, GA, 2/24/14.
61. *Nieto-Leal, A., Kaliakin, V. N., and **Meehan, C. L.** (2014). "Cyclic Response of Cohesive Soils and its Numerical Simulation, a Preliminary Study." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/18/14, (poster presentation).
60. *Talebi, M., Vahedifard, F, and **Meehan, C. L.** (2014). "Evaluation of Important Factors Causing Soil Arching in Earth Dams Using Numerical Modeling." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/18/14, (poster presentation).
59. *Mashayekhi, M., Kaliakin, V. N., and **Meehan, C. L.** (2014). "Energy Geo-Structures: Challenges & Opportunities." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/18/14, (poster presentation).
58. *Talebi, M., **Meehan, C. L.**, Cacciola, D. V., and Becker, M. L. (2013). "Design and Construction of a Geosynthetic Reinforced Soil – Integrated Bridge System (GRS-IBS) in the State of Delaware." *Delaware Center for Transportation 2013 Research Showcase*, Dover, DE, 5/9/13, (poster presentation).
57. *Becker, M. L., Talebi, M., **Meehan, C. L.**, and Cacciola, D. V. (2013). "Instrumentation of a Geosynthetic Reinforced Soil – Integrated Bridge System (GRS-IBS) in the State of Delaware." *Delaware Center for Transportation 2013 Research Showcase*, Dover, DE, 5/9/13, (poster presentation).
56. *Cacciola, D. V. and **Meehan, C. L.** (2013). "Implementation of Continuous Compaction Control Specification Methods." *Delaware Center for Transportation 2013 Research Showcase*, Dover, DE, 5/9/13, (poster presentation).
55. *Nicks, J., Talebi, M., Becker, M. L., Cacciola, D. V., and **Meehan, C. L.** (2013). "Instrumentation of a GRS-IBS Bridge: Bridge 1-366, Chesapeake City Road." *Delaware Every Day Counts GRS-IBS Showcase*, Newark, DE, 3/27/13.
54. *Talebi, M., **Meehan, C. L.**, Becker, M. L., and Cacciola, D. V. (2013). "Design of a GRS-IBS Bridge: Bridge 1-366, Chesapeake City Road." *Delaware Every Day Counts GRS-IBS Showcase*, Newark, DE, 3/27/13.

53. *Vahedifard, F., Leshchinsky, D., and **Meehan, C. L.** (2013). "Application of a New Analytical-Numerical Framework for Displacement-Based Seismic Design of Geosynthetic-Reinforced Earth Structures." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/6/13.
52. *Benjasupattananan, S. and **Meehan, C. L.** (2013). "Probability-Based Design for Levee Underseepage: Heaving vs. Piping Phenomena." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/6/13.
51. *Benjasupattananan, S. and **Meehan, C. L.** (2013). "Analytical Solutions for Levee Underseepage Analysis: Straight and Curved Levee Sections with an Infinite Blanket." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/6/13.
50. *Khosravi, M., **Meehan, C. L.**, Cacciola, D. V., and Khosravi, A. (2013). "Effect of Fast Shearing on the Residual Shear Strengths Measured Along Pre-Existing Shear Surfaces in Kaolinite." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/5/13.
49. *Khosravi, A., Khosravi, M., and **Meehan, C. L.** (2013). "The Hydro-Mechanical Behavior of Infilled Rock Joints with Fill Materials in Unsaturated Conditions." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/5/13.
48. *Talebi, M., Vahedifard, F., and **Meehan, C. L.** (2013). "Effect of Geomechanical and Geometrical Factors on Soil Arching in Zoned Embankment Dams." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/5/13.
47. *Cacciola, D. V., **Meehan, C. L.**, and Khosravi, M. (2013). "An Evaluation of Specification Methodologies for Use with Continuous Compaction Control Equipment." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/4/13.
46. *Hertz, J. S. and **Meehan, C. L.** (2013). "Comparisons of Data from a Complex-Impedance Measuring Instrument and Conventional Compaction Control Tests." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/4/13.
45. *Khosravi, M., Leshchinsky, D., **Meehan, C. L.**, and Khosravi, A. (2013). "Stability Analysis of Seismically Loaded Slopes Using Finite Element Techniques." *Geo-Congress 2013: Stability and Performance of Slopes and Embankments III*, ASCE Geo-Institute 2013 GeoCongress, San Diego, CA, 3/4/13.

44. *Talebi, M., **Meehan, C. L.**, Cacciola, D. V., and Becker, M. L. (2013). "Geotechnical Design and Instrumentation of a Geosynthetic Reinforced Soil – Integrated Bridge System (GRS-IBS) in the State of Delaware." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/19/13, (poster presentation).
43. *Becker, M. L. and **Meehan, C. L.** (2013). "Finite Element Modeling of Heat Transfer in a Reinforced Concrete Pavement." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/19/13, (poster presentation).
42. *Benjasupattananan, S. and **Meehan, C. L.** (2012). "Deterministic and Probabilistic Approaches for Two- and Three-Dimensional Levee Underseepage Analyses." *Dam Safety 2012: Annual Conference of the Association of State Dam Safety Officials*, Denver, CO, 9/18/12. (*ASDSO 2012 Award Winner: Student Paper Competition*).
41. *Bailey, J. M., Kaliakin, V. N., **Meehan, C. L.**, Attoh-Okine, N. O., and Imhoff, P. T. (2012). "Long-Term Performance Monitoring of a Recycled Tire Embankment in Wilmington, Delaware." *Delaware Center for Transportation 2012 Research Showcase*, Dover, DE, 5/9/12, (poster presentation).
40. *Talebi, M. and **Meehan, C. L.** (2012). "Design of a Geosynthetic Reinforced Soil – Integrated Bridge System (GRS-IBS) in the State of Delaware." *Delaware Center for Transportation 2012 Research Showcase*, Dover, DE, 5/9/12, (poster presentation).
39. *Cacciola, D. V. and **Meehan, C. L.** (2012). "Development of Specifications for the Use of Continuous Compaction Control Systems." *Delaware Center for Transportation 2012 Research Showcase*, Dover, DE, 5/9/12, (poster presentation).
38. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2012). "Numerical Simulation of Column Supported Embankments with Geosynthetic Encased Columns: Influence of Soft Soil Constitutive Model." *GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, ASCE Geo-Institute 2012 GeoCongress, Oakland, CA, 3/28/12.
37. *Benjasupattananan, S. and **Meehan, C. L.** (2012). "An Investigation of Three Probabilistic Approaches for Levee Underseepage Analysis." *GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, ASCE Geo-Institute 2012 GeoCongress, Oakland, CA, 3/27/12.
36. *Hertz, J. S., **Meehan, C. L.**, Bailey, J. M., and Becker, M. L. (2012). "Electrical Density Gauge (EDG): Electro-Physical Method for Compaction Control." *2012 Geo-Congress: State of the Art and Practice in Geotechnical Engineering*, ASCE Geo-Institute 2012 GeoCongress, Oakland, CA, 3/26/12, (poster presentation).

35. *Hertz, J. S., **Meehan, C. L.**, Bailey, J. M., and Becker, M. L. (2012). "Electrical Density Gauge (EDG): Electro-Physical Method for Compaction Control." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/22/12, (poster presentation).
34. *Cacciola, D. V., **Meehan, C. L.**, and Tehrani, F. S. (2012). "An Investigation of Continuous Compaction Control Systems." *Delaware Valley Geo-Institute Meeting*, Villanova University, Villanova, PA, 2/22/12, (poster presentation).
33. *Hertz, J. S., **Meehan, C. L.**, Becker, M. L., and Bailey, J. M. (2012). "Electrical Density Gauge (EDG): Electro-Physical Method for Compaction Control." *Mid-Atlantic Quality Assurance Workshop*, Dover, DE, 2/7/12, (poster presentation).
32. *Cacciola, D. V., **Meehan, C. L.**, and Tehrani, F. S. (2012). "An Investigation of Continuous Compaction Control Systems." *Mid-Atlantic Quality Assurance Workshop*, Dover, DE, 2/7/12, (poster presentation).
31. *Khabbazian, M., **Meehan, C. L.**, and Kaliakin, V. N. (2011). "Influence of Granular Soil Constitutive Model when Simulating the Behavior of Geosynthetic Encased Columns." *Geo-Frontiers 2011: Advances in Geotechnical Engineering*, ASCE Geo-Institute 2011 GeoCongress, Dallas, TX, 3/15/11.
30. *Hertz, J. S., Cacciola, D., Bailey, J., and **Meehan, C. L.** (2011). "Electrical Density Gauge (EDG): Electro-Physical Method for Compaction Control." *Geo-Frontiers 2011: Advances in Geotechnical Engineering*, ASCE Geo-Institute 2011 GeoCongress, Dallas, TX, 3/14/11, (poster presentation).
29. *Vahedifard, F. and **Meehan, C. L.** (2011). "Error Analysis of Predicted Seismic Displacement of Earth Dams Using Simplified Sliding Block Methods." *Geo-Frontiers 2011: Advances in Geotechnical Engineering*, ASCE Geo-Institute 2011 GeoCongress, Dallas, TX, 3/14/11.
28. *Chen, Y. and **Meehan, C. L.** (2011). "Undrained Strength Characteristics of Compacted Bentonite/Sand Mixtures." *Geo-Frontiers 2011: Advances in Geotechnical Engineering*, ASCE Geo-Institute 2011 GeoCongress, Dallas, TX, 3/14/11.
27. *Vahedifard, F., **Meehan, C. L.**, and O'Neal, M. A. (2011). "Earthquake-Triggered Landslide Hazard Mapping: The Effects of Spatial Resolution and Displacement Model Selection." *2011 Earthquake Engineering Research Institute (EERI) Annual Meeting*, La Jolla, CA, 2/11/11, (poster presentation).
26. *Sliwinski, T. M., McKenna, T. E., Puleo, J. A., and **Meehan, C. L.** (2010). "Ground-Based Thermal Imaging of Coastal and Riverine Sediments." *2010 Fall Meeting*, American Geophysical Union, Abstract OS51B-1278, San Francisco, CA, 12/13/10-12/17/10, (poster presentation).

25. *Han, B., Imhoff, P. T., Scicchitano, V., O’Neal, M. A., Puleo, J. A., **Meehan, C. L.**, Dentel, S. K., and Fluman, D. A. (2010). “Airborne Measurements for Quantifying Methane Emissions from Landfills.” *2010 Global Waste Management Symposium Proceedings*, San Antonio, TX, 10/3/10-10/6/10.
24. *Kaliakin, V. N., Jiang, P., Khabbazian, M., and **Meehan, C. L.** (2010). “Performance of Enhanced Mixed Elements with Continuous Pressure Approximations as Applied to Porous Geologic Materials.” *16th US National Congress of Theoretical and Applied Mechanics*, Pennsylvania State University, University Park, PA, 7/1/10.
23. *Han, B., Scicchitano, V., O’Neal, M. A., Puleo, J. A., Dentel, S. K., **Meehan, C. L.**, and Imhoff, P. T. (2010). “Airborne Measurements for Quantifying Methane Emissions from Landfills.” *The 6th Intercontinental Landfill Research Symposium*, Hokkaido, Japan, 6/9/10-6/11/10, (poster presentation).
22. *Han, B., Scicchitano, V., O’Neal, M. A., Puleo, J. A., Dentel, S. K., **Meehan, C. L.**, and Imhoff, P. T. (2010). “Airborne Measurements for Quantifying CH₄ Emissions from Landfills.” *The 6th Intercontinental Landfill Research Symposium*, Hokkaido, Japan, 6/9/10-6/11/10.
21. Kaliakin, V. N., **Meehan, C. L.**, Attoh-Okine, N. O., and Imhoff, P. T. (2010). “Long-Term Performance Monitoring of a Recycled Tire Embankment in Wilmington, Delaware.” *Delaware Center for Transportation 2010 Research Showcase*, Dover, DE, 5/5/10, (poster presentation).
20. *Hertz, J. S. and **Meehan, C. L.** (2010). “Using Electrical Density Gauges for Field Compaction Control.” *Delaware Center for Transportation 2010 Research Showcase*, Dover, DE, 5/5/10, (poster presentation).
19. *Sliwinski, T. M., McKenna, T. E., Puleo, J. A., Stewart, M., and **Meehan, C. L.** (2010). “Experimental Examination of the Factors Affecting Ground-Based Thermal Imaging of Intertidal Sediments.” *2010 Ocean Sciences Meeting*, Eos. Trans., American Geophysical Union, 84(52), Supplemental Abstract IT25E-11, Portland, OR, 2/23/10, (poster presentation).
18. *Valentino, E. J. and **Meehan, C. L.** (2010). “Designing Safer Levee Systems.” *GeoFlorida 2010: Advances in Analysis, Modeling & Design*, ASCE Geo-Institute 2010 GeoCongress, West Palm Beach, FL, 2/23/10, (poster presentation).
17. *Lobo, L. E., Vahedifard, F., and **Meehan, C. L.** (2010). “GIS-Based Landslide Hazard Assessment of Oat Mountain, California.” *GeoFlorida 2010: Advances in Analysis, Modeling & Design*, ASCE Geo-Institute 2010 GeoCongress, West Palm Beach, FL, 2/23/10, (poster presentation).
16. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2010). “Numerical Study

- of Effect of Geosynthetic Encasement on the Behavior of Granular Columns.” *GeoFlorida 2010: Advances in Analysis, Modeling & Design*, ASCE Geo-Institute 2010 GeoCongress, West Palm Beach, FL, 2/23/10, (poster presentation).
15. ***Meehan, C. L.** and Vahedifard, F. (2010). “Examination of Simplified Displacement-Based Methods for Dynamic Analyses of Slopes.” *GeoFlorida 2010: Advances in Analysis, Modeling & Design*, ASCE Geo-Institute 2010 GeoCongress, West Palm Beach, FL, 2/22/10.
 14. *Tehrani, F. S. and **Meehan, C. L.** (2010). “The Effect of Water Content on Light Weight Deflectometer Measurements.” *GeoFlorida 2010: Advances in Analysis, Modeling & Design*, ASCE Geo-Institute 2010 GeoCongress, West Palm Beach, FL, 2/21/10.
 13. *Khabbazian, M., **Meehan, C. L.**, and Kaliakin, V. N. (2010). “Numerical Study of Effect of Encasement on Stone Column Performance.” *GeoFlorida 2010: Advances in Analysis, Modeling & Design*, ASCE Geo-Institute 2010 GeoCongress, West Palm Beach, FL, 2/21/10.
 12. *Lobo, L. E., Vahedifard, F., and **Meehan, C. L.** (2009). “Landslide Hazard Mapping of Earthquake Prone Areas.” *University of Delaware Geospatial Research Day*, Newark, DE, 11/19/09, (poster presentation).
 11. *Valentino, E. J. and **Meehan, C. L.** (2009). “Designing Safer Levee Systems.” *University of Delaware Research Foundation Symposium*, Newark, DE, 11/3/09, (poster presentation).
 10. Han, B., Imhoff, P. T., O’Neal, M. A., Puleo, J. A., and **Meehan, C. L.** (2009). “Airship-Based Measurements for Quantifying Methane Emissions from Landfills.” *University of Delaware Research Foundation Symposium*, Newark, DE, 11/3/09, (poster presentation).
 9. *Tehrani, F. S. and **Meehan, C. L.** (2009). “Preliminary evaluation of continuous compaction control in a Delaware field study.” *Eighth International Conference on the Bearing Capacity of Roads, Railways and Airfields*, Champaign, IL, 7/1/09.
 8. *Miner, T. and **Meehan, C. L.** (2009). “Establishment of a Geotechnical Information Database.” *Delaware Center for Transportation 2009 Research Showcase*, Dover, DE, 5/4/09, (poster presentation).
 7. *Tehrani, F. S. and **Meehan, C. L.** (2009). “Investigation of Intelligent Compaction Technology.” *Delaware Center for Transportation 2009 Research Showcase*, Dover, DE, 5/4/09, (poster presentation).
 6. *Khabbazian, M., Kaliakin, V. N., and **Meehan, C. L.** (2009). “3D Numerical Analyses of Geosynthetic Encased Stone Columns.” *International Foundation Congress & Equipment Expo ‘09*, ASCE Geo-Institute 2009 GeoCongress,

Orlando, FL, 3/19/09.

5. *Walsh, N. A., **Meehan, C. L.**, and Leshchinsky, D. (2009). “Lessons Learned: Field Installation of Strain Gages on High Strength Geotextile.” *International Foundation Congress & Equipment Expo '09*, ASCE Geo-Institute 2009 GeoCongress, Orlando, FL, 3/18/09.
4. *Brendza, C., Miner, T., and **Meehan, C. L.** (2008). “Establishment of a Geotechnical Information Database.” *Delaware Center for Transportation 2008 Research Showcase*, Dover, DE, 5/6/08, (poster presentation).
3. *Imamoglu, B., **Meehan, C. L.**, and Leshchinsky, D. (2008). “Construction of Approach MSE Walls to IRIB: Reduction of Geotechnical Field Data.” *Delaware Center for Transportation 2008 Research Showcase*, Dover, DE, 5/6/08, (poster presentation).
2. *Tehrani, F. S. and **Meehan, C. L.** (2008). “Investigation of Intelligent Compaction Technology.” *Delaware Center for Transportation 2008 Research Showcase*, Dover, DE, 5/6/08, (poster presentation).
1. **Meehan, C. L.** (2003). “Determining the Cyclic Shear Strength of Slickensided Slip Surfaces.” *The 23rd USSD Annual Meeting and Conference*, Charleston, SC, 4/15/03

Doctoral Students Advised:

<u>No.</u>	<u>Student</u>	<u>Status / Dissertation</u>
7.	Tyler M. Poggiogalle	Current Ph.D. student.
6.	Ali Al-Saadi	Current Ph.D. student.
5.	William J. Baker III	Current Ph.D. student.
4.	Majid Talebi	Ph.D. December 2016. Dissertation: “Analysis of the Field Behavior of a Geosynthetic Reinforced Soil Integrated Bridge System During Construction and Operation”. 506 pp. (Link to Dissertation)
3.	Sittinan Benjasupattananan	Ph.D. January 2014. Dissertation: “Deterministic and Probabilistic Approaches for Modeling Levee Underseepage”. 631 pp. (Link to Dissertation)
2.	Majid Khabbazian	Ph.D. January 2012. Dissertation: “Numerical Simulation of Geosynthetic Encased Columns Used Individually and in Group Configurations”. Co-advised with Victor Kaliakin. 333 pp. (Link to Dissertation)
1.	Farshid Vahedifard	Ph.D. August 2011. Dissertation: “Seismic Displacement of Unreinforced and Reinforced Earth Structures”. 214 pp. Dov Leshchinsky served as Co-advisor. (Link to Dissertation)

Master's Students Advised:

<u>No.</u>	<u>Student</u>	<u>Status / Thesis</u>
9.	Matthew L. Becker	Current M.C.E. student.
8.	Mehmet Sagnak	Current M.C.E. student.
7.	Jason S. Hertz	M.C.E. August 2015. Thesis: "Evaluation of Electrical Density Gauge for Field Compaction Control". (Link to Thesis)
6.	Daniel V. Cacciola	M.C.E. August 2013. Thesis: "Using Continuous Compaction Control Systems within an Earthwork Compaction Specification Framework". (Link to Thesis)
5.	Yueru Chen	M.C.E. January 2011. Thesis: "An Experimental Investigation of the Behavior of Compacted Clay/Sand Mixtures". (Link to Thesis)
4.	Ayse Ozdogan	M.C.E. August 2010. Thesis: "A Study on the Triaxial Shear Behavior and Microstructure of Biologically Treated Sand Specimens". (Link to Thesis)
3.	Faraz S. Tehrani	M.C.E. August 2009. Thesis: "An Investigation of Continuous Compaction Control Systems". (Link to Thesis)
2.	Baris Imamoglu	M.C.E. August 2009. Thesis: "Case History: Strain and Force Distribution in HDPE Reinforced Wall". Co-advised with Dov Leshchinsky (Link to Thesis)
1.	Nicole A. Walsh	M.C.E. August 2009. Thesis: "High Strength Geotextile: Strain Monitoring at Cherry Island Landfill". Co-advised with Dov Leshchinsky (Link to Thesis)

Master's Students Advised, Non-Thesis:

<u>No.</u>	<u>Student</u>	<u>Status / Thesis</u>
8.	Anas (Suliman M) Aldawwas	M.C.E. May 2017. Non-Thesis Masters.
7.	Brian T. Lowe	M.C.E. December 2016. Non-Thesis Masters.
6.	Ryan M. Miller	M.C.E. December 2014. Non-Thesis Masters.
5.	Majid Talebi	M.C.E. May 2013. Non-Thesis Masters.
4.	Matthew J. Leone	M.C.E. May 2012. Non-Thesis Masters.
3.	Mohammad Khosravi	M.C.E. May 2012. Non-Thesis Masters.
2.	Sittinan Benjasupattananan	M.C.E. May 2011. Non-Thesis Masters.
1.	Farshid Vahedifard	M.C.E. August 2009. Non-Thesis Masters.

Undergraduate Students Advised: (* indicates Undergraduate Senior Thesis):

<u>No.</u>	<u>Student</u>	<u>Status / Undergraduate Thesis / Project(s) Worked On</u>
29.	Joya Mitrano	B.M.E. May 2019. Worked on Project: "Implementation of "Smart Equipment" in Field Construction". Also Worked on Project: "Exploratory Field Monitoring of

- Pile Downdrag”.
28. Anthony Donatelli B.S. May 2018. Worked on Project: “Implementation of “Smart Equipment” in Field Construction”. Also Worked on Project: “Exploratory Field Monitoring of Pile Downdrag”.
 27. Keith Heckler B.S. May 2018. Worked on Project: “Implementation of “Smart Equipment” in Field Construction”.
 26. Alec C. L'Amoreaux B.S. May 2017. Worked on Project: “Implementation of “Smart Equipment” in Field Construction”.
 25. Marc (Gus) Toussaint B.S. May 2017. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”. Also Worked on Project: “Implementation of “Smart Equipment” in Field Construction”
 24. Rachel H. Bruckel B.S. May 2016. Worked on Project: “CAREER: The Seismic Behavior of Slickensided Surfaces”.
 23. Tyler M. Poggiogalle B.S. May 2016. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”.
 22. Christy L. Bugher B.S. May 2016. Worked on Project: “Implementation of “Smart Equipment” in Field Construction”.
 21. Brigid Deely B.S. May 2016. Worked on Project: “CAREER: The Seismic Behavior of Slickensided Surfaces”.
 20. Scott M. Forsythe B.S. May 2016. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”.
 19. Lucas F. Buonanno Brazil Scientific Mobility Program, Department of Civil and Environmental Engineering. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”.
 18. Matthew T. Kereszi B.S. December 2015. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”.
 17. *James Young B.S. May 2015. Senior Thesis, Center for Energy and Environmental Policy: “Energy Auditing Brings Environmental and Financial Benefits to the U.S. Commercial Sector”. Co-advised with Ismat Shah (who was the first reader).

16. Andrew W. Wright B.S. May 2015. Worked on Project: “AASHTO LRFD Bridge Design Specifications – Pile Downdrag Design Provisions”.
15. Truxton J. Boyce B.S. May 2015. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”.
14. Hugo Tefili S. Pereira Brazil Scientific Mobility Program, Department of Civil and Environmental Engineering. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”.
13. William J. Baker III B.S. May 2015. Worked on Project: “Design, Construction, and Monitoring of a Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) in the State of Delaware: A Continuation of Project Letter 11A01477”.
12. Olivia Dalton B.S. May 2013. Worked on Project: “Using Electrical Density Gauges for Field Compaction Control”.
11. Emma S. Gretina B.S. May 2012. Worked on Project: “Development of Specifications for the Use of Continuous Compaction Control Systems”.
10. Daniel Cacciola B.S. May 2011. Worked on Project: “Using Electrical Density Gauges for Field Compaction Control”.
9. James Bailey B.S. May 2011. Worked on Project: “Using Electrical Density Gauges for Field Compaction Control”.
8. Elisa Kropat B.S. May 2011. Worked on Project: “Mapping of Landslides Induced by Earthquakes: UDUTC Research Experience for Undergraduates”.
7. Lauren Lobo B.S. May 2011. Worked on Project: “Landslide Hazard Mapping of Earthquake Prone Transportation Areas-Case study: Oat Mountain Area along Route 5 in the State of California: UDUTC Research Experience for Undergraduates”.
6. Mindy Laybourne B.S. May 2011. Worked on Project: “Investigation of Intelligent Compaction Technology: Phase 2 – A Field Study”.
5. Emily Valentino B.S. May 2010. Worked on Project: “Designing Safer Levee Systems”.
4. Alexandra Patrone B.S. May 2010. Worked on Project: “Testing the Accuracy and Reliability of the Electrical Density Gauge”.
3. *Melissa A. Stewart B.S. May 2010. Senior Thesis: “Variations in Apparent Surface Temperature as a Function of Imager Viewing Angle”. Co-advised with Jack Puleo and Thomas

2. Tom Miner McKenna.
B.S. December 2009. Worked on Project: “Establishment of a Geotechnical Information Database”.
Also worked on Project: “Long-Term Performance Monitoring of a Recycled Tire Embankment in Wilmington, Delaware”.
1. Chris Brendza B.S. May 2008. Worked on Project: “Establishment of a Geotechnical Information Database”.

TEACHING EXPERIENCE

Courses Taught: (*New course introduced, or course not taught in last 5 yr)

<u>Term</u>	<u>Course</u>	<u>Title</u>	<u>Credit</u>	<u>Students</u>
17 Fall	CIEG 626	Soil Behavior	3	3
17 Spring	CIEG 321	Geotechnical Engineering	3	83
16 Fall	CIEG 422/622	Earth Structures Engineering	3	5/10
16 Spring	CIEG 321	Geotechnical Engineering	3	88
15 Fall	CIEG 626	Soil Behavior	3	13
15 Spring	CIEG 321	Geotechnical Engineering	3	118
14 Fall	CIEG 422/622*	Earth Structures Engineering	3	15/7
14 Spring	CIEG 321	Geotechnical Engineering	3	111
13 Fall	CIEG 626	Soil Behavior	3	5
13 Spring	MPR 5350	Soil Behavior (TUT, sabbatical)	3	6
12 Fall	-	(sabbatical)	-	-
12 Spring	CIEG 321	Geotechnical Engineering	3	98
11 Fall	CIEG 626	Soil Behavior	3	11
11 Spring	CIEG 321	Geotechnical Engineering	3	68
10 Fall	CIEG 623	Soil Mechanics Lab	3	6
10 Spring	CIEG 321	Geotechnical Engineering	3	91
09 Fall	CIEG 626*	Soil Behavior*	3	8
09 Spring	CIEG 321	Geotechnical Engineering	3	72
08 Fall	CIEG 623*	Soil Mechanics Lab*	3	10
08 Spring	CIEG 321	Geotechnical Engineering	3	73
07 Fall	CIEG 667*	Soil Behavior*	3	7
07 Fall	CIEG 865	Civil Engineering Seminar	1	16
07 Spring	CIEG 321	Geotechnical Engineering	3	84
06 Fall	CIEG 323	Soil Mechanics Laboratory	1	92

SERVICE

Department, College, and University Service:

Member, 2017-2018 College of Engineering Dean Search Committee
Member, CEE Leadership Committee, August 2017-present
Member, 2017 College of Engineering Entrepreneurship Committee
Member, 2016-2017 UD CEE P&T Subcommittee, for Dr. Kalehiwot Manahiloh
Director, Delaware Center for Transportation (DCT), July 2016 – present
Mentor, 2016-2017 Fulbright at UD Program, Advised Mark White and Kaitlyn Engler, UD Undergraduate Students
Member, Faculty Search Committee, 2015-2016 academic year (Structural Engineering)
Mentor, 2015-2016 Fulbright at UD Program, Advised Paula-Marie Ferrara, UD Undergraduate Student
Member, 2014-2015 College of Engineering Educational Activities Committee
Member, 2014-2015 UD CEE P&T Subcommittee, for Dr. Kalehiwot Manahiloh
Member, “Models for the New American Research University”, Working Group for the University of Delaware Strategic Planning Initiative, May 2014 – March 2015
Participant, 2014 College of Engineering Electronic Receipt Pilot Program
Member, Adjunct Faculty Search Committee, 2011-2012 academic year
Member, Staff Search Committee, 2011-2012 academic year
Member, Department Ad-Hoc Strategic Planning Committee, 2011-2012 academic year
Member, Graduate Committee, 2010-2011 academic year, Spring 2011
Member, Department Ad-Hoc Strategic Planning Committee, 2010-2011 academic year
Member, College of Engineering Cluster Hiring Committee (Energy), 2010-2011 academic year
Advisor, Geo-Institute at the University of Delaware (student organization), 3/24/10 – present
Member, College of Engineering Cluster Hiring Committee (Energy), 2009-2010 academic year
Speaker, Blue & Gold Saturday, 10/24/09
Member, Faculty Search Committee, 2008-2009 academic year (2 positions)
Member, Undergraduate Committee, 3/9/07 – 8/31/17
Member, ABET Accreditation Committee, 3/9/07 – present
Undergraduate Advisor, 9/1/07 – present
Graduate Advisor, 9/1/07 – present
Member, Department Direction Committee, 11/9/07 – 2/28/08
Presentation at “Engineering Concepts” workshop (w/ Nicole Walsh), 6/25/08
Moderator, DCT Transportation Education, Research and Security Forum, 11/14/07
Organized civil engineering demonstration tours for visiting high school calculus students:
11/9/07 & 11/13/07
Took group of students to GeoProbe Field Day: 10/30/07

Engineering Community Service:

Chair 2019 GeoCongress Technical Proceedings
Core Organizing Committee, ASCE 2019 GeoCongress, Philadelphia, PA.
Session Co-Chair: “Mechanically Stabilized Earth Retaining Walls 2”, Geotechnical Frontiers 2017: Innovation and Collaboration in Technology and Practice, ASCE 2017 GeoCongress, Orlando, FL, March 12-15, 2017.

Session Co-Chair: “Mechanically Stabilized Earth Retaining Walls 1”, *Geotechnical Frontiers 2017: Innovation and Collaboration in Technology and Practice*, ASCE 2017 GeoCongress, Orlando, FL, March 12-15, 2017.

Conference Co-Chair, *Shale Energy Engineering 2014: Technical Challenges, Environmental Issues, and Public Policy*, ASCE Energy Division’s 2014 Shale Energy Engineering Conference, Pittsburgh, PA, July 21-23, 2014.

Technical Publication Committee Chair and Chief Editor, *Shale Energy Engineering 2014: Technical Challenges, Environmental Issues, and Public Policy*, ASCE Energy Division’s 2014 Shale Energy Engineering Conference, Pittsburgh, PA, July 21-23, 2014.

Technical Publication Committee Chair and Chief Editor, *2013 Geo-Congress: Stability and Performance of Slopes and Embankments III*, ASCE 2013 GeoCongress, San Diego, CA, March 3-7, 2013.

Core Organizing Committee, *2013 Geo-Congress: Stability and Performance of Slopes and Embankments III*, ASCE 2013 GeoCongress, San Diego, CA, March 3-7, 2013.

Session Co-Chair: “Seismic Design of Reinforced Earth Structures”, *2013 Geo-Congress: Stability and Performance of Slopes and Embankments III*, ASCE 2013 GeoCongress, San Diego, CA, March 6, 2013.

Session Co-Chair: “Column Supported Embankments”, *2013 Geo-Congress: Stability and Performance of Slopes and Embankments III*, ASCE 2013 GeoCongress, San Diego, CA, March 5, 2013.

Session Co-Chair: “Earth Structures”, *Geo-Frontiers 2011: Advances in Geotechnical Engineering*, ASCE 2011 GeoCongress, Dallas, TX, March 14, 2011.

Session Co-Chair: “Embankments”, *Geo-Frontiers 2011: Advances in Geotechnical Engineering*, ASCE 2011 GeoCongress, Dallas, TX, March 14, 2011.

Mentor, ASCE ExCEED Teaching Workshop, Northern Arizona University, Flagstaff, AZ, 7/12/08-7/18/08

NEES Centrifuge Research and Training Workshop, Panel Discussion Presenter, University of California, Davis, 11/7/06

National, State, and Local Professional Committees:

Treasurer and Ex-Officio Board of Directors Member, United States Universities Council on Geotechnical Education and Research (USUCGER), 1/1/15-present

Member, Fully Softened Strength Subcommittee, ASCE Geo-Institute Committee on Embankments, Dams, and Slopes, 5/1/14-present

Member, Levee Subcommittee, ASCE Geo-Institute Committee on Embankments, Dams, and Slopes, 7/30/13-present

Treasurer, United States Universities Council on Geotechnical Education and Research (USUCGER), 3/1/12-12/31/14

Board of Directors, United States Universities Council on Geotechnical Education and Research (USUCGER), 5/6/10-12/31/14

Member, Transportation Research Board Committee AFP30 – Soil and Rock Properties, 4/15/09-4/14/15, 4/15/15-3/31/18

Member, ASCE Geo-Institute Committee on Embankments, Dams, and Slopes, 3/16/09-present

Journal Papers Refereed:

2016-2017 Academic Year

Reviewer for Computers and Geotechnics
Reviewer for Geotextiles and Geomembranes

2015-2016 Academic Year

Reviewer for the ASCE Journal of Geotechnical and Geoenvironmental Engineering
Reviewer for Computers and Geotechnics
Reviewer for Geotextiles and Geomembranes
Reviewer for the International Journal of Geoengineering Case Histories

2014-2015 Academic Year

Reviewer for Arabian Journal for Science and Engineering
Reviewer for Elsevier Journal of Building Engineering

2013-2014 Academic Year

Reviewer for the ASCE Journal of Geotechnical and Geoenvironmental Engineering
Reviewer for the ASTM Geotechnical Testing Journal
Reviewer for Geotechnical and Geological Engineering

2012-2013 Academic Year

Reviewer for the ASTM Geotechnical Testing Journal

2011-2012 Academic Year

Reviewer for the ASCE Journal of Geotechnical and Geoenvironmental Engineering
Reviewer for the ASTM Geotechnical Testing Journal
Reviewer for Landslides, Journal of the International Consortium on Landslides
Reviewer for Geosynthetics International

2010-2011 Academic Year

Reviewer for the ASCE Journal of Geotechnical and Geoenvironmental Engineering
Reviewer for the ASCE International Journal of Geomechanics
Reviewer for the ASTM Geotechnical Testing Journal
Reviewer for the ASTM Journal of Testing and Evaluation
Reviewer for Geosynthetics International

2009-2010 Academic Year

Reviewer for the ASCE Journal of Professional Issues in Engineering Education and Practice

2008-2009 Academic Year

Reviewer for the ASCE Journal of Geotechnical and Geoenvironmental Engineering

2007-2008 Academic Year

Reviewer for the ASCE Journal of Geotechnical and Geoenvironmental Engineering

2006-2007 Academic Year

Reviewer for the ASCE Journal of Geotechnical and Geoenvironmental Engineering
Reviewer for the ASTM Geotechnical Testing Journal
Reviewer for the Journal of International Consortium on Landslides
Reviewer for the ISWA Waste Management & Research Journal

Conference Papers Refereed:

2016-2017 Academic Year

Reviewer for the Transportation Research Board 2018 Annual Meeting
Reviewer for the 2nd International Workshop on Landslides in Sensitive Clays, Trondheim, Norway, 12th-14th June 2017

2013-2014 Academic Year

Reviewer for the ASCE Energy Division's 2014 Shale Energy Engineering Conference, all papers

2012-2013 Academic Year

Reviewer for the ASCE/Geo-Institute 2014 GeoCongress
Reviewer for the ASCE/Geo-Institute 2013 GeoCongress
Reviewer for the Transportation Research Board 2013 Annual Meeting

2011-2012 Academic Year

Reviewer for the ASCE/Geo-Institute 2012 GeoCongress
Reviewer for the Transportation Research Board 2012 Annual Meeting

2010-2011 Academic Year

Reviewer for the ASCE/Geo-Institute 2011 GeoCongress
Reviewer for the Transportation Research Board 2011 Annual Meeting

2009-2010 Academic Year

Reviewer for the ASCE/Geo-Institute 2010 GeoCongress
Reviewer for the Transportation Research Board 2010 Annual Meeting
Abstract Reviewer for the ASCE/Geo-Institute 2011 GeoCongress

2007-2008 Academic Year

Reviewer for the ASCE/Geo-Institute 2008 GeoCongress

Research Proposals Refereed:

2017-2018 Academic Year

Reviewer for the National Science Foundation

2015-2016 Academic Year

Reviewer for the National Science Foundation

2014-2015 Academic Year

Reviewer for the National Science Foundation

2011-2012 Academic Year
Reviewer for the National Science Foundation

2006-2007 Academic Year
NSF Review Panel for “NSF 07-506 NEESR Solicitation Proposal Review (Geotech)”