ARMIN W. STUEDLEIN, PhD, P.E. (WA), F.ASCE

Professor, Geotechnical Engineering

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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

2020 – present	**Professor**, School of Civil and Construction Engineering, Oregon State University
2025	**Erskine Visting Fellow**, Department of Civil and Environmental Engineering, University of Canterbury
2019 – 2022	**Affiliated Professor**, Department of Civil and Environmental Engineering, University of Washington
2015 – 2020	**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 Geofoam 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, December 16, 2009

Google Scholar Page

Awards and Honors

2025	Erskine Visiting Fellow, University of Canterbury
2024	Fredlund Award, Canadian Geotechnical Society
2024	Elected Fellow, American Society of Civil Engineers
2023	J. James R. Croes Medal, American Society of Civil Engineers
2023	Fredlund Award, Canadian Geotechnical Society
2020	Outstanding Reviewer Award, Canadian Geotechnical Journal
2019	Outstanding Reviewer Award, Canadian Geotechnical Journal
2018	Teaching Excellence Award, School of Civil and Construction Engineering, Oregon State University
2017	ASTM Award for Outstanding Article on the Practice of Geotechnical Testing
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 – 2015	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

Publications

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

1. Share, P.-E., Tréhu, A.M., **Stuedlein, A.W.**, Reinhard, H.R., Mordret, A., and Way, R.A.M. (2025). "Seismic Lessons from the Implosion of Reser Stadium's Western Stands and the Dense 177-node Corvallis Array." *Seismological Research Letters*, Vol. TBD, No. TBD, *Ahead of Print*. https://doi.org/10.1785/0220250098
2. Jana, A. and **Stuedlein, A.W.** (2025). "On the Excess Pore Pressure Generation and Liquefaction of Gravelly Soils." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 151, No. 12, 04025148. https://ascelibrary.org/doi/10.1061/JGGEFK.GTENG-13721
3. Alemu, B.E., **Stuedlein, A.W.**, Xu, Z., and Stokoe, K.H. (2025). "Normalized Shear Modulus and Material Damping Models for Transitional Silts with Application to the Pacific Northwest." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 151, No. 9, 04025091. https://ascelibrary.org/doi/10.1061/JGGEFK.GTENG-13261
4. Chen, G., Xiao, X., Wu, Q., Qin, Y., Gao, H., Xu, C., and **Stuedlein, A.W.** (2025). "New paradigm for sand liquefaction under cyclic loadings." *Engineering Geology*, Vol. 351, 108041. https://www.sciencedirect.com/science/article/abs/pii/S0013795225001371
5. Orozco-Herrera, J., Turkel, B., Arboleda-Monsalve, L.G., Gallant, A., **Stuedlein, A.W.** (2024). "Soil Arching Mechanisms Due to Excess Pore Pressure Dissipation Following Blast-Induced Liquefaction." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 150, No. 12, 04024120. https://ascelibrary.org/doi/full/10.1061/JGGEFK.GTENG-12600
6. Hu, J., Xiao, Y., Shi, J., **Stuedlein, A.W.**, Evans, T.M. (2024). "Small-Strain Shear Modulus and Liquefaction Resistance of Calcareous Sand with Non-Plastic Fines." *Geotechnique*, Vol. TBD, No. TBD. *Ahead of Print.* https://www.icevirtuallibrary.com/doi/abs/10.1680/jgeot.23.00199

7. Basu, D., Montgomery, J., and **Stuedlein, A.W.** (2023). "Post-Liquefaction Reconsolidation Settlement of a Soil Deposit Considering Spatially Variable Properties and Ground Motion Variability." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 150, No. 3, 04024001. https://ascelibrary.org/doi/full/10.1061/JGGEFK.GTENG-11768 f
8. Dadashiserej, A., Jana, A., **Stuedlein, A.W.**, Evans, T.M. (2024). "Cyclic Resistance Models for Transitional Silts with Application to Subduction Zone Earthquakes." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 150, No. 2, 04023135. https://ascelibrary.org/doi/10.1061/JGGEFK.GTENG-11671
Designated "Editor's Choice" for JGGE 150(2).
9. Gao, H.M., Sun, J., **Stuedlein, A.W.**, Li, S., Wang, Z., Liu, L., Zhang, X. (2024). "Flowability of Saturated Sands under Cyclic Loading and the Viscous Fluid Flow Failure Criterion for Liquefaction Triggering." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 150, No. 1, 04023130. https://ascelibrary.org/doi/10.1061/JGGEFK.GTENG-11872
10. Dadashiserej, A., Jana, A., Xu, Z., **Stuedlein, A.W.**, Evans, T.M., Stokoe II, K.H., Cox, B.R. (2023). "Dynamic Response of a Low Plasticity Silt Deposit: Comparison of In-situ and Laboratory Responses." *Canadian Geotechnical Journal*, Vol. TBD, No. TBD, *Ahead-of-Print:* https://cdnsciencepub.com/doi/abs/10.1139/cgj-2022-0579
11. Dadashiserej, A., Jana, A., **Stuedlein, A.W.**, Evans, T.M. (2023). "Effect of Overburden Stress and Plasticity on the Cyclic Resistance of Silts." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 149, No. 12, pp. 0602300. https://ascelibrary.org/doi/10.1061/JGGEFK.GTENG-11345
12. Xiao, Y., Cui, H., Shui, J., Qiao, W., **Stuedlein, A.W.** (2023). "Shear Response of Calcareous Sand-Steel Snake Skin-Inspired Interfaces." *Acta Geotechnica*, Vol. 19, pp. 1517–1527.
13. Yang, Y., Xin, G., Chen, Y., **Stuedlein, A.W.**, Wang, C. (2023). "Seismic Performance of Drained Piles in Layered Soils." *Materials*, Vol. 16, No. 17, 5868. https://www.mdpi.com/1996-1944/16/17/5868
14. Ma, G., He, X., Xiao, Y., Chu, J., Liu, H., **Stuedlein, A.W.**, and Evans, T.M. (2023). "Spatiotemporal Evolution of Biomineralization in Heterogeneous Pore Structure." *Canadian Geotechnical Journal*, Vol. 61, No. 3, pp. 447-468. https://doi.org/10.1139/cgj-2022-0496
15. Xiao, Y., Fang, Q., **Stuedlein, A.W.**, and Evans, T.M. (2023). "Effect of Particle Morphology on Strength of Glass Sands." *International Journal of Geomechanics*, Vol. 23, No. 8, 04023117. https://ascelibrary.org/doi/full/10.1061/IJGNAI.GMENG-8661
Designated "Editor's Choice" for IJG 23(8).
16. **Stuedlein, A.W.**, Jana, A., Dadashiserej, A., Xiao, Y. (2023). "On the In-situ Cyclic Resistance of Natural Sand and Silt Deposits." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 149, No. 4, 04023015. https://ascelibrary-org.oregonstate.idm.oclc.org/doi/10.1061/JGGEFK.GTENG-10784
17. Jana, A., Dadashiserej, A., Zhang, B., **Stuedlein, A.W.**, Evans, T.M., Stokoe II, K.H., Cox, B.R. (2023). "Multi-directional Vibroseis Shaking and Controlled Blasting to Determine the Dynamic In-Situ Response of a Low Plasticity Silt Deposit." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 149, No. 3, 04023006. https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002924
18. Gibson, M.D. and **Stuedlein, A.W.** (2022). "Observations on the Seismic Loading of Rigid Inclusions based on 3D Numerical Simulations." *Journal of the Deep Foundations Institute*, Vol. 16, No. 3, 1-22. https://dfi-journal.org/papers/?abstract=2022160203

19. Khosravi, A., Shrestha, S., **Stuedlein, A.W.**, Higgins, C.C. (2022). "Titanium Seismic Substructure Retrofit to Enable Rocking of Bridge Foundations Considering Soil-Structure Interaction: Experiments and Numerical Simulations." *Journal of Bridge Engineering*, Vol. 28, No. 2, pp. 04022143. https://ascelibrary.org/doi/full/10.1061/JBENF2.BEENG-5720
20. **Stuedlein, A.W.**, Dadashiserej, A., Jana, A., Evans, T.M. (2023). "Liquefaction Susceptibility and Cyclic Response of Intact Nonplastic and Plastic Silts." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 149, No. 1, 04022125. https://ascelibrary.org/doi/10.1061/%28ASCE%29GT.1943-5606.0002935
21. Guan, Z., Wang, Y., and **Stuedlein, A.W.** (2022). "Efficient Three-dimensional Soil Liquefaction Potential and Reconsolidation Settlement Assessment from Limited CPTs Considering Spatial Variability." *Soil Dynamics and Earthquake Engineering*, Vol. 163, 107518. https://www.sciencedirect.com/science/article/pii/S0267726122003633
22. Dadashiserej, A., Jana, A., **Stuedlein, A.W.**, Evans, T.M. (2022). "Effect of Strain History on the Monotonic and Cyclic Response of Natural and Reconstituted Silts." *Soil Dynamics and Earthquake Engineering*, Vol. 160, 107329. https://www.sciencedirect.com/science/article/abs/pii/S0267726122001786
23. Xiao, Y., He, X., **Stuedlein, A.W.**, Chu, J., Evans, T.M., van Paassen, L.A. (2022). "Visualization, Crystal Growth, and Distributions of MICP through Microfluidic Chip Tests." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 148, No. 5, 06022002. https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002756
24. **Stuedlein, A.W.**, Huffman, J.C., Barbosa, A.R., and Belejo, A.F.V. (2022). "Probabilistic Structural System Response to Differential Settlement Resulting from Spatially-Variable Soil." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 148, No. 2, 04021184. https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002735
    Merited the 2023 J. James R. Croes Medal among all publications in ASCE Journals.
25. Basu, D., Montgomery, J., and **Stuedlein, A.W.** (2022). "Observations and Challenges in Simulating Post-Liquefaction Settlements from Centrifuge and Shake Table Tests." *Soil Dynamics and Earthquake Engineering*, Vol. 153, 107089. https://www.sciencedirect.com/science/article/pii/S026772612100511X
26. Jana, A. and **Stuedlein, A.W.** (2022). "Dynamic, In-situ, Nonlinear-Inelastic Response and Post-Cyclic Strength of a Plastic Silt Deposit." *Canadian Geotechnical Journal*, Vol. 59, No. 1, pp. 111-128. https://cdnsciencepub.com/doi/abs/10.1139/cgj-2020-0652
    Designated "Editor's Choice" for CGJ 59(1).
27. Xiao, Y., Zhang, Z., **Stuedlein, A.W.**, Evans, T.M. (2021). "Liquefaction Modeling for Biocemented Calcareous Sand." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 147, No. 12, 04021149. https://ascelibrary.org/doi/full/10.1061/%28ASCE%29GT.1943-5606.0002666
28. Khosravi, A., **Stuedlein, A.W.**, Higgins, C.C. (2021). "New Formulation for Estimating the Moment Capacity of Rocking Shallow Foundations Resting on Partially-Saturated Soil." *Journal of Bridge Engineering*, Vol. 26, No. 11, 04021084.` https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29BE.1943-5592.0001783
29. Xiao, Y., **Stuedlein, A. W.**, He, X., Han, F., Evans, T.M., Pan, Z., Lin, H., Chu, J., van Paassen, L.A. (2021). "Lateral Responses of a Model Pile in Biocemented Sand." *International Journal of Geomechanics*, Vol. 21, No. 11, 06021027. https://ascelibrary.org/doi/full/10.1061/%28ASCE%29GM.1943-5622.0002179
30. Zhou, X., **Stuedlein, A.W.**, Chen, Y., and Liu, H. (2021). "Cyclic Strength of Loose Anisotropically-Consolidated Calcareous Sand under Standing Waves and Assessment using the Unified Cyclic Stress Ratio." *Engineering Geology*, Vol. 289, 106171. https://www.sciencedirect.com/science/article/abs/pii/S0013795221001824

31. Xiao, Y., He, X., Wu, W., **Stuedlein, A. W.**, Evans, T.M., Chu, J., Liu, J., van Paassen, L.A., and Wu, H. (2021). "Kinetic Biomineralization through Microfluidic Chip Tests." *Acta Geotechnica*, Vol. 16, No. 10, pp. 3229-3237. https://link.springer.com/article/10.1007/s11440-021-01205-w
32. Ching, J., Phoon. K.K., Yang, Z. and **Stuedlein, A.W.** (2021). "Quasi-site-specific multivariate probability distribution model for sparse, incomplete, and three-dimensional spatially varying soil data." *Georisk*, Vol. TBD, No. TBD., pp. TBD. *In Press*. https://www.tandfonline.com/doi/abs/10.1080/17499518.2021.1971256
33. **Stuedlein, A.W.**, Bong, T., Montgomery, J., Ching, J., Phoon, K.K. (2021). "Effect of Densification on the Random Field Model Parameters of Liquefiable Soil and their Use in Estimating Spatially-distributed Liquefaction-induced Settlement." *International Journal of Geoengineering Case Histories*, Vol. 6. No. 4, 17 pp. https://www.geocasehistoriesjournal.org/pub/article/view/IJGCH_6_4_1
34. Cabas, A., Beyzaei, C., **Stuedlein, A.W.**, Franke, K.W., Koehler, R., Zimmaro, P., Wood, C., Christie, S., Yang, Z., Lorenzo-Velazquez, C. (2021). "Geotechnical Lessons from the Mw 7.1 2018 Anchorage Alaska Earthquake." *Earthquake Spectra*, Vol. 37, No. 4, 87552930211012013. https://journals.sagepub.com/doi/full/10.1177/87552930211012013
35. Jana, A. and **Stuedlein, A.W.** (2021). "Dynamic, In-situ, Nonlinear-Inelastic Response of a Deep, Medium Dense Sand Deposit." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 147, No. 6, 04021039. https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002523
36. Wang, H., **Stuedlein, A.W.,** Sinha, A. (2021). "Dynamic Response of Timber Pile Ground Improvement: 3D Numerical Simulations." *Soil Dynamics and Earthquake Engineering*, Vol. 140, pp. 106614. https://www.sciencedirect.com/science/article/pii/S0267726121000361
37. Gao, H.M., Xia S., Chen, F., **Stuedlein, A.W.,** Li, X., Wang, Z., Shen, Z., Chen., X. (2021). "Dynamic Shear Modulus and Damping of Cemented and Uncemented Lightweight Expanded Clay Aggregate (LECA) at Low Strains." *Soil Dynamics and Earthquake Engineering*, Vol. 142, 106555. https://www.sciencedirect.com/science/article/pii/S0267726120311817
38. Jana, A. and **Stuedlein, A.W.** (2021). "Monotonic, Cyclic, and Post-Cyclic Responses of an Alluvial Plastic Silt Deposit." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 147, No. 3, 04020174. https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002462
39. Xiao, Y., Wang, Y., Wang, S., Evans, T.M., **Stuedlein, A.W.**, Chu, J., Zhao, C., Wu, H., and Liu, H. (2020). "Homogeneity and Mechanical Behaviors of Sands Improved by a Temperature-Controlled One-Phase MICP Method." *Acta Geotechnica*, Vol. 16, No. 5, pp. 1417-1427. https://link.springer.com/article/10.1007%2Fs11440-020-01122-4
40. Jana, A., Donaldson, A.M., Stuedlein, A.W., Evans, T.M. (2020). "Deep, In-Situ Nonlinear Dynamic Testing of Soil with Controlled Blasting: Instrumentation, Calibration, and Application to a Plastic Silt Deposit." *Geotechnical Testing Journal*, Vol. 44, No. 5, GTJ20190426. https://www.astm.org/DIGITAL_LIBRARY/JOURNALS/GEOTECH/PAGES/GTJ20190426.htm
41. Zhou, X., **Stuedlein, A.W.**, Chen, Y., Zhang, Z., and Liu, H. (2020). "Cyclic Response of Loose Anisotropically-Consolidated Calcareous Sand under Progressive Wave-induced Elliptical Stress Paths." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 146, No. 12, 04020143. https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002422
42. Xiao, Y., **Stuedlein, A.W.**, Pan, Z., Liu, H., Evans, T.M., He, X., Lin, H., Chu, J., van Paassen, L. (2020). "Toe Bearing Capacity of Precast Concrete Piles through Biogrouting Improvement." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 146, No. 12, pp. 06020026. https://ascelibrary.org/doi/full/10.1061/%28ASCE%29GT.1943-5606.0002404

43. Mahvelati, S., Coe, J.T., **Stuedlein, A.W.**, Asabere, P., Gianella, T.N., Kordjazi, A. (2020). "Recovery of Small-Strain Stiffness Following Blast-Induced Liquefaction Based on Shear Wave Velocity Measurements." *Canadian Geotechnical Journal*, Vol. 58, No. 6., pp. 848-865. https://cdnsciencepub.com/doi/10.1139/cgj-2019-0658

44. Xiao, Y., Chen, H., **Stuedlein, A.W.**, Evans, T.M., Chu, J., Cheng, L., Jiang, N., Lin, H., Liu, H., Aboel-Naga, H.M. (2020). "Restraint of Particle Breakage by Biotreatment Method." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 146, No. 11, 04020123. https://ascelibrary.org/doi/10.1061/%28ASCE%29GT.1943-5606.0002384

45. **Stuedlein, A.W.**, Saye, S.R., Kumm, B.P. (2020). "SHANSEP-based Side Resistance of Driven Pipe Piles in Plastic Soils: Revision and LRFD Calibration." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 148, No. 8, 0602001. https://ascelibrary.org/doi/pdf/10.1061/%28ASCE%29GT.1943-5606.0002319

46. Xiao, Y., Desai, C.S., Daouadji, A., **Stuedlein, A.W.**, Liu, H., Abuel-Naga, H. (2020). "Grain Crushing in Geoscience Materials-Key Issues on Crushing Response, Measurement and Modeling." *Geoscience Frontiers*, Vol. 11, No. 2, 363-374. https://linkinghub.elsevier.com/retrieve/pii/S1674987119302269

47. Rauthause, M.P., **Stuedlein, A.W.**, and Olsen, M.J. (2020). "Quantification of Surface Roughness using Laser Scanning with Application to the Frictional Resistance of Sand-Timber Pile Interfaces." *Geotechnical Testing Journal*, ASTM International, Vol. 43, No. 4, 19 pp. https://doi.org/10.1520/GTJ20180384.

48. Saye, S., Kumm, B., **Stuedlein, A.W.** (2020). "Use of Case Histories to Illustrate the Effect of Installation Activities on the Side Resistance of Pipe Piles in Plastic Soils." *Journal of the Deep Foundations Institute*, Vol. 14, No. 2, pp. 1-20. https://dfi-journal.org/papers/?abstract=2020140206

49. Xiao, P., Liu, H., **Stuedlein, A.W.**, Evans, T.M., Xiao, Y. (2019). "Effect of Relative Density and Bio-cementation on the Cyclic Response of Calcareous Sand," *Canadian Geotechnical Journal*, Vol. 56, No. 12, 1849–1862. http://www.nrcresearchpress.com/doi/abs/10.1139/cgj-2018-0573#.XGkNn7hG1Zh
Designated "Editor's Choice" for CGJ 56(12).
Merited the 2024 Fredlund Award from the Canadian Geotechnical Society.

50. Li, W., **Stuedlein, A.W.**, Chen, Y., Liu, H., Cheng, Z. (2019). "Response of Pile Groups with X and Circular Cross-sections Subject to Lateral Spreading: 3D Numerical Simulations." *Soil Dynamics and Earthquake Engineering*, Vol. 126, 105774. https://www.sciencedirect.com/science/article/pii/S0267726119301642

51. Wang, Z.H., Ma, J., Gao, **Stuedlein, A.W.**, He, J., and Wang, B.H. (2019). "Unified Thixotropic Fluid Model for Soil Liquefaction," *Geotechnique*, Vol. 70, No. 10, pp. 849-862. https://www.icevirtuallibrary.com/doi/abs/10.1680/jgeot.17.P.300

52. Xiao, Y., **Stuedlein, A.W.**, Ran, J., Evans, T.M., Cheng, L., Liu, H., van Paassen, L.A., Chu, J. (2019). "Effect of Particle Shape on the Strength and Stiffness of Biocemented Glass Beads." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 145, No. 11, 06019016. https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002165

53. Xiao, Y., Sun, Z., **Stuedlein, A.W.**, Wang, C., Wu, Z., Zhang, Z. (2019). "Bounding Surface Plasticity Model for Stress-Strain and Grain-Crushing Behaviors of Rockfill Materials." *Geoscience Frontiers*, Vol. 11, No. 2, 495-510. https://doi.org/10.1016/j.gsf.2019.06.010

54. Bong, T., **Stuedlein, A.W.**, Martin, J., Kim, B.-Y. (2019). "Bearing Capacity of Spread Footings on Aggregate Pier Reinforced Clay: Updates and Stress Concentration." *Canadian Geotechnical Journal*, Vol. 57, No. 5, 717-727. https://doi.org/10.1139/cgj-2019-0026

55. Ching, J., Phoon, K.K., **Stuedlein, A.W.**, Jaksa, M. (2019). "Identification of Sample Path Smoothness in Soil Spatial Variability?" *Structural Safety*, Vol. 81, 101870. https://www.sciencedirect.com/science/article/pii/S0167473018300213

56. Xiao, Y., Wang, L., Jiang, X., Evans, T.M., **Stuedlein, A.W.**, Liu, H. (2019). "Acoustic Emission and Force Drop in Grain Crushing of Carbonate Sands," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 145, No. 9, 04019057. https://ascelibrary.org/doi/10.1061/%28ASCE%29GT.1943-5606.0002141

57. Gao, H.M., Li, X., Wang, Z.H., **Stuedlein, A.W.,** Wang, Y. (2019). "Dynamic Shear Modulus and Damping of Expanded Polystyrene Composite Soils at Low Strains," *Geosynthetics International*, Vol. 26, No. 4, 436-450. https://doi.org/10.1680/jgein.19.00029

58. Li, Q., **Stuedlein, A.W.**, and Marinucci, A. (2019). "Effect of Casing and High-Strength Reinforcement on the Lateral Load Transfer Characteristics of Drilled Shaft Foundations," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 145, No. 9, 04019056. https://ascelibrary.org/doi/10.1061/%28ASCE%29GT.1943-5606.0002116

59. Xiao, Y., Xiang, H., Evans, T.M., **Stuedlein, A.W.**, Liu, H. (2019). "Unconfined Compressive and Splitting Tensile Strength of Basalt Fiber-Reinforced Biocemented Sand," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 145, No. 9, 04019048. https://ascelibrary.org/doi/10.1061/%28ASCE%29GT.1943-5606.0002108

60. Li, Q., **Stuedlein, A.W.**, and Barbosa, A.R. (2019). "Role of Torsional Shear in Combined Loading of Drilled Shaft Foundations," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 145, No. 4, 06019001. https://ascelibrary.org/doi/10.1061/%28ASCE%29GT.1943-5606.0002039

61. Liu, L., Liu, H., **Stuedlein, A.W.**, Evans, T.M., and Xiao, Y. (2018). "Strength, Stiffness, and Microstructure Characteristics of Biocemented Calcareous Sand," *Canadian Geotechnical Journal*, Vol. 56, No. 12, 1502-1513. http://www.nrcresearchpress.com/doi/abs/10.1139/cgj-2018-0007#.XGkMjrhG1Zh
Merited the 2023 Fredlund Award from the Canadian Geotechnical Society.

62. Xiao, Y., Long, L., Evans, T.M., Zhou, H., Liu, H., **Stuedlein, A.W.** (2018). "Effect of Particle Shape on Stress-Dilatancy Responses of Medium-Dense Sands," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 145, No. 2, 04018105. https://ascelibrary.org/doi/full/10.1061/(ASCE)GT.1943-5606.0001994

63. Li, W., Chen, Y., **Stuedlein, A.W.**, Liu, H., Zhang, X., Yang, Y. (2018). "Performance of X-shaped and Circular Pile-Improved Ground Subject to Liquefaction-induced Lateral Spreading," *Soil Dynamics and Earthquake Engineering*, Vol. 109, pp. 273-281 https://www.sciencedirect.com/science/article/pii/S0267726117309661

64. Li, Q., and **Stuedlein, A.W.** (2018). "Simulation of Torsionally-loaded Deep Foundations Considering State-Dependent Load Transfer," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 144, No. 8, 0401805. https://ascelibrary.org/doi/full/10.1061/%28ASCE%29GT.1943-5606.0001930

65. Bong, T. and **Stuedlein, A.W.** (2018). "Efficient Methodology for Probabilistic Analysis of Consolidation Considering Spatial Variability," *Engineering Geology*, Vol. 237, pp. 53-63. https://www.sciencedirect.com/science/article/pii/S0013795217314692?via%3Dihub

66. Xiao, P., Liu, H., Xiao, Y., **Stuedlein, A.W.**, Evans, T.M., Jiang, X. (2018). "Liquefaction Resistance of Bio-cemented Calcareous Sand," *Soil Dynamics and Earthquake Engineering*, Vol. 107, pp. 9-19. https://www.sciencedirect.com/science/article/pii/S026772611730893X

67. Bong, T. and **Stuedlein, A.W.** (2018). "Effect of Cone Penetration Conditioning on Random Field Model Parameters and Impact of Spatial Variability on Liquefaction-induced Differential Settlements," *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 144, No. 5, 04018018. https://ascelibrary.org/doi/abs/10.1061/(ASCE)GT.1943-5606.0001863
Designated "Editor's Choice" for JGGE 144(5).

68. Strahler, A.W., **Stuedlein A.W.**, and Arduino, P. (2018). "Three-Dimensional Stress-Strain Response and Stress-Dilatancy of Well-graded Gravel," *Int. Journal of Geomechanics*, ASCE, Vol. 18, No. 4, 04018014. https://ascelibrary.org/doi/full/10.1061/%28ASCE%29GM.1943-5622.0001118

69. Li, Q., **Stuedlein, A.W.**, and Marinucci, A. (2017). "Axial Load Transfer of Drilled Shaft Foundations with and without Steel Casing," *Journal of the Deep Foundations Institute*, Vol. 11, No. 1., pp. 13-29., http://www.tandfonline.com/doi/full/10.1080/19375247.2017.1403074
70. Ching, J., Wu, T.-J., **Stuedlein A.W.**, Bong, T., (2017). "Estimating Horizontal Scale of Fluctuation with Limited CPT Soundings," *Geoscience Frontiers*, Vol. 9, pp. 1597-1608. https://www.sciencedirect.com/science/article/pii/S1674987117302025
71. 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. 144., No. 2, 04017108. https://doi.org/10.1061/(ASCE)GT.1943-5606.0001812
72. 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. 143, No. 12, 04017093 http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0001789
73. 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. 54, No. 12, 1704-1715. http://www.nrcresearchpress.com/doi/10.1139/cgj-2016-0146#.WTiFyNy1vmE
74. 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. 54, No. 12, 1693-1703. http://www.nrcresearchpress.com/doi/10.1139/cgj-2016-0145#.WTiFydy1vmE
75. 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
76. 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
77. 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.
78. **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
79. 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. 10, No. 4, pp. 280-293. http://www.tandfonline.com/doi/abs/10.1080/17499518.2016.1183797#.V4zqJzUlfM4
80. **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).
81. 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, 04016015 http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29IS.1943-555X.0000302

82. 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

83. 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
Merited the 2017 ASTM Award for Outstanding Article on the Practice of Geotechnical Testing

84. 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

85. 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. 142, No. 4, 04015098. http://ascelibrary.org.ezproxy.proxy.library.oregonstate.edu/doi/abs/10.1061/(ASCE)GT.1943-5606.0001435

86. 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

87. 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

88. 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

89. 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

90. **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).

91. **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

92. **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

93. **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

94. 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

95. **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
96. 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
97. **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
98. **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
99. **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
100. **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
101. **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
102. **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
103. **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
104. **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
105. **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
106. **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
107. 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)

Brief, Peer-Reviewed Technical Communications

108. Jana, A. and **Stuedlein, A.W.** (2023). Discussion of "A New V_s-Based Liquefaction-Triggering Procedure for Gravelly Soils." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 149, No. 7, 07023009. https://ascelibrary.org/doi/10.1061/JGGEFK.GTENG-11311

109. Saye, S.R., and **Stuedlein, A.W.** (2021). Discussion of "Prediction, testing and analysis of a 50 m long pile in soft clay." *Journal of the Deep Foundations Institute*, Vol. 15, No. 2, pp. 1 – 7. https://dfi-journal.org/papers/?abstract=2021150204

110. Xiao, Y., Long, L., Evans, T.M., Zhou, H., Liu, H., **Stuedlein, A.W.** (2020). Closure to "Effect of Particle Shape on Stress-Dilatancy Responses of Medium-Dense Sands." *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 146, No. 5, 0702000. https://ascelibrary-org.ezproxy.proxy.library.oregonstate.edu/doi/abs/10.1061/%28ASCE%29GT.1943-5606.0002261

111. **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

112. **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

113. **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. 31, No. 5, 1617-1619. http://link.springer.com/article/10.1007/s10706-013-9681-z

114. **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

115. 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

116. **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

117. **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)

Refereed Conference Proceedings

118. Sahin, A., Jana, A., Ulmer, K.J., Brandenberg, S.J., Evans, T.M., Kramer, S.L., Stewart, J.P. and **Stuedlein, A.W.** (2025). "Application of Liquefaction Susceptibility Criteria within a Logic Tree Framework." *GeoExtreme 2025*, ASCE, Reston, VA. *In Press.*

119. Sahin, A., Jana, A., Beyzaei, C.Z., Sancio, R., Ulmer, K.J., Brandenberg, S.J., Kramer, S.L., Stewart, J.P. and **Stuedlein, A.W.** (2025). "Next Generation Liquefaction Laboratory Database for Susceptibility and Cyclic Strength Assessment." *Geotechnical Special Publication No. 366*, Geotechnical Frontiers 2025, ASCE, Reston, VA, pp. 238-247.

120. Ortiz, S.C. and **Stuedlein, A.W.** (2025). "CPT-Based Assessment of Preliminary Soil Classification, Stress History, and Monotonic and Cyclic Strength of Transitional Silts." *Geotechnical Special Publication No. 366*, Geotechnical Frontiers 2025, ASCE, Reston, VA, pp. 109-122.

121. **Stuedlein, A.W.** and Jana, A. (2024). "Cyclic Resistance of Intact Fine-Grained Tailings: Observations Drawn Through Application of a Model Developed for Natural Silts." *8th Int. Conf. Earthquake Geotechnical Eng.*, Osaka, Japan. 6 pp. https://www.jstage.jst.go.jp/article/jgssp/10/37/10_v10.OS-26-01/_article/-char/ja/
122. Dadashiserej, A., Jana, A., **Stuedlein, A.W.**, and Evans, T.M. (2024). "Strain-Dependent Cyclic Strength Ratio Model for Transitional Silts." *Geotechnical Special Publication No. 348*, GeoCongress 2024, ASCE, Reston, VA, pp. 358-368. https://doi.org/10.1061/9780784485309.03
123. Basu, D., Montgomery, J., and **Stuedlein, A.W.** (2023). "Uncertainty in Liquefaction-Induced Settlement in Numerical Simulations due to Model Calibration." *Proc., GeoRisk 20223, Geotechnical Special Publication No. 344*, ASCE, Reston, VA, 296-306. https://ascelibrary.org/doi/abs/10.1061/9780784484968.031
124. **Stuedlein, A.W.** and Jana, A. (2022). **Invited Theme Lecture:** "In-Situ Liquefaction Testing of a Medium Dense Sand Deposit and Comparison to Case History- and Laboratory-based Cyclic Stress and Strain Evaluations." *Proc., 4th International Conference on Performance Based Design in Earthquake Geotechnical Engineering*, Beijing, China. 20 pp. https://link.springer.com/chapter/10.1007/978-3-031-11898-2_32
125. Cary, J., **Stuedlein, A.W.**, McGann, C.R., Bradley, B.A., and Maurer, B.W. (2022). "Effect of Refinements to CPT-based Liquefaction Triggering Analysis on Liquefaction Severity Indices at the Avondale Playground Site, Christchurch, NZ." *Proc., 4th International Conference on Performance Based Design in Earthquake Geotechnical Engineering*, Beijing, China. 13 pp. https://link.springer.com/chapter/10.1007/978-3-031-11898-2_127
126. Wang, H., **Stuedlein, A.W.**, and Sinha, A. (2022). "Framework and Demonstration of Constitutive Model Calibration for Liquefaction Simulation of Densified Sand." *Proc., 4th International Conference on Performance Based Design in Earthquake Geotechnical Engineering*, Beijing, China. 12 pp. https://link.springer.com/chapter/10.1007/978-3-031-11898-2_155
127. Hudson, K.H., Zimmaro, P., Ulmer, K., Carlton, B., **Stuedlein, A.W.**, Jana, A., Dadashiserej, A., Brandenberg, S.J., Stamatakos, J., Kramer, S., and Stewart, J.P. (2022). "Laboratory Component of Next-Generation Liquefaction Project Database." *Proc., 4th International Conference on Performance Based Design in Earthquake Geotechnical Engineering*, Beijing, China. 10 pp. https://link.springer.com/chapter/10.1007/978-3-031-11898-2_170
128. Liu, L., Guo, J., **Stuedlein, A.W.**, Zhang, X.-L., Gao, H.-M., Wang, Z.-H., and Shen, Z.-F. (2022). "Flowability of Saturated Calcareous Sand under Cyclic Loading." *Proc., 4th International Conference on Performance Based Design in Earthquake Geotechnical Engineering*, Beijing, China. 9 pp. https://link.springer.com/chapter/10.1007/978-3-031-11898-2_189
129. Dadashiserej, A., Jana, A., Evans T.M., and Stuedlein, A.W. (2022). "Influence of Natural Soil Fabric on the Cyclic Resistance of Low and High Plasticity Silts." *Proc., 12th National Conference in Earthquake Engineering*, Earthquake Engineering Research Institute, Salt Lake City, UT. 5 pp.
130. Dadashiserej, A., Jana, A., Ortiz, S. C., Walters, J. J., **Stuedlein, A. W.**, and Evans, T. M. (2022). "Monotonic, Cyclic, and Post-Cyclic Response of Willamette River Silt at the Van Buren Bridge." *Proc., Geo-Congress 2022: Geophysical and Earthquake Engineering and Soil Dynamics*, Geotechnical Special Publication No. 334, ASCE, Reston, VA. pp. 431-443. https://ascelibrary.org/doi/10.1061/9780784484043.042
131. Jana, A., **Stuedlein, A.W.**, Wharton, T., and Bock, J. (2022). "Deep, Dynamic In-situ Excess Pore Pressure Response of a Medium Dense Sand." *Proc., Lifelines 2020-2021*, ASCE, Reston, VA. 14 pp. https://ascelibrary.org/doi/abs/10.1061/9780784484449.014
132. Dadashiserej, A., Jana, A., **Stuedlein, A.W.**, Evans, T.M., Zhang, B., Xu, Z., Stokoe, I.I. and Cox, B.R. (2022). "In-situ and Laboratory Cyclic Response of an Alluvial Plastic Silt Deposit." *Proc., 20th International Conference on Soil Mechanics and Geotechnical Engineering*, Sydney, Australia, 2021. 7 pp. https://par.nsf.gov/biblio/10300368

133. Li, Q., **Stuedlein, A.W.**, and Ashford, S.A. (2021). "Full-Scale Experimental p–y Curves and Model for Plastic Willamette Silt." Proceedings*, International Foundations Congress and Equipment Expo 2021*, Dallas, Texas, May 10–14, 2021. pp. 207-219. https://ascelibrary.org/doi/abs/10.1061/9780784483404.019
134. **Stuedlein, A.W.**, Gibson, M. D., Yamasaki, K., Hemstreet, D., and Shao, L. (2021). "Performance of the Wet Soil Mixing-Supported West Dowling Bridge during the 30 November 2018 Anchorage Earthquake." Proceedings*, International Foundations Congress and Equipment Expo 2021*, Dallas, Texas, May 10–14, 2021. pp. 414-429. https://ascelibrary.org/doi/abs/10.1061/9780784483411.040
135. Santos, A. E., Bernhardt-Barry, M. L., and **Stuedlein, A.W.** (2021). "Performance of Isolated, Cemented Stone Columns in Clayey Soils," Proceedings*, International Foundations Congress and Equipment Expo 2021*, Dallas, Texas, May 10–14, 2021. pp. 551-562. https://ascelibrary.org/doi/abs/10.1061/9780784483411.052
136. **Stuedlein, A.W.,** Li, W., Chen, Y, Liu, H., and Cheng, Z., (2020). "Numerical Simulation of Pile Pinning-Type Lateral Spreading Mitigation using XCC and Circular Piles." Proceedings, *17th World Conference on Earthquake Engineering* (17WCEE), Sendai, Japan, September 13 – 18, 2020.
137. Saye, S.R., **Stuedlein, A.W.**, Kumm, B.P. (2020). "Ideas to Improve Driven Pile Foundation Design and Installation Procedures." Proceedings, *45th Annual Meeting of the Deep Foundations Institute*, National Harbor, Maryland, October 13 – 16, 2020. 10 pp.
138. Cabas, A., Beyzaei, C., Franke, K., Koehler, R., Pierce, I., **Stuedlein, A.W.**, Yang, Z., and Christie, S. (2020). "Turning Disaster into Knowledge: Geotechnical Aspects of the 2018 Mw 7.1 Anchorage, Alaska Earthquake." *GeoCongress 2020*, *Geotech. Earthq. Engrg. and Special Topics*, GSP No. 318, ASCE, Reston, VA. 11 pp. https://ascelibrary.org/doi/10.1061/9780784482810.020
139. Bong, T., **Stuedlein, A.W.**, Ching, J., Phoon, K.K., and Montgomery, J. (2019). "Post-Liquefaction Settlements: Spatial Variability and Correlation to Spatially Variable Soil Characteristics." *Proc., 7th Int. Symp. on Geotech. Safety & Risk (ISGSR 2019)*, Taipei, Taiwan, 11–13 Dec. 2019, 6 pp.
140. Basu, D., Montgomery, J., and **Stuedlein, A.W.** (2019). "Liquefaction-induced settlement estimates for a spatially variable deposit using numerical and empirical approaches." *Proc., 7th Int. Symp. on Geotech. Safety & Risk (ISGSR 2019)*, Taipei, Taiwan, 11–13 Dec. 2019, 6 pp.
141. **Stuedlein, A.W.**, Jana, A., Donaldson, A.M., Batti, J.J., and Evans, T.M. (2019). "Instrumentation and Calibration Protocols for Deep, In-Situ Liquefaction Testing with Controlled Blasting." *Proc., 7th Int. Conf. Earthquake Geot. Engrg.*, Rome, Italy, 10 pp.
142. Bong, T. and **Stuedlein, A.W.** (2019). "Effect of Densification-type Ground Improvement on the Spatial Variability Characteristics of Soil." *Proc., 7th Int. Conf. Earthquake Geot. Engrg.*, Rome, Italy, 11 pp.
143. Basu, D., Montgomery, J., and **Stuedlein, A.W.** (2019). "Comparison of post-liquefaction settlements at a liquefaction test site considering numerical and empirical methods." *Proc., 7th Int. Conf. Earthquake Geot. Engrg.*, Rome, Italy, 8 pp.
144. Bougataya, Y., and **Stuedlein, A.W.** (2018). "Development of New Shaft Resistance Models for Piles Driven in the Puget Sound Lowlands," *Proc., 43rd Annual Meeting*, Deep Foundations Institute, Hawthorne, NJ. pp. 250-259.
145. Martinez, A. and **Stuedlein, A.W.** (2018). "Torsional Shear: Experiments, Models, and Application to Deep Foundations," *Proc., 2018 Symposium on Geomechanics from Micro to Macro in Research and Practice*, IS Atlanta, *In Press*.

146. Li, Q., and **Stuedlein, A.W.** (2018). "Factors Affecting the Torsional Response of Deep Foundations," *Proc., Geotechnical Earthquake Engineering and Soil Dynamics V,*, GSP No. 292, ASCE, Reston, VA. pp. 368-378. https://ascelibrary.org/doi/abs/10.1061/9780784481479.038
147. Staheli, K., **Stuedlein, A.W.**, and Richart, P. (2018). "Pipe Ramming: Understanding the Forces that Drive the Industry Forward," *Proceedings, No-Dig 2018*, North American Society for Trenchless Technology, Palm Springs, CA. 12 pp.
148. **Stuedlein, A.W.**, and Allen, M.L. (2018). "A Case History of Liquefaction Mitigation using Driven Displacement Piles," *Innovations in Ground Improvement for Soils, Pavements, and Subgrades*, Int. Foundation Congress & Equipment Exposition (IFCEE), GSP No. 296, ASCE, Reston, VA. 10 pp. https://ascelibrary.org/doi/abs/10.1061/9780784481592.026
149. Li, Q., Marinucci, A., and **Stuedlein, A.W.** (2017). "Evaluation of Axial Load Transfer of Uncased and Permanently Cased Drilled Shaft Foundations." *Proceedings, DFI-SMIG-GIISSMGE 4th International Conference on Deep Foundations*, November 15-16, 2017, Mexico City, Mexico.
150. Gianella, T.N. and **Stuedlein, A.W.** (2017). "Simplified Modeling of Driven Displacement Pile-Improved Ground Subjected to Controlled Blasting," *Proceedings, Performance-based Design III*, Vancouver, BC, 16-19 July, 2017, 8 pp.
151. **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
152. 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
153. 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
154. **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
155. 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.
156. **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, 41st Annual Meeting of the Deep Foundations Institute*, New York, NY. 10 pp.
157. 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
158. 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.
159. 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.

160. 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.

161. 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

162. **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

163. 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

164. 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

165. 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

166. 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

167. **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

168. 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

169. 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

170. 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%20SLS%20of%20ACIP%20Piles.pdf

171. **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
172. 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
173. 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
174. **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
175. **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
176. 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.
177. Bartlett, S. F., Negussey, 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.
178. **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
179. 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.
180. **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
181. **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
182. **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

Books and Book Chapters Written and Edited

183. Lemnitzer, A. and **Stuedlein, A.W.** (2022) "Advances in Monitoring and Sensing; Embankments, Slopes, and Dams; Pavements; and Geo-Education," *Proceedings, Geo-Congress 2022*, Geotechnical Special Publication No. 336, ASCE, Charlotte, NC. 569 pp.
184. Lemnitzer, A. and **Stuedlein, A.W.** (2022) "Geoenvironmental Engineering; Unsaturated Soils; and Contemporary Topics in Erosion, Sustainability, and Coal Combustion Residuals,"

Proceedings, Geo-Congress 2022, Geotechnical Special Publication No. 335, ASCE, Charlotte, NC. 549 pp.

185. Lemnitzer, A. and **Stuedlein, A.W.** (2022) "Geophysical and Earthquake Engineering and Soil Dynamics," *Proceedings, Geo-Congress 2022*, Geotechnical Special Publication No. 334, ASCE, Charlotte, NC. 725 pp.
186. Lemnitzer, A. and **Stuedlein, A.W.** (2022) "Site and Soil Characterization, Computational Geotechnics, Risk, and Lessons Learned," *Proceedings, Geo-Congress 2022*, Geotechnical Special Publication No. 333, ASCE, Charlotte, NC. 717 pp.
187. Lemnitzer, A. and **Stuedlein, A.W.** (2022) "Deep Foundations, Earth Retention, and Underground Construction," *Proceedings, Geo-Congress 2022*, Geotechnical Special Publication No. 332, ASCE, Charlotte, NC. 638 pp.
188. Lemnitzer, A. and **Stuedlein, A.W.** (2022) "Soil Improvement, Geosynthetics, and Innovative Geomaterials," *Proceedings, Geo-Congress 2022*, Geotechnical Special Publication No. 331, ASCE, Charlotte, NC. 663 pp.
189. Suleiman, M.T., Lemnitzer, A., and **Stuedlein, A.W.** (2018). Case Histories and Lessons Learned *Proceedings, International Foundation Congress and Equipment Exposition*, Geotechnical Special Publication No. 298, ASCE, Orlando Florida, 324 pp.
190. Lemnitzer, A., **Stuedlein, A.W.**, and Suleiman, M.T. (2018). Developments in Earth Retention, Support Systems, and Tunneling *Proceedings, International Foundation Congress and Equipment Exposition*, Geotechnical Special Publication No. 297, ASCE, Orlando Florida, 366 pp.
191. **Stuedlein, A.W.**, Lemnitzer, A., and Suleiman, M.T. (2018). Innovations in Ground Improvement for Soils, Pavements, and Subgrades *Proceedings, International Foundation Congress and Equipment Exposition*, Geotechnical Special Publication No. 296, ASCE, Orlando Florida, 535 pp.
192. **Stuedlein, A.W.**, Lemnitzer, A., and Suleiman, M.T. (2018). Advances in Geomaterial Modeling and Site Characterization *Proceedings, International Foundation Congress and Equipment Exposition*, Geotechnical Special Publication No. 295, ASCE, Orlando Florida, 591 pp.
193. Suleiman, M.T., Lemnitzer, A., and **Stuedlein, A.W.** (2018). Installation, Testing, and Analysis of Deep Foundations *Proceedings, International Foundation Congress and Equipment Exposition*, Geotechnical Special Publication No. 294, ASCE, Orlando Florida, 786 pp.
194. 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.
195. **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 or Other Publications

196. Ulmer, K.J., Zimmaro, P., Brandenberg, S.J., Stewart, J.P., Hudson, K.S., Stuedlein, A.W., Jana, A., Dadashiserej, A., Kramer, S.L., Cetin, K.O., Can, G., Ilgac, M., Franke, K.W., Moss, R.E.S., Bartlett, S.F., Hosesinali, M., Decayanan, H., Kwak, D.Y., Stamatakos, J., Mukherjee, J., Salmon, U., Ybarra, S., Weaver, T. (2023). "Next-Generation Liquefaction Database." Version 2, Next-Generation Liquefaction Consortium. https://www.nextgenerationliquefaction.org

197. ISSMGE-TC304 (2021). "State-of-the-Art Review of Inherent Variability and Uncertainty in Geotechnical Properties and Models." *Technical Committee TC304 - Engineering Practice of Risk Assessment and Management*, International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), 2 March 2021.
198. **Stuedlein, A.W.** (2018). "Meeting the Challenges of Drilled Shaft Design and Construction on the West Coast: Part II," *Foundation Drilling*, August/September, ADSC - The International Association of Foundation Drilling, Dallas, TX, pp. 22-27.
199. **Stuedlein, A.W.** (2016). "Spatial variability of soil and impact on liquefaction-induced differential settlements." United States – New Zealand – Japan International Workshop on Liquefaction-Induced Ground Movements Effects, National Science Foundation, 2-4 Nov, Berkeley, USA. (Workshop White Paper)
200. **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.
201. Bartlett, S. F., Negussey, 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.
202. **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.
203. **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.
204. **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.
205. **Stuedlein, A. W.,** Negussey, D., and Mathioudakis, M. (2004). *"*A Case History of the Use of Geofoam for Bridge Approach Fills", Proceedings, *5th International Conference on Case Histories In Geotechnical Engineering*, Paper 8.40, New York, NY
206. Negussey, D., **Stuedlein, A.W.**, Bartlett, S.F., Farnsworth, C. (2001). "Performance of A Geofoam Embankment At 100 South, I-15 Reconstruction Project, Salt Lake City, UT" *Proceedings, EPS 2001, 3rd International Conference on Geofoam*, Salt Lake City, UT
207. Bartlett, S. F., Farnsworth, C., Negussey, D., **Stuedlein, A.W.** (2001). *"*Instrumentation and Long-term Monitoring of Geofoam Embankments, I-15 Reconstruction Project, Salt Lake City, UT"*, Proceedings, EPS 2001, 3rd International Conference on Geofoam*, Salt Lake City, UT.

Research Reports *(Reports to Sponsors).*

208. **Stuedlein, A.W.**, Higgins, C.C., Khosravi, A., Parson, L., and McGinn, L. (2024). "Bridge Column Footing Performance and Seismic Retrofit Evaluation Considering Soil-Structure Interaction." *Final Report, SPR-830*, Oregon Department of Transportation, Salem, OR. 668 pp.
209. Coffman, R.A., Blanchard, J.D., **Stuedlein, A.W.**, Jana, A., Budge, A.S. (2024). "Design of Piles for Dragload." *NCHRP Research Report 1112*, National Cooperative Highway Research Program, National Academies of Sciences, Engineering, and Medicine, The National Academies Press, Washington, D.C., 76 pp. http://nap.nationalacademies.org/27863 *with appendices:*

210. Coffman, R.A., Blanchard, J.D., **Stuedlein, A.W.**, Jana, A., Budge, A.S. (2024). "NCHRP Web-Only Document 398: Pile Design for Downdrag: Examples and Supporting Materials." *NCHRP Research Report 1112*, National Cooperative Highway Research Program, National Academies of Sciences, Engineering, and Medicine, The National Academies Press, Washington, D.C. https://nap.nationalacademies.org/catalog/27864/pile-design-for-downdrag-examples-and-supporting-materials
211. **Stuedlein, A.W.**, Dadashiserej, A., and Jana, A. (2023). "Models for the Cyclic Resistance of Silts and Evaluation of Cyclic Failure during Subduction Zone Earthquakes." *PEER Report 2023/01*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA. https://doi.org/10.55461/ZKVV5271
212. **Stuedlein, A.W.**, Alemu, B., Evans, T.M., Kramer, S.L., Stewart, J.P., Ulmer, K., Ziotopoulou, K. (2023). "PEER Workshop on Liquefaction Susceptibility." PEER Report 2023/02, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA. https://doi.org/10.55461/BPSK6314
213. **Stuedlein, A.W.**, Evans, T.M, Dadashiserej, A., and Jana, A. (2021). "Cyclic Response and Softening of Western Oregon Silts and Assessment within the Simplified Method Framework," Final Report prepared for the *Cascadia Lifelines Program*, Version 2, September 28, 2021. 94 pp.
214. **Stuedlein, A.W.** and Jana, A. (2020). "Evaluation of Deep, *In-Situ* Blast-Induced Dynamic Response of Natural Silt and Sand: Dynamic Response of Soils at the Port of Portland," Final Report, Prepared for the Port of Portland, Portland, OR, 311 pp.
215. **Stuedlein, A.W.**, Jana, A., and Donaldson, A. (2019). "Undrained Shear Strength of Plastic Silt Subject to Blast-Induced Excess Pore Pressures." *Final Report*, SPR 304-701, *Oregon Department of Transportation*, Salem, OR, 48 pp.
216. Beyzaei, C.Z., Cabas, A., Franke, K.W., Koehler, R.D., Pierce, I., **Stuedlein, A.W.**, Yang, Z. (2019). "Geotechnical Engineering Reconnaissance of the 30 November 2018 Mw 7.0 Anchorage, Alaska Earthquake." Versions 1.0, 2.0, and 2.1, GEER Report GEER-059, DOI:doi:10.18118/G6P07F, 50 pp.
217. **Stuedlein, A.W.** and Li, Q., (2018). "Effects of High Strength Steel Bars and Steel Casing on the Response of Drilled Shafts," *Final Report*, SPR 765, Oregon Department of Transportation and Federal Highway Administration, Salem, OR, 274 pp.
218. **Stuedlein, A.W.**, Barbosa, A.R., and Li, Q., (2016). "Evaluation of Torsional Load Transfer for Drilled Shaft Foundations," *Final Report*, SPR 304-701, Oregon Department of Transportation and Federal Highway Administration, Salem, OR, 159 pp.
219. **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., 66 pp.
220. **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. 1378 pp.
221. **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. 180 pp.
222. **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.

223. Negussey, D. and **Stuedlein, A.W.** (2003). "Geofoam Fill Performance Monitoring," *Research Report UT-03.17*, I-15 Test Bed Report, Utah Department of Transportation, Salt Lake City, UT. 45 pp.
224. Negussey, D. and **Stuedlein, A.W.** (2002). "Instrumentation Installation and Monitoring Results, North Geofoam Approach Fill at the New Route 85 Crossing over Normans Kill Creek, Albany, NY," *Report RRMB C-01-48 - Evaluation of Geofoam Embankments*, Transportation Research Consortium, New York State Department of Transportation, Albany, NY. 40 pp.

Sponsored Research (Total: $11,367,439 USD; active grants underlined)

2025-2027 ***Oregon Department of Transportation,*** "Empirical Modeling for Improved Ground Failure Analysis Planning," Armin W. Stuedlein (PI) $290,000.

2025-2027 ***National Science Foundation,*** "Dynamic in-situ Responses and Liquefaction of Gravelly Soil Deposits," Armin W. Stuedlein (PI) and Amalesh Jana (Co-PI; Montana State University) $1,000,000

2024-2028 ***U.S. Federal Highways Administration,*** "Next Generation Liquefaction Project Database and Model Development in Support of Improved Liquefaction Hazard Assessments," Kristin Ulmer (PI for SwRI) and John Stamatakos (Co-PI, SwRI), Armin W. Stuedlein (PI for OSU) and T. Matthew Evans (Co-PI; OSU), Jonathan P. Stewart (PI for UCLA), Scott Brandenberg (Co-PI; UCLA), Steven L. Kramer (Consultant; U. Washington) $984,199

2024-2029 ***Department of Energy,*** "Bi-Partisan Infrastructure Law (BIL) DOE Funding for activities at the National Marine Energy Centers," Pacific Marine Energy Center; Bryson Robertson (PI, OSU and overall Grant), Armin W. Stuedlein and T. Matt Evans (Co-PIs, equipment sub-grant), *Many other research and equipment sub-grant Co-PIs.* $14,727,000 ($300,000, equipment sub-grant).

2024-2025 ***National Science Foundation,*** Seed Grant Program under the Cascadia Region Earthquake Science Center (CRESCENT), "Soil-Specific Ground Motion Model for the Equivalent Number of Loading Cycles for Subduction Zone Earthquakes and Cyclic Failure Assessments," Amalesh Jana (PI; Montana State University) and Armin W. Stuedlein (Co-PI) $30,000

2024-2025 ***Cascadia Lifelines Program (CLiP),*** "Towards Probabilistic Liquefaction Susceptibility Determinations," Armin W. Stuedlein (PI) $72,000

2024-2025 ***Cascadia Lifelines Program (CLiP),*** "A Tale of Two Landslide Events: Seasonality of the Big One," Ben A. Leshchinsky (PI) and Armin W. Stuedlein (Co-PI) $72,874

2023-2025 ***Pacific Earthquake Engineering Research (PEER) Center,*** "Next Generation Liquefaction Susceptibility Database: Expansion of the Laboratory Component to Leverage Pacific Northwest Soils," Armin W. Stuedlein (PI) $75,000

2023 ***Jacobs Engineering Group, Inc.,*** "Cyclic Response of Soils, King County Metro South Annex Base, Tukwila, WA," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $ 17,100

2022-2023 ***Jacobs Engineering Group, Inc.,*** "Cyclic Response of Soils I-5 / NB Marine View Drive to SR 529, Everett, WA," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $ 10,976

2023-2028 ***US Department of Transportation,*** "Coastal Research and Education Actions for Transportation Equity (CREATE) – Tier 1 University Transportation

Center (UTC)," Christopher C. Higgins (PI; OSU), Armin W. Stuedlein (Co-PI), David Trejo (Co-PI; OSU); Texas State University Lead Institution, Stacey Kulesza (Lead PI); with co-Institutions Texas A&M University, University of Miami and University of Puerto Rico-Mayagüez. $1,875,000 (OSU) / $10,000,000 (Total).

2022-2023 ***Pacific Earthquake Engineering Research (PEER) Center,*** *"*PEER Workshop on Liquefaction Susceptibility," Armin W. Stuedlein (PI), Jonathan P. Stewart (Co-PI; UCLA), and T. Matthew Evans (Co-PI) $20,000 [with $20,000 match from the College of Engineering, Oregon State University].

2021-2022 ***Pacific Earthquake Engineering Research (PEER) Center, "***Advancing the Practice of Cyclic Softening Assessments of Silts and Clays," Armin W. Stuedlein (PI) $50,000

2021-2022 ***Shannon & Wilson, Inc.,*** "Cyclic Response of Young Silt Soils: Earthquake-Ready Burnside Bridge Project," T. Matthew Evans (PI, OSU) and Armin W. Stuedlein (Co-PI) $36,655

2021-2022 ***Cascadia Lifelines Program (CLiP),*** "Site Response and Cyclic Model Calibrations for Oregon's Silt Soils," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $58,473

2021-2023 ***Deep Foundations Institute*** "Seismic Performance of Rigid Inclusions – Phase II," Armin W. Stuedlein (PI) and Matthew D. Gibson (Co-PI; Clarity Engineering, Inc.) $30,000

2021 ***Carlson Geotechnical, Inc.*****,** "Cyclic Response of Silt Soils, Patton Middle School Seismic Upgrade," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $12,860

2021 ***Shannon & Wilson, Inc.,*** "Cyclic Response of Silt Soils Tacoma Dome Link Extension, Sound Transit," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $24,500

2021 ***Oregon State University Research Equipment Reserve Fund (RERF)***, "64 Channel High-Speed Data Acquisition System," Armin W. Stuedlein (PI), Jennifer Hutchings (Co-PI; OSU), and T. Matthew Evans (Co-PI) $45,012

2020-2023 ***National Cooperative Highway Research Program (NCHRP),*** "Proposed AASHTO Specifications for Design of Piles for Downdrag," Richard Coffman (PI, U. Arkansas), Armin W. Stuedlein (Co-PI), and Aaron Budge (Co-PI, Minn. State U.) $420,000

2020-2022 ***Oregon Department of Transportation (ODOT),*** "Modeling the Undrained Shear Responses of Oregon Soils using CPT Based Methods for Optimized Design," Armin W. Stuedlein (PI) $39,000

2020-2021 ***Cascadia Lifelines Program (CLiP),*** "Advancing the Practice of Cyclic Softening Assessments of Silt Soils," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $58,473

2020 ***Oregon Department of Transportation (ODOT),*** "Cyclic Response of Young Silt and Clay for Van Buren Bridge," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $16,000

2019-2022 ***National Science Foundation,*** "Earthquake Resilience of the Western Power Grid," Ted Brekken (PI, OSU), Armin W. Stuedlein (Co-PI), Michael Olsen (Co-PI, OSU), and Eduardo Cotilla-Sanchez (Co-PI, OSU) $433,792

2019-2022 ***Oregon Department of Transportation (ODOT),*** "Bridge Column Footing Performance and Seismic Retrofit Evaluation Considering Soil-Structure Interaction," Armin W. Stuedlein (PI), Chris Higgins (Co-PI); $470,000

2019-2020 ***National Science Foundation,*** "Role of Spatial Variability in Liquefaction Consequence Severity," Armin W. Stuedlein, A. (PI) $97,849, *in collaboration with Chris McGann and Brendon Bradley, U. Canterbury, NZ*

2019-2022 ***National Science Foundation,*** "REU Site: Engineering for Bouncing Back," Babbar-Sebens, M (PI), Cate., R. (Senior Personnel, OSU), Cox, D. (Senior Personnel, OSU), Cotilla, E. (Senior Personnel, OSU), Fischer, E. (Senior Personnel, OSU), Leshchinsky, B. (Senior Personnel, OSU), Liu, J. (Senior Personnel, OSU), Navab-Daneshmand, T. (Senior Personnel, OSU), Radnieki, T. (Senior Personnel, OSU), Stuedlein, A. (Senior Personnel, OSU), and Wengrove, M. (Senior Personnel, OSU) $360,000

2019-2019 ***Oregon Department of Transportation (ODOT),*** "Cyclic Response of Young Silt and Clay, Salt Creek Bridge OR 153," Armin W. Stuedlein (PI) and T. Matthew Evans (Co-PI, OSU) $16,000

2018-2020 ***Deep Foundations Institute*** "Seismic Performance of Rigid Inclusions," Armin W. Stuedlein (PI); $30,000

2018-2019 ***Oregon Department of Transportation (ODOT),*** "Determining the Post-Blast Liquefaction Strength of Silt," Armin W. Stuedlein (PI) $12,000

2017-2020 ***National Science Foundation*** "Collaborative Research: Bridging the In-situ and Elemental Cyclic Response of Transitional Soils," Armin W. Stuedlein (PI), T. Matthew Evans (Co-PI); $634,391, *In collaboration with Ken Stokoe and Brady Cox* (UT Austin; $488,405); $1,122,796 Total.

2017 – 2019 ***Port of Portland in Collaboration with the Cascadia Lifelines Program*** "Deep, In-situ Cyclic Response of Liquefiable Soils," Armin W. Stuedlein (PI); $349,689

2017 – 2019 ***Cascadia Lifelines Program*** "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 ***United States Department of Agriculture*****, Agricultural Research Service**: *Tallwood Design Institute* "Design of Timber Pile Ground Improvement for Liquefaction Mitigation," Armin W. Stuedlein (PI), A. Sinha (Co-PI); $125,000

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

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

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

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

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

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

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 and Scholarly Advising

Research Associates and Postdoctoral Scholars

Current

None.

Previously-advised (3)

2021 – 2024 **Amalesh Jana**, ***Assistant Professor,*** *Montana State University, Bozeman, MT*. Topics: "Evaluation of Load Transfer in Driven Piles with Application to Dragloads," and "Liquefaction Evaluation of Gravelly Soils."

2019 – 2021 **Ali Khosravi, *Assistant Professor****, Auburn University*, *Alabama, USA*. Topic: "Bridge Column Footing Performance and Seismic Retrofit Evaluation Considering Soil-Structure Interaction."

2016 – 2018 **Taeho Bong, *Assistant Professor****, Chungbuk National University, South Korea.* Topic: "Quantification and Effect of Spatial Variability on Liquefaction Characteristics of Soils,"

Doctoral Students *(Advised students only; internal graduate committee membership not reported)*

Current

2024 – Present Pawan Chhetri, "Dynamic *In-situ* Responses and Liquefaction of Gravelly Soils"

2021 – Present Besrat Alemu, "Simulation of the Nonlinear Dynamic Response of Silts"

Graduated (10)

2023 Hao Wang, "Seismic Response of Displacement Pile-Improved Ground" *co-advised by Ari Sinha*, OSU

2022 Ali Dadashiserej, "Laboratory Investigation of the Cyclic Response of Transitional Soils: Bridging Element-Scale and In-Situ Responses," *co-advised with T. Matt Evans, OSU*
2021 Amalesh Jana, "Use of Controlled Blasting to Quantify the Dynamic, In-Situ, Nonlinear Inelastic Response of Soils."
2021 Zhaozhi Zhou, "Experimental and Theoretical Study on Dynamic Characteristics of Saturated Calcareous Sand under Standing Wave-induced Stress Paths," *co-advised with Yumin Chen, Hohai University, Nanjing, China*
2020 Jon Huffman, Ph.D., "Reliability-based Serviceability Limit State Design Procedures for Shallow Foundations."
2019 Wenwen Li, Ph.D., "Seismic Response of X-Shaped Pile-Improved Ground," *co-advised with Yumin Chen, Hohai University, Nanjing, China*
2017 Qiang Li, Ph.D., "Investigation of Drilled Shafts under Axial, Lateral, and Torsional Loading."
2016 Andrew W. Strahler, Ph.D., "An Experimental and Numerical Investigation of Tall Mechanically Stabilized Earth Wall.s"
2014 Seth C. Reddy, Ph.D., "Ultimate and Serviceability Limit State Reliability-based Axial Capacity of Deep Foundations."
2013 Tadesse Meskele, Ph.D., "Engineering Analysis and Design of Pipe Ramming Installations."

External Doctoral Dissertation Examiner or Committee Membership

2025 – present Jumana Ayad, Doctoral Student, Washington State University
2025 – present Moutasem Zarzour, Doctoral Candidate, Middle East Technical University, Ankara, Turkey
2024 – present Arda Sahin, Doctoral Candidate, University of California Los Angeles
2025 Jorge E. Orozco-Herrera, Doctoral Candidate, University of Central Florida, Florida, United States of America
2019 Keshab Sharma, Doctoral Candidate, University of Alberta, Alberta, Canada
2019 Lo Man Kong, Doctoral Candidate, The Hong Kong Polytechnic University, Hong Kong
2018 Abdul Waheed, Doctoral Candidate, University of Engineering & Technology, Taxila, Pakistan

Masters of Science Students *(with Thesis or Project; advised students only; graduate committee membership not reported)*

Current

2025 Uttam Dahal; Topic: Effect of Overburden Stress on the Cyclic Resistance of Transitional Silt-Sand Mixtures
2025 Ian Bottenberg; Topic: TBD.

Graduated (18)

2024 Dylan Heffern; Topic: "Role of Sand Content in Monotonic and Cyclic Responses of Transitional Silts"
2023 Logan McGinn, "Full-Scale Experimental Investigation of the Seismic Capacity of Reinforced Concrete Column-Footing Specimens Retrofitted with Titanium Alloy Bars Considering Effects of Soil-Structure Interaction on Vintage and Retrofitted Column-Footing Specimens," *co-advised with Chris C. Higgins, OSU*
2022 Susan Ortiz, "Region-Specific Investigation of the Cone Penetration Test for Preliminary Classification and Estimation of Preconsolidation Stress, Undrained Shear Strength, and Cyclic Resistance of Transitional Silts"

2021	John Cary, "An Investigation into the Role of Spatial Variability on Liquefaction Consequence Severity"
2021	Eve Lathrop, "Regional and Site-Specific Vulnerabilities of the Western Power Grid from a M9.3 Cascadia Subduction Zone Earthquake," *co-advised by Michael J. Olsen, OSU*
2020	Victoria Dutille, Topic: Geo-spatial Database of Oregon Soils, *co-advised by T. Matthew Evans, OSU*
2020	Tovey Brown, Topic: Assessment of Lateral Spreading using a Thixotropic Fluid Liquefaction Model, *co-advised by Ben Leshchinsky, OSU*
2019	Aleyna Donaldson, "Characterization of the Small-Strain Stiffness or Soils at an In-situ Liquefaction Test Site," *co-advised by T. Matt Evans, OSU*
2018	John Martin, "A Full-Scale Experimental Investigation of the Bearing Performance of Aggregate Pier-Supported Shallow Foundations."
2017	Marissa Rauthause, "Interface Shear Strength of Sand-Timber Pile Interfaces," Geotechnical Resources, Inc., Beaverton, OR
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

2024 – Present	Andrew Cissna

Graduated (16)

2022	Xiaohan Wan
2018	Tyson Fennern, US Navy
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.

Undergraduate Student Researchers

Current

2024	Ian Bottenberg (Spring Term – Current), Honors College Advisee
2023	Andrew Cissna (Spring Term)

Graduated (16)

2019	Rachael Groman, REU Student
2019	Jesus Magdaleno
2019	Arren Padgett, Spring Term
2018	Erick Moreno Rangel
2016	Eric North, Spring Term
2016	Xiaomin "Jacky" Chen, Fall 2014 - Spring 2016
2015	Jakob Walter, Fall 2015 - Spring 2016, Honors College Advisee
2014	Christina Knierim, Fall 2012 - Fall 2014, Honors College Advisee
2013	Trevor Bineham, Spring Term
2012	Kyle Fortner, Fall Term
2013	Robert Leaf, Fall Term 2012 - Fall Term 2013
2013	Stephan Stys, Summer 2012
2012	Collin McCormick, Spring 2012
2011	James Walters, Summer Term 2011 - Spring Term 2012
2010	Lee Bissinger, Summer Term
2010	Mitch Madsen, Spring Term - Summer Term

Advised Student Participation in National Competitions

2017	OSU Student Team placed 1st in GeoPrediction Event; Mohr's Circle Trophy
2016	Deep Foundations Institute Student Paper Award, Youssef Bougataya
2016	OSU Student Team placed 1st in GeoPrediction Event; Mohr's Circle Trophy
2014	OSU Student Team placed 1st 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 2nd in GeoPrediction Event

Teaching and Education

Course	Title	Quarter	No. of Students
CE 471 /571	Foundations for Structures	Fall 2009	35 / 13
CE 372	Geotechnical Engineering I	Winter 2010	116
CE 571	Adv. Foundation Engineering	Fall 2010	22
CE 372	Geotechnical Engineering I	Winter 2011	114
CE 575	Earth Retention and Support	Spring 2011	15
CE 571	Adv. Foundation Engineering	Fall 2011	24
CE 372	Geotechnical Engineering I	Winter 2012	118
CE 575	Earth Retention and Support	Spring 2012	18
CE 372	Geotechnical Engineering I	Winter 2013	135
CE 571	Adv. Foundation Engineering	Winter 2013	15
CE 575	Earth Retention and Support	Spring 2013	18
CE 372	Geotechnical Engineering I	Winter 2014	113
CE 571	Adv. Foundation Engineering	Winter 2014	10
CE 575	Earth Retention and Support	Spring 2014	10
CE 372	Geotechnical Engineering I	Winter 2015	137
CE 571	Adv. Foundation Engineering	Winter 2015	22
CE 575	Earth Retention and Support	Spring 2015	13
CE 372	Geotechnical Engineering I	Winter 2016	82
CE 571	Adv. Foundation Engineering	Winter 2016	10
CE 575	Earth Retention and Support	Spring 2016	7
CE 372	Geotechnical Engineering I	Spring 2016	39
CE 571	Adv. Foundation Engineering	Winter 2017	9
CE 372	Geotechnical Engineering I	Winter 2017	88
CE 576	Ground Improvement	Spring 2017	11
CE 372	Geotechnical Engineering I	Spring 2017	53
CE 372	Geotechnical Engineering I	Winter 2018	89
CE 571	Adv. Foundation Engineering	Winter 2018	9
CE 575	Earth Retention and Support	Spring 2018	9
CE 372	Geotechnical Engineering I	Winter 2018	117
CE 571	Adv. Foundation Engineering	Winter 2018	6
CE 372	Geotechnical Engineering I	Winter 2019	116
CE 571	Adv. Foundation Engineering	Winter 2019	6
CE 576	Ground Improvement	Spring 2019	10
CE 372	Geotechnical Engineering I	Winter 2021	114
CE 571	Adv. Foundation Engineering	Winter 2021	7
CE 372	Geotechnical Engineering I	Spring 2021	24
CE 576	Ground Improvement	Spring 2021	9
CE 571	Adv. Foundation Engineering	Winter 2022	7
CE 575	Earth Retention and Support	Spring 2022	11
CE 578	Geotechnical Earthquake Engineering	Spring 2022	13

Continued on next page.

Course	Title	Quarter	No. of Students
CE 576	Ground Improvement	Winter 2023	5
CE 571	Adv. Foundation Engineering	Winter 2023	8
CE 372	Geotechnical Engineering I	Spring 2023	17
CE 578	Geotechnical Earthquake Engineering	Spring 2023	6
CE 571	Adv. Foundation Engineering	Winter 2024	7
CE 372	Geotechnical Engineering I	Spring 2024	83
CE 578	Geotechnical Earthquake Engineering	Spring 2024	8
CE 575	Earth Retention and Support	Spring 2024	7
CE 571	Adv. Foundation Engineering	Winter 2025	8
CE 372	Geotechnical Engineering I	Winter 2025	92
CE 578	Geotechnical Earthquake Engineering	Spring 2025	10
CE 576	Ground Improvement	Spring 2025	6

Professional Society and Other Service

Editorship and Conference Organization

Journals

2020 – Present Editor, *ASCE Journal of Geotechnical and Geoenvironmental Engineering*

2020 – Present Editor, *Journal of the Deep Foundations Institute*

2018 – Present Editorial Board Member, *Canadian Geotechnical Journal*

2015 – Present Associate Editor, *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*

2018 – 2019 Guest Editor, Geoscience Frontiers, Special Issue on Grain Crushing

2013 – 2020 Associate Editor, *ASCE Journal of Geotechnical and Geoenvironmental Engineering*

Conferences, Proceedings, and Geotechnical Special Publications

2024-25 Review Coordinator, *2025 GeoFrontiers,* ASCE, Louisville, KY

2021-22 Co-Editor of Proceedings, *GeoCongress 2022*, ASCE, Charlotte, N.C.

2019 Co-Session Chair, "Case Histories on the Application of Risk and Reliability", Session IS17, *ISGSR 2019*, *7th International Symposium of Geotechnical Safety and Risk*, Taipei, Taiwan, 11-13 December, 2019

2019 Co-Session Chair, "Effect of Spatial Variability on Seismic Performance of Soil and Rock", Session IS5, *ISGSR 2019, 7th International Symposium of Geotechnical Safety and Risk*, Taipei, Taiwan, 11-13 December, 2019

2019 Program Chair, *SuperPile '19*, Deep Foundations Institute, Seattle, WA, 1 – 3 May, 2019

2019 Session Moderator, "Liquefaction, Site Characterization, and Seismic Slope Stability," *SAGEEP 2019*, Portland, OR, 17 to 21 March, 2019.

2018 Session Chair, "Soil-Structure Interaction – Part I", *Geotechnical Earthquake Engineering and Soil Dynamics V*, ASCE, Austin, TX

2018 Co-Editor of Proceedings, *2018 International Foundation Conference and Equipment Exposition* (IFCEE), ASCE-ADSC-DFI-PDCA, Orlando, FL

2018 Organizing Committee, *2018 International Foundation Conference and Equipment Exposition* (IFCEE), 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, *Annual Meeting of the Earthquake Engineering Research Institute*, Portland, OR, 7 – 9 March, 2017
2017	Organizing Committee, GeoRisk 2017 (6th ISGSR), ASCE, Denver, CO
2017	Session Chair, *Uncertainty Relating to Geotechnical Properties, Models, and Testing Methods, Part II*, GeoRisk 2017 (6th ISGSR), ASCE, Denver, CO
2017	Steering Committee, *34th Annual Spring Seminar*, ASCE Seattle Section Geotechnical Group and Geo-Institute Chapter, 22 April 2017
2016	Scientific Committee and Session Chair: *1st International Symposium on Soil Dynamics and Geotechnical Sustainability*, 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, Hammamut, 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 (*last updated in 6/2019*)

Journals:	**235 Reviews for 32 Journals since 2009**
2009 – present	*Journal of Geotechnical and Geoenvironmental Engineering,* ASCE To-date: 112 assignments as reviewer; 88 managed as Associate Editor
2009 – present	*Journal of Performance of Constructed Facilities,* ASCE To-date: 6 assignments
2010 – present	*Canadian Geotechnical Journal*, National Research Council To-date: 20 assignments
2010 – present	*Journal of Evaluation and Testing,* ASTM To-date: 1 assignment
2011 – present	*Journal of the Transportation Research Board* To-date: 2 assignments
2011 – present	*GeoRisk*, Taylor and Francis To-date: 6 assignments as reviewer; 9 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: 11 assignments
2013 – present	*International Journal for Numerical and Analytical Methods in Geomechanics*, Wiley; To-date: 1 assignment
2013 – present	*Soils and Foundations*, Japanese Geotechnical Society To-date: 21 assignments
2013 – present	*Ground Improvement*, Thomas Telford Press To-date: 2 assignments
2013 – present	*Geomechanics and Geoengineering*, Taylor and Francis To-date: 3 assignments
2014 – present	*Journal of the Deep Foundations Institute (DFI)*, Taylor and Francis To-date: 6 assignments
2014 – present	*Journal of Infrastructure Systems*, ASCE To-date: 1 assignment
2014 – present	*Geotechnical Testing Journal,* ASTM To-date: 4 assignments
2014 – present	*Journal of Advances in Civil Engineering Materials,* ASTM To-date: 1 assignments
2015 – present	*Geotechnique*, Thomas Telford Press To-date: 2 assignments
2015 – present	*Geotextiles and Geomembranes,* Elsevier To-date: 1 assignment
2015 – present	*Journal of Computing in Civil Engineering,* ASCE To-date: 2 assignments
2015 – present	*Bulletin of Engineeering Geology and the Environment*, Springer To-date: 2 assignments
2016 – present	*Geosynthetics International*, Thomas Telford Press To-date: 2 assignments
2016 – present	*Acta Geotechnica,* Springer To-date: 2 assignments
2016 – present	*Construction and Building Materials*, Elsevier To-date: 4 assignments
2016 – present	*Earthquake Spectra*, Earthquake Engineering Research Institute To-date: 3 assignments
2016 – present	*Soil Dynamics and Earthquake Engineering*, Elsevier To-date: 8 assignments
2017 – present	*Engineering Geology*, Elsevier To-date: 8 assignments
2017 – present	*Geotechnique Letters*, Thomas Telford Press To-date: 1 assignment
2017 – present	*International Journal of Geotechnical Case Histories*, ISSMGE To-date: 1 assignment

Review of Conference Proceedings and Geotechnical Special Publications

2024	*International Foundation Conference and Equipment Exposition (IFCEE)*, ASCE-ADSC-DFI-PDCA, Dallas, TX
2024	*Geo-Congress 2024*, Vancouver, British Columbia

2023	*48th Annual DFI Meeting*, Seattle, WA
2023	*Geo-Congress 2023*, Los Angeles, CA
2022	*Performance-based Design in Earthquake Geotechnical Engineering*, PBDIV, Beijing, China
2022	*12th National Conference on Earthquake Engineering*, Salt Lake City, UT
2022	*Geo-Congress 2022*, ASCE, Charlotte, NC.
2022	*20th International Conference on Soil Mechanics and Geotechnical Engineering*, Sydney, Australia
2021	*San Fernando Earthquake Conference, 50 Years of Lifeline Engineering*, ASCE, Los Angeles, CA, 7-10 February 2021 (postponed to 2022)
2020	*45th Annual Meeting of the Deep Foundations Institute*, Virtual, 27 – 30 October
2020	*GeoCongress 2020*, ASCE, Minneapolis, MN
2019	*ISGSR 2019, 7th International Symposium of Geotechnical Safety and Risk,* Taipei, Taiwan, 11-13 December, 2019
2018	*Geotechnical Earthquake Engineering and Soil Dynamics V*, ASCE, Austin, TX
2018	*International Foundation Conference and Equipment Exposition (IFCEE)*, ASCE-ADSC-DFI-PDCA, Orlando, FL
2017	*Piled Foundations & Ground Improvement Technology For the Modern Building and Infrastructure Sector*, Deep Foundations Institute, 21-22 March 2017, Melbourne, Australia
2017	*GeoRisk 2017* (6th ISGSR), ASCE, Denver, CO
2016	*GeoFrontiers 2017*, ASCE, Orlando, FL
2015	*Geo-Chicago 2016: Sustainability, Energy, and the Geoenvironment*, ASCE, Chicago, IL
2015	*6th International Conference on Earthquake Geotechnical Engineering*, Christchurch, New Zealand
2015	*40th Annual DFI Meeting*, Oakland, CA
2015	*African Regional Conference on Soil Mechanics and Geotechnical Engineering*, ISSMGE, Hammamut, Tunisia
2015	*Fifth International Symposium on Geotechnical Safety and Risk* (ISGSR) 2015, Rotterdam, The Netherlands
2015	*Deep Mixing 2015*, Deep Foundations Institute, San Francisco, CA
2015	*12th International Conference on Applications of Statistics and Probability in Civil Engineering*, ICASP12, Vancouver, Canada
2015	*Geosynthetics 2015*, International Fabrics Association International, Portland, OR
2015	*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
2014	*Pipelines 2014, From Underground to the Forefront of Innovation and Sustainability*, ASCE, Portland, OR
2014	10th US National Conference on Earthquake Engineering (10NCEE), *Frontiers of Earthquake Engineering*, EERI, Anchorage, AK
2013 – 2014	GeoCongress 2014, Geo-Characterization and Modeling for Sustainability
2012	*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 *9th Int. Conf. on Geosynthetics*, February 25-27 2009, Salt Lake City, UT

Review of Dossiers for Tenure and/or Promotion

2024 Promotion to Full Professor, 3; Associate Professor w/Tenure: 1
2023 Promotion to Full Professor, 3; Associate Professor w/Tenure: 2
2022 Promotion to Full Professor, 1; Associate Professor w/Tenure: 2
2021 Promotion to Associate Professor w/Tenure: 2
2020 Promotion to Associate Professor w/Tenure: 1
2016 Promotion to Associate Professor w/Tenure: 1

Review of Proposals

2025 Ad-hoc Proposal Review, Army Research Office (ARO), Extramural Competency Investments Division (ECIO) Mechanical Sciences Branch
2024 Review Panel, National Science Foundation CRESCENT Seed Grants
2023 Review Panel, National Science Foundation
2022 Ad-hoc Proposal Review, National Science Foundation, October
2021 National Center for Transportation Infrastructure Durability and Life-Extension (TIDLE)
2021 Review Panel, National Science Foundation
2018 Review Panel, National Science Foundation
2017 Ad-hoc Proposal Review, Fondo Nacional de Desarrollo Científico y Tecnológico, Chile
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

Review of Textbooks

2018 Pearson Hall, Inc., Upper Saddle River, NJ, Publisher
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

Professional Membership and Service

2024 – Present Chair, ASCE Geo-Institute Committee on Soil Improvement
2022 – Present Member, Int. Society of Soil Mechanics and Geotechnical Engineering Committee TC304, Engineering Practice of Risk Assessment and Management
2018 – Present Corresponding Member, Int. Society of Soil Mechanics and Geotechnical Engineering Committee TC203, Earthquake Geotechnical Engineering and Associated Problems
2016 – Present Member, Deep Foundations Institute Committee on Ground Improvement
2010 – Present Geo-Engineering Extreme Events Reconnaissance (GEER)
2009 – Present United States Universities Council on Geotechnical Education and Research (USUCGER)
2008 – Present Member, ASCE Geo-Institute Committee on Soil Improvement
2001 – Present Member, American Society of Civil Engineers (ASCE); elected Fellow (2024)
2021 – 2024 Vice Chair, ASCE Geo-Institute Committee on Soil Improvement
2017 – 2022 Vice Chair, Int. Society of Soil Mechanics and Geotechnical Engineering Committee TC304 Engineering Practice of Risk Assessment and Management
2021 – 2024 Vice Chair, ASCE Geo-Institute Committee on Soil Improvement
2017 – 2021 Secretary, ASCE Geo-Institute Committee on Soil 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 – 2017	Corresponding Member, Int. Society of Soil Mechanics and Geotechnical Engineering Committee TC304, Engineering Practice of Risk Assessment and Management
2012 – 2023	Member, ASCE Geo-Institute Committee on Risk Assessment and Management
2011 – 2017	Webmaster and member, ASCE Geo-Institute Committee on Soil Improvement
2006 – 2007, 2011 – Present	Member, Earthquake Engineering Research Institute (EERI)
2008 – 2023	Member, Geotechnical Safety Network (GEOSNet)
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

2024	Member, School of CCE Ad-hoc Tenure and Promotion Committee
2023 – 2024	Member, School of CCE Graduate Committee
2021 – present	Member, School of CCE, Diversity, Equity, and Inclusion Committee ("DEI Do Group")
2010 – present	Faculty Advisor, Geo-Institute Graduate Student Organization, ASCE
2021	Chair, School of CCE, Geotechnical Instructor Search Committee
2020 – 2022	Chair, School of CCE, Teaching Evaluation Committee
2016 – 2019	Member, School of CCE Graduate Committee
2019	Chair, School of CCE Ad-hoc Mid-Tenure and Promotion Committee
2016 – 2017	Chair, School of CCE Water Resources / Coastal and Ocean Engineering Search Committee
2016	Oregon State University, Cascades Campus, Campus Development Committee, Bend, 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 (last updated in 2023)

1. *"An Update on PEER-Related Next Generation Liquefaction (NGL) Activities,"* 2023 Annual Meeting of the Pacific Earthquake Engineering Research (PEER) Center, University of California, Berkeley, CA, 24 – 25 August 2023.
2. **Award-Winning Keynote Lecture:** *"Probabilistic Structural System Response to Differential Settlement Resulting from Spatially Variable Soil,"* 2023 J. James R. Croes Medal, Georisk 2023, Washington D.C., 23 – 26 July 2023.
3. *"Linking Hysteretic Behavior to Liquefaction Susceptibility,"* PEER Workshop on Liquefaction Susceptibility, Pacific Earthquake Engineering Research Center, Oregon State University, Corvallis, OR, 8 – 9 September 2022.
4. **Opening Theme Lecture:** *"In-Situ Liquefaction Testing of a Medium Dense Sand Deposit and Comparison to Case History and Laboratory-based Cyclic Stress and Strain Evaluations,"* 4th Performance-based Design in Earthquake Geotechnical Engineering, Beijing, China, 15-17 July, 2022.
5. *"Assessment of the Cyclic Softening Response of Western OR Silts within the Simplified Method Framework,"* Cascadia Lifelines Program Webinar Lecture Series, Virtual, 21 April 2022.
6. "*Blast-Liquefaction Tests to Evaluate the Deep, In Situ, Nonlinear-Inelastic Dynamic Response of Medium Dense Sands at PDX*," Geology and Geophysics Seminar Series, Oregon State University, Corvallis, OR, 3 March 2022.
7. "*Blast-Liquefaction Tests to Evaluate the Deep, In Situ, Nonlinear-Inelastic Dynamic Response of Medium Dense Sands at PDX and Thoughts on Dragloads*," Technical Lecture Series, KPFF, Inc., Virtual, 17 February 2022.
8. "*Blast-Liquefaction Tests to Evaluate the Deep, In Situ, Nonlinear-Inelastic Dynamic Response of Medium Dense Sands at PDX*," UC San Diego Graduate Student Seminar, Virtual, 26 January 2022.
9. *"Blast-Liquefaction Tests to Evaluate the Deep, In Situ, Nonlinear-Inelastic Dynamic Response of Medium Dense Sands at PDX,"* Jacobs Engineering, Virtual, 14 December 2021.
10. *"Earthquake-induced Soil Liquefaction and Use of Blasting to Characterize Deep Liquefaction at PDX,"* OSU ASCE Student Group Lecture Series, Oregon State University, Corvallis, OR, 1 December 2021.
11. **Keynote Lecture:** *"Some Critical Observations Regarding the Seismic Response of Rigid Inclusions,"* 46th Annual Meeting of the Deep Foundations Institute, Las Vegas, NV, 12 – 15 October, 2021.
12. "*Blast-Liquefaction Tests to Evaluate the Deep, In Situ, Nonlinear-Inelastic Dynamic Response of Medium Dense Sands at PDX*," ASCE Oregon Section, Geotechnical Engineering Technical Group, 3 March 2021.
13. "*Dynamic, In-situ, Nonlinear-Inelastic Response of a Plastic Silt Deposit*, Cascadia Lifelines Program (CLiP) Webinar Series, 19 November 2020.
14. "*Use of Controlled Blasting for the Evaluation of the Deep, In Situ Dynamic Response of Soils*," University of Canterbury, Christchurch, New Zealand, 3 March 2020
15. "*Recovery of Small-Strain Stiffness following Blast-Induced Liquefaction*," Chongqing University, Chongqing, China, 16 November 2019
16. "*Use of Controlled Blasting for the Evaluation of the Deep, In Situ Dynamic Response of Soils*," Chongqing University, Chongqing, China, 15 November 2019
17. "*Use of Controlled Blasting for the Evaluation of the Deep, In Situ Dynamic Response of Soils*," Hohai University, Nanjing, China, 12 November 2019

18. "*Use of Controlled Blasting for the Evaluation of the Deep, In Situ Dynamic Response of Soils*," Changshu Institute of Technology, Suzhou, China, 11 November 2019
19. "*Use of Controlled Blasting for the Evaluation of the Deep, In Situ Dynamic Response of Soils*," Nanjing Technical University, Nanjing, China, 8 November 2019
20. "U*se of In-Situ Liquefaction Testing to Guide the Port's Seismic Resilience Planning*," Cascadia Lifelines Program (CLiP), 2019-2020 Webinar Series, 26 September, 2019
21. "*Use of In Situ Liquefaction Testing to Guide the Port's Seismic Resilience Planning*," Annual Meeting of the Professional Engineers of Oregon (PEO), Oregon State University, Corvallis, OR. 16 to 17 May 2019
22. "*Geotechnical Engineering Reconnaissance of the 2018 Mw 7.0 Anchorage, Alaska Earthquake*," Student Chapter of the Earthquake Engineering Research Institute, Oregon State University, Corvallis, OR. 18 April 2019
23. "*Axial and Lateral Load Transfer of Drilled Shaft Foundations with and without Steel Casing, High Strength Steel Reinforcement*," ADSC Annual Meeting, Nassau, Bahamas, 7 February 2019
24. "*Recent Developments in the Axial, Lateral, and Torsional Response of Drilled Shaft Foundations*," Chongqing University, Chongqing, China, 9 November 2018
25. "*Driven Displacement Pile Ground Improvement for Liquefaction Mitigation*," Chongqing University, Chongqing, China, 8 November 2018
26. "*Seismic Considerations for Stone Columns and Aggregate Piers*," Nanjing Technical University, Nanjing, China, 5 November 2018
27. "*Recovery of Small-Strain Stiffness Following Blast-Induced Liquefaction*," 10th National Conference on Soil Dynamics, Nanjing, China, 3 November, 2018
28. "*Seismic Considerations for Stone Columns and Aggregate Piers*," Hohai University, Nanjing, China, 2 November 2018
29. "*Axial and Lateral Performance of Drilled Shaft Foundations with High-Strength Reinforcement and Permanent Casing*," Portland ASCE, Portland, OR, 16 October 2018
30. "*Torsional Response of Deep Foundations: Experimental and Numerical Investigations*," Webinar for HDR, Inc., Corvallis, OR, 27 September 2018
31. "*Recent Developments in the Axial, Lateral, and Torsional Response of Drilled Shafts*," Portland ASCE Geotechnical Group, Portland, OR, 5 September, 2018
32. "*Recent Developments in the Axial, Lateral, and Torsional Response of Drilled Shafts*," Joint Meeting of the American Council of Engineering Companies & ODOT, Salem, OR, 24 July 2018
33. "*Recent Developments in the Axial, Lateral, and Torsional Response of Bored Piles*," Joint Meeting of the Geotechnical Society of Singapore & Centre for Soft Ground Engineering, National University of Singapore, Singapore, 30 May 2018
34. "*Axial and Lateral Load Transfer of Drilled Shaft Bridge Foundations with and without Steel Casing, High Strength Steel Reinforcement*," Joint Meeting: ADSC & WSDOT Task Force, Tacoma, WA, 19 April 2018
35. "*Spatial Variability of Liquefiable Soils: Inherent Variability of Silty Fines, Effect of CPT Conditioning on Random Field Model Parameters, and Liquefaction-induced Differential Settlements*," University of Washington, Seattle, WA, 18 April 2018
36. "*A Case History of Liquefaction Mitigation using Driven Displacement Piles*," Int. Foundation Congress & Equip. Expo., Orlando, FL, 8 March 2018
37. "*Torsional Response of Deep Foundations: Experimental and Numerical Investigations*," Jacobs, Inc., Corvallis, OR, 1 March 2018

38. "*Axial and Lateral Load Transfer of Drilled Shaft Bridge Foundations with and without Steel Casing,*" Resilience Lecture Series, Oregon State University, Corvallis, OR, 9 January 2018
39. *"Driven Displacement Pile Ground Improvement for Liquefaction Mitigation,"* National Taiwan University, Taipei, Taiwan, 9 November, 2017
40. *"Effect of Spatial Variability on Static and Liquefaction-induced Differential Settlements,"* National Taiwan University, Taipei, Taiwan, 9 November, 2017
41. *"Effect of Spatial Variability on Static and Liquefaction-induced Differential Settlements,"* Geo-Structures Confluence 2017, St. Louis Geo-Institute Chapter and Structural Engineers Institute Chapter, St. Louis, Mo., 2 November, 2017
42. *"Driven Displacement Pile Ground Improvement for Liquefaction Mitigation,"* Cornell University, Ithaca, NY, 10 October, 2017
43. *"Recent Developments in the Axial, Lateral, and Torsional Response of Drilled Shaft Foundations,"* Syracuse University, Syracuse, NY, 9 October, 2017
44. *"Driven Displacement Pile Ground Improvement for Liquefaction Mitigation,"* UC Davis, Davis, CA, 29 September, 2017
45. *"Driven Displacement Pile Ground Improvement for Liquefaction Mitigation,"* Hohai University, Nanjing, China, 25 September, 2017
46. *"Effect of Spatial Variability on Static and Liquefaction-induced Differential Settlements,"* Nanjing Technical University, Nanjing, China, 24 September, 2017
47. **Opening Plenary Lecture:** *"Driven Displacement Pile Ground Improvement for Liquefaction Mitigation,"* SuperPile 2017, Deep Foundations Institute, San Diego, 15 June, 2017
48. **Keynote Lecture:** *"Effect of Spatial Variability on Static and Liquefaction-induced Differential Settlements,"* GeoRisk 2017 (6th ISGSR), ASCE, Denver, CO, 4 – 6 June, 2017
49. *"Developments in the Axial, Lateral, and Torsional Response of Drilled Shaft Foundations,"* University of South Florida, Tampa, FL, 24 May, 2017
50. *"Reliability-based Serviceability Limit State Procedures for Foundation Engineering,"* ASCE Geo-Institute Chapter of Tampa, Tampa, FL, 25 May, 2017
51. *"Update on Progress: ODOT-ADSC Drilled Shaft Study,"* West Coast Chapter Annual Meeting, San Diego, 19 May, 2017
52. *"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
53. "*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles*," Vancouver Geotechnical Society, Vancouver, BC, September 14, 2016
54. *"Torsional Load Transfer of Drilled Shaft Foundations,"* Seminar, University of British Columbia, Vancouver, BC, September 13, 2016
55. *"Engineering of Pipe Ramming Installations,"* City University of Hong Kong, Hong Kong, August 10, 2016
56. **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
57. "*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
58. "*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.

59. *"Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,"* CH2M, Corvallis, OR January 4, 2016
60. *"Drained Timber Pile Ground Improvement for Liquefaction Mitigation,"* The National Academy of Science, Beckman Center, Irvine, CA December 9, 2015
61. *"Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,"* University of California, Los Angeles, CA December 8, 2015
62. *"Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,"* ASCE Portland Geotechnical Group Dinner Meeting, Lake Oswego, OR December 2, 2015
63. *"Seismic Considerations for Stone Columns and Aggregate Piers,"* Hart Crowser, Inc., Beaverton, OR December 2, 2015
64. *"Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,"* Korea University, Seoul, South Korea October 21, 2015
65. *"Trenchless Culvert and Pipeline Construction: Engineering of Pipe Ramming Installations,"* Korea Advanced Institute of Science and Technology, Daejon, South Korea October 21, 2015
66. "*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles*," Korea Maritime and Ocean University, Busan, South Korea October 20, 2015
67. *"Ground Improvement and Liquefaction Mitigation using Driven Timber Piles,"* 16th Annual Design and Installation of Cost-Efficient Piles Conference, Pile Driving Contractors Association, Newark, NJ; September 3, 2015
68. "*Ground Improvement and Liquefaction Mitigation using Driven Timber Piles*," 40th NW Geotechnical Workshop, Federal Highway Administration, Gleneden Beach, OR; August 4, 2015
69. *"Stone Column Ground Improvement: Recent Developments for Static and Seismic Considerations,"* University of California, San Diego, CA May 18, 2015
70. *"Static and Seismic Considerations of Aggregate Pier Reinforced Ground,"* Geotechnical Resources, Inc. (GRI), Beaverton, OR, October 16, 2014
71. "*Analysis and Design of Pipe Ramming Installations*," City of Portland, Portland, OR June 26, 2014
72. "*Behavior of Aggregate Pier Reinforced Ground: Static and Seismic Considerations*," Geobang 2014, International Gathering of CH2M Hill Geotechnical Engineers, Portland, OR May 3, 2014
73. *"Analysis and Design of Pipe Ramming Installations*," Geobang 2014, International Gathering of CH2M Hill Geotechnical Engineers, Portland, OR May 3, 2014
74. *"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
75. *"Performance of Tall Mechanically Stabilized Earth Walls,"* Geotechnical Seminar Series, University of Colorado, Boulder, CO, April 16, 2014.
76. "*Performance of Tall MSE Walls*," National Chiao Tung University, Hsinchu, Taiwan, December 2, 2013.
77. "*Factors Affecting Reliability-Based Serviceability Limit State Design Of Augered Cast-In-Place Piles In Cohesionless Soils*," 38th Annual Conference on Deep Foundations, Phoenix, Arizona, September 26-28, 2013.
78. "*Characterization of Model Uncertainty in Immediate Settlement Calculations for Spread Footings on Clays,*" 18th Int. Conf. Soil Mech. and Geotech. Engrg., Paris, France, September 2-6, 2013.

79. "*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 16th , 2013.
80. "*Analysis and Design of Pipe Ramming Installations*," 2013 Trenchless Symposium, Pacific Northwest Chapter of NASTT, SeaTac, WA, January 24th, 2013.
81. "*Reliability-based Design of Augered Cast-In-Place Piles in Granular Soils*," ASCE Portland Geotechnical Group, Lake Oswego, OR, November 7th, 2012.
82. "*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.
83. "*Innovations in Civil Infrastructure Construction: Pipe Ramming and Tall MSE Walls*," 2012 Granite Construction Company, Annual Construction Operations Meeting, Reno, NV. March 19, 2012.
84. "*Geotechnical Applications of EPS Geofoam*," Portland State University, Portland, OR. November 2, 2010.
85. "*Factors Affecting the Development of MSE Wall Reinforcement Strain*," Earth Retention 2010, American Society of Civil Engineers (ASCE), Bellevue, WA. August 2, 2010.
86. "*Instrumentation and Performance of the 3rd Runway MSE Walls, Sea-Tac International Airport*," ASCE Portland Geotechnical Group, Lake Oswego, OR. October 7, 2009.
87. "*Instrumentation and Performance of the 3rd Runway MSE Walls, Sea-Tac International Airport*," ASCE Seattle Geotechnical Group, Seattle, WA. April 24, 2008.
88. "*Options for Soft Ground*," Soft Ground Engineering, 24th Annual Spring Seminar, ASCE Seattle Geotechnical Group, Seattle, WA. May 20, 2006.

Contributed Lectures and Presentations *(Last Updated in 2019)*

89. *"Post-Liquefaction Settlements: Spatial Variability and Correlation to Spatially Variable Soil Characteristics*," given by T. Bong, 7th Int. Symp. on Geotech. Safety & Risk (ISGSR 2019), Taipei, Taiwan, 13 Dec. 2019
90. "*Liquefaction-induced settlement estimates for a spatially variable deposit using numerical and empirical approaches*," 7th Int. Symp. on Geotech. Safety & Risk (ISGSR 2019), Taipei, Taiwan, 13 Dec. 2019.
91. "*Instrumentation and Calibration Protocols for Deep, In-Situ Liquefaction Testing with Controlled Blasting,*" given by Amalesh Jana, 7th Int. Conf. Geotechnical Earthquake Engineering, Rome, Italy, 19 June, 2019.
92. "*Torsional Response of Deep Foundations: Experimental and Numerical Investigations,*" 2019 Northwest Geotechnical Student Symposium, University of Washington, Seattle, WA. 12 April 2019.
93. "*Comparison of Surface Wave and Downhole Methods at a Blast-Induced Liquefaction Test Site,*" given by Aleyna Donaldson, 32nd Annual Meeting, Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Portland, OR, 17 March 2019
94. "*Development of New Shaft Resistance Models for Piles Driven in the Puget Sound Lowlands*," given by Youssef Bougataya, Annual Mtg. of the Deep Foundations Institute, Anaheim, CA, 25 October 2018
95. "*Torsional Shear: Experiments, Models, and Application to Deep Foundations*," given by Alejandro Martinez, IS Atlanta, Atlanta, GA, 12 September 2018
96. "*Liquefaction Mitigation using Driven Displacement Piles: Research and Case History*," ASCE Geo-Institute WebConference, 21 August 2018

97. "*Updated Bearing Capacity Models for Spread Footings on Aggregate Pier Reinforced Clay*," ASCE Geo-Institute WebConference, 21 August 2018
98. "*Axial and Lateral Load Transfer of Drilled Shaft Foundations with Permanent Casing and High-Strength Reinforcement*," given by Antonio Marinucci, SuperPile '18, Deep Foundations Institute, New York, NY, 29 June 2018
99. "*Factors Affecting the Torsional Response of Deep Foundations*," given by Qiang Li, Geotechnical Earthquake Engineering and Soil Dynamics V, Austin, TX 13 June 2018
100. "*A Case History of Liquefaction Mitigation using Driven Displacement Piles*," Int. Foundation Congress & Equip. Expo., Orlando, FL, 8 March 2018
101. *"Simplified Modeling of Driven Displacement Pile-Improved Ground Subjected to Controlled Blasting,"* Performance-Based Design III, Vancouver, BC, 16 to 19 July, 2017
102. *"CPT-based Random Field Model Parameters for Liquefiable Silty Sands,"* GeoRisk 2017, Boulder, CO, 4 to 6 June, 2017
103. *"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
104. *"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
105. "*Performance Assessment of Laterally-Loaded Normal and High Strength Steel-Reinforced Drilled Shafts using 1-D and 3-D Numerical Methods*," 16th World Conference on Earthquake Engineering, Santiago, Chile, January 9 -13, 2017. Given by Anne Lemnitzer, PhD
106. "*Permanently Cased Drilled Shafts,"* Webinar with Skyline Steel, 16 November 2016.
107. "*Comparison of Non-Destructive Integrity Tests on Experimental Drilled Shafts,"* 41st Annual Meeting, Deep Foundations Institute, New York, New York, October 12-15, 2016.
108. *"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
109. "*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
110. "*Geologic Setting and Subsurface Conditions at the Demonstration Site*," NHERI@UTexas In-Situ Liquefaction Workshop Schedule, Portland, OR, June 23, 2016
111. "*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
112. "*Ground Improvement and Liquefaction Mitigation using Driven Timber* Piles," Recent Advances in Soil Stabilization for Slopes and Embankments, Portland, OR, May 5, 2016.
113. "*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
114. "*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]
115. "*Effects of Ground Improvement on Seismic Site Response*," Geo-Structures 2016, Geotechnical & Structural Engineering Congress, Phoenix, AZ, February 14-17, 2016

116. "*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
117. *"Densification of Liquefiable Soils using Driven Timber Piles,"* 6th ICEGE, Christchurch, New Zealand, November 3, 2015
118. *"Assessment of Reliability-based Serviceability Limit State Procedures using Full-Scale Loading Tests,"* 5th ISGSR, Rotterdam, The Netherlands, October 15, 2015
119. *"Effect of Correlation Structure Model on Geotechnical Reliability-based Serviceability Limit State Simulations,"* ICASP12, Vancouver, British Columbia; July 13, 2015
120. *"Shear Wave Velocity Measurements of Stone Column Improved Ground and Effect on Site Response,"* IFCEE 2015, San Antonio, TX, March 17-21, 2015
121. *"Region-specific Load Transfer Model for Augered Cast-in-Place Piles in Granular Soils,"* IFCEE 2015, San Antonio, TX, March 17-21, 2015
122. *"Field Measurements of Pipe Ramming-Induced Ground Vibrations,"* ASCE Pipelines 2014, Portland, OR August 3 - 6, 2014.
123. *"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.
124. *"Effect of Slenderness Ratio on the Reliability-Based Serviceability Limit State Design Of Augered Cast-In-Place Piles,"* 4th International Symposium on Geotechnical Safety and Risk, Hong Kong University of Science and Technology, Hong Kong, December 4-6, 2013
125. *"Stochastic Simulation of Uplift Load-Displacement Behavior of Helical Anchors in Clays,"* 1st International Geotechnical Symposium on Helical Foundations, Amherst, Massachusetts, August 8 – 10, 2013.
126. *"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.
127. *"Random Field Modeling of Columbia River Silt,"* GeoRisk 2011, Geo-Institute, ASCE, Atlanta, GA, June 26-28, 2011
128. "*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.
129. "*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.
130. "*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.
131. "*Instrumentation and Performance of the Third Runway North MSE Wall, Seattle-Tacoma International Airport*," Field Measurements in Geomechanics 2007, ASCE, Boston, September 25, 2007.
132. *"EPS Geofoam as Bridge Foundation,"* EPS Geofoam 2002 Workshop, North American Geosynthetics Society, Past Presidents Seminar on Geofoam in Highway and Bridge Applications, Syracuse, NY, May 15, 2002.
133. *"Geofoam Research Center and EPS Geofoam 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.

134. *"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.
135. *"EPS Geofoam in Highway Construction,"* New York State Engineering Technicians Associations, NYSETA Fall 2002 Conference, SUNY Morrisville, Morrisville, NY, October 24, 2002.
136. *"Performance of A Geofoam Embankment At 100 South, I-15 Reconstruction Project, Salt Lake City, UT,"* EPS 2001, 3rd International Conference on Geofoam, Salt Lake City, December 12, 2001

International / National / Regional Conferences and Seminars Organized

1. 8th Annual Live Streaming WebConference 2023, Soil Improvement Committee Session, ASCE, 4 – 8, December 2022
2. PEER Workshop on Liquefaction Susceptibility, Pacific Earthquake Engineering Research Institute, Oregon State University, Corvallis, OR, 8-9 September 2022
3. 7th Annual Live Streaming WebConference 2022, Soil Improvement Committee Session, ASCE, 5 – 9, December 2022
4. Geo-Congress 2022, ASCE, Charlotte, NC, 20-23 March 2022
5. 6th Annual Live Streaming WebConference 2021, Soil Improvement Committee Session, ASCE, 6 – 10 December 2021
6. SuperPile '19, Deep Foundations Institute, Seattle, WA, 1 – 3 May 2019
7. Short Course on Ground Improvement and Foundation Retrofit Short Course, Anchorage Chapter of the Earthquake Engineering Research Institute, University of Anchorage, Anchorage, AK, 10 May 2019
8. Short Course on Using DEEPSOIL - An Equivalent Linear and Nonlinear Seismic Site Response Analysis Software Platform, Sponsored by Oregon State University School of Civil and Construction Engineering, Fundraiser for the OSU Geo-Institute Graduate Student Organization, Portland, OR, 16 November 2018.
9. International Foundation Conference and Equipment Exposition (IFCEE), ASCE-ADSC-DFI-PDCA, Orlando, FL, 5 to 10 March, 2018
10. GeoRisk 2017 (6th ISGSR), ASCE, Denver, CO, June 4-6, 2017
11. 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.
12. 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 22nd – 23rd, 2013.
13. 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.
14. 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 (last updated in 2017)

1. 19th International Conference on Soil Mechanics and Geotechnical Engineering, Seoul, South Korea, September 17-21, 2017.
2. Performance-Based Design III, Vancouver, BC, 16 to 19 July, 2017

3. SuperPile 2017, Deep Foundations Institute, San Diego, CA, 14 to 15 June, 2017
4. Annual Meeting of the ADSC West Coast Chapter, San Diego, CA, 18 to 20 May, 2017
5. GeoRisk 2017, Boulder, CO, 4 to 6 June, 2017
6. Annual Kansas City Geotechnical Conference 2017, Overland Park, KS, 20 April, 2017
7. GeoFrontiers 2018, Orlando, FL, 12 to 15 March, 2017
8. 69th Annual Meeting of the Earthquake Engineering Research Institute, Portland, OR, 7 to 10 March 2017
9. U.S. – New Zealand – Japan International Workshop, "Liquefaction-induced Ground Movements Effects," UC Berkeley, CA, 2-4 November, 2016
10. 41st Annual Meeting of the Deep Foundations Institute, New York, New York, October 12-15, 2016.
11. 1st International Symposium on Soil Dynamics and Geotechnical Sustainability, Hong Kong University of Science and Technology, Hong Kong, August 7-9, 2016
12. Geo-Structures 2016, Geotechnical & Structural Engineering Congress, Phoenix, AZ, February 14-17, 2016
13. 2016 Northwest Transportation Conference, Corvallis, OR, March 16, 2016
14. 6th ICEGE, International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, November 1 - 4, 2015
15. 5th ISGSR, International Symposium on Geotechnical Safety and Risk, Rotterdam, The Netherlands, October 13 - 16, 2015
16. 16th Annual Design and Installation of Cost-Efficient Piles Conference, Pile Driving Contractors Association, Newark, NJ; September 2 - 3, 2015
17. 40th Northwest Geotechnical Workshop, Federal Highway Administration, Gleneden Beach, OR, August 3 – 5, 2015
18. 12th International Conference on Applications of Statistics and Probability in Civil Engineering, Vancouver, Canada, July 12-15, 2015
19. IFCEE 2015, International Foundation Congress and Equipment Expo, San Antonio, TX, March 17-21, 2015
20. Geotechnical Frontiers – Geosynthetics 2015, Portland, OR, February 16 – 18, 2015.
21. 39th Annual Meeting of the Deep Foundations Institute, Atlanta, GA, October 21-24, 2014.
22. ASCE Pipelines 2014, Portland, OR, August 3 - 6, 2014.
23. 10th U.S. National Conference on Earthquake Engineering, Anchorage, AK, July 21-24, 2014.
24. Cascadia Co-Seismic Landslide Workshop, sponsored by the Oregon Department of Geology and Minerals Industries (DOGAMI), Portland, OR, June 25, 2014.
25. 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.
26. 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.
27. 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.
28. 4th International Symposium on Geotechnical Safety and Risk, Hong Kong University of Science and Technology, Hong Kong, December 4-6, 2013

29. 38th Annual Conference on Deep Foundations, Deep Foundations Institute, Phoenix, AZ, September 26-28, 2013.
30. 18th International Conference on Soil Mechanics and Geotechnical Engineering, Paris, France, September 2-6, 2013.
31. 1st International Geotechnical Symposium on Helical Foundations, Amherst, Massachusetts, August 8 – 10, 2013
32. Superpile 2013, Deep Foundations Institute, Minneapolis, MN, May 15-16, 2013.
33. No-Dig 2013, Annual Meeting of the North American Society for Trenchless Technology, Sacramento, CA, March 3-7, 2013.
34. 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.
35. EERI 2013: Building Resilient Communities through Policy and Mitigation, Annual Meeting of the Earthquake Engineering Research Institute, Seattle, WA, February 12-15, 2013.
36. 2013 Trenchless Symposium, Pacific Northwest Chapter of the NASTT, North American Society for Trenchless Technology, SeaTac, WA, January 24th, 2013.
37. Cascadia Subduction Zone Earthquakes and Critical Infrastructure, sponsored by the U.S. Bureau of Reclamation, Corvallis, OR, July 18-19, 2012.
38. 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.
39. 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.
40. GeoRisk 2011: Geotechnical Risk Assessment and Management, Geo-Institute, American Society of Civil Engineers (ASCE), Atlanta, GA, June 26-28, 2011
41. 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.
42. No-Dig 2011, Annual Meeting of the North American Society for Trenchless Technology, Washington, D.C., March 27-31, 2011.
43. 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.
44. Earth Retention 2010, Geo-Institute, American Society of Civil Engineers (ASCE), Bellevue, WA, August 1 – 3, 2010.
45. GeoFlorida 2010, Annual Meeting of the Geo-Institute, American Society of Civil Engineers (ASCE), Miami Beach, FL, February 21 – 24, 2010.
46. Adaptive Solutions for Changed Project Conditions, Helical Anchors and Tiebacks Seminar, Deep Foundations Institute, Las Vegas, NV, February 1, 2010.
47. U.S.-Japan Symposium on Blast-induced Liquefaction, Oregon State University, Corvallis, OR. Sept. 24-25, 2009.
48. Soil Liquefaction During Earthquakes, EERI Seminar Series, Seattle, WA. March 19, 2009.
49. 6th International Conference on Case Histories in Geotechnical Engineering (6ICCHGE), Washington D.C., August 11-16, 2008.

50. 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.
51. Development and Risk in Landslide Sensitive Areas, 25th Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, April 5, 2008.
52. Field Measurements in Geomechanics 2007 (FMGM 2007), ASCE, Boston, MA, September 24-27, 2007.
53. 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.
54. Honorary Technical Symposium for Robert Holtz, 24st Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, April 21, 2007.
55. 7th Annual ADSC / WSDOT Joint Training Constructability Workshop, Drilled Shafts, Bothell, WA, March 29, 2007.
56. Basics of Design of Piled Foundations, Short Course and Seminar by Bengt Fellenius, Seattle, WA, December 8 - 9, 2006.
57. Soft Ground Engineering, 23rd Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, May 20, 2006.
58. 100th Anniversary Earthquake Conference / 8th U.S. National Conference on Earthquake Engineering (8NCEE), EERI / SSA, San Francisco, CA, April 18-22, 2006.
59. Tunneling in the Pacific Northwest, 22nd Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, March 12, 2005.
60. Advances in Ground Improvement, 21st Annual Spring Seminar, Geotechnical Group, Seattle Section, ASCE, Seattle, WA, April 3, 2004.
61. Ground Modification and Alternative Deep Foundations Seminar, Hayward Baker Inc., Syracuse, NY, April 8, 2003.
62. EPS 2001, 3rd International Conference on Geofoam, Salt Lake City, UT, December 11-13, 2001
63. Huntsman Chemical Geofoam Seminar, Salt Lake City, UT, 2000, May 16, 2000.

Consulting Experience and Reports

Since Joining Oregon State University

Stuedlein. A.W. (2025) Laboratory Operations Evaluation, Washington Department of Transportation

Stuedlein. A.W. (2024 – present) Expert Witness, Forsberg Umlauf PS

Stuedlein, A.W. (2024 – 2025) *Confidential Project*, Prepared for Foss Consulting Limited.

Stuedlein, A.W. (2022 – 2025) "Multi-Mission Dry Dock (M2D2), Puget Sound Naval Shipyard (PSNS), Bremerton, WA", Prepared for Haley & Aldrich, Inc.

Stuedlein. A.W. (2023 – 2024) "South Runway Seismic Mitigation, Port of Portland, Portland, OR", Prepared for Geotechnical Resources, Inc.

Stuedlein, A.W. (2018 – 2019) "Channel Modification Project, Oregon International Port of Coos Bay, Coos Bay, OR," Engineering Study, Prepared for Geotechnical Resources, Inc.

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 Weyerhauser Corp., December, 2004.

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