

## ARMIN W. STUEDLEIN, PhD, PE (WA)

*Associate Professor*

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### Academic Background

Doctor of Philosophy (Geotechnical Eng.) University of Washington; December, 2008  
Master of Science (Geotechnical Eng.) Syracuse University; May, 2003  
Bachelor of Science (Env. Resource & Forest Eng.) SUNY-Env. Science & Forestry; May, 2000

### Professional History

#### ***Academic Experience***

2015 – present **Associate Professor**, School of Civil and Construction Engineering, Oregon State University  
2012 – 2015 **Assistant Professor and Loosley Faculty Fellow**, School of Civil and Construction Engineering, Oregon State University  
2009 – 2012 **Assistant Professor**, School of Civil and Construction Engineering, Oregon State University  
2003 – 2008 **Research Fellow**, University of Washington. Dissertation Topic: *Bearing Capacity and Displacement of Spread Footings on Aggregate Pier Reinforced Clay*. Advisor: Robert D. Holtz  
2001 – 2003 **Research Assistant**, Syracuse University. Thesis Topic: *Instrumentation, Performance, and Numerical Modeling of Large Geofam Embankment Structures*. Advisor: Dawit Negussey  
2000 – 2001 **Teaching Assistant**, Syracuse University  
1995 (Summer) **Student Researcher**, Bard College, Annondale-on-Hudson, New York

#### ***Professional Experience***

2008 – 2009 **Geotechnical Engineer IV**, Shannon and Wilson, Inc., Seattle, Washington  
2004 – 2008 **Project Engineer**, Hart Crowser, Inc., Seattle, Washington  
2000 (Summer) **Civil Engineer Intern II**, Research and Development Division, Utah Department of Transportation  
1997 – 1999 **Environmental Health Aide**, Engineering Subdivision of Environmental Sanitation, Ulster County Health Department; Summer Appointment

#### ***Registration***

2009 – Present Professional Engineer, State of Washington, No. 46430

## Awards and Honors

2016	Deep Foundations Institute Student Paper Award by Advised MS Student Youssef Bougataya
2015	Associate Editor of the Year, ASCE J. Geotechnical & Geoenvironmental Engineering
2013	Deep Foundations Institute Young Professors Paper Award
2012	Loosley Faculty Fellow, Oregon State University
2008	Chi Epsilon, Member
2003 – 2006	ARCS Fellowship, University of Washington
2003 – 2004	Valle Fellowship, 2003-2004, University of Washington
2003	Graduate School Masters Prize, College of Engineering, Syracuse University
2000	Magna cum Laude, SUNY College of Environmental Science and Forestry
2000	Order of the Engineer
1996	Eagle Scout of the Year, Rip Van Winkle Council, Boy Scouts of America
1995	Eagle Scout, Boy Scouts of America

## Publications

### **Refereed Journal Publications** (advised Students / Post-docs underlined)

1. Xiao, Y., **Stuedlein, A.W.**, Chen, Q., Liu, H., Liu, P. (2017) “Stress-Strain-Strength Response and Ductility of Gravels Improved by Polyurethane Foam Adhesive,” *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. TBD., No. TBD, pp. TBD, *In press*.
2. Bong, T. and **Stuedlein, A.W.** (2017) “Spatial Variability of CPT Parameters and Silty Fines in Liquefiable Beach Sands,” *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. TBD, No. TBD, *In Press*
3. Reddy, S.C. and **Stuedlein, A.W.** (2017) “Serviceability Limit State Reliability-Based Design of Augered Cast-in-Place Piles in Granular Soils,” *Canadian Geotechnical Journal*, Vol. TBD, No. TBD, *In Press*. <http://www.nrcresearchpress.com/doi/10.1139/cgj-2016-0146#.WTiFyNy1vmE>
4. Reddy, S.C. and **Stuedlein, A.W.** (2017) “Ultimate Limit State Reliability-Based Design of Augered Cast-in-Place Piles Considering Lower-Bound Capacities,” *Canadian Geotechnical Journal*, Vol. TBD, No. TBD, *In Press*. <http://www.nrcresearchpress.com/doi/10.1139/cgj-2016-0145#.WTiFydy1vmE>
5. Gianella, T.N., and **Stuedlein, A.W.**, (2017) “Performance of Driven Displacement Pile-Improved Ground in Controlled Blasting Field Tests,” *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 143, No. 9, 04017047 <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0001731>
6. Li, Q., **Stuedlein, A.W.**, and Barbosa, A.R. (2017) “Torsional Load Transfer of Drilled Shaft Foundations,” *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 143, No. 8, <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0001701>
7. Bougataya, Y. and **Stuedlein, A.W.** (2017) “Region-Specific Calibration of Resistance Factors for use with Static and Wave Equation Analyses of Driven Piles,” *Journal of the Deep Foundations Institute*, Vol. 10, No. 3, pp. 143-152. <http://www.tandfonline.com/doi/abs/10.1080/19375247.2017.1295195>  
**Merited the 2016 DFI Student Paper Award.**
8. **Stuedlein, A.W.** and Gianella, T.N. (2016) “Observations on the Effect of Driving Sequence and Spacing on Displacement Pile Capacity,” *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 143, No. 3, 06016026 <http://ascelibrary.org/doi/10.1061/%28ASCE%29GT.1943-5606.0001618>

9. Huffman, J.C., Martin, J.P., and **Stuedlein, A.W.** (2016) "Calibration and Assessment of Reliability-based Serviceability Limit State Procedures for Foundation Engineering," *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, Vol. TBD, No. TBD, pp. TBD; *In Press* <http://www.tandfonline.com/doi/abs/10.1080/17499518.2016.1183797#.V4zqJzUlfM4>
10. **Stuedlein, A.W.**, Gianella, T.N., and Canivan, G.J. (2016) "Densification of Granular Soils using Conventional and Drained Timber Displacement Piles," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 142, No. 12, 04016075, *In Press* <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0001554>  
**Designated "Editor's Choice" for JGGE 142(12).**
11. Kraupa, T.J., **Stuedlein A.W.**, Mason, H.B., Higgins, C.C. (2016) "Engineered Ecoroof Systems: Geotechnical Considerations," *Journal of Infrastructure Systems*, ASCE, Vol. 22, No. 3, pp. 04016015 <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29IS.1943-555X.0000302>
12. Strahler, A.W., Walters, J.J., and **Stuedlein A.W.** (2016) "Frictional Resistance of Closely-Spaced Steel Reinforcement Strips used in MSE Walls," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 142, No. 8, 04016030 <http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0001492>
13. Choi, Y., Lee, M.-H., Nam, M.S., Kim, T.-H., and **Stuedlein A.W.** (2016) "Development and Implementation of a High-Pressure, Double-Acting, Bi-Directional Loading Cell for Drilled Shafts," *Geotechnical Testing Journal*, Vol. 39, No. 2, 20140166  
[http://compass.astm.org/DIGITAL\\_LIBRARY/JOURNALS/GEOTECH/PAGES/GTJ20140166.htm](http://compass.astm.org/DIGITAL_LIBRARY/JOURNALS/GEOTECH/PAGES/GTJ20140166.htm)
14. Meskele, T. and **Stuedlein A.W.** (2015) "Attenuation of Pipe Ramming-Induced Ground Vibrations," *Journal of Pipeline Systems Engineering and Practice*, ASCE, Vol. 7, No. 1, pp. 04015021. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)PS.1949-1204.0000227](http://ascelibrary.org/doi/abs/10.1061/(ASCE)PS.1949-1204.0000227)
15. Strahler, A.W., **Stuedlein A.W.**, and Arduino, P. (2015) "Stress-Strain Response and Dilatancy of Sandy Gravel in Triaxial Compression and Plane Strain," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. TBD, No. TBD, 04015098. [http://ascelibrary.org.ezproxy.proxy.library.oregonstate.edu/doi/abs/10.1061/\(ASCE\)GT.1943-5606.0001435](http://ascelibrary.org.ezproxy.proxy.library.oregonstate.edu/doi/abs/10.1061/(ASCE)GT.1943-5606.0001435)
16. Huffman, J.C., Strahler, A.W., and **Stuedlein, A.W.** (2015) "Reliability-based Serviceability Limit State Design for Immediate Settlement of Spread Footings on Clay," *Soils and Foundations*, Vol. 55, No. 4, pp. 798-812.  
<http://www.sciencedirect.com/science/article/pii/S0038080615000840>
17. Meskele, T. and **Stuedlein A.W.** (2015) "Drivability Analyses for Pipe Ramming Installations," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 141, No. 3, 04014107. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)GT.1943-5606.0001237](http://ascelibrary.org/doi/abs/10.1061/(ASCE)GT.1943-5606.0001237)
18. Meskele, T. and **Stuedlein A.W.** (2015) "Static Soil Resistance to Pipe Ramming in Granular Soils," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 141, No. 3, 04014108. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)GT.1943-5606.0001232](http://ascelibrary.org/doi/abs/10.1061/(ASCE)GT.1943-5606.0001232)
19. Huffman, J.C. and **Stuedlein, A.W.** (2014) "Reliability-based Serviceability Limit State Design of Spread Footings on Aggregate Pier Reinforced Clay," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 140, No. 10, 04014055.  
[http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)GT.1943-5606.0001156](http://ascelibrary.org/doi/abs/10.1061/(ASCE)GT.1943-5606.0001156)
20. **Stuedlein, A.W.**, Reddy, S.C., and Evans, T.M. (2014) "Interpretation of Augered Cast-In-Place Pile Capacity Using Static Loading Tests," *Journal of the Deep Foundations Institute*, Vol. 8, No. 1, pp. 39-47. <http://www.maneyonline.com/doi/full/10.1179/1937525514Y.0000000003>  
**Designated "Editor's Choice" for J. DFI 8(1).**

21. **Stuedlein, A.W.** and Uzielli, M. (2014) “Serviceability Limit State Design for Uplift of Helical Anchors in Clay,” *Geomechanics and Geoengineering*, Vol. 9, No. 3, 39-47. <http://www.tandfonline.com/doi/full/10.1080/17486025.2013.857049>
22. **Stuedlein, A.W.** and Reddy, S.C. (2014) “Factors Affecting the Reliability of Augered Cast-In-Place Piles in Granular Soils at the Serviceability Limit State,” *Journal of the Deep Foundations Institute*, Vol. 7, No. 2, 46-57. <http://www.maneyonline.com/doi/abs/10.1179/dfi.2013.7.2.004>  
**Merited the “2013 DFI Young Professor Paper Award”**
23. **Stuedlein, A.W.**, Huffman, J.C., and Reddy, S.C. (2014) “Ultimate Limit State Reliability-based Design of Spread Footings on Aggregate Pier-Reinforced Clay,” *Ground Improvement*, Thomas Telford Press, London, UK., Vol. 167, No. 4, 291-300. <http://www.icevirtuallibrary.com/content/article/10.1680/grim.13.00042>
24. Meskele, T. and **Stuedlein, A.W.** (2014) “Analysis of a 610-mm Diameter Pipe Installed Using Pipe Ramming,” *Journal of Performance of Constructed Facilities*, ASCE, Vol. 28, No. 4, 04014009. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)CF.1943-5509.0000463](http://ascelibrary.org/doi/abs/10.1061/(ASCE)CF.1943-5509.0000463)
25. **Stuedlein, A.W.** and Holtz, R.D. (2014) “Displacement of Spread Footings on Aggregate Pier Reinforced Clay,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 140, No. 1, 36-45. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000982](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000982)
26. Reddy, S.C. and **Stuedlein, A.W.** (2013) “Accuracy and Reliability-based Region-Specific Recalibration of Dynamic Pile Formulas,” *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, Vol. 7, No. 3, 163-183. <http://www.tandfonline.com/doi/full/10.1080/17499518.2013.779833>
27. **Stuedlein, A.W.** and Holtz, R.D. (2013) “Bearing Capacity of Spread Footings on Aggregate Pier Reinforced Clay,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 139, No. 1, 49-58. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000748](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000748)
28. **Stuedlein, A.W.** and Young, J. (2012) “Uplift Performance of Multi-Helix Anchors in Desiccated Clay,” *Journal of the Deep Foundations Institute*, Vol. 6, No. 2, 13-25. <http://www.maneyonline.com/doi/abs/10.1179/dfi.2012.007>
29. **Stuedlein, A.W.**, and Meskele, T. (2012) “Preliminary Design and Engineering of Pipe Ramming Installations,” *Journal of Pipeline Systems Engineering and Practice*, ASCE, Vol. 3, No. 4, 125-134. [http://link.aip.org/link/doi/10.1061/\(ASCE\)PS.1949-1204.0000107](http://link.aip.org/link/doi/10.1061/(ASCE)PS.1949-1204.0000107)
30. **Stuedlein, A.W.**, Kramer, S.L., Arduino, P., and Holtz, R.D. (2012) “Geotechnical Characterization and Random Field Modeling for Desiccated Clay,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 138, No. 11, 1301-1313. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000723](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000723)
31. **Stuedlein, A.W.**, Kramer, S.L., Arduino, P., and Holtz, R.D. (2012) “Reliability of Spread Footing Performance in Desiccated Clay,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 138, No. 11, 1314-1325. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000706](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000706)
32. **Stuedlein, A.W.**, and Holtz, R.D. (2012) “Analysis of Footing Load Tests on Aggregate Pier Reinforced Clay,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 138, No. 9, 1091-1103. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000677](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000677)
33. **Stuedlein, A.W.**, Neely, W.J., and Gurtowski, T.G., (2012) “Reliability-based Design of Augered Cast-In-Place Piles,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 138, No. 6, 709-717. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000635](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000635)
34. **Stuedlein, A.W.**, Allen, T.M., Holtz, R.D., and Christopher, B.R., (2012) “Assessment of Reinforcement Strains in Very Tall MSE Walls,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 138, No. 3, 345-356. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000586](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000586)

35. **Stuedlein, A.W.** (2010) “Shear Wave Velocity Correlation for Puyallup River Alluvium,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 136, No. 9, 1298-1304. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000342](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000342)
36. **Stuedlein, A.W.**, Bailey, M.J., Lindquist, D.D., Sankey, J., and Neely, W.J. (2010) “Design and Performance of a 46 m High MSE Wall,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 136, No. 6, 786-796. [http://dx.doi.org/10.1061/\(ASCE\)GT.1943-5606.0000294](http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0000294)
37. Farnsworth, C.B., Bartlett, S.F., Negussey, D., and **Stuedlein, A.W.** (2008) “Rapid Construction and Settlement Behavior of Embankment Systems on Soft Foundation Soils,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 134, No. 3, 289-301. [http://dx.doi.org/10.1061/\(ASCE\)1090-0241\(2008\)134:3\(289\)](http://dx.doi.org/10.1061/(ASCE)1090-0241(2008)134:3(289))

### **Brief, Peer-Reviewed Technical Communications**

38. **Stuedlein, A.W.**, Reddy, S.C., and Evans, T.M. (2015) Closure to “Interpretation of Augered Cast-in-place Pile Capacity using Static Loading Tests,” *Journal of the Deep Foundations Institute*, Vol. 9, No. 2, pp. 77-79. <http://www.maneyonline.com/doi/abs/10.1179/1937525515Y.0000000006>
39. **Stuedlein A.W.** (2015) Discussion, “Prediction of Stone Column Ultimate Capacity using Cavity Expansion Model,” *Ground Improvement*, Vol. 168, No. 3, pp. 231-234. <http://www.icevirtuallibrary.com/content/article/10.1680/grim.14.00035>
40. **Stuedlein, A.W.** and Holtz, R.D. (2013) Discussion, “A State-of-the-Art Review of Stone/Sand-Column Reinforced Clay Systems,” *Geotechnical and Geological Engineering*, Vol. 35, No. 5, 1617-1619. <http://link.springer.com/article/10.1007/s10706-013-9681-z>
41. **Stuedlein, A.W.**, Allen, T.M., Holtz, R.D., and Christopher, B.R. (2013) Closure to “Assessment of Reinforcement Strains in Very Tall Mechanically Stabilized Earth Walls,” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 139, No. 10, 1834–1835. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)GT.1943-5606.0000912](http://ascelibrary.org/doi/abs/10.1061/(ASCE)GT.1943-5606.0000912)
42. Olsen, M.J., and **Stuedlein, A.W.** (2010) Discussion, “Use of Terrestrial Laser Scanning for the Characterization of Retrogressive Landslides in Sensitive Clay and Rotational Landslides in River Banks,” *Canadian Geotechnical Journal*, Vol. 47, No. 10, 1164-1168. <http://www.nrcresearchpress.com/doi/pdf/10.1139/T10-067>
43. **Stuedlein, A.W.** (2010) Discussion, “Performance Monitoring of a Rammed Aggregate Pier Foundation Supporting a Mechanically Stabilized Earth Wall,” *Journal of Performance of Constructed Facilities*, ASCE, Vol. 24, No. 3, 289-292. [http://dx.doi.org/10.1061/\(ASCE\)CF.1943-5509.0000095](http://dx.doi.org/10.1061/(ASCE)CF.1943-5509.0000095)
44. **Stuedlein, A.W.** and Holtz, R.D. (2008) Discussion, “Load Transfer in Rammed Aggregate Piers,” *International Journal of Geomechanics*, ASCE, Vol. 6, No. 6, 389-398. [http://dx.doi.org/10.1061/\(ASCE\)1532-3641\(2008\)8:5\(322\)](http://dx.doi.org/10.1061/(ASCE)1532-3641(2008)8:5(322))

### **Refereed Conference Proceedings**

45. **Stuedlein, A.W.** and Bong, T. (2017) “KEYNOTE LECTURE: Effect of Spatial Variability on Static and Liquefaction-Induced Differential Settlements,” *Geo-Risk 2017: Keynote Lectures*, GSP No. 282, pp. 31-51. <http://ascelibrary.org/doi/10.1061/9780784480694.003>
46. Reddy, S.C. and **Stuedlein, A.W.** (2017) “Impact of Resistance Distribution Selection on Foundation Reliability in Consideration of Lower-Bound Limits,” *Geo-Risk 2017: Reliability-Based Design and Code Developments*, GSP No. 283, pp. 445 - 458. <http://ascelibrary.org/doi/10.1061/9780784480700.043>

47. Bong, T. and **Stuedlein, A.W.** (2017) "CPT-based Random Field Model Parameters for Liquefiable Silty Sands," *Geo-Risk 2017: Geotechnical Risk Assessment and Management*, GSP No. 285, pp. 478-487. <http://ascelibrary.org/doi/10.1061/9780784480724.043>
48. **Stuedlein, A.W.** (2017) "Role of Lower Bound Capacity and Shear Strength Anisotropy on Probabilistic Bearing Capacity of Plastic Fine-grained Soils," *Geotechnical Special Publication Honoring Wilson Tang*, GSP No. 286, ASCE, pp. pp. 203 - 213. <http://ascelibrary.org/doi/10.1061/9780784480731.017>
49. Ganji, A., Li, Q., Arduino, P., and **Stuedlein, A.W.** (2017) "Performance Assessment of Laterally-Loaded Normal and High Strength Steel-reinforced Drilled Shafts using 1-D and 3-D Numerical Methods," Paper no. 4921, *16th World Conf. on Earthquake Engineering 16WCEE*, Santiago, Chile, 9 - 13 January 2017, 12 pp.
50. **Stuedlein, A.W.**, Li, Q., Zammataro, J., Belardo, D., Hertlein, B., and Marinucci, A. (2016) "Comparison of Non-Destructive Integrity Tests on Experimental Drilled Shafts," *Proceedings, 41<sup>st</sup> Annual Meeting of the Deep Foundations Institute*, New York, NY. 10 pp.
51. Mahvelati, S., Coe, J.T., **Stuedlein, A.W.**, Asabere, P., and Gianella, T.N. (2016) "Time-Rate Variation of Shear Wave Velocity (Site Stiffness) Following Blast-Induced Liquefaction," *GeoChicago: Sustainability, Energy, and the Geoenvironment*, GSP No. 272, ASCE, Reston, VA. 10 pp. <http://ascelibrary.org/doi/abs/10.1061/9780784480144.090>
52. Gianella, T.N., **Stuedlein, A.W.**, and Canivan, G.J. (2015) "Densification of Liquefiable Soils using Driven Timber Piles," *6th International Conference on Earthquake Geotechnical Engineering*, Christchurch, New Zealand, 1 to 4 Nov. 2015. 9 pp.
53. Liu, W., Hutchinson, T.C., and **Stuedlein, A.W.** (2015) "Modeling of Foundation-Soil Systems Using Plane-Strain Elements," *6th International Conference on Earthquake Geotechnical Engineering*, Christchurch, New Zealand, 1 to 4 Nov. 2015. 10 pp.
54. Huffman, J.C., Martin, J.P., and **Stuedlein, A.W.** (2015) "Assessment of Reliability-based Serviceability Limit State Procedures using Full-Scale Loading Tests," *Proceedings, 5th International Symposium on Geotechnical Safety and Risk*, 5ISGSR, Rotterdam, The Netherlands, 13-16 November.
55. Huffman, J.C., and **Stuedlein, A.W.** (2015) "Effect of Correlation Structure Model on Geotechnical Reliability-based Serviceability Limit State Simulations," *Proceedings, 12th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP12*, Vancouver, Canada, July 12-15, 2015  
<http://web.engr.oregonstate.edu/~armin/documents/2015%20-%20Huffman%20and%20Stuedlein%20-%20Effect%20of%20Correlation%20Structure%20Model%20on%20Geotech.%20RB%20SLS%20Simulations.pdf>
56. **Stuedlein, A.W.**, Abdollahi, A., Mason, H.B., and French, R. (2015) "Shear Wave Velocity Measurements of Stone Column Improved Ground and Effect on Site Response," *Proceedings, 2015 International Foundation Congress and Equipment Expo*, ASCE, San Antonio, March 17-21, 2015. <http://ascelibrary.org/doi/abs/10.1061/9780784479087.214>
57. Favaretti, C., Lemnitzer, A., **Stuedlein, A.W.**, and Turner, J. (2015) "Recent Advances in p-y Formulations for Lateral Load Transfer of Deep Foundations based on Experimental Studies," *Proceedings, 2015 International Foundation Congress and Equipment Expo*, ASCE, San Antonio, March 17-21, 2015. <http://ascelibrary.org/doi/abs/10.1061/9780784479087.039>
58. Adami, N. and **Stuedlein, A.W.** (2015) "Region-specific Load Transfer Model for Augered Cast-in-Place Piles in Granular Soils," *Proceedings, 2015 International Foundation Congress and Equipment Expo*, ASCE, San Antonio, March 17-21, 2015. <http://ascelibrary.org/doi/abs/10.1061/9780784479087.064>
59. Reddy, S.C. and **Stuedlein, A.W.** (2014) "Time-Dependent Capacity Increase of Piles Driven in the Puget Sound Lowlands," *Soil Behavior Fundamentals to Innovations in Geotechnical*

- Engineering*, Honoring Roy Olson, GSP No. 233, pp. 464-474 <http://ascelibrary.org/doi/abs/10.1061/9780784413265.037>
60. **Meskele, T.** and **Stuedlein, A.W.** (2014) "Field Measurements of Pipe Ramming-Induced Ground Vibrations," *Proc., Pipelines 2014, From Underground to the Forefront of Innovation and Sustainability*, ASCE, Portland, OR, August 3 - 6, 10pp. <http://ascelibrary.org/doi/abs/10.1061/9780784413692.043>
  61. **Stuedlein, A.W.** and **Meskele, T.** (2014) "Drivability of an Instrumented 2440-mm Diameter Rammed Pipe," *Proc., No-Dig 2014*, North American Society for Trenchless Technology, Sacramento, CA. 10 pp. <http://web.engr.oregonstate.edu/~armin/documents/2014%20-%20Stuedlein%20&%20Meskele%20-%20Drivability%20of%20an%20Instrumented%202440-mm%20Diameter%20Rammed%20Pipe.pdf>
  62. **Kraupa, T.J.**, **Mason, H.B.**, **Stuedlein, A.W.**, and **Higgins, C.C.** (2014) "Characterization of Ecoroofs and Ecoroof Materials," *Geo-Characterization and Modeling for Sustainability*, GeoCongress 2014, GSP No. 234, ASCE, Atlanta, GA, February 23-26, 2014, 10 pp. <http://ascelibrary.org/doi/abs/10.1061/9780784413272.346>
  63. **Strahler, A.W.**, and **Stuedlein, A.W.** (2014) "Accuracy, Uncertainty, and Reliability of the Bearing Capacity Equation for Shallow Foundations on Saturated Clay," *Geo-Characterization and Modeling for Sustainability*, GeoCongress 2014, GSP No. 234, ASCE, Atlanta, GA, February 23-26, 2014, 12 pp. <http://ascelibrary.org/doi/abs/10.1061/9780784413272.317>
  64. **Reddy, S.C.**, and **Stuedlein, A.W.** (2013) "Effect of Slenderness Ratio on the Reliability-based Serviceability Limit State Design of Augered Cast-in-place Piles," *Proceedings, 4th International Symposium on Geotechnical Safety and Risk*, Hong Kong, December 4 - 6, 6 pp. <http://web.engr.oregonstate.edu/~armin/documents/Effect%20of%20Slenderness%20on%20the%20RB%20SL%20of%20ACIP%20Piles.pdf>
  65. **Stuedlein, A.W.** and **Uzielli, M.** (2013) "Stochastic Simulation of Uplift Load-Displacement Behavior of Helical Anchors in Clays," *Proceedings, 1st International Geotechnical Symposium on Helical Anchor Foundations*, International Society for Helical Foundations, University of Massachusetts, Amherst, August 8 - 10, 12 pp. [http://web.engr.oregonstate.edu/~armin/documents/S&U Stoch Simulation Hel Anch.pdf](http://web.engr.oregonstate.edu/~armin/documents/S&U%20Stoch%20Simulation%20Hel%20Anch.pdf)
  66. **Strahler, A.W.**, and **Stuedlein, A.W.** (2013) "Characterization of Model Uncertainty in Immediate Settlement Calculations for Spread Footings on Clays," *Proceedings, 18th Int. Conf. Soil Mech. and Geotech. Engrg.*, Paris 2013, 4 pp. [http://web.engr.oregonstate.edu/~armin/documents/S&S Immediate Settlement Calculations.pdf](http://web.engr.oregonstate.edu/~armin/documents/S&S%20Immediate%20Settlement%20Calculations.pdf)
  67. **Meskele, T.**, and **Stuedlein, A.W.** (2013) "Hammer-Pipe Energy Transfer Efficiency for Pipe Ramming," *No-Dig 2013*, North American Society for Trenchless Technology, Sacramento, CA. 10 pp. [http://web.engr.oregonstate.edu/~armin/documents/M&S 2013 EnergyEff.pdf](http://web.engr.oregonstate.edu/~armin/documents/M&S%202013%20EnergyEff.pdf)
  68. **Stuedlein, A.W.** and **Negussey, D.** (2013) "Use of EPS Geofoam for Support of a Bridge," *Sound Geotechnical Research to Practice: Honoring Robert D. Holtz*, Geotechnical Special Publication No. 230, ASCE, Reston, VA., pp. 334-345. <http://ascelibrary.org/doi/pdfplus/10.1061/9780784412770.022>
  69. **Stuedlein, A.W.** and **Gurtowski, T.M.** (2012) "Reliability of Shaft Resistance for Augered Cast-In-Place Piles in Granular Soils," *Full-Scale Testing and Foundation Design*, Geotechnical Special Publication No. 227, ASCE, Reston VA. pp. 722-736. <http://ascelibrary.org/doi/abs/10.1061/9780784412084.0050>
  70. **Cunningham, J.N.**, **Stuedlein, A.W.**, **Casteneda, M.A.** (2011) "Uplift Micropile Load Transfer in Unsaturated Missoula Flood Deposits," *36th Annual Meeting, Deep Foundations Institute*, Boston, MA., 8 pp.

71. Bartlett, S. F., Negusse, D., Farnsworth, C., **Stuedlein, A.W.** (2011) "Construction and Long-Term Performance of Transportation Infrastructure Constructed Using EPS Geofoam on Soft Soil Sites in Salt Lake Valley, Utah" *Proceedings, EPS 2011, 4th International Conference on Geofoam*, Lillestrom, Norway. 10 pp.
72. **Stuedlein, A.W.** (2011) "Random Field Model Parameters for Columbia River Silt," *Proceedings, GeoRisk 2011*, ASCE, Reston, VA. 8 pp. [http://dx.doi.org/10.1061/41183\(418\)7](http://dx.doi.org/10.1061/41183(418)7)
73. Meskele, T., and **Stuedlein, A.W.** (2011) "Performance of an Instrumented Pipe Ramming Installation," *Proceedings, North American Society for Trenchless Technology (NASTT)*, Washington, D.C. 11 pp.
74. **Stuedlein, A.W.**, Allen, T.M., Holtz, R.D., Christopher, B.R. (2010) "Factors Affecting the Development of MSE Wall Reinforcement Strain," *Proceedings, Earth Retention 2010*, GSP 208, ASCE, Reston, VA. 502-511. [http://dx.doi.org/10.1061/41128\(384\)50](http://dx.doi.org/10.1061/41128(384)50)
75. **Stuedlein, A.W.** and Holtz, R.D. (2010) "Undrained Displacement Behavior of Spread Footings in Clay," *The Art of Foundation Engineering Practice, Honoring Clyde N. Baker, Jr., P.E., S.E.*, ASCE, 653-669. [http://dx.doi.org/10.1061/41093\(372\)34](http://dx.doi.org/10.1061/41093(372)34)
76. **Stuedlein, A.W.**, Mikkelsen, P.E., and Bailey, M.J. (2007) "Instrumentation and Performance of the North MSE Wall at Sea-Tac International Airport," *Field Measurements in Geomechanics 2007*, GSP No. 175, ASCE. [http://dx.doi.org/10.1061/40940\(307\)26](http://dx.doi.org/10.1061/40940(307)26)

#### **Books and Book Chapters Written and Edited**

77. Li, D.-Q., Cao, Z.-J., Dasaka, S.M., Huang, J., Jaksa, M., Nishimura, S., Stuedlein, A.W., Vessia, G. (2017) Discussion of Statistical / Reliability Methods for Eurocodes, Chapter 7: *Incorporating Spatial Variability into Geotechnical Reliability-based Design*, Joint TC205/TC304 Working Group. September 2017.
78. **Stuedlein, A.W.**, and Christopher, B.R. (2013) Sound Geotechnical Research to Practice, *Geotechnical Special Publication No. 230*, Honoring Robert D. Holtz II, ASCE. Co-Editor. <http://www.asce.org/Product.aspx?id=2147487569&productid=185143156>

#### **Non-Refereed Conference Proceedings**

79. **Stuedlein, A.W.** (2016) "Meeting the Challenges of Drilled Shaft Design and Construction on the West Coast," *Foundation Drilling*, August/September, ADSC - The International Association of Foundation Drilling, Dallas, Tx., pp. 46-48.
80. Bartlett, S. F., Negusse, D., Farnsworth, C., **Stuedlein, A.W.** (2011) "Construction and Long-Term Performance of Transportation Infrastructure Constructed Using EPS Geofoam on Soft Soil Sites in Salt Lake Valley, Utah," *EPS 2011, 4th International Conference on Geofoam*, Lillestrom, Norway. 10 pp.
81. **Stuedlein, A.W.** (2009) "Bearing Capacity of Spread Footings on Aggregate Pier Reinforced Clay," *Proceedings, U.S.-Japan Symposium on Blast-induced Liquefaction*, Oregon State University, Corvallis, OR. Sept. 24-25, 2009.
82. **Stuedlein, A.W.** and Holtz, R.D. (2008) "Statistical Analyses of Aggregate Pier Load Tests," *Proceedings, 2nd U.S.-Japan Workshop on Ground Improvement, Geotechnical Earthquake Engineering and Soil Dynamics IV*, ASCE, Sacramento, CA.
83. **Stuedlein, A.W.**, Gibson, M.D., and Horvitz, G.E. (2008) "Tension and Compression Micropile Load Tests in Gravelly Sand," *Proceedings, 6th International Conference on Case Histories in Geotechnical Engineering*, Paper 1.12, Washington D.C.

84. **Stuedlein, A. W.**, Negussey, D., and Mathioudakis, M. (2004) “A Case History of the Use of Geofam for Bridge Approach Fills”, Proceedings, *5th International Conference on Case Histories In Geotechnical Engineering*, Paper 8.40, New York, NY
85. Negussey, D., **Stuedlein, A.W.**, Bartlett, S.F., Farnsworth, C. (2001) “Performance of A Geofam Embankment At 100 South, I-15 Reconstruction Project, Salt Lake City, UT” *Proceedings, EPS 2001, 3rd International Conference on Geofam*, Salt Lake City, UT
86. Bartlett, S. F., Farnsworth, C., Negussey, D., **Stuedlein, A.W.** (2001) “Instrumentation and Long-term Monitoring of Geofam Embankments, I-15 Reconstruction Project, Salt Lake City, UT”, *Proceedings, EPS 2001, 3rd International Conference on Geofam*, Salt Lake City, UT

**Research Reports (Reports to Sponsors)**

87. **Stuedlein, A.W.** and Gianella, T.N. (2016) “Drained Timber Pile Ground Improvement for Liquefaction Mitigation,” *Final Report, NCHRP IDEA Project 180*, Transportation Research Board, The National Academies, Washington, D.C., 66pp
88. **Stuedlein, A.W.**, Li, Q., Arduino, P., and Ganji, A. (2015) “Behavior of Drilled Shafts with High-Strength Reinforcement and Casing,” *Final Report, No. 2013-M-OSU-0024*, Pacific Northwest Transportation Consortium, University of Washington, Seattle, WA. 1378pp.
89. **Stuedlein, A.W.**, Walters, J.J., and Strahler, A.W. (2014) “Characterization of Frictional Interference in Closely-spaced Reinforcements in MSE Walls,” *Final Report, No. 2012-S-OSU-0009*, Pacific Northwest Transportation Consortium, University of Washington, Seattle, WA. 180pp.
90. **Stuedlein, A.W.** and Meskele, T. (2013) “Analysis and Design of Pipe Ramming Installations,” *Final Report*, Research Project SPR-710, Research Section, Oregon Department of Transportation, Salem, OR.
91. Negussey, D. and **Stuedlein, A.W.** (2003) “Geofam Fill Performance Monitoring,” *Research Report UT-03.17*, I-15 Test Bed Report, Utah Department of Transportation, Salt Lake City, UT. 45pp.
92. Negussey, D. and **Stuedlein, A.W.** (2002) “Instrumentation Installation and Monitoring Results, North Geofam Approach Fill at the New Route 85 Crossing over Normans Kill Creek, Albany, NY,” *Report RRMB C-01-48 - Evaluation of Geofam Embankments*, Transportation Research Consortium, New York State Department of Transportation, Albany, NY. 40pp.

**Sponsored Research (Total: \$4,415,000)**

- |             |   |
|-------------|---|
| 2017-2020   | <b>National Science Foundation</b> “Collaborative Research: Bridging the In-situ and Elemental Cyclic Response of Transitional Soils,” Armin W. Stuedlein (PI), T. Matthew Evans (Co-PI); \$634,391, <i>In collaboration with Ken Stokoe and Brady Cox</i> (UT Austin; \$488,405); \$1,122,796 Total. |
| 2017 – 2019 | <b>Cascadia Lifelines Program in Collaboration with the Port of Portland</b> “Deep, In-situ Cyclic Response of Liquefiable Soils,” Armin W. Stuedlein (PI); \$350,000   |
| 2017 – 2019 | <b>Cascadia Lifelines Program</b> “In-Situ Response of Silt and Silty Soils to Liquefaction: Leveraging a New Experimental Approach,” Armin W. Stuedlein (PI), T. Matthew Evans (Co-PI); \$50,000   |
| 2017 – 2019 | <b>United States Department of Agriculture, Agricultural Research Service: Tallwood Design Institute</b> “Design of Timber Pile Ground Improvement for  |

- Liquefaction Mitigation,” Armin W. Stuedlein (PI), A. Sinha (Co-PI); \$150,000
- 2015 – 2016 **Pacific Northwest Transportation Consortium (PacTrans)**, “Torsional Safety of Highway Traffic Signal and Signage Support Structures,” Andre Barbosa (PI, OSU) and Armin W. Stuedlein (Co-PI) \$80,856 / \$40,000 (Stuedlein Share)
- 2014 – 2015 **Oregon Department of Transportation (ODOT)**, “Evaluation of Torsional Load Transfer for Drilled Shaft Foundations,” Armin W. Stuedlein (PI) and Andre Barbosa (Co-PI, OSU) \$60,000 / \$40,000 (Stuedlein Share)
- 2014 – 2015 **Pile Driving Contractor's Association and NCHRP IDEA Program of the National Academy of Sciences**, “Drained Timber Pile Ground Improvement for Liquefaction Mitigation,” Armin W. Stuedlein (PI), \$322,073
- 2014 – 2017 **Oregon Department of Transportation (ODOT)**, “Effects of High Strength Steel and Steel Casing on the Response of Drilled Shafts,” Armin W. Stuedlein (PI), ~\$329,876 (+ significant donations from ADSC West Coast Chapter).
- 2013 – 2014 **Pacific Northwest Transportation Consortium (PacTrans)**, “Behavior of Drilled Shafts with High-Strength Reinforcement and Casing,” Armin W. Stuedlein (PI) and Pedro Arduino (Co-PI, U. of Washington), \$400,000/ \$200,000 (Stuedlein Share)
- 2013 **Deep Foundations Institute (DFI)**, “Reliable Interpretation of Augered Cast-In-Place Pile Capacity Using Load Tests,” Armin W. Stuedlein (PI), \$17,000
- 2012 – 2015 **National Science Foundation**, “Multi-hazard Performance and Design of Ecoroofs,” Chris Higgins (PI, Oregon State University), Armin W. Stuedlein (Co-PI), and Ben H. Mason (Co-PI, Oregon State University) \$335,000 / \$111,667 (Stuedlein Share)
- 2012 – 2013 **Pacific Northwest Transportation Consortium (PacTrans)**, “A Platform for Proactive Risk Based Slope Asset Management,” Andrew Metzger (PI, University of Alaska), Michael J. Olsen (Co-PI, OSU), Armin W. Stuedlein (Co-PI), Pedro Arduino (Co-PI, U. of Washington), and Joseph Wartman (Co-PI, U. of Washington), \$465,000/ \$50,000 (Stuedlein Share)
- 2012 – 2013 **Pacific Northwest Transportation Consortium (PacTrans)**, “Characterization of Frictional Interference in Closely-spaced Reinforcements in MSE Walls,” Armin W. Stuedlein (PI), \$40,000
- 2012 – 2013 **Oregon State University Research Equipment Reserve Fund (RERF)**, “Universal Direct Simple Shear/Direct Shear Test Apparatus,” Armin W. Stuedlein (PI), \$37,619 (includes \$7,524 match from start-up)
- 2011 – 2014 **National Science Foundation**, “Working Stress Behavior of Very Tall Steel Reinforced Mechanically Stabilized Earth (MSE) Walls,” Armin W. Stuedlein (PI), \$326,768
- 2009 – 2012 **Oregon Department of Transportation (ODOT)**, “Analysis and Design of Pipe Ramming Installations,” Armin W. Stuedlein (PI), \$328,000.

**Student Advising**  
**Post-Doctoral Scholars**

**Current**

2016 – Present Taeho Bong, “Quantification and Effect of Spatial Variability on Liquefaction Characteristics of Soils”

**Previously-advised**

*None.*

**Doctoral Students**

**Current**

2010 – Present Jon Huffman, “Performance and Reliability of Spread Footings on Unimproved and Aggregate Pier-Reinforced Clay”

2013 – Present Qiang Li, “Behavior of Drilled Shafts with High-Strength Reinforcement and Casing”

**Graduated**

2016 Andrew W. Strahler, “An Experimental and Numerical Investigation of Tall Mechanically Stabilized Earth Walls”

2014 Seth C. Reddy, Ph.D., “Ultimate and Serviceability Limit State Reliability-based Axial Capacity of Deep Foundations” Consultant, GRI, Inc.

2013 Tadesse Meskele, Ph.D., “Engineering Analysis and Design of Pipe Ramming Installations,” Consultant, GRI, Inc.

**Masters of Science Students (with Thesis or Project)**

**Current**

2017 – Present Marissa Rauthause, *Interface Shear Strength of Sand-Timber Pile Interfaces*

2017 – Present Nathan Jones, *Provisional Advisor*

2013 – Present John Martin, “Effect of Soil Moisture and Shear Strength on Capacity of Aggregate Piers”

**Graduated**

2016 Youssef Bougataya, “Static and Wave Equation Analyses and Development of Region-specific Resistance Factors for Driven Piles”, PBS Engineering and Environmental, Portland, OR.

2015 Tygh Gianella, “Timber Pile Ground Improvement for Liquefaction Mitigation” Staff Engineer, GeoEngineers, Inc., Tacoma, WA.

2014 Chris Newton, “Drained Response of Uncemented and Cemented Aggregates used with Aggregate Pier Ground Improvement,” Staff Engineer, GeoEngineers, Inc., Tacoma, WA.

2013 Travis J. Kraupa, “Static and Cyclic Response of Ecoroof Soil,” *Co-advised with Ben Mason*, Staff Engineer, GeoEngineers, Inc., Portland, OR.

2013 Nasim Adami, “Development of an Augered Cast-in-place Pile-specific Load-Displacement Model,”

2013 James. J. Walters, “Characterization of Reinforced Fill Soil, Soil-Reinforcement Interaction, and Internal Stability of Very Tall MSE Walls,” Staff Engineer, Shannon & Wilson, Inc., Portland, OR.

2012 Jessica M. Young, “Uplift Capacity and Displacement of Helical Anchors in Cohesive Soil,” Staff Engineer, Bonneville Power Administration

2012 Andrew W. Strahler, “Bearing Capacity and Immediate Settlement of Shallow Foundations on Clay” PhD Candidate, Oregon State University

**Masters of Engineering Students (Coursework only with Oral Defense)**

**Current**

*None.*

### **Graduated**

2016	David Bailey, Kiewit, Inc.
2015	Chris Landau, Consultant, GRI, Inc.
2013	Jordan Melby
2013	Stefan Stys, Kiewit Construction, Inc.
2013	Greg Thibeaux, Consultant, K & A Engineering, Inc.
2012	Camille Wilson, Consultant
2011	Thomas Keatts, Consultant, Shannon & Wilson, Inc.
2011	Mark DelCambre, Consultant, CH2M Hill, Inc.
2010	Wasim Nohad, Consultant, GeoDesign, Inc.
2010	Megan Higgins, Consultant, Hart Crowser, Inc.
2010	Jim Aydelott, Consultant, GRI, Inc.
2010	Kevin Severson, Consultant, Conforth Consultants, Inc.
2010	Matthew Mason, Consultant, Foundation Engineers, Inc.
2010	Logan Allender, Consultant, Golder Associates, Inc.

### **Advised Student Participation in National Competitions**

2017	OSU Student Team placed in Top 3 and will compete for 1 <sup>st</sup> in GeoPrediction Event in the March 2017 Annual Meeting
2016	Deep Foundations Institute Student Paper Award, Youssef Bougataya
2016	OSU Student Team placed 1 <sup>st</sup> in GeoPrediction Event; Mohr's Circle Trophy
2014	OSU Student Team placed 1 <sup>st</sup> in GeoPrediction Event: Mohr's Circle Trophy
2012	OSU Student Teams placed in top five and top ten in GeoPrediction Event
2011	OSU Student Team placed 2 <sup>nd</sup> in GeoPrediction Event

## **Professional Society and Other Service**

### **Editorship and Conference Organization**

#### **Journals**

2013 – Present	Associate Editor, <i>ASCE Journal of Geotechnical and Geoenvironmental Engineering</i>
2015 – Present	Associate Editor, <i>Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards</i>

#### **Conferences, Proceedings, and Geotechnical Special Publications**

2018	Co-Editor of Proceedings, <i>2018 International Foundation Conference and Equipment Exposition (IFCEE)</i> , ASCE-ADSC-DFI-PDCA, Orlando, FL
2018	Organizing Committee, <i>2018 International Foundation Conference and Equipment Exposition (IFCEE)</i> , ASCE-ADSC-DFI-PDCA, Orlando, FL
2017	Session Chair, "Session 3C: Updates on the National Research Council (NRC) Project on the State of the Art and Practice in Earthquake Induced Soil Liquefaction Assessment, <i>Annual Meeting of the Earthquake Engineering Research Institute</i> , Portland, OR, 7 – 9 March, 2017
2017	Organizing Committee, GeoRisk 2017 (6 <sup>th</sup> ISGSR), ASCE, Denver, CO
2017	Session Chair, <i>Uncertainty Relating to Geotechnical Properties, Models, and Testing Methods, Part II</i> , GeoRisk 2017 (6 <sup>th</sup> ISGSR), ASCE, Denver, CO
2017	Steering Committee, <i>34<sup>th</sup> Annual Spring Seminar</i> , ASCE Seattle Section Geotechnical Group and Geo-Institute Chapter, 22 April 2017
2016	Scientific Committee and Session Chair: <i>1st International Symposium on Soil Dynamics and Geotechnical Sustainability</i> , Hong Kong University of Science and Technology, Hong Kong

- 2016 Co-Organizer: *NHERI@UTexas In-Situ Liquefaction Workshop*, National Science Foundation, Portland, OR, 23-24 June 2016
- 2015 Scientific Committee: *African Regional Conference on Soil Mechanics and Geotechnical Engineering*, ISSMGE, Hammamet, Tunisia
- 2015 Scientific Committee: *Fifth International Symposium on Geotechnical Safety and Risk (ISGSR) 2015*, Rotterdam, The Netherlands
- 2015 Track Chair: Extreme Events, in *Role of Probabilistic Methods in Geotechnical Sustainability*, 2015 International Foundation Conference and Equipment Exposition (IFCEE), ASCE-ADSC-DFI-PDCA, San Antonio, TX
- 2015 Session Co-Chair: *Role of Performance Monitoring and Numerical Methods in Geosynthetic Reinforced Structures*, Geosynthetics 2015, Portland, OR
- 2014 Session Moderator, Pipelines 2014, "From Underground to the Forefront of Innovation and Sustainability," ASCE, Portland, OR
- 2014 Session Co-Chair: *Role of Probabilistic Methods in Geotechnical Sustainability*, ASCE GeoCongress 2014, Geo-Characterization and Modeling for Sustainability, Atlanta, GA
- 2014 Session Co-Chair: 4th International Symposium on Geotechnical Safety and Risk, Hong Kong University of Science and Technology, Hong Kong
- 2014 Session Chair: 1st International Geotechnical Symposium on Helical Foundations, University of Massachusetts, Amherst, MA
- 2013 Session Co-Chair: *Sound Geotechnical Research to Practice*, Geotechnical Special Publication No. 230, Honoring Robert D. Holtz II, ASCE
- 2011 Session Chair: *No-Dig 2011*, 20th Annual Meeting of the North American Society for Trenchless Technology, Washington, D.C.

### **Peer Review**

#### **Journals:**

**150 Reviews for 24 Journals since 2009 (last updated in 2016)**

- 2009 – Present *ASCE Journal of Geotechnical and Geoenvironmental Engineering*  
To-date: 78 assignments as reviewer; 55 managed as Associate Editor
- 2009 – Present *ASCE Journal of Performance of Constructed Facilities*  
To-date: 6 assignments
- 2010 – Present *ASTM Journal of Testing and Evaluation*  
To-date: 1 assignment
- 2010 – Present *Canadian Geotechnical Journal*  
To-date: 5 assignments
- 2011 – Present *Journal of the Transportation Research Board*  
To-date: 2 assignments
- 2011 – Present *GeoRisk: Assess. & Mgmt. of Risk for Engr. Sys. & Geohaz.*,  
To-date: 6 assignments as reviewer; 2 managed as Associate Editor
- 2012 – Present *Journal of Geotechnical and Geological Engineering*, Springer  
To-date: 2 assignments
- 2013 – Present *Computers and Geotechnics*, Elsevier  
To-date: 9 assignments
- 2013 – Present *Int. J. for Numerical and Analytical Methods in Geomechanics*, Wiley  
To-date: 1 assignment
- 2013 – Present *Soils and Foundations*, Japanese Geotechnical Society  
To-date: 12 assignments
- 2013 – Present *Geomechanics and Geoengineering*  
To-date: 3 assignments
- 2013 – Present *Ground Improvement*, Institute of Civil Engineers, Thomas Telford Press, UK  
To-date: 2 assignments

2014 – Present	<i>ASCE Journal of Infrastructure Systems Engineering</i> To-date: 1 assignment
2014 – Present	<i>ASTM Geotechnical Testing Journal</i> To-date: 4 assignments
2014 – Present	<i>Journal of the Deep Foundations Institute</i> To-date: 4 assignments
2014 – Present	<i>ASTM Journal of Advances in Civil Engineering Materials</i> To-date: 1 assignment
2015 – Present	<i>Geotechnique</i> To-date: 2 assignments
2015 – Present	<i>Bulletin of Engineering Geology and the Environment</i> To-date: 2 assignments
2015 – Present	<i>Geotextiles and Geomembranes</i> To-date: 1 assignment
2015 – Present	<i>Bulletin of Engineering Geology and the Environment</i> To-date: 2 assignments
2015 – Present	<i>ASCE J. of Computing in Civil Engineering</i> To-date: 2 assignments
2016 – Present	<i>Geosynthetics International</i> To-date: 1 assignment
2016 – Present	<i>Acta Geotechnica</i> To-date: 2 assignment
2016 – Present	<i>Soil Dynamics and Earthquake Engineering</i> To-date: 2 assignments
2016 – Present	<i>Earthquake Spectra</i> To-date: 1 assignment

**Conference Proceedings and Geotechnical Special Publications**

2018	<i>International Foundation Conference and Equipment Exposition (IFCEE), ASCE-ADSC-DFI-PDCA, Orlando, FL</i>
2017	<i>Piled Foundations &amp; Ground Improvement Technology For the Modern Building and Infrastructure Sector, Deep Foundations Institute, 21-22 March 2017, Melbourne, Australia</i>
2017	<i>GeoRisk 2017 (6<sup>th</sup> ISGSR), ASCE, Denver, CO</i>
2016	<i>GeoFrontiers 2017, ASCE, Orlando, FL</i>
2015	<i>Geo-Chicago 2016: Sustainability, Energy, and the Geoenvironment, ASCE, Chicago, IL</i>
2015	<i>6<sup>th</sup> International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand</i>
2015	<i>40<sup>th</sup> Annual DFI Meeting, Oakland, CA</i>
2015	<i>African Regional Conference on Soil Mechanics and Geotechnical Engineering, ISSMGE, Hammamet, Tunisia</i>
2015	<i>Fifth International Symposium on Geotechnical Safety and Risk (ISGSR) 2015, Rotterdam, The Netherlands</i>
2015	<i>Deep Mixing 2015, Deep Foundations Institute, San Francisco, CA</i>
2015	<i>12th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP12, Vancouver, Canada</i>
2015	<i>Geosynthetics 2015, International Fabrics Association International, Portland, OR</i>
2015	<i>IFCEE 2015, International Foundation Conference and Engineering Expo, Joint Meeting of the ASCE Geo-Institute, Deep Foundations Institute, and Association of Drilled Shaft Contractors, San Antonio, TX</i>

- 2014 *Pipelines 2014, From Underground to the Forefront of Innovation and Sustainability*, ASCE, Portland, OR
- 2014 10<sup>th</sup> US National Conference on Earthquake Engineering (10NCEE), *Frontiers of Earthquake Engineering*, EERI, Anchorage, AK
- 2013 – 2014 GeoCongress 2014, *Geo-Characterization and Modeling for Sustainability Stability and Performance of Slopes and Embankments III*
- 2012 *Geosynthetics 2013*, April 1 – 4, 2013, Long Beach, CA
- 2011 – 2012 *Sound Geotechnical Research to Practice*, Geotechnical Special Publication Honoring Robert D. Holtz, ASCE
- 2009 *Art of Foundation Engineering Practice*, Geotechnical Special Publication Honoring Clyde Baker, ASCE
- 2009 *GeoFlorida 2010*, Geotechnical Special Publication No. 199, ASCE
- 2009 *9<sup>th</sup> Int. Conf. on Geosynthetics*, February 25-27 2009, Salt Lake City, UT

#### **Textbooks**

- 2015 McGraw Hill, Inc., New York, NY, Publisher
- 2013 American Society of Civil Engineers, Reston, VA, Publisher
- 2011 John Wiley & Sons, Inc., New York, NY, Publisher

#### **Proposals**

- 2015 Natural Sciences and Engineering Research Council of Canada
- 2014 Ad-hoc Proposal Review, National Science Foundation, May 2014
- 2014 McIntire-Stennis Proposal for U.S. Department of Agriculture, January 2014
- 2011 – 2013 Qatar National Research Fund, Doha, Qatar

#### **Professional Membership and Service**

- 2016 – Present Member, Deep Foundations Institute Committee on Ground Improvement
- 2016 Contributing Author, “Commentary Guidelines for Ground Improvement using Discrete Elements”, Ad-Hoc Ground Improvement Committee of the Seattle Section Geotechnical Group of ASCE and City of Seattle Department of Construction and Inspections; approved by the Board on 12 October 2016
- 2014 – Present Corresponding Member, Int. Society of Soil Mechanics and Geotechnical Engineering Committee TC304 Engineering Practice of Risk Assessment and Management
- 2012 – Present Member, ASCE Geo-Institute Committee on Risk Assessment and Management
- 2011 – Present Webmaster and member, ASCE Geo-Institute Committee on Soil Improvement
- 2008 – Present Member, ASCE Geo-Institute Committee on Soil Improvement
- 2001 – Present Member, American Society of Civil Engineers (ASCE)
- 2006 – 2007, 2011 – Present, Member, Earthquake Engineering Research Institute (EERI)
- 2008 – Present Member, Geotechnical Safety Network (GEOSNet)
- 2009 – Present United States Universities Council on Geotechnical Education and Research (USUCGER)
- 2010 – Present Geo-Engineering Extreme Events Reconnaissance (GEER)
- 2011 – 2014 North American Society for Trenchless Technology (NASTT)
- 2004 – 2005 Student Coordinator, Spring Seminar of the ASCE Geotechnical Seattle Section
- 2003 – 2004 Vice President, Geo-Institute Graduate Student Society (GIGSS), University of Washington Chapter

#### **University Service**

2010 – present	Faculty Advisor, Geo-Institute Graduate Student Organization, ASCE
2016 – 2017	Chair, School of CCE Water Resources / Coastal and Ocean Engineering Search Committee
2016 – 2017	School of CCE Graduate Committee
2016	Oregon State University, Cascades Campus, Campus Development Committee, Bend, OR
2016	Oregon State University, Architecture/Engineering Firm Selection Committee, Marine Science Center Building, Newport, OR
2015 – 2016	Chair, School of CCE, CEM Visualization Search Committee
2015 – 2016	Oregon State University, Architectural and Engineering Firm Selection Committee, Marine Science Instructional and Research Facility
2015 – 2016	School of CCE Ad-Hoc Committee to investigate formation of the Architectural Engineering Program
2013 – 2014	College of Engineering, Program Technician II Search Committee (4 Individual Rounds of Searches)
2013 – 2014	School of CCE Curriculum Committee
2012 – 2013	School of CCE Curriculum Committee
2011 – 2012	Department of Forest Engineering, Resources, and Management, College of Forestry, Geotechnical Faculty Search Committee
2011 – 2012	School of CCE Curriculum Committee
2011	School of CCE Ad-Hoc Academic Integrity Committee
2010 – 2011	School of CCE Geotechnical Faculty Search Committee
2010 – 2011	School of CCE Graduate Committee
2010	School of CCE Ad-Hoc Academic Integrity Committee
2009 – 2010	School of CCE Graduate Committee

## Other Scholarly Activity

### ***Invited Lectures and Presentations***

1. ***Opening Plenary Lecture:*** “*Driven Displacement Pile Ground Improvement for Liquefaction Mitigation,*” SuperPile 2017, Deep Foundations Institute, San Diego, 15 June, 2017
2. ***Keynote Lecture:*** “*Effect of Spatial Variability on Static and Liquefaction-induced Differential Settlements,*” GeoRisk 2017 (6<sup>th</sup> ISGSR), ASCE, Denver, CO, 4 – 6 June, 2017
3. “*Developments in the Axial, Lateral, and Torsional Response of Drilled Shaft Foundations,*” University of South Florida, Tampa, FL, 24 May, 2017
4. “*Reliability-based Serviceability Limit State Procedures for Foundation Engineering,*” ASCE Geo-Institute Chapter of Tampa, Tampa, FL, 25 May, 2017
5. “*Update on Progress: ODOT-ADSC Drilled Shaft Study,*” West Coast Chapter Annual Meeting, San Diego, 19 May, 2017
6. “*Recent Developments in the Axial, Lateral, and Torsional Response of Drilled Shaft Foundations,*” Annual Kansas City Geotechnical Conference 2017, Overland Park, KS, 20 April, 2017
7. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” Vancouver Geotechnical Society, Vancouver, BC, September 14, 2016
8. “*Torsional Load Transfer of Drilled Shaft Foundations,*” Seminar, University of British Columbia, Vancouver, BC, September 13, 2016
9. “*Engineering of Pipe Ramming Installations,*” City University of Hong Kong, Hong Kong, August 10, 2016

10. **Keynote Lecture:** “*Sustainable Liquefaction Mitigation: Driven Timber Displacement Piles,*” 1st International Symposium on Soil Dynamics and Geotechnical Sustainability, Hong Kong University of Science and Technology, Hong Kong, August 9, 2016
11. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” Innovations in Deep Foundations, 33rd Annual Spring Seminar, ASCE Seattle Section Geotechnical Group, Seattle, WA, April 2, 2016
12. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” 7th Driven Pile Technical Seminar, South Carolina Chapter of the PDCA, Charleston, SC, March 31, 2016.
13. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” CH2M, Corvallis, OR January 4, 2016
14. “*Drained Timber Pile Ground Improvement for Liquefaction Mitigation,*” The National Academy of Science, Beckman Center, Irvine, CA December 9, 2015
15. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” University of California, Los Angeles, CA December 8, 2015
16. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” ASCE Portland Geotechnical Group Dinner Meeting, Lake Oswego, OR December 2, 2015
17. “*Seismic Considerations for Stone Columns and Aggregate Piers,*” Hart Crowser, Inc., Beaverton, OR December 2, 2015
18. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” Korea University, Seoul, South Korea October 21, 2015
19. “*Trenchless Culvert and Pipeline Construction: Engineering of Pipe Ramming Installations,*” Korea Advanced Institute of Science and Technology, Daejon, South Korea October 21, 2015
20. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” Korea Maritime and Ocean University, Busan, South Korea October 20, 2015
21. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” 16<sup>th</sup> Annual Design and Installation of Cost-Efficient Piles Conference, Pile Driving Contractors Association, Newark, NJ; September 3, 2015
22. “*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,*” 40<sup>th</sup> NW Geotechnical Workshop, Federal Highway Administration, Gleneden Beach, OR; August 4, 2015
23. “*Stone Column Ground Improvement: Recent Developments for Static and Seismic Considerations,*” University of California, San Diego, CA May 18, 2015
24. “*Static and Seismic Considerations of Aggregate Pier Reinforced Ground,*” Geotechnical Resources, Inc. (GRI), Beaverton, OR, October 16, 2014
25. “*Analysis and Design of Pipe Ramming Installations,*” City of Portland, Portland, OR June 26, 2014
26. “*Behavior of Aggregate Pier Reinforced Ground: Static and Seismic Considerations,*” Geobang 2014, International Gathering of CH2M Hill Geotechnical Engineers, Portland, OR May 3, 2014
27. “*Analysis and Design of Pipe Ramming Installations,*” Geobang 2014, International Gathering of CH2M Hill Geotechnical Engineers, Portland, OR May 3, 2014

28. “*An Introduction to the Geotechnical Engineering Program at Oregon State University,*” Geobang 2014, International Gathering of CH2M Hill Geotechnical Engineers, Portland, OR May 3, 2014
29. “*Performance of Tall Mechanically Stabilized Earth Walls,*” Geotechnical Seminar Series, University of Colorado, Boulder, CO, April 16, 2014.
30. “*Performance of Tall MSE Walls,*” National Chiao Tung University, Hsinchu, Taiwan, December 2, 2013.
31. “*Factors Affecting Reliability-Based Serviceability Limit State Design Of Augered Cast-In-Place Piles In Cohesionless Soils,*” 38<sup>th</sup> Annual Conference on Deep Foundations, Phoenix, Arizona, September 26-28, 2013.
32. “*Characterization of Model Uncertainty in Immediate Settlement Calculations for Spread Footings on Clays,*” 18<sup>th</sup> Int. Conf. Soil Mech. and Geotech. Engrg., Paris, France, September 2-6, 2013.
33. “*Reliability-based Ultimate and Serviceability Limit State Design of Augered Cast-in-Place Piles for Granular Soils,*” Superpile 2013, Deep Foundations Institute, Minneapolis, MN, May 16<sup>th</sup>, 2013.
34. “*Analysis and Design of Pipe Ramming Installations,*” 2013 Trenchless Symposium, Pacific Northwest Chapter of NASTT, SeaTac, WA, January 24<sup>th</sup>, 2013.
35. “*Reliability-based Design of Augered Cast-In-Place Piles in Granular Soils,*” ASCE Portland Geotechnical Group, Lake Oswego, OR, November 7<sup>th</sup>, 2012.
36. “*Reliability-based Design of Augered Cast-In-Place Piles in Uplift for Granular Soils,*” Role of Full-Scale Testing in Foundation Design, Symposium Honoring Bengt Fellenius, 2012 GeoCongress, Oakland, CA. March 26, 2012.
37. “*Innovations in Civil Infrastructure Construction: Pipe Ramming and Tall MSE Walls,*” 2012 Granite Construction Company, Annual Construction Operations Meeting, Reno, NV. March 19, 2012.
38. “*Geotechnical Applications of EPS Geofom,*” Portland State University, Portland, OR. November 2, 2010.
39. “*Factors Affecting the Development of MSE Wall Reinforcement Strain,*” Earth Retention 2010, American Society of Civil Engineers (ASCE), Bellevue, WA. August 2, 2010.
40. “*Instrumentation and Performance of the 3rd Runway MSE Walls, Sea-Tac International Airport,*” ASCE Portland Geotechnical Group, Lake Oswego, OR. October 7, 2009.
41. “*Instrumentation and Performance of the 3rd Runway MSE Walls, Sea-Tac International Airport,*” ASCE Seattle Geotechnical Group, Seattle, WA. April 24, 2008.
42. “*Options for Soft Ground,*” Soft Ground Engineering, 24th Annual Spring Seminar, ASCE Seattle Geotechnical Group, Seattle, WA. May 20, 2006.

#### **Contributed Lectures and Presentations**

43. “*Simplified Modeling of Driven Displacement Pile-Improved Ground Subjected to Controlled Blasting,*” Performance-Based Design III, Vancouver, BC, 16 to 19 July, 2017
44. “*CPT-based Random Field Model Parameters for Liquefiable Silty Sands,*” GeoRisk 2017, Boulder, CO, 4 to 6 June, 2017
45. “*Impact of Resistance Distribution Selection on Foundation Reliability in Consideration of Lower-Bound Limits,*” GeoRisk 2017, Boulder, CO, 4 to 6 June, 2017, Given by Seth Reddy, PhD

46. "Role of Lower Bound Capacity and Shear Strength Anisotropy on Probabilistic Bearing Capacity of Plastic Fine-grained Soils," GeoRisk 2017, Boulder, CO, 4 to 6 June, 2017
47. "Performance Assessment of Laterally-Loaded Normal and High Strength Steel-Reinforced Drilled Shafts using 1-D and 3-D Numerical Methods," 16<sup>th</sup> World Conference on Earthquake Engineering, Santiago, Chile, January 9 -13. Given by Anne Lemnitzer, PhD
48. "Permanently Cased Drilled Shafts," Webinar with Skyline Steel, 16 November 2016.
49. "Comparison of Non-Destructive Integrity Tests on Experimental Drilled Shafts," 41<sup>st</sup> Annual Meeting, Deep Foundations Institute, New York, New York, October 12-15, 2016.
50. "Time-Rate Variation of Shear Wave Velocity (Site Stiffness) Following Blast-Induced Liquefaction," GeoChicago: Sustainability, Energy, and the Geoenvironment, ASCE, Chicago, IL, August 14-16, 2016
51. "Geotechnical Advances in Infrastructure Resilience," 1st Annual Cascadia Resilience Engineering Short Course, School of Civil and Construction Engineering, Oregon State University, Corvallis, OR, July 14, 2016
52. "Geologic Setting and Subsurface Conditions at the Demonstration Site," NHERI@UTexas In-Situ Liquefaction Workshop Schedule, Portland, OR, June 23, 2016
53. "Full Scale Response and Numerical Simulation of Traffic Sign and Signal Foundations Subjected to Torsional (Wind) Loading," 2016 ADSC Faculty Workshop, Chattanooga, TN, June 8, 2016
54. "Ground Improvement and Liquefaction Mitigation using Driven Timber Piles," Recent Advances in Soil Stabilization for Slopes and Embankments, Portland, OR, May 5, 2016.
55. "Full Scale Response and Numerical Simulation of Traffic Sign and Signal Foundations Subjected to Torsional (Wind) Loading," 2016 Northwest Transportation Conference, Corvallis, OR, March 16, 2016
56. "Field Assessment of Conventional and Drained Timber Piles for Liquefaction Mitigation using Blasting Techniques," Geo-Structures 2016, Geotechnical & Structural Engineering Congress, Phoenix, AZ, February 14-17, 2016 [Given by T. Gianella]
57. "Effects of Ground Improvement on Seismic Site Response," Geo-Structures 2016, Geotechnical & Structural Engineering Congress, Phoenix, AZ, February 14-17, 2016
58. "Simulation Framework for Reliability-based Serviceability Assessments of Multi-story Steel-framed Structures Supported on Spatially-variable Soil," Geo-Structures 2016, Geotechnical & Structural Engineering Congress, Phoenix, AZ, February 14-17, 2016
59. "Densification of Liquefiable Soils using Driven Timber Piles," 6<sup>th</sup> ICEGE, Christchurch, New Zealand, November 3, 2015
60. "Assessment of Reliability-based Serviceability Limit State Procedures using Full-Scale Loading Tests," 5<sup>th</sup> ISGSR, Rotterdam, The Netherlands, October 15, 2015
61. "Effect of Correlation Structure Model on Geotechnical Reliability-based Serviceability Limit State Simulations," ICASP12, Vancouver, British Columbia; July 13, 2015
62. "Shear Wave Velocity Measurements of Stone Column Improved Ground and Effect on Site Response," IFCEE 2015, San Antonio, TX, March 17-21, 2015
63. "Region-specific Load Transfer Model for Augered Cast-in-Place Piles in Granular Soils," IFCEE 2015, San Antonio, TX, March 17-21, 2015
64. "Field Measurements of Pipe Ramming-Induced Ground Vibrations," ASCE Pipelines 2014, Portland, OR August 3 - 6, 2014.

65. "Drivability of an Instrumented 2,440-mm Diameter Rammed Pipe," No-Dig 2014, Annual Meeting of the North American Society for Trenchless Technology, Orlando, FL, April 13-17, 2014.
66. "Effect of Slenderness Ratio on the Reliability-Based Serviceability Limit State Design Of Augered Cast-In-Place Piles," 4<sup>th</sup> International Symposium on Geotechnical Safety and Risk, Hong Kong University of Science and Technology, Hong Kong, December 4-6, 2013
67. "Stochastic Simulation of Uplift Load-Displacement Behavior of Helical Anchors in Clays," 1<sup>st</sup> International Geotechnical Symposium on Helical Foundations, Amherst, Massachusetts, August 8 – 10, 2013.
68. "Hammer-Pipe Energy Transfer Efficiency for Pipe Ramming," No-Dig 2013, Annual Meeting of the North American Society for Trenchless Technology, Sacramento, CA, March 3-7, 2013.
69. "Random Field Modeling of Columbia River Silt," GeoRisk 2011, Geo-Institute, ASCE, Atlanta, GA, June 26-28, 2011
70. "Performance of an Instrumented Pipe Ramming Installation," No-Dig 2011, North American Society for Trenchless Technology, Washington D.C., March 27-31, 2011. Given by Tadesse Meskele.
71. "Bearing Capacity of Spread Footings on Aggregate Pier Reinforced Clay," U.S.-Japan Symposium on Blast-induced Liquefaction, Oregon State University, Corvallis, OR. Sept. 24-25, 2009.
72. "Statistical Analyses of Aggregate Pier Load Tests," 2nd U.S.-Japan Workshop on Ground Improvement, Geotechnical Earthquake Engineering and Soil Dynamics IV, ASCE, Sacramento, CA. May 16, 2008.
73. "Instrumentation and Performance of the Third Runway North MSE Wall, Seattle-Tacoma International Airport," Field Measurements in Geomechanics 2007, ASCE, Boston, September 25, 2007.
74. "EPS Geofam as Bridge Foundation," EPS Geofam 2002 Workshop, North American Geosynthetics Society, Past Presidents Seminar on Geofam in Highway and Bridge Applications, Syracuse, NY, May 15, 2002.
75. "Geofam Research Center and EPS Geofam Properties, Applications, and Modeling," Bridge Materials: What's New and What Works, Association for Bridge Construction and Design, 14th Annual Fall Bridge Conference, Cheektowanga, NY November 15, 2002.
76. "Buffalo Road over Oatka Creek Bridge Replacement – A Unique Application of Lightweight Fill," 62nd Conference of the New York State Association of Transportation Engineers, Rochester, NY, May 9, 2002.
77. "EPS Geofam in Highway Construction," New York State Engineering Technicians Associations, NYSETA Fall 2002 Conference, SUNY Morrisville, Morrisville, NY, October 24, 2002.
78. "Performance of A Geofam Embankment At 100 South, I-15 Reconstruction Project, Salt Lake City, UT," EPS 2001, 3rd International Conference on Geofam, Salt Lake City, December 12, 2001

#### **International / National / Regional Conferences and Seminars Organized**

1. International Foundation Conference and Equipment Exposition (IFCEE), ASCE-ADSC-DFI-PDCA, Orlando, FL, 5 to 10 March, 2018
2. GeoRisk 2017 (6<sup>th</sup> ISGSR), ASCE, Denver, CO, June 4-6, 2017

3. Recent Advances in Soil Stabilization for Slopes and Embankments, Sponsored by Oregon State University School of Civil and Construction Engineering, Fundraiser for the OSU Geo-Institute Graduate Student Organization, Portland, OR, 5 May 2016.
4. Advances in Geotechnical Earthquake Engineering, Sponsored by Oregon State University School of Civil and Construction Engineering, Fundraiser for the OSU Geo-Institute Graduate Student Organization, Corvallis, OR, March 22<sup>nd</sup> – 23<sup>rd</sup>, 2013.
5. Ground Improvement Seminar, Sponsored by Oregon State University School of Civil and Construction Engineering, Fundraiser for the OSU Geo-Institute Graduate Student Organization, Corvallis, OR, January 15, 2011.
6. Basics of Design of Pile Foundations, Sponsored by Oregon State University School of Civil and Construction Engineering, Corvallis, OR, May 20 – 21, 2010.

### ***Conferences and Seminars Attended***

1. Performance-Based Design III, Vancouver, BC, 16 to 19 July, 2017
2. SuperPile 2017, Deep Foundations Institute, San Diego, CA, 14 to 15 June, 2017
3. Annual Meeting of the ADSC West Coast Chapter, San Diego, CA, 18 to 20 May, 2017
4. GeoRisk 2017, Boulder, CO, 4 to 6 June, 2017
5. Annual Kansas City Geotechnical Conference 2017, Overland Park, KS, 20 April, 2017
6. GeoFrontiers 2018, Orlando, FL, 12 to 15 March, 2017
7. 69<sup>th</sup> Annual Meeting of the Earthquake Engineering Research Institute, Portland, OR, 7 to 10 March 2017
8. U.S. – New Zealand – Japan International Workshop, “Liquefaction-induced Ground Movements Effects,” UC Berkeley, CA, 2-4 November, 2016
9. 41<sup>st</sup> Annual Meeting of the Deep Foundations Institute, New York, New York, October 12-15, 2016.
10. 1<sup>st</sup> International Symposium on Soil Dynamics and Geotechnical Sustainability, Hong Kong University of Science and Technology, Hong Kong, August 7-9, 2016
11. Geo-Structures 2016, Geotechnical & Structural Engineering Congress, Phoenix, AZ, February 14-17, 2016
12. 2016 Northwest Transportation Conference, Corvallis, OR, March 16, 2016
13. 6<sup>th</sup> ICEGE, International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, November 1 - 4, 2015
14. 5<sup>th</sup> ISGSR, International Symposium on Geotechnical Safety and Risk, Rotterdam, The Netherlands, October 13 - 16, 2015
15. 16<sup>th</sup> Annual Design and Installation of Cost-Efficient Piles Conference, Pile Driving Contractors Association, Newark, NJ; September 2 - 3, 2015
16. 40<sup>th</sup> Northwest Geotechnical Workshop, Federal Highway Administration, Gleneden Beach, OR, August 3 – 5, 2015
17. 12th International Conference on Applications of Statistics and Probability in Civil Engineering, Vancouver, Canada, July 12-15, 2015
18. IFCEE 2015, International Foundation Congress and Equipment Expo, San Antonio, TX, March 17-21, 2015

19. Geotechnical Frontiers – Geosynthetics 2015, Portland, OR, February 16 – 18, 2015.
20. 39<sup>th</sup> Annual Meeting of the Deep Foundations Institute, Atlanta, GA, October 21-24, 2014.
21. ASCE Pipelines 2014, Portland, OR, August 3 - 6, 2014.
22. 10<sup>th</sup> U.S. National Conference on Earthquake Engineering, Anchorage, AK, July 21-24, 2014.
23. Cascadia Co-Seismic Landslide Workshop, sponsored by the Oregon Department of Geology and Minerals Industries (DOGAMI), Portland, OR, June 25, 2014.
24. No-Dig 2014, Annual Meeting of the North American Society for Trenchless Technology, Orlando, FL, “Drivability of an Instrumented 2,440-mm Diameter Rammed Pipe,” April 13-17, 2014.
25. GeoCongress 2014: Geo-Characterization and Modeling for Sustainability, Annual Meeting of the Geo-Institute, American Society of Civil Engineers (ASCE), Atlanta, GA, February 23-26, 2014.
26. Design, Analysis, and Research Related to Highly Nonlinear Soil Structure Interaction Including Rocking Foundations, Workshop sponsored by the National Science Foundation (NSF) and the Pacific Earthquake Engineering Research Institute (PEER), Oakland, CA, June 7-8, 2013.
27. 4<sup>th</sup> International Symposium on Geotechnical Safety and Risk, Hong Kong University of Science and Technology, Hong Kong, December 4-6, 2013
28. 38<sup>th</sup> Annual Conference on Deep Foundations, Deep Foundations Institute, Phoenix, AZ, September 26-28, 2013.
29. 18<sup>th</sup> International Conference on Soil Mechanics and Geotechnical Engineering, Paris, France, September 2-6, 2013.
30. 1<sup>st</sup> International Geotechnical Symposium on Helical Foundations, Amherst, Massachusetts, August 8 – 10, 2013
31. Superpile 2013, Deep Foundations Institute, Minneapolis, MN, May 15-16, 2013.
32. No-Dig 2013, Annual Meeting of the North American Society for Trenchless Technology, Sacramento, CA, March 3-7, 2013.
33. Geo-Congress 2013: Stability and Performance of Slopes and Embankments III, Annual Meeting of the Geo-Institute, American Society of Civil Engineers (ASCE), San Diego, CA, March 3-6, 2013.
34. EERI 2013: Building Resilient Communities through Policy and Mitigation, Annual Meeting of the Earthquake Engineering Research Institute, Seattle, WA, February 12-15, 2013.
35. 2013 Trenchless Symposium, Pacific Northwest Chapter of the NASTT, North American Society for Trenchless Technology, SeaTac, WA, January 24<sup>th</sup>, 2013.
36. Cascadia Subduction Zone Earthquakes and Critical Infrastructure, sponsored by the U.S. Bureau of Reclamation, Corvallis, OR, July 18-19, 2012.
37. Geo-Congress 2012: State of the Art and Practice in Geotechnical Engineering, Annual Meeting of the Geo-Institute, American Society of Civil Engineers (ASCE), Oakland, CA, March 25-29, 2012.
38. Post-Earthquake Reconnaissance Workshop - Sponsored by the San Francisco Geo-Institute Chapter, Geotechnical Extreme Events Reconnaissance Association, Pacific Earthquake Engineering Research Center, and the Earthquake Engineering Research Institute, , Oakland, CA, October 21, 2011.

39. GeoRisk 2011: Geotechnical Risk Assessment and Management, Geo-Institute, American Society of Civil Engineers (ASCE), Atlanta, GA, June 26-28, 2011
40. Geo-Congress 2011: GeoFrontiers 2011 - Advances in Geotechnical Engineering, Annual Meeting of the Geo-Institute, American Society of Civil Engineers (ASCE), Dallas, TX, March 13-16, 2011.
41. No-Dig 2011, Annual Meeting of the North American Society for Trenchless Technology, Washington, D.C., March 27-31, 2011.
42. Quake Summit 2010, Annual combined meeting of the Network for Earthquake Engineering Simulation (NEES) and the Pacific Earthquake Engineering Research Center (PEER), San Francisco, CA, October 8 – 9, 2010.
43. Earth Retention 2010, Geo-Institute, American Society of Civil Engineers (ASCE), Bellevue, WA, August 1 – 3, 2010.
44. GeoFlorida 2010, Annual Meeting of the Geo-Institute, American Society of Civil Engineers (ASCE), Miami Beach, FL, February 21 – 24, 2010.
45. Adaptive Solutions for Changed Project Conditions, Helical Anchors and Tiebacks Seminar, Deep Foundations Institute, Las Vegas, NV, February 1, 2010.
46. U.S.-Japan Symposium on Blast-induced Liquefaction, Oregon State University, Corvallis, OR. Sept. 24-25, 2009.
47. Soil Liquefaction During Earthquakes, EERI Seminar Series, Seattle, WA. March 19, 2009.
48. 6th International Conference on Case Histories in Geotechnical Engineering (6ICCHGE), Washington D.C., August 11-16, 2008.
49. 2nd U.S.-Japan Workshop on Ground Improvement, Part of: Geotechnical Earthquake Engineering and Soil Dynamics IV (GEESDIV), ASCE, Sacramento, CA. May 16-17, 2008.
50. Development and Risk in Landslide Sensitive Areas, 25<sup>th</sup> Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, April 5, 2008.
51. Field Measurements in Geomechanics 2007 (FMGM 2007), ASCE, Boston, MA, September 24-27, 2007.
52. Dynamic Analyses for Modeling Soil and Soil-Structure Systems Subjected to Earthquake Shaking, Vancouver Section, Canadian Geotechnical Society, University of British Columbia, Vancouver, B.C., June 4 - 5, 2007.
53. Honorary Technical Symposium for Robert Holtz, 24<sup>st</sup> Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, April 21, 2007.
54. 7<sup>th</sup> Annual ADSC / WSDOT Joint Training Constructability Workshop, Drilled Shafts, Bothell, WA, March 29, 2007.
55. Basics of Design of Piled Foundations, Short Course and Seminar by Bengt Fellenius, Seattle, WA, December 8 - 9, 2006.
56. Soft Ground Engineering, 23<sup>rd</sup> Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, May 20, 2006.
57. 100<sup>th</sup> Anniversary Earthquake Conference / 8<sup>th</sup> U.S. National Conference on Earthquake Engineering (8NCEE), EERI / SSA, San Francisco, CA, April 18-22, 2006.
58. Tunneling in the Pacific Northwest, 22<sup>nd</sup> Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, March 12, 2005.
59. Advances in Ground Improvement, 21<sup>st</sup> Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, April 3, 2004.
60. Ground Modification and Alternative Deep Foundations Seminar, Hayward Baker Inc., Syracuse, NY, April 8, 2003.

- 61. EPS 2001, 3rd International Conference on Geofoam, Salt Lake City, UT, December 11-13, 2001
- 62. Huntsman Chemical Geofoam Seminar, Salt Lake City, UT, 2000, May 16, 2000.

**Teaching and Education**

***Oregon State University, Fall 2009 – current***

<b>Course</b>	<b>Quarter</b>	<b>No. of Students</b>	<b>Title</b>
CE 471/571	Fall 2009	35 / 13	Foundations for Structures
CE 372	Winter 2010	116	Geotechnical Engineering I
CE 571	Fall 2010	22	Adv. Foundation Engineering
CE 372	Winter 2011	114	Geotechnical Engineering I
CE 575	Spring 2011	15	Earth Retention and Support
CE 571	Fall 2011	24	Adv. Foundation Engineering
CE 372	Winter 2012	118	Geotechnical Engineering I
CE 575	Spring 2012	18	Earth Retention and Support
CE 372	Winter 2013	135	Geotechnical Engineering I
CE 571	Winter 2013	15	Adv. Foundation Engineering
CE 575	Spring 2013	18	Earth Retention and Support
CE 372	Winter 2014	113	Geotechnical Engineering I
CE 571	Winter 2014	10	Adv. Foundation Engineering
CE 575	Spring 2014	10	Earth Retention and Support
CE 372	Winter 2015	137	Geotechnical Engineering I
CE 571	Winter 2015	22	Adv. Foundation Engineering
CE 575	Spring 2015	13	Earth Retention and Support
CE 372	Winter 2016	82	Geotechnical Engineering I
CE 571	Winter 2016	10	Adv. Foundation Engineering
CE 575	Spring 2016	7	Earth Retention and Support
CE 372	Spring 2016	39	Geotechnical Engineering I
CE 571	Winter 2017	9	Adv. Foundation Engineering
CE 372	Winter 2017	88	Geotechnical Engineering I
CE 576	Spring 2017	11	Ground Improvement
CE 372	Spring 2017	53	Geotechnical Engineering I

**Consulting Experience and Reports**

***Since Joining Oregon State University***

- Stuedlein, A.W. (2014) “Evaluation of Pipe Ramming Drivability, 3000 mm Diameter Steel Culverts, Caribbean Sea-Lagoon Connection Project, Cancun, Mexico,” Engineering Study, Prepared for SCCI Pilings of Tampa, FL.
- Stuedlein, A.W. (2013) “Geotechnical Review and Opinion, Assessment of Damage, Sea to Sky Hotel vs. Norson et al.,” Expert Engineering Study, Prepared for Shapiro, Hankinson, and Knutson Law Corporation, Vancouver, BC.
- Stuedlein, A.W. (2013) “Evaluation of Feasibility of Pipe Ramming Installation, Olympus Meadows Trunk Sewer Improvement Project, Alderwood Water and Wastewater District,” Engineering Study, Prepared for Staheli Trenchless Consultants, Bothell, WA.

Stuedlein, A.W. (2013) "Evaluation of Feasibility of Pipe Ramming Installation, 48-inch Steel Casing, Lift Station 46 Collection and Conveyance, Soos Creek Water and Sewer District," Engineering Study, Prepared for Staheli Trenchless Consultants, Bothell, WA.

***Prior to Joining Oregon State University***

Geotechnical Design Engineer, Shannon & Wilson, Inc., I-15 / Beck Street Crossing Design-Build Project, Salt Lake City, UT, October 2008 - 2009.

Geotechnical Design Engineer, Shannon & Wilson, Inc., East-West Connector Design-Build Project, Lehi, UT, October 2008 - 2009.

Geotechnical Design Engineer, Shannon & Wilson, Inc., Pre-Bid Design Work, I-15 / Beck Street Crossing Design-Build Project, Salt Lake City, UT, July 2008.

Geotechnical Design Reviewer, Shannon & Wilson, Inc., Shoring Design Review for Shoring Group, Seattle Department of Transportation, Seattle, Washington, March 2008 – present.

Geotechnical Design Engineer, Shannon & Wilson, Inc., Pier B and Quaywall 729, P-356 CVN Maintenance Pier Replacement, Naval Base Kitsap, Bremerton, Washington, August 2008 - present.

Geotechnical Design Reviewer, Shannon & Wilson, Inc., Geotechnical Design Review for Department of Planning and Development, City of Seattle, Seattle, Washington, March 2008 – present.

Geotechnical Design Engineer, Shannon & Wilson, Inc., "Geotechnical Report, Three Lakes Tank Replacement Project, Snohomish, Washington," July 2008.

Geotechnical Design Engineer, Shannon & Wilson, Inc., Pre-Bid Design Work, I-15 / Beck Street Crossing Design-Build Project, Salt Lake City, UT, July 2008.

Geotechnical Design Engineer, Shannon & Wilson, Inc., "Geotechnical Report, Evaluation of Settlement Along Berth Alpha, United States Coast Guard Integrated Support Command – Pier 36, Seattle, Washington," August 2008.

Geotechnical Design Engineer, Hart Crowser, Inc., "Geotechnical Engineering Design Study, Earley Business Center Development 3, Port of Tacoma, Tacoma, Washington," October 2007 – March 2008.

Geotechnical Design Engineer, Hart Crowser, Inc., "Geotechnical Engineering Baseline Study, Pier B and Quaywall 729, P-356 CVN Maintenance Pier Replacement, Naval Base Kitsap, Bremerton, Washington," October 2007.

Geotechnical Design Engineer, Hart Crowser, Inc., "Geotechnical Engineering Design Study, Douglas Wing Addition, Highline Medical Center, Burien, Washington," August 2007.

Geotechnical Instrumentation Engineer, Hart Crowser, Inc., "Augercast Pile Load Tests, I-5 / I-90 Development, Seattle, Washington," May 2007.

Geotechnical Field Engineer, Hart Crowser, Inc., "Geotechnical Recommendations, Upgrade to Paper Machine No. 2., Nippon Paper, Port Angeles, Washington," May 2007.

Geotechnical Design Engineer, Hart Crowser, Inc., "Geotechnical Engineering Design Study, Adams Avenue / Oregon Street Improvements, Sherwood, Oregon," April 2007.

Geotechnical Design Engineer, Hart Crowser, Inc., "Geotechnical Recommendations, Upgrade to Paper Machine No. 2., Nippon Paper, Port Angeles, Washington," March 2007.

Geotechnical Design Engineer, Hart Crowser, Inc., "Geotechnical Engineering Design Study, Terminal 30 Upgrade, Seattle, Washington," for the Port of Seattle, November 2006.

- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Amgen Bothell Campus, Bothell, Washington,” November 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Pier 91 Cruise Ship Terminal, Seattle, Washington,” September 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Lyman Lumber, Mint Farm Industrial Park, Longview, Washington,” July 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Amgen Campus Development – Pier 89, Seattle, Washington,” June 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Shoring Wall Design Calculations, Belcarra Apartments, Bellevue, Washington,” April 2006.
- Geotechnical Instrumentation Engineer, Hart Crowser, Inc., “I-405 Kirkland SR 520 to SR 522 Stage 1 Design-Build, Kirkland, Washington,” April 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Bremerton Maritime Heritage Museum, Bremerton, Washington,” April 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Proposed Additions to Redmond Public Safety Building, Redmond, Washington,” March 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Design Study, Proposed Membrane-Covered Structure, Terminal 3, Lots 26 and 27, Port of Vancouver, Washington,” February 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Second and Pine Tower Seismic Design, Seattle, Washington,” 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Site Characterization, Amgen Campus Development – Piers 88 and 89, Seattle, Washington,” January 2006.
- Geotechnical Field Engineer, Hart Crowser, Inc., Terminal 18 – North Apron Upgrade, June 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Proposed Additions to Temple Beth Am, Seattle, Washington,” February 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Apron Expansion and Infiltration Facilities, Fort Lewis, Washington,” July 2005.
- Geotechnical Field Engineer, Hart Crowser, Inc., Pier 59 Seismic Retrofit, July 2005 – April 2006.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study and Limited Environmental Sampling and Analysis, Proposed CVN Maintenance Facility, Puget Sound Naval Shipyard, Bremerton, Washington,” May 2005.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Study, Limited Area Production and Storage Complex, Strategic Weapons Facility, Pacific Naval Submarine Base, Bangor,” May 2005.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Design Recommendations, Wauna Mill Intake Structure,” for Georgia-Pacific Corp., May 2005.
- Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering and Hydrogeological Design Study, NEPL, SDN1, and SDS4 Stormwater Facilities – Phase 1, SeaTac, Washington,” March 2005.

Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Proposed Sierra Suites Hotel, Bellevue, Washington,” February 2005.

Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Engineering Design Study, Berth One Rehabilitation and Upgrade, Ketchikan, Alaska,” January 2005.

Geotechnical Instrumentation Engineer, Hart Crowser, Inc., “Third Runway Instrumentation Monitoring, Sea-Tac International Airport,” for the Port of Seattle. February-October, 2005.

Geotechnical Design Engineer, Hart Crowser, Inc., “Geotechnical Recommendations, WSDOT SR 31—Retaining Walls and Highway Widening, Metaline Falls, WA,” March 2005.

Geotechnical Design Engineer, Hart Crowser, Inc., “Proposed Equa Chlor Facility, Longview, Washington,” for the Weyerhaeuser Corp., December, 2004.

Geotechnical Field Engineer, Hart Crowser, Inc., WaMu / Seattle Art Museum Excavation and Tower, June 2004 – September 2004.