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I. EARNED DEGREES

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|---------------------------|-----------------------------------|--------------------|
| • Ph.D. 1991 | Geotechnical Engineering | Cornell University |
| • Master Engineering 1977 | Geotechnical/Civil | Cornell University |
| • BSCE 1976 | Civil & Environmental Engineering | Cornell University |

II. EMPLOYMENT

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|----------------|--------------------------------------|---|
| • 2014-present | Professor and Geosystems Team Leader | Georgia Institute of Technology |
| • 2007-2012 | Full Professor | Georgia Institute of Technology |
| • 2000-2006 | Group Leader - Geoengineering | Georgia Institute of Technology |
| • April 2000 | Full Professor | Georgia Institute of Technology |
| • Sept. 1990 | Associate Professor | Georgia Institute of Technology |
| • Aug. 1987 | Research Assistant | Cornell University, Ithaca, NY |
| • May 1977 | Senior Geotechnical Engineer | Law Engineering Associates, McLean, VA |
| • June 1976 | Foundation Engineer | Thomsen Associates/Empire Soils, Groton, NY |

III. SCHOLARLY ACCOMPLISHMENTS

A. PUBLISHED BOOKS AND PARTS OF BOOKS

- Mayne, P.W. (1988). "Ground Improvement by Dynamic Compaction," *Civil Engineering Practice: Geotechnical and Ocean Engineering*, Chapter 32, Technomic Publishing, N.J.
- Mayne, P.W. (1993). "In-Situ Determination of Clay Stress History by Piezocone Tests," *Predictive Soil Mechanics*, Thomas Telford, London, pp. 361-373.
- Robertson, P.K. and Mayne, P.W., editors (1998), *Geotechnical Site Characterization*, 2-volumes, (Proc. First International Conference Site Characterization, ISC-1 Atlanta), Balkema Publishers, Rotterdam, 1555 p.
- Mayne, P.W. and Hryciw, R.D., editors (2000). *Innovations and Applications in Geotechnical Site Characterization* (GSP 97), ASCE, Reston, Virginia (Proc., GeoDenver Conference), 248 pages
- Turner, J. and Mayne, P.W., editors (2004). *GeoSupport 2004: Deep Foundations, Soil Mixing, Ground Improvement* (Geotechnical Special Publication No. 124), ASCE, Reston, VA, 1045 pages (both paper & CD).
- Viana da Fonseca, A. and Mayne, P.W., editors (2004). *Geotechnical & Geophysical Site Characterization*, Volumes 1 and 2, (Proceedings ISC-2, Porto), Millpress, Rotterdam, 1910 pages (hard copy and CD versions).
- Huang, A-B. and Mayne, P.W., editors (2008). *Geotechnical & Geophysical Site Characterization 2008*, Vols. 1 and 2 (CD), (Proc. ISC-3, Taipei), Taylor & Francis Group, London, 1555 p.
- Burns, S.E., Mayne, P.W., and Santamarina, J.C., editors (2008). *Deformational Characteristics of Geomaterials*, Vols. 1 and 2, (Proc. 4th IS-Atlanta), IOS-Millpress, Amsterdam: 953 p.
- Mayne, P.W., Christopher, B.S., and DeJong, J. (2008). Chapter 9: "Interpretation of Rock Properties" in *A Short Course in Geology for Civil Engineers*, by Matthews, M., Simons, N. and Menzies, B., Thomas Telford: 222-251.
- Mayne, P.W. (2009). *Geoengineering Design Using the Cone Penetration Test*. 155 p. Published by ConeTec Inc., 12140 Vulcan Way, Richmond, BC, V6V 1J8: Website: www.conetec.com
- Robertson, P.K. and Mayne, P.W., editors (2010). *Cone Penetration Testing 2010: Proceedings, 2nd Intl. Symposium on Cone Penetration Testing (CPT'10, Huntington Beach, California)*, Volumes 1, 2, and 3. Omnipress, total 1371 pages. www.cpt10.com
- Coutinho, R.Q. and Mayne, P.W., ed. (2012). *Geotechnical and Geophysical Site Characterization 4* (Proc. ISC-4, Pernambuco, Brazil), Volumes 1 and 2, CRC Press-Taylor & Francis Group, London: 1912 p.

13. Uzielli, M., Mayne, P.W. and Cassidy, M.J. (2013). Probabilistic assessment of design strengths for sands from in-situ testing data. *Modern Geotechnical Design Codes of Practice, Advances in Soil Mechanics & Geotechnical Engineering*, Vol. 1, IOS-Millpress, Amsterdam: 214-227.

B. PUBLISHED MANUALS

1. Kulhawy, F.H. and Mayne, P.W. (1990). **Manual on Estimating Soil Properties for Foundation Design**, Report No. EL-6800, Electric Power Research Institute, Palo Alto, CA: 306 p. Available from: www.epri.com
2. Mayne, P.W., Kulhawy, F.H., and Trautmann, C.H. (1992). **The Behavior of Drilled Shaft Foundations in Clay Under Static and Cyclic Lateral Loading**, Report No. TR-100221, Electric Power Research Institute, Palo Alto: 390 p. Available from: www.epri.com
3. Mayne, P.W. and Harris, D.E. (1993). **Axial Load-Displacement Response of Drilled Shaft Foundations in Piedmont Residuum**. FHWA Ref. No. 41-30-2175, Georgia Tech Report to Federal Highway Administration, Washington, D.C. 162 pages. Downloadable from: <http://geosystems.ce.gatech.edu/Faculty/Mayne/papers/index.html>
4. Chen, B.S-Y. and Mayne, P.W. (1994). **Profiling the Overconsolidation Ratio of Clays by Piezocone Tests**, Report No. GIT-CEE/GEO-94-1 to National Science Foundation by Georgia Tech, Atlanta, August 1994, 280 p. Download from: <http://geosystems.ce.gatech.edu/Faculty/Mayne/papers/index.html>
5. Burns, S.E. and Mayne, P.W. (1998). **Penetrometers for Soil Permeability and Chemical Detection**, Report No. GIT-CEE/GEO-91-1, submitted to National Science Foundation and U.S. Army Research Office, 144 p. Download from: <http://www.ce.gatech.edu/~sburns/Burns%20and%20Mayne%201998.pdf>
6. Schneider, J.A. and Mayne, P.W. (1999). **Soil Liquefaction Response in Mid-America Evaluated by Seismic Piezocone Tests**. MAE Report GT-3A, Georgia Tech Report to Mid-America Earthquake Center, 273 pages. Download from: <http://geosystems.ce.gatech.edu/Faculty/Mayne/papers/index.html>
7. Sabatini, P.J., Bachus, R.C., Mayne, P.W., Schneider, J.A. and Zettler, T.E. (2002). **Manual on Evaluating Soil & Rock Properties**, *Geotechnical Engineering Circular No. 5*, Report No. FHWA-IF-02-034, Federal Highway Administration, Washington, D.C., 385 pages. Downloadable from: <http://www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/Evaluation%20of%20Soil%20&%20Rock%20Properties.pdf>
8. Mayne, P.W., Christopher, B.R., Berg, R.R., and DeJong, J. (2002). **Subsurface Investigations - Geotechnical Site Characterization**. Publication No. FHWA NHI-01-031, National Highway Institute, Federal Highway Administration, Washington, D.C., 301 p. <http://geosystems.ce.gatech.edu/Faculty/Mayne/papers/index.html>
9. Mayne, P.W. (2007), **Synthesis 368 on Cone Penetration Testing: State-of-Practice**, NCHRP Project 20-05; Task 37-14, Transportation Research Board, National Academies Press, Washington, D.C., 118 p. http://www.trb.org/news/blurb_detail.asp?id=8306

C. REFEREED PUBLICATIONS

Articles in Refereed Archival Journals

1. Mayne, P.W. (1980). "Cam-Clay Predictions of Undrained Shear Strength", *Journal of the Geotechnical Engineering Division*, ASCE, Vol. 106 (GT11), 1219-1242.
2. Mayne, P.W. and Kulhawy, F.H. (1982). "K_o-OCR Relationships in Soil", *Journal of the Geotechnical Engineering Division*, ASCE, Vol. 108, GT6, 851-872.
3. Mayne, P.W. and Jones J.S. (1983). "Impact Stresses During Dynamic Compaction", *Journal of Geotechnical Engineering*, ASCE, Vol. 109, No. 10, 1342-1346.
4. Mayne, P.W., Jones, J.S., and Dumas, J., (1984). "Ground Response to Dynamic Compaction", *Journal of Geotechnical Engineering*, ASCE, Vol. 110, No. 6, 757-774.
5. Mayne, P.W. (1984). "K_o-s_u Relationships for Overconsolidated Clays", *Journal of Geotechnical Engineering*, ASCE, Vol. 110, No. 10, 1511-1516.
6. Mayne, P.W. (1985). "Stress Anisotropy Effects on Clay Strength", *Journal of Geotechnical Engineering*, ASCE, Vol. 111, No. 3, 356-366.
7. Mayne, P.W. (1985). "A Review of Undrained Strength in Direct Simple Shear", *Soils and Foundations*, Japanese Geotechnical Society, Vol. 25, No. 3, 64-72.
8. Olsen, H.W., Rice, T.L., Mayne, P.W., and Singh, R.D. (1986). "Piston Core Properties and Disturbance Effects", *Journal of Geotechnical Engineering*, ASCE, Vol. 112, No. 6, 608-625.
9. Mayne, P.W. (1987). "Determining Preconsolidation Stress and Penetration Pore Pressures from DMT Contact Pressures", *Geotechnical Testing Journal*, ASTM, Vol. 10, No. 3, 146-150.
10. Mayne, P.W. and Frost, D.D. (1988). "Dilatometer Experience in Washington, DC and Vicinity", *Transportation Research Record 1169*, National Academy Press, Washington, DC, 16-23.
11. Mayne, P.W., (1988). "Determining OCR in Clays from Laboratory Strength", *Journal of Geotechnical Engineering*, ASCE, Vol. 114, No. 1, 76-92.

12. Mayne, P.W. and Mitchell, J.K. (1988). "Profiling OCR in Clays by Field Vane", *Canadian Geotechnical Journal*, Vol. 25, No. 1, 150-157.
13. Mayne, P.W. and Kemper, J.B., Jr. (1988). "Profiling OCR in Stiff Clays by CPT and SPT", *Geotechnical Testing Journal*, ASTM, Vol. 11, No. 2, 139-147.
14. Mayne, P.W. and Holtz, R.D. (1988). "Profiling Stress History From Piezocone Soundings", *Soils and Foundations*, Vol. 28, No. 1, 16-28.
15. Yokel, F.Y. and Mayne, P.W. (1988). "Helical Probe Tests: Initial Calibration", *Geotechnical Testing Journal*, ASTM, Vol. 11, No. 3, 179-186.
16. Mayne, P.W. and Stewart, H.E. (1988). "Pore Pressure Response of K_0 -Consolidated Clays", *Journal of Geotechnical Engineering*, Vol. 114 (11), 1340-1346.
17. Kay, J.N. and Mayne, P.W. (1990). "Some Aspects of Interpretation of the Cone Penetration Test", *Australian Civil Engineering Transactions*, Vol. CE 32, No. 1, The Institution of Engineers, Australia, 22-28.
18. Mayne, P.W., Kulhawy, F.H., and Kay, J.N. (1990). "Observations on the Development of Pore Water Stresses During Piezo-cone Penetration in Clays", *Canadian Geotechnical Journal*, Vol. 27 (4), 418-428.
19. Mayne, P.W. and Kulhawy, F.H. (1990). "Direct and Indirect Measurements of In-Situ K_0 in Clays", *Transportation Research Record 1278*, Washington, D.C., 141-149.
20. Mayne, P.W. (1991). "Determination of OCR in Clays by Piezocone Tests Using Cavity Expansion and Critical State Concepts", *Soils and Foundations*, Vol. 31 (4), 65-76.
21. Mayne, P.W. and Rix, G.J. (1993). " G_{max} - q_c Relationships for Clays", *ASTM Geotechnical Testing Journal*, Vol. 16 (1), American Society for Testing & Materials: 54-60.
22. Mayne, P.W., Hover, K.C., and Kulhawy, F.H. (1994). "Microconcrete for Construction of Model Drilled Shaft Foundations", *Construction and Building Materials*, Vol. 8, No. 2, Butterworth-Heinemann, Oxford, 127-135.
23. Mayne, P.W. (1995). "Undrained Plastic Modulus From Original Cam-Clay", *ASCE Journal of Geotechnical Engineering* 121 (5), 448-451.
24. Mayne, P.W. and Rix, G.J. (1995). "Correlations Between Shear Wave Velocity and Cone Tip Resistance in Clays", *Soils and Foundations* 35 (2), 107-110.
25. Mayne, P.W., (1995). "Profiling Yield Stress in Clays by In-Situ Tests", *Transportation Research Record 1479*, National Academy Press, Washington, D.C, 43-50.
26. Mayne, P.W., Holtz, R.D., and Tumay, M.T. (1995). "State-of-Practice in Sampling and Testing of Overconsolidated Clays", *Transportation Research Record 1479*, Natl. Academy Press, Wash. D.C., 1-6.
27. Mayne, P.W., Kulhawy, F.H., and Trautmann, C.H. (1995). "Model Testing of Laterally-Loaded Deep Foundations", *ASCE Journal of Geotechnical Engineering* 121 (12), 827-835 .
28. Chen, B.S.Y. and Mayne, P.W. (1996). "Statistical Relationships Between Piezocone Measurements and Stress History of Clays", *Canadian Geotechnical Journal* 33 (3), 488-498.
29. Burns, S.E. and Mayne, P.W. (1996). "Small- and High-Strain Measurements of In-Situ Soil Properties Using the Seismic Cone Penetrometer", *Transportation Research Record* No. 1548, National Academy Press, Washington, D.C., 81-88.
30. Martin, G.K. and Mayne, P.W. (1997). "Seismic Flat Dilatometer Tests in Connecticut Valley Varved Clay", *ASTM Geotechnical Testing Journal* 20 (3), 357-361.
31. Mayne, P.W. and Dumas, C. (1997), "Enhanced In-Situ Geotechnical Testing for Bridge Foundations", *Transportation Research Record* 1569, National Academy Press, Washington, D.C., 26-34.
32. Mayne, P.W. and Martin, G.K. (1998). "Commentary on Marchetti Flat Dilatometer Correlations in Soils", *ASTM Geotechnical Testing Journal*, Vol. 21., No. 3, 222-239.
33. Burns, S.E. and Mayne, P.W. (1998). "Monotonic and Dilatory Porewater Pressures During Piezocone Dissipation Tests in Clay", *Canadian Geotechnical Journal*, Vol. 35 (6), 1063-1073.
34. Mayne, P.W. and Poulos, H.G. (1999). "Approximate Displacement Influence Factors for Elastic Shallow Foundation Systems", *ASCE Journal of Geotechnical & Geoenvironmental Engineering*, Vol. 125 (6), 453-460.
35. Burns, S.E. and Mayne, P.W. (1999). "Pore Pressure Dissipation Behavior Surrounding Driven Piles and Cone Penetrometers," *Transportation Research Record*, No. 1675, National Academy Press, Wash, DC., 17-23.
36. Mayne, P.W, Burns, S.E., and Circeo, L.J (2000). "High Temperature Magmavication of Geomaterials by Non-Transferred Plasma Arc", *ASCE Journal of Geotechnical & Geoenvironmental Engineering*, 126 (5).
37. Celes, J. & Mayne, P.W. 2000. "Remediation and Transformation of Kaolin by Plasma Magmavication". *Transportation Research Record*, No. 1714, National Academy Press, 65-74.
38. Finke, K., Mayne, P.W., and Klopp, R. (2001). "Piezocone Penetration in Atlantic Piedmont Residuum", *ASCE Journal of Geotechnical & Geoenvironmental Engineering* 127 (1), 48-54.
39. Schneider, J.A., Mayne, P.W., and Rix, G.J. (2001). "Geotechnical Site Characterization in the Greater Memphis Area Using Cone Penetration Tests", *Engineering Geology*, Vol. 62 (Nos. 1-3), 169-184.
40. Burns, S.E. and Mayne, P.W. (2002). "Analytical Cavity Expansion-Critical State Model for Piezocone Dissipation in Fine-Grained Soils". *Soils & Foundations*, Vol. 42 (2), 131-137.
41. Burns, S.E. and Mayne, P.W. (2002). "Interpretation of Seismic Piezocone Results for the Evaluation of Hydraulic Conductivity in Clays", *ASTM Geotechnical Testing Journal*, Vol. 25 (3), 333-340.

42. Liao, T., Mayne, P.W., Tuttle, M.P., Schweig, E.S. and Van Arsdale, R.B. (2002). "CPT site characterization for seismic hazards in the New Madrid seismic zone". *Soil Dynamics and Earthquake Engineering* 22, 943-950.
43. Hegazy, Y.A. and Mayne, P.W. (2002). "Objective Site Characterization Using Clustering of Piezocone Data". *ASCE Journal of Geotechnical & Geoenvironmental Engineering* 128 (12), 986-996.
44. Casey, T.J. and Mayne, P.W. (2002). "Development of an electrically-driven automatic downhole seismic source". *Soil Dynamics and Earthquake Engineering* 22, 951-957.
45. Gomberg, J, Waldron, B., Schweig, E., Hwang, H., Webbers, A., VanArsdale, R., Tucker, K., Williams, R., Street, R., Mayne, P.W., Stephenson, W., Odum, J., Cramer, C., Updike, R., Hutson, S. and Bradley, M. (2003). "Lithology and shear-wave velocity in Memphis, Tennessee". *Bulletin of the Seismological Society of America*, Vol. 93 (3), 986-997.
46. Mayne, P.W. (2005). "Unforeseen large settlements of mat foundation on Piedmont residuum", *International Journal of Geoengineering Case Histories: Vol. 1 (1): 5-17*: <http://casehistories.geoengineer.org/contents.html>
47. Mayne, P.W. (2006). The 2006 James K. Mitchell Lecture: Undisturbed sand strength from seismic cone tests. *Geomechanics & Geoengineering: An International Journal* 1 (4): 239-257.
48. Liao, T. and Mayne, P.W. (2007). Stratigraphic delineation by three-dimensional clustering of piezocone data. *GeoRisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, Vol. 1 (2), Taylor & Francis: 107-119.
49. Juang, C.H., Chen, C-H., and Mayne, P.W. (2008). CPTu-simplified stress-based model for evaluating soil liquefaction potential. *Soils & Foundations* 46 (6), Japanese Geotech Society: 755-770.
50. Schneider, J.A., Randolph, M.F., Mayne, P.W. and Ramsey, N.R. (2008). Analysis of factors influencing soil classification using normalized piezocone tip resistance and pore pressure parameters. *Journal of Geotechnical & GeoEnvironmental Engineering* 134 (11): 1569-1586.
51. Mayne, P.W. and Niazi, F.S. (2009). Evaluating axial elastic pile response from cone penetration test results. (The 2009 Michael W. O'Neill Lecture). *DFI Journal* 3 (1), Deep Foundations Institute: 56-65. www.dfi.org
52. Niazi, F.S. and Mayne, P.W. (2010). Evaluation of EURIPIDES pile load tests response from CPT data. *Intl. Journal of GeoEngineering Case Histories*, IJGCH Vol. 1, Issue 4: 367-386. Download: <http://casehistories.geoengineer.org>
53. Mayne, P.W. and Ellingwood, B.E. (2010). George F. Sowers (1921-1996). *Memorial Tributes*, (Vol. 13), National Academy of Engineering, Washington DC: 285-288.
54. Uzielli, M. and Mayne, P.W. (2011). Serviceability limit state CPT-based design for vertically-loaded shallow footings on sand. *Geomechanics and Geoengineering* 6 (2): 91-107.
55. Uzielli, M. and Mayne, P.W. (2012). Load-displacement uncertainty of vertically-loaded shallow footings on sands and effects on probabilistic settlement estimation. *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*. Vol. 6 (1): Taylor & Francis: 50-69.
56. Schneider, J.A., Hotstream, J.N., Mayne, P.W. and Randolph, M.F. (2012). Comparing CPTu Q-F and $Q-\Delta u_2/\sigma_{vo}'$ soil classification charts. *Geotechnique Letters*, Vol. 2 (issue: Oct-Dec): 209-215.
57. Ku, T. and Mayne, P.W. (2012). Frequent-interval SDMT and continuous SCPTu for detailed shear wave velocity profiling in soils. *Geotechnical Engineering Journal* 43 (4), SouthEast Asian Geotechnical Society: 34-40.
58. Ku, T., Mayne, P.W. and Cargill, E. (2013). Continuous-interval shear wave velocity profiling by auto-source and seismic piezocone tests. *Canadian Geotechnical Journal* 50 (1): 382-390.
59. Ku, T. and Mayne, P.W. (2013). Profiling of K_0 lateral stress coefficient in soils using paired directional G_0 ratios. *Journal of Applied Geophysics* 94, Elsevier: 15-21.
60. Kelly, R., Pineda, J.A. and Mayne, P.W. (2013). In-situ and laboratory testing of soft clays. *Australian Geomechanics Journal* 48 (3): 61-72.
61. Ku, T. and Mayne, P.W. (2013). Yield stress history evaluated from paired in-situ shear moduli of different modes. *Engineering Geology* 152, Elsevier: 122-132.
62. Ku, T. and Mayne, P.W. (2013). Evaluating the in-situ lateral stress coefficient (K_0) of soils via paired shear wave velocity modes. *Journal of Geotechnical & Geoenvironmental Engrg.* 139 (5): 775-787.
63. Niazi, F.S. and Mayne, P.W. (2013). Cone penetration test based direct methods for evaluating static axial capacity of single piles. *Geotechnical and Geological Engineering*, An International Journal 31 (4), Springer: 979-1009.
64. Ku, T. and Mayne, P.W. (2014). Stress history profiling in soils using OCD- G_0 anisotropy relationships. *Geotechnical Engineering* 167 (GE5), Institution of Civil Engineers, London: 476-490.
65. Niazi, F.S. & Mayne, P.W. (2014). Axial pile response of bi-directional O-cell loading from modified analytical elastic solution and downhole shear wave velocity. *Canadian Geotechnical Journal* 51(11): 1284-1302.

Peer-Reviewed/Refereed Proceedings Papers (full paper review) [*Note: indicates presenter]

1. Mayne, P.W. and Swanson, P.G., (1981). "The Critical-State Pore Pressure Parameter from Consolidated Undrained Shear Tests", *Laboratory Shear Strength of Soil* (STP 740), ASTM, Philadelphia, pp. 410-430.
2. Mayne, P.W. and Holtz, R.D., (1985). "Effect of Principal Stress Rotation on Clay Strength", *Proceedings*, 11th International Conference on Soil Mechanics and Foundation Engineering (2), San Francisco, pp. 579-582.
3. Mayne, P.W., (1985). "Ground Vibrations During Dynamic Compaction", *Vibration Problems in Geotechnical Engineering*, ASCE, New York, NY, pp. 247-265.

4. *Mayne, P.W., (1986). "CPT Indexing of In-Situ OCR in Clays", *Use of In-Situ Tests in Geotechnical Engineering* (GSP 6), ASCE, New York, NY, pp. 780-793.
5. *Mayne, P.W. and Bachus, R.C., (1988). "Profiling OCR in Clays by Piezocone Soundings", *Penetration Testing_1988*, Vol. 2 (ISOPT-1), Balkema, Rotterdam, pp. 857-864.
6. Mayne, P.W. and Bachus, R.C., (1989). "Penetration Porewater Pressures in Clay by CPTU, DMT, and SBP", *Proceedings*, 12th Intl. Conference on Soil Mechanics and Foundation Engineering, Vol. 1, Rio de Janeiro, pp. 291-294.
7. *Mayne, P.W., (1989). "Site Characterization of Yorktown Formation for New Accelerator", *Foundation_Engineering: Current Principles and Practices* (GSP 22), Vol. 1, ASCE, NY, pp. 1-15.
8. Kulhawy, F.H., Jackson, C.S., and *Mayne, P.W., (1989). "First Order Estimation of K_0 in Sands and Clays", *Foundation Engineering: Current Principles and Practices* (GSP 22), Vol. 1, ASCE, NY, pp. 121-134.
9. *Mayne, P.W., Kulhawy, F.H., and Trautmann, C.H., (1994). "Nonlinear Undrained Lateral Response of Rigid Drilled Shafts Using Continuum Theory", *Vertical and Horizontal Deformations of Foundations and Embankments* (1), ASCE GSP 40, pp. 663-676.
10. *Harris, D.E. and Mayne, P.W., (1994). "Axial Load Behavior of Drilled Shaft Foundations in Piedmont Residuum", *Proc., Intl. Conf. on Design and Construction of Deep Foundations*, Vol. II (Orlando), Federal Highway Administration, Washington DC: 352-368.
11. *Hegazy, Y.A., Mayne, P.W., and Rouhani, S., (1996). "Geostatistical Assessment of Spatial Variability in Piezocone Tests", *Uncertainty in the Geologic Environment: From Theory to Practice* (GSP 58), Vol. 1, ASCE, NY: 254-268.
12. *Mayne, P.W., Martin, G.K., and Schneider, J.A. (1999). "Flat Dilatometer Modulus Applied to Drilled Shaft Foundations in Piedmont Residuum", *Geotechnical Special Publication 92*, ASCE, Reston, Virginia: 1-12.
13. *Finke, K.A., Mayne, P.W., and Klopp, R.A. (1999). "Characteristic Piezocone Response in Piedmont Residual Soils," *Behavioral Characteristics of Residual Soils*, GSP 92, ASCE, Reston, 1-11.
14. *Schneider, J.A., Hoyos, L., Mayne, P.W., Macari, E.J., and Rix, G.J. (1999). "Field and Lab Measurements of Dynamic Shear Modulus of Piedmont Residual Soils," *Behavioral Characteristics of Residual Soils*, GSP 92, (Proc., ASCE National Convention, Charlotte), 12-25.
15. *Mayne, P.W., Brown, D.A., Vinson, J., Schneider, J.A. and Finke, K.A. (2000). "Site Characterization of Piedmont Residuum at the NGES, Opelika, Alabama", *National Geotechnical Experimentation Sites*, GSP 93, ASCE: 160-185.
16. *Schneider, J.A. and Mayne, P.W. (2000). "Liquefaction Response of Soils in Mid-America Evaluated by Seismic Cone Tests", *Innovations & Applications in Geotechnical Site Characterization* (GSP 97), ASCE, Reston 1-16.
17. *McGillivray, A., Casey, T., Mayne, P.W. and Schneider, J.A. (2000). "An Electro-Vibrocone for Site-Specific Evaluation of Soil Liquefaction Potential", *Innovations & Applications in Geotechnical Site Characterization* (GSP 97), ASCE: 106-117.
18. *Schneider, J.A. and Mayne, P.W. (2000). "Ground Improvement Assessment Using SCPTUs and Crosshole Data", *Innovations & Applications in Geotechnical Site Characterization* (GSP 97), ASCE, Reston, 169-180.
19. Mayne, P.W. and Schneider, J.A (2001). "Evaluating Axial Drilled Shaft Response by Seismic Cone", *Foundations & Ground Improvement*, GSP 113, (GeoOdyssey 2001), ASCE, Reston/VA, 655-669.
20. *Mayne, P.W. (2001). Invited Keynote Lecture: "Stress-Strain-Strength-Flow Parameters from Enhanced In-Situ Tests", *Proceedings, Intl. Conf. on In-Situ Measurement of Soil Properties & Case Histories* (In-Situ 2001), Bali: 27-47.
21. *Camp, W., Mayne, P.W., and Brown, D.A. (2002). "Drilled shaft axial design values: Predicted vs. Measured response in a calcareous clay". *Deep Foundations 2002*, Vol. 2, GSP No. 116, ASCE, Reston/VA, 1518-1532.
22. Camp, W., *Brown, D.A., and Mayne, P.W. (2002). "Construction Method Effects on Axial Drilled Shaft Performance", *Deep Foundations 2002*, Vol. 1, GSP No. 116, ASCE, Reston/VA, 193-208.
23. *Mayne, P.W. and Brown, D.A. (2003). "Site characterization of Piedmont residuum of North America". *Characterization and Engineering Properties of Natural Soils*, Vol. 2, Swets & Zeitlinger, Lisse, 1323-1339.
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16. *Schneider, J.A., Peuchen, J., Mayne, P.W. and McGillivray, A.V. (2001). Piezocone profiling of residual soils. *Proceedings, Intl. Conf. on In-Situ Measurement of Soil Properties and Case Histories*, Bali, Indonesia, 593-598.
17. Mayne, P.W., Fahey, M., Massarsch, R., Huang, A-B, Ervin, M., and Tohumcu, P. (2002). "General Report on Ground Property Characterization by In-Situ Tests", Session 1.2, *Proceedings, 15th International Conference on Soil Mechanics and Geotechnical Engineering*, Istanbul, Vol. 4, 2703-2704.
18. Liao, T. and *Mayne, P.W. (2002). "Evaluation of Soil Liquefaction Potential and Dynamic Soil Properties by Seismic Piezocone", *Proceedings, International Conference on Advances & New Challenges in Earthquake Engineering Research (ANCER 2002)*, Polytechnic University, Hong Kong, 115-122.
19. Elhakim, A.F. and *Mayne, P.W. (2003). "Derived stress-strain-strength of clays from seismic cone tests". *Deformation Characteristics of Geomaterials*, Vol. 1, (Proc. Lyon'03, France), Swets & Zeitlinger, Lisse, 81-87.
20. Mayne, P.W. (2003). "Class A footing response prediction from seismic cone tests". *Deformation Characteristics of Geomaterials*, Vol. 1, (Proc. Lyon'03, France), Swets & Zeitlinger, Lisse: 883-888.
21. Mayne, P.W. and Powell, J.J.M. (2011). Report of the TC16 - Ground property characteristics by in-situ tests. *Proceedings of the 17th ICSMGE*, Vol. 5 (Alexandria), Millpress/IOS Press, Amsterdam: 3754-3756.
22. Mayne, P.W. (2012). Invited keynote: Geotechnical exploration in the year 2012. *Proceedings 16th Nordic Geotechnical Meeting*, Vol. 1, Danish Geotechnical Society, Copenhagen: 11-27.

Non-Refereed Conference Proceedings (without presentation)

1. Mayne, P.W., and Kulhawy, F.H., "Load-Displacement Behavior of Laterally-Loaded Rigid Drilled Shafts in Clay", *Piling and Deep Foundations*, Vol. 1, Balkema, Rotterdam, 1991, 409-413.
2. Benson, C., Briaud, J-L., and Mayne, P.W., "In-Situ Tests and Nondestructive Tests: Research Needs", *Proceedings, U.S.-China Workshop on Cooperative Research in Geotechnical Engineering*, National Science Foundation/USA and National Natural Science Foundation/PRC, Shanghai, Sept. 1992, 99-116.
3. Chen, B.S.Y. and Mayne, P.W., "Piezocone Evaluation of Undrained Shear Strength in Clays", *Proceedings, 11th Southeast Asian Geotechnical Conference*, Singapore, May 1993, 91-98.
4. Mayne, P.W., "CPT-Based Prediction of Footing Response", *Predicted and Measured Behavior of Five Spread Footings on Sand (GSP 41)*, ASCE, New York, 1994, 214-218.
5. Circeo, L.J. and Mayne, P.W., "In-Situ Thermal Stabilization of Road and Airfield Foundation Soils Using Plasma Arc Technology", *Proceedings, 4th Intl. Conf. on Bearing Capacity of Roads and Airfields*, Minneapolis, July 17-21, 1994.
6. Mayne, P.W. and Chen, B.S.Y., "Preliminary Calibration of PCPT-OCR Model for Clays", *Proceedings, 13th International Conf. on Soil Mechanics and Foundation Engineering*, Vol. 1, New Delhi, 1994, 283-286.
7. Vidic, S.D., Beckwith, G.H. and Mayne, P.W., "Profiling Mine Tailings With CPT", *Proceedings, Cone Penetration Testing (CPT'95)*, Vol. 2, Linköping, Sweden, 1995, 607-612.
8. Mayne, P.W. and Kulhawy, F.H., "First-Order Estimate of Yield Stresses in Clays by Cone and Piezocone", *Proceedings, Cone Penetration Testing*, Vol. 2, Linköping, Sweden, 1995, 221-226.
9. Chen, B.S.-Y. and Mayne, P.W., "Type 1 and 2 Piezocone Evaluations of OCR in Clays", *Proceedings, Cone Penetration Testing*, Vol. 2, Linköping, Sweden, 1995, 143-148.
10. Mayne, P.W., Mitchell, J.K., Auxt, J.A. and Yilmaz, R., "U.S. National Report on Cone Penetration Testing", *Proceedings, International Symposium on Cone Penetration Testing (CPT'95)*, Vol. 1, Linköping, Sweden, [invited paper for US National Society of ISSMGE], Oct. 1995, 263-276.
11. Burns, S.E. and Mayne, P.W., "Coefficient of Consolidation from Piezocone Dissipation Tests in Over-consolidated Clays", *Proceedings, Cone Penetration Testing (CPT'95)*, Vol. 2, Linköping, Sweden, Swedish Geotechnical Society Report 3:95, 1995, 137-142.
12. Hegazy, Y.A. and Mayne, P.W., "Statistical Correlations Between Vs and CPT Data for Different Soil Types", *Proceedings, Cone Penetration Testing (CPT'95)*, Vol. 2, Linköping, Sweden, 1995, 173-178.
13. Vidic, S.D., Mayne, P.W., Beckwith, G.H. and Burns, S.E., "Seismic CPT Profiling of Mine Tailings Dams", *Proceedings, International Symposium on Seismic and Environmental Aspects of Dams Design*, ISSMFE & ICOLD, Santiago, Oct. 1996.

14. Hegazy, Y.A., Mayne, P.W., and Rouhani, S., "Three Dimensional Geostatistical Evaluation of Cone Data in Piedmont Residual Soils", *Proceedings, 14th Intl. Conf. Soil Mechanics & Foundation Engineering*, Vol. 1 Hamburg, Sept. 1997, A.A. Balkema, Rotterdam, 683-686.
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17. Finke, K. and Mayne, P.W., "Piezocone Tests in Residual Silts of the U.S. Atlantic Piedmont", *Proceedings, XI Pan American Conference on Soil Mechanics & Geotechnical Engineering*, Vol. 2, Iguazu, Brazil, August 1999, 329-334.
18. Wise, C.M., Mayne, P.W., and Schneider, J.A. (1999). "Prototype Piezovibrocone for Evaluating Soil Liquefaction Susceptibility", *Earthquake Geotechnical Engineering*, (Proc. 2nd ICEGE, Lisbon), Balkema, Rotterdam, 537-542.
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21. Mayne, P.W. and Elhakim, A.F. (2001). In-Situ Plasma Vittrification of Geomaterials. *Proceedings, 15th International Conference on Soil Mechanics & Geotechnical Engineering*, Vol. 3, Istanbul, Balkema/Rotterdam, 1807-1810.
22. Liao, T. and Mayne, P.W. (2002). "Evaluation of Dynamic Soil Properties and Soil Liquefaction Potential by Seismic Piezocone", *Proceedings, International Conference on Advances & New Challenges in Earthquake Engineering Research (ICANCEER)*, Session 3A, Shangri-La Hotel, Harbin, China.
23. Mayne, P.W. and Elhakim, A. (2002). "Axial Pile Response Evaluation by Geophysical Piezocone Tests", *Proc. Ninth Intl. Conf. on Piling & Deep Foundations*, DFI, Nice, Presses de l'ecole Nationale des Ponts et Chaussees: 543-550.

Technical Reports

1. Yokel, F.Y. and Mayne, P.W. (1986). Helical probe tests for shallow soil exploration, Report NBSIR 86-3351, National Bureau of Standards, Wash. D.C., p. 52.
2. Schneider, J., Waggener, K., and Mayne, P.W. (1996). Plasma vittrification experiments on SRS soils, Geosystems Engineering/CEE, Georgia Institute of Technology, Atlanta.
3. Mayne, P.W., Burns, S.E., Hegazy, Y.A., and Kates, G. (1996). Report of seismic piezocone and flat dilatometer tests, Pemiscot & Dunklin Counties, MO. GTRC Report E20-M04 to Missouri DOT, Jefferson City, MO, 85 p.
4. Schneider, J.A. and Mayne, P.W. (1998). Results of seismic piezocone penetration tests performed in Memphis TN and West Memphis AR. Interim Report GT-3 to Mid-America Earthquake Center, GIT/CEE, 55 pages.
5. Sabha-Kablawi, H., Mayne, P.W., Celes, J. and McGillivray, A. (1998). Geotechnical Calibration Program for an Optics-Chemical Sensor Module for CPT Detection of BTEX Contaminants, GTRI No. A-5507, CEE E20-601: 255 p.
6. Schneider, J.A. and Mayne, P.W. (1998). Results of seismic piezocone and flat plate dilatometer tests in Arkansas, Missouri, and Tennessee. MAE Project GT-3, GTRC No. E-20-677 to Mid-America Earthquake Center.
7. Casey, T., McGillivray, A., and Mayne, P.W. (1999). Results of seismic piezocone tests for Marriott expansion, Memphis, TN, GTRC Project E-20-E87 to Dames & Moore, San Francisco, CA, 44 pages.
8. Liao, T., Zavala, G., Camp, W. and Mayne, P.W. (2000). Results from seismic piezocone tests: Five sites at Mud Island, Memphis, TN. GTRC Project E-20-F47 to U.S. Geological Survey Central District, Memphis.
9. Liao, T., Zavala, G., McGillivray, and Mayne, P.W. (2001). Seismic Ground Hazard Mapping in New Madrid Seismic Zone by CPT (November 1, 2001). GTRC No. E-20-G42 to U.S. Geological Survey, Reston/VA.
10. Liao, T., Zavala, G., McGillivray, Camp, W. and Mayne, P.W. (2001). Cone Penetration Testing for Seismic Hazards Evaluation in Memphis & Shelby County, TN (28 March, 2001). GTRC No. E-20-F47 to USGS, Reston/VA.
11. Liao, T., Zavala, G., McGillivray, and Mayne, P.W. (2002). USGS Final Report - Seismic Ground Hazard Mapping in New Madrid Seismic Zone by CPT (March 1, 2002). GTRC No. E-20-G42, Georgia Tech, Atlanta, GA.
12. Mayne, P.W. (2003). Report on Ground Deformation Modeling. MAE Project No. HD-7a, GTRC No. E-20-H53 to Mid-America Earthquake Center, UIUC, Urbana-Champaign, IL, 25 pages.
13. Mayne, P.W. (2004). Final Report: Seismic Ground Deformation Modeling, Research Project HD-7 to Mid-America Earthquake Center, GT No. E-20-H53 and E-20-3F8, Geosystems Engineering/CEE, Atlanta, GA, 190 pages.
14. Mayne, P.W. and Zavala, G. (2003). Cone Penetration Testing for Evaluating Bridge Pile Response. *GTRC Report E20-H71* to Georgia DOT (Project 2021), Forest Park GA: 201 p.
15. Mayne, P.W., Liao, T., McGillivray, A. and Zavala, G. (2003). In-Situ Testing for Dynamic Compaction: Runway 5 at Atlanta Hartsfield Airport. *GTRC Project E20-855* to Archer Western Contractors, Inc., Atlanta, GA, 75 pages.
16. Mayne, P.W. (2006). Interim Report on Reconnaissance Visits: *Assessing Highway Underdrain Performance in Georgia*. GTI R6038 Report to Georgia Dept of Transportation, Georgia Transportation Institute, Atlanta: 164 p.
17. Larrahondo, J.M., Mayne, P.W., McGillivray, A.V., and Atalay, F. (2007). *Final Technical Report: Assessing Highway Underdrain Performance in Georgia*. GTI R6038 Report to Georgia Dept of Transportation (Project B02-662), Georgia Transportation Institute, Atlanta: CEE Project No. E20-K86: 192 p.

18. Mayne, P.W. (2012). Geotechnical Review of Laboratory Testing for Port of Anchorage Expansion, *GTRC Report No. E20-T32* submitted to CH2M-Hill Engineering, Bellevue, WA.
19. Mayne, P.W. (2013). Geotechnical Advisement: LASHIP, Houma, Louisiana; *GTRC Final Report E20-U92* submitted to Terracon Engineering, San Antonio, TX by Georgia Tech Research Corporation.
20. Tuttle, M.P., Wolf, L.W., Mayne, P.W., Dyer-Williams, K. and Lafferty, R.H. (2013). Guidance Document: Paleoliquefaction Studies (draft), U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research, Washington, DC 20555-0001, prepared by Tuttle & Associates, Maine; 137 p.
21. Burns, S.E., Mayne, P.W. and Santamarina, J.C. (2014). Comprehensive GeoCharacterization of the Santee Formation and Its Implications for Engineering Behavior. *GTRC Report E20-P57* submitted to Savannah River Site (SRS), Aiken, SC and Defense Nuclear Facilities Safety Board (DNFSB), Washington, DC; prepared by CEE Geosystems Engineering, Georgia Tech Res. Corp., Atlanta, GA: 267 p.
22. Mayne, P.W. (2014). GeoCharacterization at Power Plant Facilities, *GTRC Final Report E20-VI4* to Tennessee Valley Authority, Chattanooga, TN; prepared by Geosystems Engineering/CEE Georgia Tech Research Corp.
23. Mayne, P.W. (2014). Automated Methodology to Evaluate Undrained Shear Strength from Offshore Piezocone Tests, *GTRC Report E20-U94* submitted to Fugro Engineers, Leidschendam, The Netherlands prepared by Georgia Tech Research Corp.

Editorial Service for Workshops

1. Editor, *Proceedings on Lateral & Rotational Stiffness of Highway Bridges*, FHWA Technical Workshop, Crystal City, Virginia, June 1993, 313 p.
2. Editor, *Journal of Geotechnical Engineering, ASCE: 1993-1994*.
3. Associate Editor, *Journal of Geotechnical Engineering, ASCE: 1992-1993*.
4. Managing Editor, "Engineering Properties and Practice in Overconsolidated Clays", *Transportation Research Record 1479*, National Academy Press, Washington, D.C., 1995, 112 p.
5. Co-Editor (with Dr. J. Mulholland), *Proceedings, International Symposium on Environmental Technologies: Plasma Systems & Applications*, Atlanta, October 1995 (two volumes), 701 p.
6. Co-Editor (with A-B. Huang, Y-S. Fang, and S.G. Paikowsky), *Proceedings, U.S.-Taiwan Geotechnical Engineering Collaboration Workshop*, Taipei, 1995, 366 p.
7. Co-Editor (with Christopher Dumas), *Proc. Design for Bridges for Extreme Events*, Federal Highway Administration, Washington, DC: December 1996, 365 p.

Magazine Articles

1. Mayne, P.W., "Plasma Vitrification of Contaminated Ground and Wastes", *Geotechnical News* 12 (4), December 1994, BiTech Publishers, Vancouver, pp. 41-43.
2. Mayne, P.W., "George F. Sowers (1921-1996)", *Geotechnical News* 12 (4), 1997, BiTech, Vancouver, BC: p. 55.
3. Mayne, P.W. (2001). "Enhanced Geotechnical Site Characterization for Evaluating Drilled Shaft Response". *Foundation Drilling*, Vol. XXI, No.3, March 2001, Intl. Association of Foundation Drilling, Dallas, Texas: 30-32.
4. Mayne, P.W. (2008). Evaluating deep foundations by in-situ tests. *GeoStrata* Vol. 11, (Issue 8), Dec. 2008, ASCE GeoInstitute, Reston/Virginia: 18-20.
5. Brown, D.A. and Mayne, P.W. (2012). Piedmont residual soils and rocks. *GeoStrata* Vol. 16 (Issue 6), Dec. 2012, ASCE, Reston, Virginia: 18-22.

Novel Publications

1. Mayne, P.W. and Beaver, J.R., "High-Temperature Plasma Vitrification of Geomaterials", *Electronic Journal of Geotechnical Engineering*, October 1996, <http://www.civen.okstate.edu/ejge>.
2. Downloadable Educational Tools: Animated Powerpoint Presentations for Crosshole, Downhole, Refraction, and Seismic Cone Testing: <http://geosystems.ce.gatech.edu>
3. Downloadable Educational Tools: GROW = Geotechnical, Rock, and Water Resources Library: animated geophysics showing field test procedures. <http://www.grow.arizona.edu/>

Editorials

1. Frost, J.D. and Mayne, P.W., "Professor George F. Sowers (1921-1996)", *Journal of Geotechnical & Geoenvironmental Engineering*, Vol. 123, No. 6, p. 497.
2. Rix, G.J. and Mayne, P.W. "Professor Richard D. Barksdale (1938-2007)", *Geotechnical News*, BiTech Publishers, B.C.

Television/Radio

1. Circeo, L.J. and Mayne, P.W. (1995). “Plasma Remediation of In-Situ Materials”, *CNN Futurewatch* with David George, Atlanta, GA.
2. Mayne, P.W. (1996). “Marriott Sinkhole Collapse in Midtown Atlanta”, *Channel 46 News*, Atlanta, GA.
3. Mayne, P.W. (1995). “In-Situ Plasma Vitrification of Soils”, *BBC Interview* by Dr. Chris Wescott, London.

D. PRESENTATIONS

Keynote Addresses and Plenary Lectures

1. *Keynote Lecture*, ASCE Annual Seminar, National Capital Section: “Profiling Overconsolidation Ratio in Clays by Dual-Element Piezocones”, National Institute of Standards and Technology, Gaithersburg, MD., January 27, 1994.
2. *Keynote Lecture* (with Prof. R.D. Holtz): “Enhanced In-Situ Testing for Site Characterization” 9th Colombian Geotechnical Jubilee, Bogota, Oct. 15-18, 1997, Ingeominas Society, Colombia.
3. *Keynote Lecture*, ASCE Annual Nebraska Section Seminar on *In-Situ Soil Testing & Analysis*, Kiewit Conference Center, Omaha; “Enhanced In-Situ Testing for Geotechnical Explorations,” February 27, 1998.
4. *Keynote Lecture*, 27th Midwest Geotechnical Conference - FHWA Region 5. “In-Situ Geotechnical Testing”; Participating DOTs from MI, IL, IN, OH, MN, NB, IO. Oct. 14 -16, 1998.
5. *Keynote Lecture*, 47th Annual Geotechnical Conference, University of Minnesota, St. Paul, Feb. 19, 1998: “Enhanced In-Situ Testing for Geotechnical Site Characterization.”
6. *Keynote Lecture*, “Hybrid Geotechnical Testing for Site Characterization,” Society of American Military Engineers (SAME), Atlanta, September 9, 1999.
7. *Keynote Lecture*, 1999 Annual ASCE Pittsburgh Geotechnical Engineering Seminar, “Enhanced In-Situ Geotechnical Testing”, November 13.
8. *Keynote Presentation*, “Seismic Piezocone Use for Foundation Analysis in the Piedmont”, ASCE Atlanta Geotechnical Section, Georgia Power, November 16, 1999.
9. *Keynote Lecture*, Fourth International Geotechnical Engineering Conference, “Applications of Seismic Penetration Testing in Geotechnical Explorations,” January 24 - 27, 2000 by Cairo University, Egypt.
10. *Keynote Lecture*. *In-Situ 2001*, International Conference on In-Situ Measurement of Soil Properties & Case Histories in Geotechnical Engineering, Bali, Indonesia.
11. *Invited Discussion Leader*, Session 1.2, Ground Property Characterization by In-Situ Tests, with M. Fahey, M. Ervin, R. Massarsch, A-B. Huang, & P. Tomukcu, 15th ICSMGE, Istanbul, August 28, 2001.
12. *Invited Keynote*: ASCE Geotechnical Section and University of Kentucky, December 9, 2003.
13. *Invited Keynote*: *CIGMAT 2004* (Center for Innovative Geomaterials and Testing), Univ. Houston, March 2004.
14. *Invited Keynote*: ASCE Geotechnical Spring Seminar, North Carolina Section, Charlotte, NC, May 5, 2004.
15. *Invited Keynote*: Integrated Ground Behavior: In-Situ and Laboratory Testing, *Deformation Characteristics of Geomaterials*, (Proc. Lyon 2003), published in Volume 2 (2005).
16. *James K. Mitchell Lecture* (05 June 2006), delivered at GeoShanghai Conference.
17. Invited Presentation (with Harry Poulos): *Enhanced Geotechnical Site Characterization*, Civil Engineering Dept., Tongji Univ., Shanghai, June 2006.
18. *Invited Keynote*: Overview on In-Situ Testing. *Characterization & Engineering Properties of Natural Soils*, Proceedings Singapore Workshop, Dec. 01, 2006.
19. Invited Lecturer: Cross-Canada Lecture Tour, Fall 2007, Canadian Geotechnical Society. Lectures given in Quebec, Ottawa, Kingston (2), Toronto, Fredericton, St. John's, Winnipeg, Edmonton (2), Victoria, and Vancouver.
20. Invited Keynote: Geo-Omaha Annual Geotechnical Seminar, 15 Feb. 2008.
21. Invited Lecturer: Montreal Section, Canadian Geotechnical Society, June 2008.
22. Invited Seminar Lecturer: Enhanced In-Situ Testing for Offshore Investigations, Fugro Engineers BV (30 participants), Leidshendam, The Netherlands, July 2008.
23. Invited Keynote: Piezocone Testing in Maritime Site Investigations, 11th Baltic Sea Geotechnical Conference, Gdansk, Poland, 22 Sept. 2008.
24. *Michael W. O'Neill Lecture*, University of Houston, CIGMAT Conference (350 attendees), 09 March 2009.
25. Invited Seminar Lecturer: *GeoMO'09* - Annual Seminar, Dept. Civil & Env. Engineering, Missouri Univ. Science & Technology (Rolla), 08 May 2009.
26. Invited Seminar Lecturer: Enhanced In-Situ Testing for Geotechnical Site Characterization (44 participants), Universite Politecnica de Catalunya, 18-19 June 2009.
27. Invited Keynote: Applied CPT to Site Investigations. Cone Penetrometer Seminar, Torremirona Club House, Girona, Spain, 21 June 2009, sponsored by iGeotest, Inc.
28. Invited State-of-the Art (SOA-1) Keynote Presentation: Geomaterial Behavior and Testing: The 17th International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, Egypt (October 2009).

29. Invited Opening Keynote: Summary of Regional Reports: 2nd International Symposium on Cone Penetration Testing (CPT'10), Huntington Beach, CA (May 2010).
30. Invited Speaker: CPT Seminar. Geotechnical Engineers of Central America. Hyatt Hotel, Guatemala City (27 May 2010). Hosted by Swissboring Rodio and Conetec.
31. Keynote Presentation: Geotechnical Site Characterization in the Year 2011. The 6th annual *Geo³T² Conference* by NCDOT in Raleigh on 05-06 April 2011: <http://www.ncdot.org/doh/preconstruct/highway/geotech/geo3t2/>
32. Keynote Presentation: Modern Geotechnical Site Characterization. ASCE Geotechnical Engineers, National Capital Section, Washington DC on Wednesday 12 October 2011.
33. Keynote Presentation: State-of-the-art on Geomaterial Testing & Behavior. Deltares/GeoDelft at TU Delft, Holland on 02 November 2011.
34. Mayne, P.W. (2012). Invited SOA report: Geotechnical site characterization in the year 2012 and beyond. *State-of-the-Art and Practice*, ASCE GeoCongress (GSP), Oakland, CA: www.geoinstitute.org
35. Mayne, P.W. (2012). Invited keynote: Enhanced site investigation. *Proceedings, Nordic Geotechnical Conference*, Copenhagen, DK: 09 -12 May: <http://www.ngm2012.dk/>
36. Mayne, P.W. (2012). Invited keynote: Quandry in geomaterial characterization: new vs. old. *Shaking the Foundations of Geotechnical Engineering*, ISSMGE GeoEducation Comm., Galway, IE: 04-06 July: www.sfge2012.org
37. Mayne, P.W. (2013). Invited Keynote Lecture: Geotechnical site characterization and GeoEducation in 2013 and Beyond. 61st Annual Meeting of the Minnesota Geotechnical Society, St. Paul, MN (Feb. 2013)
38. Mayne, P.W. (2013). Invited Keynote Lecture: Geocharacterization and GeoEducation in 2013 and Beyond. Queensland Section of the Australian Geomechanics Society, Brisbane (12 June 2013)
39. Mayne, P.W. (2013). Invited Keynote Lecture: Geocharacterization and GeoEducation in 2013 and Beyond. New South Wales Section of the Australian Geomechanics Society, Brisbane (17 June 2013)
40. Mayne, P.W. (2013). Invited Keynote Lecture: Geotechnical In-Situ Testing and GeoEducation in 2013 and Beyond. GeoTexas 2013: Raising the Bar in Geotechnical Engineering, Dallas, 13 Sept 2013.
41. Mayne, P.W. (2013). Invited Keynote: Case Studies of Foundation Performance in the Piedmont Using In-Situ Tests. GeoVirginia 2013, Williamsburg, VA (Oct 1, 2013)
42. Mayne, P.W. (2013). Invited Keynote: Geotechnical Site Exploration in 2014 and Beyond. 45th Annual Geotechnical Conference, Univ. of Kansas, Lawrence, KS (14 November 2013).
43. Mayne, P.W. (2014). Keynote Lecture KN2: Interpretation of geotechnical parameters from seismic piezocone tests. 3rd International Symposium on Cone Penetration Testing, Mandarin Oriental Hotel, Las Vegas, 11-14 May.

Invited Presentations

1. *Invited Presentation*, "Dynamic Compaction for Site Improvement of Soil", ASCE Louisville Chapter, Kentucky, 1984.
2. *Invited Presentation*, "Ground Improvement of Soil by Dynamic Compaction", ASCE Tampa Section, Florida, 1984.
3. *Invited Presentation*, "CPT Determination of OCR and Lateral Stresses in Clean Quartz Sands", *Proceedings, Cone Penetration Testing (CPT'95)*, Vol. 2, Linköping, Sweden, Oct. 1995, 215-220.
4. *Invited Presentation*, Southeast Asian Seminar Series, "Response of Drilled Shafts in Residual Soil and Partially-Weathered Rock", Nanyang Technological University, Singapore, June 17, 1996.
5. *Invited Presentation*, Session 1.2 on Ground Characterization by In-Situ Tests, 14th ICSMFE, Hamburg, Sept. 12, 1997; "Site Characterization Aspects of Piedmont Residual Soils."
6. *Invited Presentation*, Department of Civil Engineering, University of Alberta, Edmonton; Sept. 30, 1997: "High-Temperature Plasma Vitrification of Geomaterials."
7. *Invited Presentation*, Cone Tec Seminar on Site Characterization for Environmental & Geotechnical Engineering, Delta Vancouver Airport Hotel, B.C., Oct. 1, 1997; "Plasma Magmavication of Geomaterials".
8. *Invited Presentation*, 1997 Southeast Transportation Geotechnical Engineering Conference, by FHWA and DOTs from TN, GA, FL, KY, AL, SC, and NC, Chattanooga, Oct. 23, 1997: "Enhanced In-Situ Geotechnical Testing."
9. *Invited Presentation*, Sociedad Colombiana de Ingenieros, "High-Temperature Plasma Vitrification of Soils", 9th Colombian Geotechnical Jubilee, Bogota, Oct. 1997.
10. *Invited Presentation*, "Seismic Piezocone Testing for Geotechnical Foundation Analysis", Center for Geotechnical Practice and Research, Virginia Tech, Feb. 1999.
11. *Invited Presentation*, "Seismic Piezocone Results for the Cooper River Bridge", Joint ASCE Meeting, North Charleston, South Carolina, March 26, 1999.
12. *Invited Reporter*, "Ground Property Characterization," XI Pan Am Conference, Iguassu, Brazil, August 8-13, 1999.
13. *Invited Lecturer*, "Enhanced Ground Characterization for Geotechnical Investigations", Engineers Society of San Juan, Puerto Rico, August 6, 2001.
14. *Invited Lecturer on Enhanced In-Situ Testing*, Virginia Tech, Blacksburg, VA, May 31, 2002.
15. *Invited Lecture*, Padova University, Italy, June 14, 2002.
16. Field Demonstration of Cone Penetration Testing, Fugro Geosciences at CERI, Memphis, Sept. 2002.
17. *Invited Lecturer*, Characterization of Natural Soils Workshop, Singapore, Dec. 1-5, 2002.

18. *Invited Lecturer*, "Enhanced Ground Characterization for Liquefaction Assessment", MoDOT Seminar in Cape Girardeau, MO, sponsored by MAE, March 3-5, 2003.
19. *Invited Lecturer*, "Evaluation of Liquefaction Potential by In-Situ Testing", Geotechnical Earthquake Engineering Seminar, San Juan, P.R., May 21-22, 2003, for Mid-America Earthquake Center.
20. *Invited Reporter* – Session 5: In-situ tests applied to practical problems. 2nd IS Site Characterization Conf., Sept. 21, 2004.
21. *Invited Lecturer*: Characterization of Piedmont Residuum, Mini-Workshop, GeoQuebec October 24, 2004
22. *Invited Presentation*: Enhanced In-Situ Testing by Seismic Cone, Univ. of Tennessee, Knoxville, Oct. 2005.
22. *Invited Panelist*: Session 1c: In-Situ Testing. (16th ICSMGE), Osaka, Sept. 12-15, 2005.
23. *Invited Lecture*: Interrelationships of CPTU and DMT in Clays. Presented at the 2nd International Conference on Flat Dilatometer Test, Hyatt Regency, Arlington VA, May 4, 2006.
24. *Invited Lecture*: Interpretation of In-Situ Testing at New Orleans Levees, US Army Corps of Engineers, New Orleans District, 19 December 2006.
25. *Invited Presentation*: Overview on In-Situ Test Calibration. Atlanta ASCE Geotechnical Section, Georgia Power Building, April 17, 2007.
26. *Invited Lecture*: DFI-PCDA Seminar on Driven Piles, Baltimore, Maryland (March 12, 2010)
27. *Invited Speaker*: GeoCharacterization by Seismic Piezocone Tests, Sheraton Hotel, Norfolk VA (16 April 2010)
28. *Invited Speaker*: Site Characterization using the Cone Penetrometer, Radisson Hotel, Boston, MA (23 April 2010).
29. *Invited Speaker*: Geotechnical Exploration using the Seismic Cone, Marriott Residence Hotel, NYC (26 April 2010).
30. *Invited Speaker*: Geocharacterization in the Year 2012 and Beyond. ASCE Metropolitan Section, Engineers Club, New York, NY (15 October 2012).
31. *Invited Speaker*: Geocharacterization using the seismic piezocone. Norwegian Univ. Science & Technology and Norwegian Geotechnical Institute, Trondheim (26 Sept 2014).
32. *Invited Lecture*: Geotechnical site characterization using the seismic piezocone test in soils. Univ. Pisa (09 Oct. 2014).

Seminar Presentations (without proceedings)

1. Subsurface Improvement by Impact Densification, ASCE, Las Vegas, April 1982.
2. Ground Improvement by Dynamic Compaction, ASCE National Capital Section, Washington, D.C., 1983.
3. Laboratory Testing of Soil, George Washington University, Department of Civil Engineering, Washington, D.C., 1983.
4. Direct and Indirect Methods of Determining In-Situ K_0 in Clays, IS - Penetration Testing, Orlando, March 1988.
5. Estimating Preconsolidation Stress of Clays from In-Situ Tests, IS-Penetration Testing, Orlando, March 1988.
6. Penetration Pore Pressures from Piezocone & Dilatometer, Intl. Symposium on Penetration Testing, Orlando, 1988.
7. Behavior of Laterally-Loaded Drilled Shafts, Georgia Institute of Technology, January 1990.
8. Lateral and Moment Behavior of Shafts in Clay, Johns Hopkins University, Civil Engineering, Baltimore, February 1990.
9. Laterally-Loaded Drilled Shafts in Clay, Northeastern University, Boston, February 1990.
10. Response of Shafts Under Lateral and Moment Loading in Clay, University of Texas, San Antonio, March 1990.
11. Experiments on Lateral-Moment Loading of Drilled Shafts, Univ. of Illinois, Urbana-Champaign, April 1990.
12. Drilled Shafts Under Lateral and Moment Loading, Purdue University, West Lafayette, IN, May 1991.
13. ASCE Student Chapter Seminar, Ground Modification by Dynamic Compaction, Georgia Inst. Tech, April 1991.
14. NSF Workshop on Ground Modification, Subcommittee on Dynamic Compaction, Univ. Washington, August 1991.
15. Determining OCR by In-Situ Tests/Piezocone; University of Hong Kong, Civil & Structural Engineering, August 1992.
16. In-Situ Testing Techniques in the U.S., NSF Workshop, Tongji University, Shanghai, China, Sept. 1992.
17. Behavior of Drilled Shaft Foundations in Piedmont Residuum, ASCE, Atlanta GeotSection, Georgia Power, Nov. 1992.
18. Site Characterization of Structured/Residual Soils, NSF Workshop, CEMIG, Belo Horizonte, Brazil, Nov. 1992.
19. Cavity Expansion/Critical State Model for Piezocone-OCR Mapping in Clays, Golder Assoc., Atlanta, GA, Feb. 1993.
20. Stress History Profiling by Piezocone Tests, Law Engineering Companies, Atlanta, GA, Aug. 1993.
21. Field Characterization by In-Situ Test Methods, Georgia Department of Transportation, Forest Park, Georgia, Aug. 1993.
22. Site Characterization for Geotech-Environmental, and Liquefaction Evaluation, Westinghouse/Bechtel, S.C., Oct. 1993.
23. Magma Aggregates, TRB Committee A2H03, Transportation Research Board, Washington, D.C., January 1994.
24. Vitrification of Soils Using Plasma Technology, TRB Comm.A2L02, TRB, Washington, DC, Jan. 1994.
25. Piezocone Evaluation of Overconsolidation Ratio in Clays, University of Texas/Austin, Texas, June 1994.
26. Seismic Piezocone and Vibrocone Penetrometers, CPT Workshop, U.S. Army Research Office, Austin, June 1994.
27. Axial Load Behavior of Two Drilled Shafts in Piedmont Residuum, Schnabel Engineering, Springfield, VA, Feb. 1995.
28. Plasma Vitrification of Geomaterials, SE Transportation Geotechnical Engrg Conf., FHWA, Huntsville, AL, Oct. 1995.
29. Baseline Plasma Experiments for Geoenvironmental Restoration, GT Environmental Engrg. Seminar, April 10, 1995.
30. Characterization of Full-Scale Plasma Magmavication of Soils, Norwegian Univ. Science & Tech., Nov. 11, 1996.
31. Site Characterization by Seismic Piezocone and Seismic Flat Dilatometer, Norwegian Geot. Inst., Oslo, Nov. 18, 1996.
32. Vibrocone for Evaluating Soil Liquefaction, ASCE Conf. on Earthquake Engineering, Univ. of Washington, Aug. 1998.
33. Seismic Piezocone Testing in New Madrid Seismic Zone, Seminar by USGS and CERl, Univ. of Memphis, Nov. 1998.
34. Liquefaction Response of Soils by CPT, Workshop by Mid-America Earthquake Center, Memphis, December 2-4, 1998.

35. Site Characterization by Seismic Piezocone, USGS Workshop with MAEC and CUSEC, St. Louis Univ., Jan. 6-8, 1999.
36. Liquefaction Response of Soils in New Madrid Seismic Zone by CPT, USGS Hazard Mapping, St. Louis, June 2000.
37. CPTs in the New Madrid Seismic Zone (NMSZ), Mid-America Earthquake Center Meeting, New Orleans, Oct. 2000.
38. SCPTU Tests for Embayment Seismic Excitation Experiments (ESEE), MAEC Earthquake Meeting, San Juan, Jan 2004.

F. OTHER SCHOLARLY ACCOMPLISHMENTS

Software

1. Mayne, P.W. and Swanson, P.G. (1980). "DYNFN: Dynamically-Loaded Foundations Under Transient & Steady-State Vibrations", [finite-difference solution], Law Engineering Associates, Washington, D.C.
2. Mayne, P.W. (1998). "INFLUENCE: Approximate Displacement Influence Factors for Shallow Foundation Systems", [numerical integration technique], CEE/Georgia Institute of Technology, Atlanta.
3. Liao, T., Mayne, P.W., and Zavala, G. (2001). "*ShearPro*: Filtering & Data Processing of Shear Wave Trains from Down-hole Seismic Tests", [C++ compiled program]. <http://geosystems.ce.gatech.edu/Faculty/Mayne/papers/index.html>
4. Mayne, P.W., Greig, J., McKilligan, B., and Woeller, D. (2010). Hybrid elastic continuum - limit plasticity evaluation of shallow foundation response. ConeTec CDS Applications, Richmond, BC.
5. Mayne, P.W., Greig, J., McKilligan, B., and Woeller, D. (2010). Randolph model for evaluation of deep foundations under axial compression loading. ConeTec CDS Applications, Richmond, BC.
6. Mayne, P.W., Greig, J., McKilligan, B., and Woeller, D. (2010). CPT evaluation of sand liquefaction and associated ground deformations shallow foundations. ConeTec CDS Applications, Richmond, BC.

Patents

1. U.S. Patent 7650962 (issued 26 January 2010): GTRC ID No. 2984 entitled "Rotary Actuated Seismic Source and Methods for Continuous Direct-Push Downhole Seismic Testing" was filed September 17, 2004, in the USPTO by M. Quinn, A.V. McGillivray, and P.W. Mayne.
Note: Licenses awarded to (a) Finite Precision, GA (2011); (b) ConeTec, BC (2012); (c) Gregg Drilling, CA (2014).
2. Pending submission: "Wholetone ebony-ivory keyboard/synthesizer for guitarists". December 2007.

Poster Sessions

1. Mayne, P.W. and Holtz, R.D. (1985). "Strength Anisotropy & Stress Rotation Effects in Clays", 11th International Conference on Soil Mechanics & Foundation Engineering, Mark Adams Hotel, San Francisco.
2. Mayne, P.W. (1992). "Cavity Expansion/Critical State Model for Piezocone Evaluation of Overconsolidation Ratio", Wroth Memorial Symposium, Oxford University.
3. Chen, B.S.-Y. and Mayne, P.W. (1993). "Effective Stress Model for Piezocones in Clays", International Conference on Case Histories in Geotechnical Engineering, Mark Adams Hotel, St. Louis.
4. Mayne, P.W. and Chen, B.S.-Y. (1995). "Type 1 and 2 Piezocones for Profiling OCR in Clays", International Symposium on Cone Penetration Testing, Linköping, Sweden.
5. Mayne, P.W. and Kulhawy, F.H. (1995). "First Order Estimates of OCR in Clays by In-Situ Tests", International Symposium on Cone Penetration Testing, Linköping, Sweden.
6. Mayne, P.W., Robertson, P.K., and Lunne, T. (April 1998). "Stress History of Clays by Seismic Piezocone Tests", International Conference on Site Characterization, Westin Hotel, Atlanta, Georgia.
7. Mayne, P.W. and Schneider, J.A. (Dec. 1998). "Liquefaction Evaluation of Soils by Piezocone Tests", Annual Workshop, Mid-America Earthquake Center, Peabody Hotel, Memphis, Tennessee.
8. Mayne, P.W. and Schneider, J.A. (Jan. 1999). "Seismic Piezocone Testing in New Madrid Seismic Zone", Mid-America Hazards Mapping Workshop, St. Louis University, Missouri.
9. Schneider, J.A. and Mayne, P.W. (May 1999). "Seismic Hazard Data from Cone Penetration Testing in Memphis", MAE Hazards Program, Fogelman Center, University of Memphis.
10. Mayne, P.W., Liao, T., Zavala, G., McGillivray, A., Camp, W. (May 2002). Cone Penetration Testing and Its Derivatives, The 5th Sowers Symposium, GCATT, Atlanta, GA.
11. Elhakim, A. and Mayne, P.W. (May 2002). Nonlinear stress-strain-strength applied to footing response. The 5th Sowers Symposium, GCATT, Atlanta, GA.
12. Zavala, G. and Mayne, P.W. (May 2003). Axial pile response determination from seismic penetrometer. The 6th George F. Sowers Symposium, GCATT, Atlanta, GA.
13. Camp, W. and Mayne, P.W. (May 2003). Results of O-cell and Statnatics Testing of drilled shaft foundations in the Cooper Marl. 6th George F. Sowers Symposium, GCATT, Atlanta, GA.

14. McGillivray, A. and Mayne, P.W. (May 2004). Improvements and developments in shear wave profiling of soils. The 7th George F. Sowers Symposium, GCATT, Atlanta, GA.
15. Liao, T. and Mayne, P.W. (May 2004). Explosives-induced liquefaction in the Mississippi Embayment. The 7th George F. Sowers Symposium, GCATT, Atlanta, GA.
16. Elhakim, A. and Mayne, P.W. (May 2005). FLAC analysis of footings with nonlinear stress-strain-strength soils. The 8th G.F. Sowers Symposium, GCATT, Atlanta, GA.
17. Larrahondo, J.M., Atalay, F. and Mayne, P.W. (May 2006). Geotechnical & geophysical investigations for GDOT highway drain performance. 9th Sowers Symposium, GCATT, Atlanta, GA.
18. McGillivray, A. and Mayne, P.W. (May 2007). Continuous shear wave velocity profiling during CPT. 10th Sowers Symposium, GT Student Ballroom, Atlanta, GA.
19. Niazi, F. and Mayne, P.W. (May 2008). O-cell load test interpretation via seismic piezocone tests. 11th Sowers Symposium, GT Student Ballroom, ASCE Atlanta Geotechnical Section, Georgia Tech, Atlanta, GA
20. Ku, T. and Mayne, P.W. (May 2009). Directional shear wave velocities for assessing in-situ geostatic stress state. 12th Sowers Symposium, GT Student Ballroom, Atlanta, GA.
21. Niazi, F. and Mayne, P.W. (May 2009). Elastic continuum analysis for axial pile response. 12th Sowers Symposium, Georgia Institute of Technology, Atlanta, GA.
22. Ku, T., and Mayne, P.W. (May 2010). Shear wave velocity profiles from laboratory and in-situ field measurements in soils. 13th Sowers Symposium, Atlanta, GA.
23. Niazi, F. and Mayne, P.W. (May 2010). Evaluation of Euripides driven pile using seismic piezocone tests. 13th Sowers Symposium, Atlanta, GA.
24. Niazi, F.S. and Mayne, P.W. (2011). Evaluation of EURIPIDES pile load tests response from SCPTu results, GT Research & Innovation Conference (GTRIC).
25. Ku, T., Mayne, P.W. and Gutierrez, B. (2011). Shear wave velocity-stress relationships in geomaterials. GT Research & Innovation Conference (GTRIC).
26. Niazi, F.S. and Mayne, P.W. (2011). *Geo-Frontiers 2011 Student Poster Competition*: Axial pile foundation response from seismic piezocone tests, ASCE GeoCongress in Dallas, Texas.
27. Niazi, F.S. and Mayne, P.W. (2011). Axial pile foundation response using elastic continuum framework and seismic piezocone data, 14th Sowers Symposium, GT Ballroom (May), Atlanta.
28. Ku, T. and Mayne, P.W. (2011). Post-processing of continuous shear wave signals. 14th Sowers Symposium, GT Ballroom (May), Atlanta.
29. Niazi, F.W., Mayne, P.W. and Woeller, D.J. (2011): Calibration of hybrid SCE-CSSM analytical model for piezocone penetration in clays. SAIC Student Paper Contest (08 November 2011) at GT Hotel Ballroom.
30. Agaiby, S. and Mayne, P.W. (2014). Relationship between Shear Wave Velocity and Undrained Shear Strength for Normally Consolidated Clays. 17th Sowers Symposium, GT Ballroom, Atlanta.
31. Ouyang, Z. and Mayne, P.W. (2014). Methodology for Evaluating the Undrained Shear Strength Profile of Offshore Clays from CPT, 17th Sowers Symposium, GT Ballroom, Atlanta.

Continuing Education

1. Lecturer on "Ground Improvement by Dynamic Compaction", Continuing Education Course on Site Improvement, Civil and Structural Engineering, University of Hong Kong, Aug. 1992.
2. Lecturer on "Drilled Shaft Foundations", Continuing Education Course on Foundation Design at University of Wisconsin, Madison, Feb. 27-30, 1995.
3. Lecturer on "Drilled Piers", Continuing Education Course on Pile and Pier Analysis, Design & Installation, Orlando, by Univ. Of Wisconsin/Madison, Aug. 22-23, 1995.
4. Lecturer on Soil Mechanics & Foundations, Continuing Education on P.E. Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, February/March 1996.
5. Instructor: "In-Situ Geotechnical Testing", Short Course on Estimation of Design Parameters for Soils & Rocks from Laboratory & In-Situ Tests, Asian Institute of Technology, Bangkok, June 10-14, 1996.
6. Instructor: "Cone Penetration Testing & Interpretation", Short Course on In-Situ Soil Penetration Testing & Applications, Nanyang Tech. University, Centre for Continuing Education, Singapore, June 18, 1996.
7. Lecturer on "Drilled Piers", Cont Ed Course on Foundation Design: University of Wisconsin, Madison, Feb. 5-7, 1997.
8. Lecturer on Soil Mechanics & Foundations, Continuing Education on P.E. Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, February 1997.
9. Instructor: In-Situ Testing & Site Characterization, 3-day Short Course at University of Hong Kong, Robert Black College, August 1997.
10. Lecturer on Soil Mechanics & Foundations, Continuing Education on P.E. Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, March 1998.
11. Lecturer at Short Course on "Flat Dilatometer Testing of Soils", International Site Characterization, April 19, 1998, Georgia Tech.

12. Lecturer on Soil Mechanics & Foundations, Continuing Education on P.E. Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, March 13, 1999.
13. Lecturer on "Geotechnical Site Characterization for Evaluating Liquefaction Potential" MAE Seminar on Liquefaction Evaluation & Geotechnical Data Collection, Collinville, IL, Dec. 2000.
14. Lecturer on "Geotechnical Site Characterization for Evaluating Liquefaction Potential" MAE Seminar on Liquefaction Evaluation & Geotechnical Data Collection, Memphis, TN, March 15, 2001.
15. CPT Workshop for FHWA, MoDOT, IL DOT, MN DOT, and Univ. MO-Rolla: Cape Girardeau, MO, May 9-10, 2001.
16. Short Course on "Foundations & Ground Improvement Evaluation by In-Situ Tests" with Prof. J.K. Mitchell, ASCE GeoOdyssey Conference, Virginia Polytechnic Institute, Blacksburg, VA, June 10, 2001.
17. Co-Instructor on "Subsurface Investigation" for NHI at Nevada DOT, Carson City, September 25, 2001, with Dr. Barry Christopher.
18. Lecturer on "Geotechnical Site Characterization for Evaluating Liquefaction Potential" MAE Seminar on Liquefaction Evaluation & Geotechnical Data Collection, Charleston, SC, November 18, 2001.
19. SCPTu Workshop for Fugro BV Offshore Engineering, Leidshendam, Holland, Dec. 17-18, 2001.
20. Lecturer on Soil Mechanics & Foundations, Continuing Education on P.E. Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, Feb. 23, 2001.
21. Co-Instructor on "Subsurface Investigation" for NHI at CALTRANS, Sacramento, March 6-9, 2002, with Dr. Barry Christopher.
22. Lecturer on Soil Mechanics & Foundations, Continuing Education on P.E. Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, March 2002.
23. Lecturer on "Geotechnical Site Investigations for Trenchless Technologies", SESST Conference on MicroTunnelling, Renaissance Hotel, Atlanta, April 17, 2002.
24. Co-Instructor on "Subsurface Investigation" for NHI at Utah DOT, Salt Lake City, April 23-25, 2002, with Dr. Barry Christopher.
25. Lecturer on "Geotechnical Site Characterization for Evaluating Liquefaction Potential" MAE Geotechnical Earthquake Engineering Seminar, Kansas City, MO, September 2002.
26. Co-Instructor on "Subsurface Investigation" for NHI at CALTRANS, Sacramento, February 2-5, 2003, with Dr. Barry Christopher.
27. Lecturer on Soil Mechanics & Foundations, Continuing Education on Professional Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, Feb. 22, 2003.
28. Lecturer on Soil Mechanics & Foundations, Continuing Education on Professional Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, March 6, 2004.
29. Co-Instructor on "Subsurface Investigation" for NHI at Penn DOT, Harrisburg, Pennsylvania, March 9-12, 2004, with Dr. Barry Christopher.
30. Co-Instructor on "Subsurface Investigation" for NHI at Penn DOT, Indiana/Pittsburgh, PA, April 5-8, with Dr. Barry Christopher.
31. Instructor: Enhanced Geotechnical Site Characterization by In-Situ Tests. Dept. of Civil Engineering, University of Sydney, Australia, 9 July 2004.
32. Guest Lecturer: Stiffness of Soils from In-Situ Tests for Foundation Design. Geomechanics and Offshore Group, University of Western Australia, Perth, 15 July 2004.
33. Co-Instructor on "Subsurface Investigation" for NHI at Minnesota DOT, Jan. 18-21, 2005, with Dr. Barry Christopher.
34. Instructor: Enhanced In-Situ Testing for Foundation Systems. Georgia Tech Global Learning Center, Jan. 28, 2005.
35. Co-Instructor on "Subsurface Investigation" for NHI at Montana DOT, March 21-23, 2005, with Dr. Barry Christopher.
36. Instructor: Enhanced In-Situ Geotechnical Testing for Foundation Systems. Universal Engineering Services (UES), Orlando, Florida, February 2005.
37. Lectures on Soil Mechanics & Foundations, Continuing Education on Professional Exam Refresher Course, Georgia Institute of Technology, Civil & Environmental Engineering, March 2005.
38. Instructor: Enhanced In-Situ Geotechnical Testing for Site Characterization. Fugro-McClelland Geosciences, Houston, Texas, April 2005.
39. Instructor: Enhanced In-Situ Geotechnical Testing for Foundation Systems. North Carolina Dept. of Transportation, Raleigh, NC, 9-10 August 2005.
40. Instructor: Enhanced In-Situ Geotechnical Testing for Foundation Systems. Georgia Tech Global Learning Center, 22-23 November 2005.
41. Instructor: Geotechnical Foundation Systems. GT Global Learning Center, 8 Dec. 2005.
42. Instructor: Enhanced In-Situ Testing for Geotechnical Site Characterization. ASCE Continuing Education Series, GeoCongress 2006 for the Geo-Institute, Hyatt Regency Hotel, Atlanta 25 Feb. 2006.
43. Co-Instructor on "Subsurface Investigation" for NHI at Penn DOT, Indiana, PA, June 2006 with Dr. Barry Christopher.
44. Co-Instructor on "Seismic Geotechnical Site Characterization" with Professor Glenn Rix, Georgia Tech Global Learning Center, Atlanta, GA: May 8, 2006.
45. Instructor: In-Situ Testing for Geotechnical Site Investigations, GeoCim, San Juan, May 11-12, 2006.

46. Instructor: Enhanced Site Characterization by Seismic Piezocone, Vancouver, BC, May 23, 2006.
47. Instructor: Enhanced Site Characterization by Seismic Piezocone, Salt Lake City, Utah, May 25, 2006.
48. Co-Instructor on "Subsurface Investigation" for NHI at Texas DOT, Austin in July 2006, with Dr. Barry Christopher.
49. Instructor: In-Situ Testing for Geotechnical Foundation Analyses, GT Global Learning Center, 15-16 Aug. 2006.
50. Instructor: Enhanced Site Characterization by Seismic Piezocone, Marriott Hotel, New York City, Oct. 16, 2006.
51. Instructor: Site Characterization by Seismic Cone Tests, Sponsored by ConeTec Investigations, Richmond, Virginia, October 18, 2006.
52. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Nov. 2, 2006.
53. Instructor: Cone Penetration Testing, US Army Corps. Engineers, Vicksburg District, MS: 12 Jan. 2007.
54. Instructor: Enhanced In-Situ Testing for Geotechnical Site Investigations & Foundation Analyses, GT Global Learning Center, March 6-7, 2007.
55. Seminar Instructor: Geotechnical Site Characterization by Seismic Cone Tests, Calgary, Alberta, March 20, 2007.
56. Instructor: Enhanced Site Characterization by Seismic Piezocone, Edmonton, Alberta, March 21, 2007.
57. Seminar Instructor: Geotechnical Site Characterization by Seismic Cone Tests, Fort McMurray, sponsored by ConeTec Investigations, March 23, 2007;
58. Co-Instructor: In-Situ Testing for Geotechnical Studies (with Alec McGillivray), MnDOT, St. Paul, 22-24 May 2007.
59. Instructor: Enhanced In-Situ Testing for Geotechnical Site Investigations & Foundation Analyses, GT Global Learning Center, August 12-13, 2007.
60. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Dec. 14, 2007.
61. Instructor: Enhanced In-Situ Testing for Geotechnical Analyses, GT Global Learning Center, March 18-19, 2008.
62. Instructor: Geotechnical Interpretation by Seismic Piezocone, Fugro Offshore, The Netherlands (July 2008).
63. Instructor: Enhanced In-Situ Testing for Foundation Analyses, GT Global Learning Center, 13-14 October 2008.
64. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, 15 Dec. 2008.
65. Seminar Instructor: In-Situ Testing for Geotechnical Site Investigation, Toronto Section, Canadian Geotechnical Society (71 participants), Mississauga, Ontario. (19-20 Feb 2009).
66. Instructor: Enhanced In-Situ Testing for Geotechnical Site Characterization & Foundation Analyses, GT Global Learning Center, 30-31 March 2009.
67. Seminar Instructor: Foundation Design by Seismic Piezocone Testing. Annual GeoMO Seminar, Missouri Univ. Science & Technology, Rolla, 08 May 2009.
68. Seminar Instructor: GeoEngineering Design Using the Cone Penetration Test, Edmonton, Alberta (44 participants). Fairmont Hotel, 28 October 2009.
69. Seminar Instructor: GeoEngineering Design Using the Cone Penetration Test, Vancouver, British Columbia (58 participants). Fairmont Hotel, 30 October 2009.
70. Seminar Instructor: GeoEngineering Design Using the Cone Penetration Test, Barr Engineering, Minneapolis, MN (18 participants). 18 November 2009.
71. Seminar Instructor: GeoEngineering Design Using the Cone Penetration Test, Doubletree Hotel Southeast, Denver (14 participants). 20 November 2009.
72. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Tuesday 15 Dec. 2009.
73. Instructor: Enhanced In-Situ Testing for Geotechnical Site Characterization & Foundation Analyses, GT Global Learning Center, 22-23 March 2010.
74. Seminar Instructor: Design & Analysis Using the Cone Penetration Test, Vancouver, British Columbia (66 participants). Fairmont Hotel, Monday 29 November 2010.
75. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Thursday 16 Dec. 2010.
76. Instructor: Foundation Systems Using Situ Tests, Mn/DOT Geotechnical Offices, St. Paul, MN: 4 February 2011.
77. Instructor: Enhanced In-Situ Testing for Geotechnical Site Characterization & Foundation Analyses, GT Global Learning Center, 21-22 March 2011.
78. Instructor: Site Characterization by Cone Penetrometers, In/DOT Training Center, Indianapolis, 24-25 March 2011.
79. Seminar Speaker: Engineering Design Using the Cone Penetration Test, Monaco Hotel, Baltimore MD 23 May 2011
80. Speaker: Engineering Design Using the Cone Penetration Test, Fairmont Royal York Hotel, Toronto: 25 May 2011
81. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Friday 09 Dec. 2011.
82. Seminar Lecturer: Geotechnical Site Characterization in 2012, Fairmont Calgary, AB, 16 Jan 2012.
83. Seminar Lecturer: Geotechnical Site Characterization in 2012, Fairmont Edmonton, AB, 17 Jan 2012.
84. Seminar Lecturer: Geotechnical Site Characterization in 2012, Fairmont Hotel, Vancouver, BC, 18 Jan 2012.
85. Instructor: Enhanced In-Situ Testing for Geocharacterization, GT Global Learning Center, 19-20 March 2012.
86. Seminar Lecturer: Geotechnical Site Characterization in 2012, Fairmont Hotel, Ottawa, Ontario, 16 April 2012.
87. Seminar Lecturer: Geotechnical Site Characterization in 2012, Westin Hotel, Montreal, Quebec, 18 April 2012.
88. Course Lecture: Foundation Design Using In-Situ and Geophysical Tests, Pernambuco, Brazil, 17 Sept 2012.
89. Seminar Lecturer: Geotechnical Site Characterization in 2012, Hilton North, Raleigh, NC: 29 October 2012.
90. Seminar Lecturer: Geotechnical Site Characterization in 2012, Marriott Times Square, NYC: 10 December 2012.
91. Seminar Lecturer: Geotechnical Site Characterization in 2012, Ritz-Carlton, Tysons Corner, VA: 12 December 2012.

92. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Tuesday 18 Dec. 2012.
93. Instructor, Geocharacterization by In-Situ Testing, Minnesota Geotechnical Society, St. Paul, MN, 21 Feb 2013
94. Instructor, Enhanced In-Situ Testing, Georgia Tech Global Learning Center, March 2013
95. Instructor, Enhanced In-Situ Testing, TVA Chattanooga, Tennessee, May 2013
96. Instructor, Geocharacterization by In-Situ Testing, Univ. New South Wales, Australia, June 2013.
97. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Dec 08-09, 2013.
98. Instructor: CPT Seminar for Geotechnical Analysis and Mine Tailings, Westin, Lima, Peru, 18 Jan 2014.
99. Instructor: Geocharacterization by In-Situ Testing in 2014 and Beyond, Midrand, South Africa, 08 Feb 2014.
100. Instructor: CPT Seminar for Geotechnical Analysis and Design, Fairmont Hotel, Toronto, 23 April 2014.
101. Instructor: Enhanced In-Situ Testing for GeoCharacterization, GT Global Learning Center: 03-04 June 2014.
102. Speaker: Geocharacterization Using the Seismic Piezocone, Univ. Pisa, Italy: 09 October 2014.
103. Instructor: Geotechnical Foundation Systems, Georgia Tech Global Learning Center, Dec 15-16, 2014.
104. Workshop Lecturer: Enhanced In-Situ Testing. Sandman Signature Hotel, Vancouver: 06-08 Jan 2015.

V. TEACHING

INDIVIDUAL STUDENT GUIDANCE

Ph. D. Students

Graduated

Barry Shi-Yo Chen, PhD, P.E.

Starting Term: September 1990; Completion: August 1994

PhD Dissertation: "Profiling Stress History of Clays Using Dual Element Piezocones"

Funded by NSF CAREER Grant and FAA Contract

Current Position: Senior Principal, Hart-Crowser, Seattle.

Susan E. Burns, PhD, P.E., F.ASCE

Starting Term: September 1992; Completion: August 1997

PhD Dissertation: "Development of Penetrometers for Permeability & Detecting Contaminants"

Funded by NSF, ERDA/DOE, and ARO Contracts

Positions: Assoc. Prof., Univ. of Virginia (1997- 2004);

Professor, Georgia Tech (Jan. 2005 - present)

Associate Chair, CEE Undergraduate Studies, Georgia Tech (2013-present)

Georgia Power Distinguished Professor, Georgia Institute of Technology (2013)

Notes: NSF CAREER Award (2000); ASCE Casagrande Award; ASCE Friedman Award 2000

Yasser Ali Hegazy, PhD, P.E.

Starting Quarter: September 1993; Completion: June 1998

PhD Dissertation: "Delineating Geostratigraphy by Cluster Analysis of Piezocone Data"

Funded by NSF Award (NYI) and ERDA Contract

Position: Project Engineer, D'Appolonia Consulting Engrs, Pittsburgh, PA (1998-2004)

Associate Professor, King Abdulaziz University, Saudi Arabia (2004 – 2008)

Associate Professor, Cairo University, Egypt (2008-present)

Amr Elhakim, PhD

Starting Quarter: Fall 1998; Graduation: 5 August 2005

PhD Topic: "Load-Displacement-Capacity Response of Footings Related to Small-Strain Stiffness"

Funded by ARO, ERDA, NSF, MAE, and ITRE

Positions: Research Engineer, Tensar Corporation, Atlanta, GA

Project Engineer, DarGroup, Cairo, Egypt (2008 - present)

Faculty - Cairo University, Soil Mechanics Laboratory, Egypt (2007 - present)

Tianfei Liao, PhD

Starting Semester: August 1999; Graduation: 5 August 2005

PhD Topic: "Automated Cone Penetration Test Data Processing for Seismic Ground Hazards Evaluation"

Funded by USGS, MAE, and NSF

Current Position: Project Engineer, Bechtel Power Corporation, Frederick, MD

Alec McGillivray, PhD

Starting Semester: December 1999; Defense: November 22, 2007; Graduation: Dec. 14, 2007

PhD Topic: “Enhanced Integration of Shear Wave Velocity Profiling in Direct Push Site Characterization Systems”

Funded by NSF, MAE, ARO, GDOT, and USGS

Positions: Research Engineer with Berkel & Company, Pile Foundation Systems, Tampa FL.
Geotechnical Engineer, Ardaman & Associates, Tampa, FL

Taeseo Ku, PhD

Started: January 2009; Completion: Dec. 2012

PhD Topic: Geostatic Stress State Evaluation by Directional Shear Wave Velocities, with Application towards
GeoCharacterization at Aiken, South Carolina; Funded by US Dept. of Energy at Savannah River Site

Currently: Assistant Professor, National University Singapore (2013)

Fawad S. Niazi, PhD

Started: August 2008; Defended: 19 December 2013; Commencement Graduation: May 2014

PhD Topic: Axial load-displacement-capacity response of drilled shaft foundations by seismic piezocone tests

Funded by ConeTec Investigations: GRA for In-Situ Research Group; GTA for Materials Course at GT CEE; COE

Current Positions: Post-doc Research Engineer, GT In-Situ Research Group

Instructor: Statics - College of Engineering, Georgia Institute of Technology

PhDs In Process

Shehab Wissa Agaiby

Started: August 2013; Expected Completion: Dec. 2016

PhD Topic: Improvements to CPT interpretation of soil parameters and utilization in geotechnics

Funded by Design House Engineering Consultancy, NYC and ConeTec Investigations

Zhongkun Ouyang

Started: August 2014; Expected Completion: Dec. 2017

PhD Topic: Evaluation of CPT in natural soils and mine tailings

Funding from ConeTec Investigations LLC, Vancouver, BC

Long Term PhD Candidates *Note: all have passed comprehensive examination and completed their coursework!

Aaron Geiger

Started: August 2011; Planned Completion: Dec. 2014; Funded by ConeTec and In-Situ Testing Group

PhD Topic: Contributions toward improved cone penetration interpretation in geotechnical site investigations

Current Employer: Golder Associates, Tucker, GA

Nick Meloy

Started: August 2010; Planned Completion: Dec. 2014

PhD Topic: Practical applications of in-situ cone penetrometer tests in soils. Funding: pending

Current position: Geotechnical project engineer, ECS Limited, Fairfax, Virginia

Billy Camp

Starting Semester: August 1999; Planned Completion: December 2012; Funded by NSF, MAE, and ADSC

PhD Topic: “Geotechnical Characterization and Engineering Properties of Cooper Marl”

Positions: Senior Principal Engineer, S&ME, Charleston, SC; President, ASCE Geo-Institute (2013)

Mark K. Quinn

Starting Quarter: Fall 1997; Planned Completion: December 2007

PhD Topic: “Flow Cone Piezocone for Assessing Soil Permeability of Silty and Sandy Soils”

Partially Funded by NSF; Current Position: Administrator, US Treasury Department, Atlanta, GA

(Mrs) Hoda Sabha Kablawi

Starting Quarter: Spring 1996

Completion: Left program in 2003 because of deteriorated health (fibromyalgia)

PhD Topic: "Geoenvironmental Subsurface Fluid Sampling by Direct-Push Membrane Probes"

Partially Funded by ARO, NSF, and co-sponsored by Geoprobe Systems.

Guillermo Zavala

Starting Term: June 2001; Planned Completion: January 2012

Thesis: "Evaluating Axial Pile Response from Seismic Cone Penetrometer Results"

Funded by USGS, Georgia DOT, MAE, and NSF

Positions: Project Engineer with Ardaman Associates, Tampa, FL

Associated Professor - Civil Engineering at Catholic University, Lima, Peru (2009-present)

Brian Lawrence (co-advised with Dr. G.J. Rix)

Starting Term: January 2004; Expected Completion: December 2007

Thesis: "Verification of the Site Amplification Paradigm in New Madrid Seismic Zone"

Funded by NSF Mid-America Earthquake Center (MAEC).

Currently: Project Engineer with Federal Highway Administration, Maine

Special PhDs - Graduated

Gehan Abdel-Rahman

Visiting Scholar (Nov. 1993-Jan. 1995): Cooperative Research Program between GT & Cairo University

PhD Thesis: "Time-Dependent Behavior of Laterally-Loaded Piles in Clay," Cairo University, Egypt

Current Position: Faculty, Soil Mechanics Laboratory, Cairo University (1995-2007)

Head, Geotechnical Engineering Dept., Fayoum University, Cairo, Egypt (2007-present)

M.S. Thesis Students

Current

Zhongkun Ouyang

Starting Semester: August 2013; Completion: December 2014

MS Thesis Topic: Evaluation of Clay Strength from Cone Penetration Testing Offshore

Funding: Fugro Offshore, Leidshendam, The Netherlands

Tyler Wood

Starting Semester: 2013; Expected Completion: Fall 2015

Coursework MS

Fulltime Employer: Ahlberg & Associates, Atlanta, GA

Graduated

Douglas Neil Brown

Starting Quarter: Sept. 1990; Completion: June 1993. Funded by NSF/NYI

Thesis: "Evaluation of Piezocone Porewater Pressure Response in Clay Soils"

Current Position: Senior Sales Engineer, Tensar Corporation, Atlanta

Dean E. Harris

Starting Quarter: Sept. 1991; Completion: March 1993. Funded by ADSC and FHWA

Thesis: "Axial Load Behavior of Drilled Shaft Foundations in Residua of the Piedmont Geology"

Current Position: Project Engineer for CH₂M-Hill, Boise, Idaho.

Randall Pool

Starting Quarter: Sept. 1992; Completion: June 1994

Thesis: "Rational Interpretation of Flat Dilatometer Tests in Clay by Cavity Expansion-Critical State"

Current Position: Project Engineer at Federal Energy Regulatory Commission, Atlanta.

Jamie Beaver

Started: January 1995; Completion: December 1995. Funded by FHWA

Thesis: "Plasma Vittrification of Geomaterials"

Current Position: Project Geotechnical Engineer for Hart-Crowser, Boston.

Gina Kates (Martin)

Starting Quarter: June 1995; Completion: December 1996. Funded by ERDA and ITRE

Thesis: "Development of a Seismic Flat Dilatometer for Small-and High-Strain Soil Properties"

Notes: Awarded 1995 GT President's Scholarship. Awarded 1995 ADSC Scholarship Award.

Current Position: Sales Marketing for Nortel, Atlanta, GA. Funded by NSF/NYI

Kate Waggener (Mayer)

Starting Quarter: Sept. 1995; Completion: March 1997. Funded by ERDA and DOE/SRS
Thesis: "Chamber Tests Simulating In-Situ Plasma Vitrification for Geoenvironmental Concerns"
Current Position: Engineering Manager, Engineering & Fire Investigations, Lexington, KY.

Craig M. Wise

Starting Quarter: Sept. 1996; Completion: June 1998. Funded by USGS and NSF
Thesis: "Piezovibrocone Penetrometer for In-Situ Evaluation of Soil Liquefaction Susceptibility"
Position: Project Geotechnical Engineer for Black & Veatch, North Canton, Ohio
Current: Faculty, Construction Technology, Univ. of Akron

Kimberly (Finke) Morrison

Starting Quarter: Sept. 1996; Completion: June 1998. Funded by NSF/NYI
Thesis: "Piezocone Penetration Tests in Piedmont Residual Soils"
Positions: Project Engineer -URS Corp. Denver (1998-2000)
Geot Engineer, Golder Assoc. Denver (2000-2011)
Senior Project Manager, AMEC, Denver CO (2011-2013)
President, Morrison Geotechnical Solutions (2013 to present)

Josepha (Celes) Taylor

Starting Term, Jan. 1998; Completion: Aug. 1999. Funded by ERDA and DSWA
Thesis: "Characterization of Vitrified Kaolin Produced by Nontransferred Plasma Arc"
Current Position: Project Engineer, San Diego, CA

James A. Schneider

Starting Quarter: Sept. 1997; Completion: Aug. 1999. Funded by NSF, MAE, and USGS
Thesis: "Liquefaction Response of Soils in Mid-America by Seismic Piezocone Tests"
Notes: CEE Barksdale Award, May 1997. Sigma Xi Undergraduate Research Award, June 1997.
Positions: GeoSyntec Consultants (1999-2001); Fugro West, (2001-2003), PhD (UWA 2007)
Univ. of Wisconsin-Madison (2007-2011).
US Naval Port Hueneme, CA (2011 - present).

Thomas Casey

Starting Term: Sept. 1998; Completion: Jan. 2000. Funded by MAE and NSF
Thesis: "Development of an Automatic Electrical Impulse Source for Seismic Cone Tests"
Position: Project Engineer/Manager with Wright-Padgett-Christopher Engineering, Charleston, SC
Project Geotechnical Engineer, Illinois

Katherine (Wehrle) Aguilar

Starting Term: Aug. 1999; Completion: January 2001. Funded by ERDA and ITRE
Thesis: "Drained Strength Characteristics of Residual Clay Derived from Mudstone"
Position: FMSM Engineers, Lexington, KY (2001-2006); Sales Manager, Dataforensics, Atlanta (2006-present)
Software engineer, Bentley, Atlanta, GA (2011)

MS – Coursework Only

John Daly

Starting term: Aug. 2014; Completion expected: May 2015
Funding: US Navy ROTC

Sean Gann

Starting term: Aug. 2014; Completion expected: Dec 2015
Funding: US Air Force

R. Austin Nall

Starting term: Aug. 2012; Completion: May 2013
Funding: ConeTec Investigations
Research: Piezodissipation testing evaluation at South Gloucester test site, Ontario

Meena Viswanath

Starting term: Aug. 2011; Completion: May 2012

Funding: In-Situ Research Group, GIT; ConeTec Investigations

Research: Direct SPT method for shallow foundations on sands

Current Position: Geotechnical Engineer with Geosyntec Consultants, Kennesaw, GA

Tyler Wood

Starting term: August 2012; Completion: 2016

Current Position: Ahlberg Engineering, Atlanta GA (fulltime)

Zhongkun Ouyang

Starting term: August 2013; Completion Dec 2014

Funding for Spring and Summer 2014: Fugro Engineers, The Netherlands

Kellie Sak

Starting Term: Aug. 2003; Completion: May 2005

Funding: Cargill Incorporated and GTRI

Current Position: Project Engineer, Golder Associates, Atlanta, GA

Maria Robert

Starting Semester: August 2001; Completion: May 2003

Position: Geotechnical Engineer with GeoCim, San Juan, P.R.

Kimberly Burgess

Starting Semester: January 2001; Completion: December 2005

Current Position: Geotechnical Engineer in Ocala, FL

William Tate

Starting Term: August 2004; Completion: Expected December 2005

Positions: S&ME Engineers, Charleston, SC

Law School Graduate: Georgia State University

Associate Attorney at Thompson, Meier and King, P.C.

Yasser A. Hegazy

Starting Term: Sept. 1994; Completion: June 1996

Position: D'Appolonia Engineers, Pittsburgh, PA and Cairo Egypt

Assistant Professor; King Abdulaziz University, Saudia Arabia

Professor, Geotechnical/Civil Engineering Cairo University, Egypt (Feb 2009)

James Earl Travis

Starting Term: Fall 1993; Completion: Fall 1994

Funding: FHWA Regional Office, Jacksonville, FL

Current: USAE, Virginia

Holli Jones (Greene)

Starting Term: August 2005; Completion: May 2006. Awarded: 2005 W.J. van Reenen Fellowship

Positions: Terracon/Titan Atlantic Engineering, Raleigh, NC; MacTec Engineering, Augusta, GA

GeoHydro Engineers, Atlanta, GA

Tracy Hendren

Starting Term Aug. 1999; Completion: May 2006

Current Position: Project Engineer, US Army Corps of Engineers

Joan Manual Larrahondo-Cruz

Starting Term: August 2005; Completion: December 2006

Topic: Highway Drain Performance in Georgia

Funding provided by GA Transportation Research Institute and Georgia Dept. of Transportation

Positions: PhD candidate - Georgia Tech CEE (2006 - 2011)

Senior Geotechnical Engineer, INGETEC S.A. Bogotá, Colombia (2011-2014)

Assistant Professor - Pontificia Universidad Javeriana, Bogota, Colombia (2014 - present)

Fikret Atalay

Starting Term: August 2005; Completion: December 2006

Topic: Nondestructive Investigative Methods for Evaluation Highway Underdrains

Funding provided by GA Transportation Research Institute and Georgia Dept. of Transportation

Positions: GeoEngineer with Ardaman Associates, Tampa, FL (2006-2010)

Lead Geotechnical Engineer, Enercon Services (2011-2013)

Doctoral candidate: Georgia Tech Geotechnical (2013-present)

Chad Rodgers

Starting Term: August 2006: Expected Completion: August 2007

Funded by US Air Force

Fernando Illingworth

Started MS/BS: June 2009; Completed: December 2010

Topic: Direct CPT method for spread footings on sand

Current Positions: ConeTec, Richmond (2010), VA; Langan Engrg, Miami (2011)

Project Engineer, TECNAC S.A., Ecuador (2012 - present)

Post-Doctoral Fellows

Dr. Laureano Hoyos – Ph.D. received from Georgia Tech, December 1998.

Research: Dynamic Properties of Sands from Mid-America, April 1999-September 1999. Funded by NSF

Current Position: Professor, Univ. of Texas-Arlington.

Dr. Mingzhan Wu – Doctoral received from Tongji University, Shanghai, June 1997.

Research: Mobile System Design for In-Situ Plasma Vitrification, September 1997-August 1998.

Funded by ERDA and ARO

Jon-Won Choi - PhD from Georgia Tech 2007

Research: Sensors for Instrumentation and Monitoring of Highway Drains and Underdrains

Funded by GTI-GDOT (Project Number E20-K86)

Dr. Taeseo Ku - PhD from GT (Dec 2012 - April 2013)

Research: Stress history from in-situ and geophysical tests

Funded by DOE/SRS and ConeTec Investigations

Dr. Fawad S. Niazi - PhD from GT (Jan 2014-present)

Research: Pile response from cone penetration tests

Post-doc funding from ConeTec

MS Special Research Projects

Jong-Shin Fang

Completion: December 1991

Topic: Analysis of Laterally-Loaded Piers for FAA Low-Level Warning Alert System (LLWAS) Tower Systems.

Funding: Federal Aviation Administration (FAA)

Stewart R. Garcia

Completion: December 1991

Topic: Interrelationships of Flat Blade Dilatometer p_0 and p_1 Measurements in Soils.

Daniel G. Blaydes

Completion: January 1992

Topic: Analysis of Laterally-Loaded Behavior of Socketed Drilled Shafts in Rock.

Alberto Bechara

Completion: January 1993

Topic: Feasibility of Plasma Vitrification of Soils

Funding: NSF SGER and GTRI

Joseph Kowalski

Completion: April 1994

Topic: Geosynthetics Direct Shear Box Testing Program for Landfill Design

Funding: GeoSyntec Corporation, Atlanta

Scott Thomson Completion: March 1994
 Topic: Investigation of Structural Properties of Plastic Fiber Mesh-Reinforced Concrete
 Funding: Tensar Corporation, Atlanta

Luis Ruiz Completion: August 1994
 Topic: Interpreted Densities from Cone Penetration Testing for Kissimmee Fill, Florida
 Funding: USACE Corps, Jacksonville, FL

J. Reid Horne Completion: August 1995
 Topic: Pre-Bored Texam Pressuremeter Operation and Testing in Piedmont Residuum.

A.V. McGillivray Completion: Dec. 1999
 Topic: Porewater Pressures in Piedmont Saprolite at Opelika, Alabama.
 Funding: NSF

G. Zavala Completion: Aug 2000
 Topic: Cross Correlation Method for Post-Processing of Downhole Shear Wave Results
 Funding: USGS and Mid-America Earthquake Engineering
 Positions: Ardaman Associates, Tampa, FL (2007-2009)
 Associate Professor, Catholic University, Lima, Peru (Feb 2000-present).

Undergraduate Research Students

Scott Phillips Completion: Winter 1992
 Topic: Review of Axial Compression Load Test Data on Drilled Shafts in the Piedmont Geologic Province.

Darrel Webb Completion: Winter 1995
 Topic: Drilled Shaft Foundation Design for 1996 Olympics Pedestrian Bridge over 10th Street, Atlanta.

James A. Schneider Completion: Spring 1996
 Topic: Numerical Modeling of Plasma Magmavication Experiments Involving Savannah River Soils, SC

James A. Schneider Completion: Winter 1997
 Topic: Experimental Design of Offgas Simulation Chambers During In-Situ Plasma Magmavication.

Keith Quarles Completion: Spring 1999
 Topic: Borehole Size Effects on Performance of Nontransferred Arc Plasma Transformation of Soils

Anna-Britt Mahler Completion: Summer 2000
 Topic: Application of Resisitivity Piezocone Soundings in High Seismicity Regions of Mid- America
 Funding: Research Experience for Undergraduates (REU) with Mid-America Earthquake Center (MAE)

Alisha Kaplan Completion: May 2004
 Topic: Liquefaction Effects on Piled Foundation Systems
 Funding: Undergraduate Research Assistant (URA) by Mid-America Earthquake Center (MAE)

Ali Boga Completed May 2006
 Topic: Hydrology Requirements for Highway Underdrains
 Funding: GTI and GDOT
 Currently: Project Engineer, Tampa, Florida

Pilar Soler Arnal Started (Transfer): Jan. 2009 Completed: May 2009
 Topic: Review of preconsolidation stress determination methods for lab consolidation testing of soils.
 Funding: University of Valencia, Spain

Amanda Magabo Complete: December 2010
 Topic: Digitization and Graphing of Geotechnical Databases for Site Exploration using Flat Dilatometer

Justin Goehring

Completion: Dec. 2012

Topic: Use of helical pile anchors in Piedmont residual soils (with Foundation Technologies, Lawrence, GA)

B. OTHER TEACHING ACTIVITIES**Curriculum Development**

- Revised course: CE 6183, Soil Construction, Fall 1990. Course covered use of soil and rock materials in civil engineering construction, including properties characterization, quality control, and behavior.
- Revised course: CE 6172, Geotechnical Testing, Spring 1991. Completely updated course on laboratory testing of soils with significant component emphasizing field methods to evaluate properties and parameters in-situ.
- Revised course: CE 6159, Rock Mechanics, Summer 1991. Re-instated course on rock engineering using principles of geomechanics, geophysics, laboratory and field testing, supplemented with case histories and seminars with Regents & Emeritus Professor George F. Sowers.
- Revised course, CE 6199, Constitutive Modeling, Winter 1992. Re-developed a course on Theoretical & Applied Geomechanics in modern adaptation of limit plasticity, cavity expansion, and critical-state soil mechanics.
- New course: CE 4173, Geotechnical Engineering, Fall 1994. Completely updated version of older CE 4163 required senior class covering geotechnical site characterization and foundation engineering.
- New course: CE 6162, In-Situ Testing. Winter 1995. Introduction to field measurements and interpretation of drilling, penetrometers, and probes for determination of geostratigraphy, in-situ soil properties, and behavior of geomaterials.
- New course: CE 6177, Foundation Systems, Spring 1995. Important graduate class on applications of elastic and plastic solutions for soil and rock mechanics for shallow and deep foundations.
- Revised course: CE 4404, Senior Design Project, Winter 1997. A required capstone design project with integrated civil aspects and a geotechnical flavor involving a bridge crossing over the Chattahoochee River.
- CEE 4410 – New Semester Undergraduate Course - Geosystems Engineering Design – second term senior course on site investigation, shallow foundation analysis, stability evaluation, walls, piling, and drilled shaft foundations.
- CEE 6423 – New Semester Graduate Class - In-Situ Geotechnical Testing: Exploration practices & interpretation of field drilling, sampling, coring, & in-situ measurements by cone, geophysics, dilatometers, vanes, & pressuremeters.
- CEE 6443 – New Semester Graduate Course – Foundation Systems: Evaluation of shallow footings, structural mats, driven piles, bored pilings, and drilled shafts using elastic continuum, limit plasticity, and extensive case studies.
- CEE 4406 - New Undergraduate Course - Applied Geotechnics: Using principles of soil & rock mechanics, case studies and analytical methods for evaluating geotechnical mechanics situations. (Approved 2011).

Participation in Teaching Development Programs

- Participant, “Continuous Quality Improvement (CGI)”, a GT-sponsored seminar on the educational-based version of total quality management (TQM) used in industry and business, 1992.
- Participant, “Gender Equity In and Out of the Classroom”, NSF Workshop In Gear, facilitated by C.S. Kiang and Llewellyn and CEISMC, Feb. 1997.
- Participant, “University-Industry Research Collaboration in Georgia”, GT Workshop by President G.W. Clough to establish a business, industry, and university coalition in Georgia, Oct. 1997.
- Participant, “Technology in the Classroom”, GT Workshop on WebCT, internet, and Classroom 2000; facilitated by Dr. Nelson Baker and SUCCEED Coalition, May 10, 1999.
- Lecturer and Co-Course-Developer (with Dr. Barry Christopher), “Subsurface Investigations”, National Highway Institute, Arlington, VA, Feb. 2000.
- Certified Instructor for National Highway Institute (NHI) Course on Subsurface Investigation by Federal Highway Administration, Washington, DC. Awarded June 2004.

V. SERVICE**A. PROFESSIONAL CONTRIBUTIONS****Organization and Chairmanship of Technical Sessions and Workshops**

1. Facilitator, FHWA Workshop on "Lateral and Rotational Stiffness of Highway Bridges", Crystal City, Virginia, 1993.
2. Facilitator, FHWA Workshop on "Design of Highway Bridges for Extreme Events", San Francisco, September 1994.
3. Moderator and Co-PI, NSF Workshop on U.S.-Taiwan Geotechnical Collaboration, Taipei, January 9-12, 1995.
4. Moderator, Technical Session 67 on Overconsolidated Clays, Transportation Research Board, January 1995.
5. Moderator, Session 11, Intl. Symposium on Environmental Technologies, Omni Hotel, Atlanta, October, 1995.
6. Chair, Session on Applications, Uncertainty in the Geologic Environment, Univ. Wisconsin, Madison, August 3, 1996.

7. Session Moderator, In-Situ Stresses, First International Conference on Site Characterization, Atlanta, April 1998.
8. Organizing Committee, 3rd National USUCGER Workshop, Newport, RI, November 19-22, 1998.
9. Session Moderator, National Geotechnical Experimentation Sites, USUCGER Workshop, Nov. 20, 1999.
10. Session Leader on “Structures, Materials, and Pavements”, Georgia Transportation Institute, Atlanta, May 25, 1999.
11. Chair, Session of Ground Property Characterization XI Pan American Conference on Soil Mechanics, Iquassu Falls, Brazil, August 11, 1999.
12. Chair, Session C (all 5 Technical Sessions): Innovations & Applications of In-Situ Testing, GeoDenver, Aug. 2000.
13. Discussion Leader, Session 1.2., Ground Characterization by In-Situ Tests, 15th ICSMGE, Istanbul, Aug. 29, 2001.
14. Session Chair, Hong Kong Polytechnic: Liquefaction Assessment, ICANCEER Workshop, August 19-20, 2002.
15. Session Chair, Stiff Soils, Engineering Properties of Natural Soils, National University of Singapore, Dec. 4, 2002.
16. Chair, Technical Committee TC 16, Annual Meeting - Ground Property Characterization, sponsored travel by ASCE International Activities Committee, Singapore Dec. 1, 2002.
17. Chair, Technical Committee TC 16, Annual Meeting - Ground Property Characterization, Boston June 24, 2003.
18. Invited Visiting Member, TC 29 Committee on Stress-Strain-Strength Behavior of Soils, Sept. 22, 2004.
19. Moderator, Plenary Session 11: Keynote by P.K. Robertson, Sept. 22, 2004.
20. Invited Visiting Member to TC 01 Committee on Offshore Geotechnics, Sept. 19, 2004.
21. Chair, Technical Committee TC 16 – Annual Meeting, Porto Portugal, Sept. 20, 2004.
22. Organizing Co-Host & Co-Editor, GeoShanghai International Conference, June 2-4, 2006.
23. CCC Meeting at ASCE Headquarters, Reston VA, Dec. 15, 2006.
24. CCC Meeting at ASCE Conference: GeoDenver, Feb. 2007.
25. Chair, TC 16 Workshop and Meeting (ECSMGE), Madrid, Sept. 2007.
26. CCC Meeting at ASCE Conference: GeoCongress held in New Orleans, Sheraton, March 2008.
27. Chair, TC 16 Planning Meeting for CPT'10, held during the GeoInstitute Conference, Orlando, March 2009.
28. CCC Meeting at ASCE Congress: International Foundations Conference & Equipment Expo (IFCEE'09), held at the Buena Vista Resort, Orlando (09-15 March 2009).
29. Chair, TC 16 Planning Meeting, held during ICSMGE, Alexandria, Tuesday 6 Oct. 2009.
30. Chair of Technical Session on In-Situ Testing, GeoFlorida (24 Feb 2010), West Palm Beach, FL (ASCE GeoInstitute)
31. Chair TC 102 Meeting, ISSMGE, Paris Sept 2013: Planning for CPT'14 and ISC-5 Brisbane

Professional Committee Service

American Society of Civil Engineers (ASCE) – 1976-Present

- National Capital Section, Washington, D.C., 1977-1987.
- Editorial Board, Journal of Geotechnical Engineering, 1983-1994.
- Geotechnical Executive Committee, ASCE National Capital Section, 1985-1987.
- Ithaca New York Section, 1987-1990.
- Atlanta Geotechnical Section, 1990-present.
- Member, Engineering Geology & Site Characterization Committee, 1998-present.
- US Representative to TC 16, International Activities Committee, 2002 to present
- Chair, Technical Sessions & Papers: Site Characterization, GeoFrontiers 2005, Austin.
- Appointed to CCC Executive Board – Conferences Coordinating Committee (CEC), November 2004 to present.
- ASCE Rep for Intl. Activities Committee to 16th ICSMGE, Osaka, Sept. 2005.
- Organizing Committee – ASCE GeoCongress, Atlanta, February 2006.
- Appointed CCC member to ASCE 2009 GeoCongress on Foundations, Dallas, TX. (Dec. 2006 to present)
- Publications Committee - GSP Guidelines for Authors and Editors (2006-2007)
- Appointed to Task Force - Conference Scheduling Committee, GeoInstitute (Aug. 2009 - 2012).
- Member: Engineering Geology & Site Characterization (EGSC) Comm. (2004-2013): <http://www.asce-egsc.org/>
- Member, Geocongress Conference Committee (GOC), ASCE GeoCongress, Atlanta 2014).
- Organizing Committee (IFCEE'15, San Antonio): solicitation of plenary lecturer: G. Wayne Clough

American Society for Testing and Materials (ASTM) – 1980-2014

- Member (GTJ), Subcommittee D18.92, 1985-Present.
- Editorial Board, Geotechnical Testing Journal, 1986-2001
- Member, Subcommittee D18.09 on Soil Dynamics, 1980-1984.
- Member, Subcommittee D18.13 on Marine Geotechnics, 1983-1987.
- Member, Subcommittee on Cone Penetrometer, Subcommittee D18.01.
- Senior Author - Revision of D 5778 on Cone Penetrometer Testing 2002-present. Revision approved Dec. 2007.

- Member and Author, Vane Shear Standard (2007) Subcommittee, Revision of D-2573, 2002-present.
- Reviewer, Papers submitted to the ASTM Geotechnical Testing Journal (2009 - 2011).

International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)

- Member, US National Society Committee Member (USNS), 1982-Present.
- Host Chair, Organizing Committee, International Conf. on Site Characterization (ISC'98), Atlanta, 1996-1998.
- Core Member, Tech. Comm. 16 (Ground Property Characterization from In-Situ Testing), 1994-present.
- Organizer, International GeoMusic Session at ISC '98, April 20, 1998: Prof. A.J. Lutenege (guitar), Prof. David Elton (vocals), Prof. Gianfranco Totani (sax), Professor Paul Neitzel (guitar), Prof. Paul W. Mayne (bass).
- Chair, TC 16 - Committee on Ground Property Characterization by In-Situ Tests, Nov. 2001 – present.
- Webmaster for TC 16 Website: <http://www.geoforum.com/tc16>
- Organizer for GeoMusic Session at ISC'04, Sept 22, 2004 in Porto featuring: Em. Prof. James K. Mitchell (sax), Prof. Martin Fahey (mandolin), Prof. Nuno Cruz (guitar), Prof. Jean Nuyens (piano), and Prof. Paul Mayne (bass).
- Planning Committee for ISC-3: Meeting chair in Singapore, Dec. 01, 2006.
- Attendee for ECSMGE-Madrid, Sept. 2007. Held TC 16 Workshop during the conference.
- Organizing Committee for 3rd Intl. Conf. on Site Characterization, Taipei (April 01-04, 2008).
- Held TC 16 Meeting at the 11th Baltic Geotechnical Conference, Gdansk University, Sept. 2008.
- Chair: Held TC 16 Planning meeting for CPT'10 during the IFCEE'09 (Orlando).
- Held TC 16 Planning meetings for ISC-4 and CPT'10 during ICSMGE (2009) in Alexandria.
- Reappointment for 3rd term as chair: TC on In-Situ Testing by ISSMGE Technical Oversight Committee, June 2010.
- Chair of TC 16/TC 102 organization meetings (May 10, 2010) at Hyatt Resort, Huntington Beach, CA.
- Chair for TC 102 meeting held at ISC-4 (Pernambuco Brazil) in planning for ISC-5 (Sept 2012).
- Chair for TC 102 meeting held at 18th ICSMGE (Sept 2013).
- Vice President for North America (appointed at 18th ICSMGE, Paris, 2013).
- IAC meeting with SMIG (24 Feb 2014): USNS International Activities Comm with Mexican Society Soil Mechanics
- ISSMGE Board Meeting, London UK (18-19 March 2014); and subsequent Ambraseys Symposium and Rankine Lecture (Prof. Guy Houlsby) at Imperial College

Canadian Geotechnical Society

- Member, Soil Mechanics Division (Dec. 2000 - present).
- Reviewer of Technical Papers for CGJ (1995 to present)
- Participant – 57th Canadian Geotechnical Conference, Quebec – Oct. 24-26, 2004.
- Reviewer of NSERC Proposals (Dec. 2006)
- Invited speaker for Cross-Canada Lecture series, Fall 2007.

Transportation Research Board

- Member, Transportation Research Board (TRB), Washington, D.C., 1987-2014.
- Member, Soil Properties Committee A2L02, 1990-present.
- Friend of A2K03, Foundations Committee, 1995-present.
- Member, Site Characterization Committee, A2L01, 1998-present.
- USUCGER PhD Geotechnical Research Sessions, Jan. 7, 2001.
- GATI Reception, TRB Annual Meeting, January 2003.
- USUCGER PhD Research Sessions, January 12, 2003.
- Paper Review for Committee AFP30 on Soil and Rock Properties, September 2004.
- Author for TRB NCHRP Synthesis on CPT (Jan 2006 - Dec. 2007).
- Reviewer of paper for annual conferences (*Transportation Research Records*). 2011

International Association of Foundation Drilling

- Member, International Association of Drilled Shaft Contractors (ADSC), Dallas, TX, 1994-Present.
- Technical Affiliate, 1995-present.
- Workshop Participant, Geotechnical faculty continuing education program at Fort Collins & Colorado State Pingree Park, CO, July 2000.
- Organizing Committee for Joint ADSC-ASCE Conference: GeoSupport 2004, Meeting held in Orlando, Feb. 26-27, 2003. Editor for Proceedings published as GSP 124 by ASCE.
- Organizing Committee for Joint ADSC-ASCE-PDCA Conference: Planning meeting held at GT CEE in May 2008.

- Seminar Participant for Drilled Shaft Foundations, Best Western Perimeter, Atlanta (Nov. 2008).
- Chair and Technical Session Coordinator for In-Situ Testing and Problematic Soils, IFCEE'09 (March 15-19, 2009).
- Organizing committee for technical program (IFCEE'15, San Antonio)

Virginia Society of Professional Engineers (VSPE/NSPE) - 1978-1986

- Elected to Board of Directors, Northern Virginia Chapter, 1979-1982.

Deep Foundations Institute (DFI)

- Member of deep foundations society on driven piles and drilled shafts, Dec. 2000- present
- Speaker for DFI-PDCA seminar held in Baltimore (12 March 2010).
- Advisor to Fawad Niazi - winner of the 9th Annual DFI Educational Trust - Best Student Paper Award (30 Aug. 2011)
- Participant, DFI Annual Deep Foundations Conference, Atlanta, GA (2014)
- Member - new DFI Committee on Subsurface Characterization (2014 - present)

Technical Journal Referee and Refereed Proceedings

- Reviewer, *ASCE Journal of Geotechnical Engineering*, 1982-Present
- Reviewer, *Canadian Geotechnical Journal*, 1987-present.
- Reviewer, *ASTM Geotechnical Testing Journal*, 1988-2012.
- Reviewer, Technical Books Division, John Wiley & Sons, New York, 1990.
- Reviewer, ASCE Geotechnical Special Publications (GSP Nos. 9, 22, 30, 40, 45 and 58).
- Reviewer, *Transportation Research Record*, Washington, DC, 1990-present.
- Reviewer, 3rd *International Conference on Case Histories in Geotechnical Engineering*, St. Louis, 1993.
- Reviewer, 13th *International Conf. on Soil Mechanics and Foundation Engineering*, New Delhi, 1994.
- Reviewer, *Soils & Foundations*, Japanese Geotechnical Society, 1994-present.
- Reviewer, *ASCE Journal of Geotechnical & Geoenvironmental Engineering*, 1994-present.
- Reviewer, *FHWA International Conference: Design and Construction of Deep Foundations*, December, 1995.
- Reviewer, Book Manuscripts, Prentice-Hall, Salt Lake City, 1995.
- Reviewer, *XI Pan American Conference on Soil Mechanics & Geotechnical Engineering*, Brazil, August 1999.
- Reviewer, *Geotechnical & Geological Engineering*, Kluwer Academic Publishers, Netherlands, 2000.
- Organizing Committee, *ASCE Geotechnical Special Committee No. 118*, 2002.
- Reviewer for *GeoSupport 2004* papers (GSP 124), 2003 – 2004
- Reviewer for ISSMGE papers on site characterization for ISC proceedings: 1998, 2004, 2008, 2012.
- Reviewer for *Geotechnique* papers, 2004 - present.
- Reviewer for Proposal Book on SPT-CPT for *ASCE Press*, January 2005.
- Reviewer for ISFOG proceedings paper, 2005.
- Reviewer for Australian Research Council (ARC) proposals for funding, 2006.
- Review of papers for DMT 2006 conference proceedings.
- Reviewer of papers for *ASCE Journal of Geotechnical & Geoenvironmental Engineering* (Sept 2006)
- Review of paper for *Intl J. Pavements* (Oct. 2006)
- Review of papers for *Geotechnique* (2006 - 2012)
- Review of paper for *Canadian Geotechnical Journal* (2000-2014).
- Paper reviews for *ASCE Journal of Geotechnical & Geoenvironmental Engineering*, (2007-2014).
- Reviewer: *Geomechanics & GeoEngineering* (2006- 2014).
- Reviewer of proposals, *NSERC - Canadian National Research Council*, Feb. 2007.
- Reviewer: *International Journal for GeoEngineering Case Histories* (2007, 2009, 2010, 2012).
- Panel Reviewer: Proposals to the U.S. Geological Survey, Reston, VA (July 2009).
- Reviewer of papers: *Engineering Geology* international journal, Elsevier (2010-2014).
- Paper reviewer: *Journal of Engineering Mechanics*, ASCE (2010).
- Paper reviewer: *Transportation Research Record* (2010).
- Review of paper for CPT'10 (2009-2010).
- Reviewer of papers for *Geophysics* (2011-2012)
- Reviewer for papers in *Intl. J. Numerical & Analytical Methods in Geomechanics* (2011)
- Review of paper for *Computers & Geotechnics* (2011-2013)
- Paper Reviewer for: ASCE Geotechnical Special Publication in honour of R.D. Holtz (2012)
- Reviewer of paper for *Acta Geotechnica* (2012)
- Review of papers for *Geotechnique Letters* (2012-2014)
- Reviewer of papers for 2012 GeoCongress, ASCE (Oakland)

- Review and Session Chairman for papers - 2014 GeoCongress

Federal Highway Administration - U.S. Department of Transportation

- ◆ Technical Advisor, *FHWA CPT Users Group for Cone Penetrometer Testing*. Includes quarterly meetings by TeleConference with DOT Geotechnical Engineers from MN, LA, FL, IN, CAI VA, NC WA, MO, and others.
- ◆ VideoConference meetings held. Important dates of activities:
 - 11 June 2008 - Initial establishment with Dr. Naser Abu-Hejleh of the FHWA
 - 30 September 2008 - Presentation by Michael McVay, Florida DOT
 - 04 March 2009 - Presentation by Darrick Dasenbrock, Minnesota DOT
 - 30 June 2009 - Presentation by Murad Abu-Farsakh, Louisiana DOT
 - 09 December 2009 - Presentation by Professor Rodrigo Salgado, Purdue University and Indiana DOT
 - 12 April 2010 - Presentation by Kevin McLain, Missouri DOT
 - 30 September 2010 - Presentation by Professor Paul W. Mayne, Georgia Institute of Technology.
 - 15 June 2011 - Presentation by Prof. Anand Puppala, Univ. Texas -Arlington
 - 10 November 2011 - Presentation by Mickey Cronin, Ohio Dept. of Transportation
 - 31 Jan 2013 - Presentation by P.K. Robertson on CPT
 - 30 April 2013 - Discussion led by Gary Person - MnDOT and Paul W. Mayne, GT
 - 19 June 2014 - Presentation by Joey Franzino- Indiana DOT

Network for Earthquake Engineering Simulation (NEES)

- Member, Individual Member, 2003.

Editorial Board Memberships

- *Editorial Board Member*, Journal of Geotechnical Engineering Division, ASCE, 1983-1988.
- *Editorial Board Member*, ASTM Geotechnical Testing Journal, 1986-2000.
- *Associate Editor*, Journal of Geotechnical Engineering, 1992-1993.
- *Editor*, Journal of Geotechnical Engineering, 1993-1994.
- *Editorial Board Member*, Electronic Journal of Geotechnical Engineering, 1996-2003: www.ejge.com
- *Editorial Board Member (2004-2013)*, International J. Geoenvironment Case Histories: www.geoengineer.org
- *Editorial Board: Geomechanics & Geoenvironment: an international journal (2006-2013)*: www.tandf.co.uk

Advisory Boards

- Meeting September 17, 1998 at Center for Earthquake Research and Information (CERI), University of Memphis.
- Memphis-Shelby County Seismic Hazards Mapping Project, U.S. Geological Survey, Memphis
- Meeting November 10, 1998 at CERI.
- Meeting April 22, 1998 at CERI
- Panel Board to CALTRANS (with Dr. Bengt Fellenius, Dr. Mike O'Neill, Dr. Don Anderson) to Professor Roy Olson & Rollins Brown/Univ. of Texas Austin: Axial Pile Foundation Load Test Study in California, June 1998-July 2001.
- USUCGER Advisory Board, 2003-2004: www.usucger.org
- *Invited U.S. Correspondent for Geotechnique* (Institution of Civil Engineers, London), 2004-2007.
- Advisory role for in-situ testing, Markermeer Dikes/Levees for Deltares (GeoDelft), The Netherlands (2011)

Other Involvement

1. Technical Reviewer for Individual Unsolicited NSF Proposals, 1987-present.
2. NSF Participant, Workshop on "Designated Sites for Geotechnical Experimentation in the U.S.", University of New Hampshire, September 1988.
3. NSF Participant, Workshop on "Site Improvement and Foundation Remediation in Seismically Hazardous Areas", University of Washington, Seattle, August 1991.
4. Reviewer, Technical Proposal, Louisiana State Board of Regents, February 1992.
5. NSF Panel Reviewer for Proposals submitted to Geomechanics Division, June 1992.
6. NSF Participant, Workshop on US-China Cooperation in Geotechnical Engineering, Tongji University, Shanghai, China, September 1992.
7. NSF Participant, Workshop on US-Brazil Cooperative Research on Structured and Residual Soils, CEMIG, Belo Horizonte, Brazil, November 1992.
8. NSF Panel Reviewer for Proposals submitted to Geomechanics Division, January 1993.

9. Reviewer, Geotechnical Proposals, Research Grants Council, Hong Kong, February 1993.
10. Participant, ASCE CERF Task Force on Geo-Engineering, Workshop in Leesburg, Virginia, May 1994.
11. Reviewer for Proposals, US Army Research Office, Raleigh, August 1995.
12. Member of NSF Task Force for final review of Offshore Technology Research Center (University of Texas/Austin and Texas A&M), June 1997.
13. Proposal review for the *American Chemical Society*, Petroleum Fund, January 1999.
14. Invited Reporter on Ground Characterization, Pan American Conference on Soil Mechanics & Geotechnical Engineering, Brazil, August 1999.
15. Discussion Leader and Participant, NSF Workshop on Autoadaptive Media in Geotechnical Earthquake Engineering, Austin, TX, January 10, 2001.
16. Participant, ASCE Deep Foundations Conference, Orlando, Feb. 2002.
17. Panel Member, NSF CMS Review, March 10-12, 2002.
18. Participant, NSF Workshop on Constitutive Modeling & Numerical Simulation, Johns Hopkins, Nov. 2005.
19. Reference Letters for Tenure & Promotion of various geotech faculty in the U.S.A., 2002-2014 (List confidential)

Professional Registration

- P.E. Registered Professional Engineer, Commonwealth of Virginia – 1983; License No. 0402-013865.
- P.E. Registered Professional Engineer, District of Columbia – 1981; License No. 7731.

B. CAMPUS CONTRIBUTIONS

Program Development

- Dr. Mayne prepared the revised geotechnical program of 14 graduate classes to the GT Graduate Committee and Registrar for 1995-1996 General Catalog.
- From 2000-2006, Dr. Mayne served as group leader for the CEE Geosystems Engineering Group comprised of 46 graduate students, 7 faculty (including hires Jan. 2002, May 2004, July 2004, June 2006), two technicians, one administrative aide, and 11 laboratories. Details at: www.ce.gatech.edu/~geosys
- Interim team leader (Sept. 2010-Dec. 2010) for geosystems engineering (Note: while Dr. Rix in Pavia, Italy)

Institute and School Committees

Georgia Institute of Technology

1. Graduate Committee, School of Civil & Environmental Engineering, 1990-1994.
2. Co-Founder, GT Geotechnical Society (with Dr. G.J. Rix), September 1990.
3. Seminar Chairman, Geotechnical Society Lectures, 1990-1993.
4. CEE Capstone Course Committee, Senior Design Projects, 1992.
5. Co-Advisor, ASCE Regional Student Chapter, Geotechnical Competition, 1993.
6. CEE Ad-Hoc Math Committee, 1993-1994.
7. Sensors Committee, Office of Environmental Science and Technology Program, 1994.
8. CEE Faculty Representative, GT Commencement Program, June, 1994.
9. Awards Committee, School of Civil & Environmental Engineering, 1994-1996.
10. Organizing Committee and Scientific Committee, International Conference on Environmental Remediation: Plasma Systems & Applications (co-sponsored with University of Bordeaux I, France), Atlanta, 1994-1995.
11. CEE Laboratory Safety Committee, 1995-1996.
12. CEE Ad-Hoc Committee, Geostatistics for Semesters Conversion, Dec. 1996.
13. Geosystems Engineering Coordinator, Graduate Student Applicants, 1996-1999.
14. CEE Faculty Representative, GT Commencement Program, August 1997.
15. CEE Graduate Committee, Jan. 1997-2000.
16. CEE Committee for the First George F. Sowers Lecture by President G.W. Clough, April 22, 1998.
17. Special Lecture Coordinator for “Geotechnical Engineering in the 21st Century” by Prof. G.W. Clough, April 6, 1999.
18. Lecture on “In-Situ Plasma Remediation of Contaminated Soils” to Environmental Engineering CEE 8002, April 16, 1999.
19. CEE Host for the Second G.F. Sowers Lecture by Prof. J. Mike Duncan, May 17, 1999.
20. Lecture on “Nontransferred Arc Plasma Applications in Civil Engineering” to NE 6618, Fusion Center, May 25, 1999.
21. Chair, CEE Awards Committee, September 1999-2001.
22. Chair, College of Engineering, Tenure & Promotion to Full Professor Committee, June 2000-June 2001.
23. Member - College of Engineering, Tenure & Promotion Committee, June 2001-June 2002.
24. Host Member for Sessions at Sowers Symposium and ASCE Anniversary Celebration, GCATT, May 2002.
25. Member of CEE Promotion & Tenure Committee, 2001.
26. Host for Geotechnical Tour, CEE Graduate Committee Invite on Graduate Student Interviews, Feb. 7, 2003.
27. Member of CEE Undergraduate Committee, 2003-2004.
28. Chair, Geosystems Engineering Awards Committee (Sowers, Lai, & Barksdale Awards), April-May 2004.

29. Member of CEE Promotion & Tenure Committee 2003-2005.
30. Member GeoFaculty Search Comm, 2006.
31. Member, CEE iii/SAC Ad-Hoc Committee on 680's, August 2004 to 2007.
32. Member, CEE Awards Committee (2007 to 2011)
33. Chair, Geosystems Sowers Award Committee (May 2009).
34. Interim Group Leader, Geosystems Engineering, GT (Sept-Dec. 2010).
35. Elected member: Reappointment-Promotion-Tenure Committee, Civil & Environmental Engineering (2010-2011).
36. Graduate Applicant Coordinator, Geosystems Engineering, CEE/Georgia Tech (2010-2011).
37. Instructor for Chi Epsilon Review Session (Fundamentals Exam Review: geotechnical engineering), Oct. 13, 2010.
38. Member - CEE Graduate Committee - School of Civil & Environmental Engineering (2010-2011).
39. Instructor for Chi Epsilon Review Session (Fundamentals Exam Review: geotechnical engineering), Mar 28, 2011.
40. CEE-Arch Construction Committee (Integrated Program at GT), May 2012-present
41. Instructor for Chi Epsilon Review Session (Fundamentals Exam Review: geotechnical engineering), April 5, 2012.
42. Chair - Area Committee Letter for CEE candidate - June - Sept 2012.
43. Member- interview search team - GT/CEE geosystems engineering (January 2014).
44. Chair/Member of Periodic Peer Review (PPR) Committee for CEE (elected 2014-2016).

C. OTHER CONTRIBUTIONS

Engineering Consulting (since 1989)

1. John P. Stopen Structural Engineers: "Interpretation of Piezocone Soundings for Carousel Mall", Syracuse, NY; 1989.
2. Empire State Electric Energy Research Corp: "Interpretation of In-Situ Test Results", Transmission Tower Foundation Load Test Project, New York State Electric, Elmira, New York, 1989.
3. Law Engineering, Chantilly, VA: "Dynamic Compaction Operations and Ground Vibration Control", Mt. Storm Power Facility, Grant County, WV, Jan. 1992.
4. Morris-Shea Bridge Company, Birmingham, AL: "Cone Penetration Tests for Bridge Pile Foundations", Plymouth, NC, Aug. 1992.
5. J.S. Jones & Associates, Purcellville, VA: "Interpretation of Piezocone and Dilatometer Soundings", Michigan DOT, Project, Port Huron, MI, Feb. 1993.
6. Virginia Geotechnical Services, Richmond, VA: "Piezocone Interpretation and Analysis", US Army Corps of Engineers, Indefinite Delivery Contract, Craney Island Reclamation, Virginia, Awarded August 1995.
7. Satellite Antenna Foundations for Goodson & Associates and Scientific Atlanta in Thornton/CO, AF-Nevada, Fairbanks/Alaska, and Oklahoma City, 1996-1997.
8. Parsons-Brinckerhoff, New York: Review of Seismic Piezocone Testing & Interpretations for Cooper River Bridge, Charleston, SC, May 1998 - Jan. 2001.
9. Schnabel Engineering Associates, Virginia: "Deformation Analysis of Sheet Pile Cofferdam, Whitewater Dam, Macon County, Georgia", Oct. 1998 - June 1999.
32. URS-Greiner-Woodward Clyde and FHWA, "Site Characterization and Ground Modification Program for the Virginia Approach to the Woodrow Wilson Bridge", Oct. 1998 - June 2000.
33. Trigon Engineering Consultants, "Harris Blvd Office Complex", Charlotte, NC, July 2000.
34. Ardaman Associates, "Pile Capacity by Seismic Cone Tests, Trinidad", June-Aug. 2000.
35. Salut Inc. and FHWA "Axial Pile Response of James River Bridge", Aug-Dec. 2000.
36. Virginia Geotechnical Services and VA DOT: "Pinnars Point Interchange, VA", Jan. 2001-August 2001.
37. Southern Companies/Georgia Power: "Wansley Plant Foundations, Newnan, GA", May 2001-Sept. 2001.
38. Modjesky & Masters, VDOT, Mactec/Law and SES: "Gilmerton Bridge, Chesapeake, VA", Nov. 2002 to Dec. 2003.
39. Hartsfield Atlanta International Airport (HAIA) for Archer-Western: Runway 5 Development, Feb. 2003 – June 2003.
40. Port of Anchorage Expansion, 2003-2006, Alaska for Terracon/Titan Atlantic.
41. Failure investigation: Berth 8 mooring dolphins, Savannah, Georgia, 2004-2005.
42. Failure investigation: Wellons Forehand Route 17 Bridge & Embankments, Chesapeake, VA 2004-2005.
43. CPTs for Dynamic Compaction at Bahia Beach, Puerto Rico for GeoCim Engineers, 2005.
44. SDMTs and SCPTUs at SRS, Aiken, SC for Parsons Group-Shannon & Wilson-GeoSyntec, 2006.
45. Senior Visiting Principal, Coffey & Partners, Brisbane and Chatsworth, Australia (2007).
46. Offshore data evaluation of unit weight from CPTU soundings, Fugro Engineers BV, Holland (2008).
47. Interpretation Methodologies for Cone Penetrometer Testing, ConeTec, Vancouver (2009).
48. Piezocone dissipation evaluation, NC Dept. of Transportation and S&ME, North Carolina (2010).
49. Evaluation of porewater pressures during penetration, Fugro Engineers, The Netherlands (2010).
50. Piezocone dissipation evaluations at Mer Bleue, Ottawa: Golder Associates (2011).
51. Expert geotechnical testimony - CPTs at Port Montevideo, Jan de Nul, Belgium (2010-2012).
52. Geotechnical consultancy, ConeTec Investigations (2012-2014)
53. Geotechnical Review of Site Characterization Data for Washington State Bridge, Kiewit Engineers (2013).
54. Geotechnical Expert, Woods & Aitken LLP, Omaha, NE (2014)

Other Campus Activities

Ph.D. Graduate Committees (Comps, Exams & Defenses):

1. Roger W. Meier, PhD candidate; Jan.10, 1990; Oct.15, 1991; Defended Dec. 1994.
2. Jorge Alba, PhD candidate; Nov. 29, 1990; Oct. 6, 1992; Defended: 15, 1993.

3. John Anderson, PhD candidate; Oct. 20, 1991.
4. Barry Shi-Yo Chen, PhD candidate; Apr.17, 1991; Jul.13, 1992; Defended June 1994.
5. Erol Tutumluuer, PhD candidate; March 13, 1992; Defended: July 26, 1995.
6. Dayakar Penumadu, PhD candidate; April 1, 1992; Defended: Aug. 1993.
7. Kevin Sutterer, PhD candidate; March 5, 1993; Defended: July 1993.
8. Wes Spang, PhD candidate; Feb. 9, 1993; March 18, 1994; Defended: Aug. 2, 1995.
9. James Yi-Chang Tsai, PhD candidate; March 12, 1993; June 24, 1994; Defended Dec. 1996.
10. Susan E. Burns, PhD candidate, April 9, 1993; July 5, 1995; Nov. 21, 1995; Defended Aug. 1997.
11. Haroon Shami, PhD candidate, May 19, 1993, July 8, 1994; Oral: Oct. 7, 1994; Defended: June 1996.
12. Chun-Yi Kuo, PhD candidate, Oct. 19, 1993; Defended: Aug. 16, 1994; Defended July 1996.
13. Ronaldo Luna, PhD candidate, Dec. 8, 1993. Defended: Feb. 1995.
14. Richard Reid, PhD candidate, June 27, 1994; Oct. 4, 1994; Defended: Mar. 1995.
15. Yasser Ali Hegazy, PhD candidate, May 1995; Nov. 6, 1995; April 3, 1996, Defended April 25, 1998.
16. Joseph E. Dove, PhD candidate, March 3, 1995; July 14, 1995; Aug. 31, 1995; Defended Dec. 1996.
17. Jie Han, PhD candidate, March 3, 1995; Oct. 9, 1995; Nov. 20, 1995; Defended Dec. 17 1996.
18. Thomas Rockaway, PhD candidate, July 14, 1995; Defended March 12, 1997.
19. Jin-Young Park, PhD candidate, Aug. 4, 1995.
20. Daren Zywicki, PhD candidate, guidance in fellowship proposal, Nov. 18, 1996.
21. Lin-Bing Wang, PhD comprehensive exam, May 31, 1996.
22. Seokwon Lee, PhD comprehensive exam, June 1996.
23. Laureano R. Hoyos, Jr., PhD candidate, Sept. 2, 1996; December 1996; Defended November 19, 1998.
24. Robert L. Parsons, PhD candidate, September 1996; April 28, 1997; Aug. 4, 1997; Defended June 1998.
25. Americo Fernandez, PhD guidance; Comps. March 31, 1999; Defense April 17, 2000.
26. Deh-Jeng (David) Jang, PhD Defended, May 21, 1997.
27. Katherine Klein, PhD guidance Committee, Oct. 10, 1997; Defended June 11, 1999.
28. Yong Shao, PhD guidance & Comps Committee, Jan 1997; March 18, 1997; July 1998; Defended May 21, 1999.
29. Taecil Choi, PhD guidance, April 1997; Aug. 1998. Nov 23, 2001.
30. Tim Wyatt, PhD comprehensive exam, Dec. 21, 1998.
31. Jason DeJong, PhD guidance comm., January 29, 1999; Comps May 14, 1999, Defense, May 2001.
32. Dmitriy Astakhov, PhD comprehensive exam, March 22, 1999.
33. Gye-Chun Cho, PhD Comps, March 29, 1999, Defense, July 5, 2001.
34. Yu-Hsing Wang, PhD Comps, March 29, 1999.
35. Amr Elhakim, PhD Guidance Comm, Comps March 2001, Defense: May 2005.
36. Maria Guimaraes, PhD, March 2001, Defense Feb. 8, 2002.
37. Denis Saussus, PhD, Oct. 2000; Defense June 22, 2001.
38. Tianfei Liao, PhD, guidance Committee, October 29, 2001; Comps Oct. 2002, Defense: June 2005.
39. Kimberlie Staheli Louch, guidance comm, April 25, 2001. Defense June 29, 2006.
40. Julio Valdez, guidance Committee, March 1, 2002; Defense, August 2002.
41. Sungsoo Yoon, guidance committee, Jan. 24, 2003.
42. Guillermo Zavala, PhD guidance comm., Dec. 2002; Comp Exam, March 2003.
43. Alec McGillivray, PhD guidance committee Dec. 16, 2003. Comp Exam, March 2003. Defense: 05 Nov. 2007.
44. Chanin Ruangthaveekoon, PhD guidance committee, July 23, 2003.
45. Tae-Sup Yun, PhD Guidance Committee, Aug. 24, 2004; Defense July 2005.
46. Hyunki Kim, PhD Guidance Committee, August 24, 2004; Defense June 2005.
47. Catalina Orozco, PhD Defense, Dec. 5, 2003.
48. Gaurav Chawla, PhD Comp Exam – Nov 4, 2004.
49. (Jose) Alfredo Fernández (Leon), PhD Comp Exam – Nov. 4, 2004
50. Jong-Hee Kim, PhD Comp Exam – Nov. 4, 2004.
51. Catherine Black, PhD Comp Exam – Nov. 4, 2004; Defense Committee: 05 Nov. 2009
52. Brian Lawrence, Guidance Comm. Meeting, Nov. 9, 2004.
53. Matt Evans, Reading & Defense Committee, 17 November 2005.
54. Xuan Wang, Reading & Defense Committee, 18 November 2005.
55. Guillermo Narsilio, PhD Defense Comm. 13 Feb 2006; currently post doc - Melbourne, Australia.
56. Ahmed Bayoumi, PhD Defense Comm, 23 March 2006, currently with CH₂M-Hill, CA.
57. Cem Ozan, Special Geo-Bio-Engineering PhD Comp Exam - Nov. 3, 2004; Defense Jan. 30, 2007.
58. Bate Bate, PhD Guidance Committee, Dec. 13, 2007
59. Varun Varun, PhD Guidance Committee, Jan 24, 2008. PhD Defense (16 June 2010)
60. Jong Hee Kim, PhD Defense Committee, 10 Sept. 2008.
61. Hosung Shin, PhD Reading and Defense Committee, 26 May 2009.
62. Minsu Cha: Comp Exam Comm (09 April 2010); Defense (27 July 2012)
63. Fawad Niazi: Advisor; Comp Exam Committee (09 April 2010). PhD Defense (19 Dec 2013)
64. Junbong Jang: Comp Exam Committee (09 April 2010); Guidance Committee (Aug 2010).
65. Sheng Dai: Comp Exam Committee (09 April 2010).
66. Cesar Pasten: Comp Exam Committee (09 April 2010).
67. Seunghee Kim: Comp Exam Committee (09 April 2010).
68. Aditya Bhatt: Comp Exam Committee (09 April 2010).
69. Taeseo Ku: Advisor; Comp Exam Committee (09 April 2010); Defense (24 Oct 2012); Commencement (14 Dec 2012).

70. Seokho Jeong: Comp Exam Committee (09 April 2010).
71. Fengshou Zhang: Guidance Comm. (21 May 2010); Comp Exam Committee (09 April 2010).
72. Nortey Yeboah: Comp Exam Committee (09 April 2010). Dissertation Proposal (02 Feb 2012). PhD Defense (17 Dec 2013).
73. Qian Zhao: Comp Exam Committee (09 April 2010).
74. Douglas Cortez: Defense Committee (12 October 2010).
75. Hyunwook Choo: Comp Exam (02 April 2011); dissertation proposal (30 Nov 2012). PhD Defense (2013)
76. Kip Gray: Comp Exam (02 April 2011)
77. Joan M. Larrahondo: Comp Exam, PhD Defense Committee (25 Oct. 2011).
78. Kami Mohammadi: PhD Comp Exam (17 March 2012).
79. Alejandro Martinez: PhD Proposal Committee (18 Dec 2013)
80. Song-hun Chong: PhD Proposal Committee (10 March 2014); PhD Defense: 11 August 2014.
81. Marco Terzariol, PhD Comp Exam; PhD Defense: 10 Dec. 2014.
82. Shahrzad Roshankhah, PhD Comp Exam; PhD Defense: 04 Feb 2015.

MS Committee Member (Exit Exams and Defenses):

- | | |
|---|---|
| 1. Jamie R. Beaver, MS Defense, November 20, 1995. | 15. Josepha Celes, MS Defense, August 17, 1999. |
| 2. Janet Denk, November 21, 1995. | 16. Lois Boxill, MS Defense, August 25, 1999. |
| 3. J. Reid Horne, December 1995 | 17. Thomas Casey, MS Defense, January 5, 2000 |
| 4. Xue-Hua Xu, MS Exam, March 5, 1996. | 18. Kate Wehrle, MS Defense, January 2001. |
| 5. Gina Kates (Martin), MS Defense, October 25, 1996. | 19. Prateek Goel, guidance committee, March 1, 2002 |
| 6. Kate Waggener (Mayer), MS Defense, Dec. 13, 1996. | 20. Vasilios Drosos, MS Defense Aug. 5, 2003. |
| 7. Vasilis Vandolis, MS Exam, March 1997. | 21. Jake Dodds, MS Defense, Jan. 5, 2004. |
| 8. Laurel Empie, MS Graduate Defense, Dec 1997. | 22. Ana Martin, MS Defense, Dec. 28, 2004. |
| 9. Kimberly Finke, MS Defense, March 2, 1998. | 23. Varun, MS Defense - December 2006. |
| 10. Craig Wise, MS Defense, March 27, 1998. | |
| 11. Christopher Long, MS Examination, March 12, 1999. | |
| 12. John Murray, MS Defense, June 17, 1999. | |
| 13. Ethan Cargill, MS Defense, July 28, 1999. | |
| 14. James A. Schneider, MS Defense, July 20, 1999. | |

External Reading Committees

Ph.D. Dissertation and Defense

- | | |
|--------------------------|--|
| 1. Soheil Esllaamizaad | Defense: October 2, 1997
University of Alberta, Edmonton, Dept. of Civil Engineering
"Application of Seismic CPT for Foundation Design" (reader & external examiner)
Advisor: Prof. & Associate Dean Peter K. Robertson |
| 2. John Bonita | Defense: Aug. 2000, Grad. December, 2000
Virginia Polytechnic Institute
"Piezovibrocone Liquefaction Tests in Calibration Chambers"
Advisor: Prof. J.K. Mitchell |
| 3. Deepthi Udakara | Defense: April 2000
Hong Kong University, Faculty of Engineering
"Experimental Study of a Modified Flat Dilatometer Under Plane Strain"
Advisor: P.K.K. Lee |
| 4. Muthusamy Karthikeyan | Defense: February 2005
National University of Singapore, Dept. of Civil Engineering
"Application of a radioisotope cone penetrometer to characterize a lumpy fill"
Advisor: Prof. Tan Thiam Soon |
| 5. Shin Fun Chung | Defense: May 2005
University of Western Australia, Perth
"Characterization of soft soils for deep water developments"
Advisor: Professor Mark Randolph |
| 6. Ali Amini | Defense: Nov. 26, 2006
University of British Columbia, Vancouver
"Application of seismic cone for characterization of ground improved by vibro-replacement"
Advisor: Professor John Howie |
| 7. Han Eng Low | Defense: June 2009
University of Western Australia, Perth
"Performance of penetrometers in deepwater soft soil characterization"
Advisor: Professor Mark Randolph |

8. Paul Doherty Defense: 11 June 2010
University College Dublin, Ireland
"Factors affecting the capacity of offshore piles in clay"
Advisor: Dr. Kenneth Gavin
9. Mohsen Ghafghazi Defense: May 2011
University of British Columbia ; Dept. of Civil & Environmental Engineering
"Towards comprehensive interpretation of state parameter from CPT in cohesionless soil"
Advisor: Professor John Howie
10. Shiao Huey Chow Defense: Dec. 2012
University of Sydney, Australia - Civil Engineering
"Free Falling Penetrometers into Clay"
Advisor: Professor David Airey
11. Priscilla Paniagua Defense: 25 September 2014
Norwegian Univ. Science & Technology (NTNU), Trondheim
"Model testing of cone penetration in silt with numerical simulations " "
Advisor: Professor Steinar Nordal
12. Yusuke Suzuki Defense: October 2014
University of Western Australia, Perth
"Investigation and interpretation of cone penetration rate effects"
Advisor: Professor Barry Lehane

M.S. or M.E. Thesis

- Robert F. Murray 1994-1995
MS: University of New Hampshire, Civil Engineering, Durham
"Piezocone Exploration for Marine Clay at Pease Air Force Base"
Advisor: Prof. Jean Benoit
- Chiu Chung Fai 1995-1996
MS: The University of Hong Kong, Civil & Structural Engineering
"A Modified Flat Dilatometer for Measuring Nonlinear Soil Behavior at Small Strains"
Advisor: Prof. J. Neil Kay
- Yu Jin 1997-1999
ME: Nanyang Technological University, Singapore
"Effect of Construction on Axial Load Transfer along Bored Piles in Residual Soils"
Advisor: Prof. Ming-Fang Chang
- Andre Archer 2014
ME: University of Pretoria, South Africa
"Using Small-Strain Stiffness to Predict the Settlement of Shallow Foundations"
Advisor: Professor G. Heymann

Other Noteworthy Activities

Civic Activities:

1. Consultant (with Dr. Larry Kahn) for GTRI/BRO Assistance Program to McIntosh County, Darien, GA on design and construction of a new riverfront bulkhead, 1991.
2. Tour Guide of Geotechnical Labs, Rowland Elementary Schools, May 15, 1991.
3. Presentation and Tour of Geotechnical Facilities, Canby Elementary Schools, May 16, 1991.
4. Coordinator of Task Committee for Drilled Shaft Load Test Program: Association of Drilled Shaft Contractors (ADSC) and ASCE Atlanta Geotechnical Section, 1992 conducted at Georgia Tech campus, 1992-1993.
5. Ground Vibration Study, E.A. Weiler Residence, 650 Windsor Parkway, Atlanta, Georgia; for Office of the President, Georgia Institute of Technology, July 1993.
6. Geotech Lab Tour Guide, Pre-College Engineering Program (PREP), June 1994.
7. Lab Tour Guide, Minority Introduction to Engineering (MITE), June 1994.
8. In-Situ Testing & Foundation Report, 10th Street Pedestrian Bridge, Atlanta, Feb. 1995.
9. United Way Campaign, CEE Faculty Contact Representative, Fall 1995.
10. Grounds Committee, Hanover Woods Subdivision, 1995.
11. Eulogy for Em. Prof. George F. Sowers at Northside United Methodist Church, Oct. 26, 1996.
12. Pool Landscape Committee, Hanover Woods & Spring Creek Subdivisions, Marietta, GA, 1997.
13. Repair Committee, Sedalia Park Elementary School, East Cobb County, Georgia, March 1998.
14. Lectures on Rock Mechanics to three Grade 6 classes, Haynes Bridge Middle School, Alpharetta, GA, May 1998.

15. Geotechnical Engineering Presentation, ASCE Student Member Chapter, Georgia Tech, Feb. 1999.
16. ASCE Student Chapter, presentation on *Geotechnical Engineering*, Sept. 2000.
17. PTA member, Sedalia Park Elementary School, 2001-2003.
18. Hanover Woods, Grounds Restoration Committee, Pool & Tennis Association, 2001.
19. Videocam Operation, Annual Talent Show, Sedalia Park, March 2002.
20. Chaperone, *Science Olympiad*, Cobb County Elementary Schools, Southern Tech, June 2002.
21. *Powersurge* musical ensemble, Powers Ferry United Methodist Church, Marietta, 2003-2011.
22. Tour host, 6th grade science classes from East Cobb Middle School to Georgia Tech, April 2004.
23. *Powersurge* Service at Fairburn UM Church, Sept. 12, 2004.
24. Videocam Operation, Fall Chorus Show, East Cobb Middle School, Dec. 16, 2004.
25. Tour host, 6th & 7th grade science classes, East Cobb Middle School to GT Plasma Lab, March 2005.
26. Earth Day Celebration - Music Quartet - Dr. Neitzel & Dr. Mayne - Student Center - April 2006.
27. Lecture to 8th Grade Engineering Class, East Cobb Middle School (Fred Stillwell), May 2006.
28. Earth Day - Live Performance (*Dr.Dr.Mr.MD*). Professors Neitzel (ME) and Mayne (CEE) - April 2007.
29. Advice to Marie Mecham, homeowner in western Georgia (2007)
30. Mechanical Engineering "Social Orientation" (outside of Love Building) - *Dr.Dr.Mr.MD* - August 2007.
31. Home inspection and advice: Paul Hewitt - GT Coach, west Cobb County, GA (2007).
32. Earth Day - Live Performance (*Dr.Dr.Mr.MD*). Professors Neitzel (ME) and Mayne (CEE) - April 2008.
33. Banquet Dinner - Entertainment Variety Show - The Biltmore (4th DCG) - 24 Sept. 2008.
34. Wheeler HS Chorus Event, Cobb. County - played bass accompaniment "Skatin' with my baby" - Dec. 2008.
35. Earth Day - Live Performance (*Dr.Dr.Mr.MD*). Professors Neitzel (ME) and Mayne (CEE) - April 2009.
36. Advisor, Foundation Re-Design and Load Tests using O-cell, Clough Center, Georgia Tech - Sept - Dec. 2009.
37. Reunion band for 40th anniversary graduation: Cherry Hill HS West '70, Mt. Laurel, New Jersey 01-02 May 2010.
38. Host of Georgia Tech Geotechnical Society - spring picnic in Marietta, GA: 17 April 2011.
39. Live Performance at Earth Day (*Dr.Dr.Mr.MD*) at ISyE quad on GT campus (22 April 2011).
40. PhD signing for EIT exams - CEE students (28 April 2011).
41. Fund Raiser: Georgia Cancer Specialists (31 July 2011) in Dallas, GA with the band: "*Screaming Daddies*".
42. Fund Raiser Event: Underprivileged Children of Cherokee County with the band "*Out of Nazareth*" (25 Sept 2011) at Boling Park: <http://www.serviceleague.net/Riverfest-2011.htm>
43. Benefit: Rocktoberfest at Mountain View United Methodist Church (08 Oct 2011) by band "*Out of Nazareth*"
44. Live Performance at Earth Day (*Dr.Dr.Mr.MD*) at the Camponile on GT campus (20 April 2012).
45. Performance at Melia Hotel for CEE Holiday Party with band: "*The Maniacs*" (30 Nov 2012).
46. Musical performance - pool party - Wyndcliff Subdivision, Cobb County, GA 17 Aug 2013.
47. Hosted Geotech Fall Bash - GT Geotechnical Society - Marietta, GA (24 Aug 2013).
48. Participant - 2014 Sowers Symposium, GT Ballroom and Auditorium (06 May 2014)
49. Hosted Geotechnical Fall Party - GT Geotechnical Society, Marietta, GA (23 Aug 2014).

VI. GRANTS AND CONTRACTS

A. AS PRINCIPAL AND CO-PRINCIPAL INVESTIGATOR

Principal -- Funded

1. Profiling Stress History of Clays Using Dual Piezocone Penetrometers
National Science Foundation/Geomechanics Program: Amount: \$128,000 (1991-1994)
2. Optimization and Analysis of LLWAS Pole Foundation System (with Dr. R.C. Bachus)
Federal Aviation Administration, Southern Region, Atlanta, GA; Amount: \$30,000 (1991-1992)
3. Axial Load Response of Drilled Shaft Foundations in Piedmont
International Association of Drilling Contractors, Dallas, TX ; Amount: \$1,000 (1992)
4. Behavior of Drilled Shaft Foundations in Piedmont Residuum
Federal Highway Administration, McLean, VA; Amount: \$10,000 (1992-1993)
5. National Young Investigator (NYI) - National Science Foundation
Engineering Directorate, Geomechanics Program, Washington, D.C.
Amount: \$500,000 (1992-1999); includes matching from industry
6. U.S.-Taiwan Geotechnical Engineering Collaboration
National Science Foundation, Arlington, VA; Amount: \$74,400 (1995)
7. Plasma Vitrification of Geomaterials
Federal Highway Administration, Washington, D.C. Amount: \$75,000 (1994)
8. International Environmental Conference on Plasma Remediation

- Federal Highway Administration, Washington, D.C. Amount: \$3,000 (1995)
9. Seismic Piezocone Tests at Three Bridge Sites, Hayti, Missouri
Missouri Dept. of Transportation, Jefferson City; Amount: \$5,000 (1996)
 10. Seismic Piezocone Testing for Site Improvement Program, EcoElectrica, Penuelas, Puerto Rico
GeoCim, Black & Veatch, and Dames & Moore Group; Amount: \$53,050 (1996-1998)
 11. Development of a Piezovibrocone for In-Situ Evaluation of Liquefaction Potential;
Joint proposal between Georgia Tech & Virginia Tech (PI: Prof. Jim Mitchell); US Geological Survey NEHRP;
Amount: \$65,000 (1997) and \$20,000 (1998)
 12. Seismic Piezocone Tests, Jackson County Turbines; Southern Company Services, Atlanta; Amount: \$3,500 (1998)
 13. Soil Liquefaction Assessment by Piezovibrocone Penetrometer;
Joint proposal submitted to NSF Earthquake Hazard Mitigation Program by Georgia Tech/Virginia Tech.
Amount: \$160,100, 2 years (1998)
 14. Liquefaction Response of Soils by Seismic Piezocone Tests
Mid-America Earthquake Center (MAEC) Project GT-3; Amount: \$100,000 - 2 years (01/98-12/99)
 15. Shear Wave Velocity Profiles: Marriott Hotel, Memphis Dames & Moore Group, San Francisco
Amount: \$4,500 (June-August 1999)
 16. Liquefaction-Induced Permanent Deformations
Mid-America Earthquake Center (MAE) project GT-12; Amount: \$120,000 - 3 years (10/99-09/02)
 17. Hazard Mapping of Memphis & Shelby County/TN by CPTs
U.S. Geological Survey, Central Region; Amount \$70,000 (2000)
 18. Seismic Hazard Mapping of New Madrid Seismic Region by SCPTus
U.S. Geological Survey, Central Region; Amount \$70,000 (2001)
 19. Ground Deformation Modeling (HD-7a); Mid-America Earthquake Center (2002-2005)
Amount: \$ 155,000 (3 years).
 20. Cone Penetration Testing for Highway Bridge Pile Foundations
Georgia Department of Transportation, May 2002- May 2003. Amount: \$47,300 (1 year).
 21. Seismic Flat Dilatometer & Piezocone Tests at Treporti Embankments, Italy
Italian Ministry of Defense and L'Aquila University; June 2002 – August 2002: Amount: \$7900 + \$5000.
 22. In-Situ Testing Verification of Dynamic Compaction at Hartsfield Runway 5
Archer Western Contractors, Atlanta, GA; May – July 2003: Amount: \$15,000
 23. Geotechnical Site Characterization for Integrated Excavation Tools
National Science Foundation/CMS Geomechanics Program; Funded: 2004: Amount: \$38,919
 24. Cone Penetration Testing for Dynamic Compaction – Marietta Street Dorm Foundations
ECS Engineering Consultants, Marietta, GA; Funded: 2004: Amount: \$10,500.
 25. Performance of Highway Underdrains in Georgia
Georgia Dept. of Transportation – Georgia Transportation Institute; funded: 2005-2007: Amount: \$233,000.
 26. Enhancements to Shear Wave Measurements
National Science Foundation; Requested: \$85,000, Sept. 2006 (unfunded).
 27. Geotechnical Site Characterization by Cone Penetrometer Testing
New Orleans East Levees - USACE and URS Corporation; 2006-2007: funded: \$42,000
 28. Characterization by Piezocone and Vane Shear Testing
New Orleans Citrus Land Levees - USACE and Terracon Corporation; 2006-2007: funded: \$40,000
 29. Site Characterization by Piezocone Penetration Tests
New Orleans Plaquemines Parish Levees - USACE and Arcadis; 2007: \$62,000 unfunded.
 30. In-Situ Testing Short Course, Minneapolis (with Dr. Alec McGillivray)
Minnesota Dept. Transportation: Requested: \$10,890 (awarded Feb 2007)
 31. Cone Penetration Testing: State-of-Practice
National Academies, Washington D.C. Requested: \$29,000 (awarded Jan 2006-June 2007).
 32. Applications Manual - Engineering Design Using the Cone Penetration Test
ConeTec Investigations, Vancouver, BC; Requested: \$20,000 (funded 2009).
 33. Enhanced In-Situ Probes for Geotechnical Site Characterization at Construction Sites
Submitted to NIST - ARRA Program Requested Amount: \$620,444 (2009); Unfunded (2011).
 34. Geotechnical Foundation Systems Course: Minnesota Dept. of Transportation: \$6600 (Jan. 2011)
 35. Site Characterization by Cone Penetration Tests - Indiana Dept. of Transportation: \$9100 (March 2011)
 36. Upgrade of Cone Penetrometer Equipment and CPT Rig, GT Tech Fees, \$22,220 (October 2011) pending
 37. Review of Lab Testing - Bootlegger Cove Formation (CH2M-Hill): \$11,111 (May-Oct 2012)
 38. Methodology for evaluating undrained shear strength from offshore piezocone tests. Fugro Engineers, Liedschendam, The Netherlands; \$30k (Nov. 2013-Dec 2014).
 39. Load Resistance Factored Design of Shallow Foundations and Walls, Georgia DOT, pending (2014).
 40. Geotechnical Seismic Assessments at Power Generating Facilities, TVA, Chattanooga, TN (2013-2014): \$45,000

41. Enhancements to In-Situ Geotechnical Testing, Vancouver Foundation: total \$210,257 (2011-2014).
42. Improved Interpretations of In-Situ Tests, Design House Consultancy; total \$90,000 (2013-2015).

Co-Principal – Funded

1. In-Situ Vitrification of Soils Using Plasma Arc. Focused Research Project E20-G30
Georgia Institute of Technology. Co-PI with Dr. Louis Circeo (lead), CRC; Amount: \$20,000 (1991)
2. In-Situ Ground Modification Using Plasma Arc Technology
Co-PI with Dr. Louis Circeo, GTRI to National Science Foundation SGER. Amount: \$29,874 (1992)
3. Geostatistical Assessment of In-Situ Engineering Properties of H-Area/ITP - Savannah River Site,
ERDA/Westinghouse, Aiken, SC, January 1994; Co-PI with Dr. S. Rouhani/GT CEE. Amount: \$168,327 (1994)
4. Site Characterization for Nontransferred Arc Plasma Vitrification of Soils (with L. Circeo/Arch; J. Nemeth/GTRI)
Submitted: August 1996 to ERDA/Westinghouse/Savannah River Tech. Center; Amount: \$80,000 (1996)
5. Plasma Magmavication of Problematic Sedimentary Rocks (with Dr. L.J. Circeo)
ARO Project with Plasma Processing Enterprises/Raleigh, NC
Amount: \$100,000 (1997) – Phase I study, 6 months; Amount: \$500,000 (1999) – Phase II study, 2 years
6. Portable Plasma Remediation of Contaminated Ground and Wastes (with Dr. L.J. Circeo)
ERDA Funding with GTRI, Westinghouse/SRS, and CRC/Arch
Amount: \$1.35 Million – 3 years (1997)
7. Regional Site Characterization of Soils in Mid-America (with Dr. G.J. Rix, Dr. Jose Pujol, and Dr. S. Pezeshk)
Mid-America Earthquake Center (MAEC)/ Univ. Memphis (project GT-8); Amount: \$120,000 - 3-years (10/99-10/2002)
8. Stabilization of Mudstone Landslide, Route 1, Raleigh, NC
Institute for Transportation Research & Education; with Dr. Mohammed Gabr, NC State University
Funded \$50,000 for 6 months (Sept. 2000-Jan. 2001).
9. Verification of site response at NMSZ broadband stations (HD-9).
Co-PIs: C. Langston and P. Bodin/Univ. Memphis, G.J. Rix and P.W. Mayne/GT
Mid-America Earthquake Center, Univ. Illinois/NSF; Funded: 2004-2006: Amount: \$80,000 (2 years).
10. Site Characterization of Soft Zones - Santee Formation (co-PI with Drs. Susan Burns, Glenn Rix, Carlos Santamarina)
Savannah River Site - US Department of Energy (SRS/DOE) - Washington D.C. Funded: \$2.1 M (2008-2014).

B. AS INVESTIGATOR

Funded

1. Vitrification of Flyash. Europlasma , Bourdeau, France
PI: Dr. L. J. Circeo, Director, GIT Construction Research Center; Amount: \$75,000 (1993)
2. Development of an Integrated Optoelectronic Chemical Sensor Module: Geoenvironmental Cone Penetrometer
Testing for Subsurface BETX Contamination; with Photonic System Sensors and GTRI Environmental Science; ARO
STTR Program; Amount: \$100,000 – Phase I, 12 mo. (1996); Amount: \$500,000 – Phase II, 24 months (1997-1999)
3. Plasma Vitrification of Contaminated Soils
PI: Dr. L.J. Circeo, Director, GTRI Construction Research Center
Defense Special Weapons Agency funding with Clark Atlanta University and GTRI; Amount: \$282,000 (1998)
4. Geotechnical Engineering Circular (GEC-5) on Soil Properties - Federal Highway Administration
PIs : Dr. Rudy Bonaparte, Dr. Paul Sabbatini, Dr. Bob Bachus, GeoSyntec Consultants, Atlanta, GA
Amount: \$150,000 (1998-2001).
5. Plasma Vitrification of Phosphatic Clays
PI: Dr. L.J. Circeo, GTRI Plasma Arc Res.Facility; Cargill Mining Applications, Florida; Amount: \$45,000 (2004).
6. NEES – National Earthquake Engineering Simulation
Grand Challenge – Led by Drs. Glenn J. Rix, R. DesRoches, A. Araha, A. Bostrom
Amount Requested: \$1.2 M/year for 4 years; Submitted January 2004; Resub: March 2005; Awarded June 2005.
7. Use of Geotechnical Data in Paleoliquefaction and Paleoseismology of the New Madrid Seismic Zone
PI: Dr. Martitia Tuttle, Tuttle & Associates - Funded by US Nuclear Regulatory Commission (2011 - 2015)

VII. HONORS AND AWARDS

Professional

- **Editor's Choice:** *Canadian Geotechnical Journal* paper by F. Niazi and P.W. Mayne (November 2014): <http://www.nrcresearchpress.com/doi/full/10.1139/cgj-2013-0220#.VI2p-XvG8cY>
 - **Hal Hunt Lecture**, 39th Deep Foundations Institute Conference, Atlanta Marriott Marquis (Oct 2014)
 - **The James Hoover Distinguished Lecture**, 38th Geotechnical Conference, Iowa State University, 10 April 2014
 - **The 12th Jennings Lecture** given in Capetown, Durbin, and Pretoria, South African Institution of Civil Engineers (SAICE), 4-6 February 2014.
 - **The 16th George F. Sowers Lecture**, ASCE Georgia Geotechnical Section, Atlanta, GA (07 May 2013)
 - Keynote Talk: **Shaking the Foundations of GeoEngineering Education**, Univ. Ireland, Galway: 04 July 2012
 - Keynote Speaker: **2012 Nordic Geotechnical Meeting**, Copenhagen: 09 May 2012.
 - **2012 Ardaman Lecture:** University of Florida, Gainesville, 10 April 2012: "Advanced Geotechnical Site Testing"
 - **2012 State-of-the-Art:** "Requirement of multi-channel in-situ tests for routine geotechnical site characterization" ASCE GeoCongress (25-29 March 2012), Oakland, CA: <http://content.geoinstitute.org/GeoCongress2012.html>
 - **2010 Opening Keynote - Overview of CPT Regional Reports** - International Symposium on Cone Penetration Testing (CPT'10), Hyatt Resort, Huntington Beach CA (09-13 May 2010): www.cpt10.com
 - **2009 State-of-the-Art (SOA-1) Lecture: Geomaterial Behavior & Testing**, 17th International Conference on Soil Mechanics & Geotechnical Engineering (ICSMGE), Alexandria, Egypt - 05 - 10 October 2009: www.issmge.org
 - **2009 Michael W. O'Neill Lecture** - University of Houston during the annual CIGMAT Conference (06 March 2009). Center for Innovative Grouting, Materials, and Testing: <http://cigmat.cive.uh.edu>
 - **2007 Cross-Canada Lecture** (Fall) - Canadian Geotechnical Society, National Research Council of Canada, Ottawa; (Delivered 14 presentations visiting 12 cities in 2 weeks; December 2007): www.cgs.ca
 - ***2006 James K. Mitchell Lecture** delivered during GeoShanghai International Conference (June 2006).
 - **Synthesis on Cone Penetration Testing**, Awarded by National Academies, Transportation Research Board (Jan.2006).
 - **Award of Appreciation** for **Proceedings Editor** presented by Association of Drilled Shaft Contractors (ADSC) and ASCE Geo-Institute, Jan. 31, 2004.
 - Paper by Mayne, P.W. and Kulhawy, F.H., "K₀-OCR Relationships in Soils" was selected as a **classic reading reference** and chosen for reprint in *A History of Progress*, ASCE Geotechnical Special Publication No. 118 (2003).
 - Award of Appreciation for Editorial Board Service on *ASTM Geotechnical Testing Journal*, Jan. 15, 2002.
 - Appreciation Award, USUCGER Board Service, November 2001.
 - Nominee, Wellington Prize, American Society of Civil Engineers for JGGE paper, Oct. 1999.
 - President-Elect, U.S. Universities Council on Geotechnical Engineering Research (USUCGER)*, May 1999.
 - Chair, Host Committee for International Site Characterization (ISSMGE), 1996-1998.
 - Exemplary Contributions Award, Transportation Research Board, January 1995.
 - National Young Investigator (NYI), Engineering Directorate, National Science Foundation, 1992-1997.
- *Note: Listed as the top number 1 downloaded paper from the international journal: *Geomechanics & Geoengineering* (17 Nov 2011).

Institute

- **2006 Outstanding Professional Education Award**, bestowed by President G.W. Clough, Georgia Institute of Technology, GT Awards Ceremony, Student Center Ballroom, April 2006. (Engraved Plaque with \$2000 check).
- **Innovation Award:** Electric AutoSeis; awarded by Civil & Environmental Engineering, Georgia Tech, May 2, 2003.
- Certificate of Appreciation for Ten Years of Dedicated Service, April 2000, Georgia Tech.
- CEE Nominee of Best Journal Paper to Sigma Xi Society, March 1999.
- ASCE Certificate of Appreciation, GT Student Chapter, April 1999.
- CEE Nominee to Sigma Xi Best Paper Award, 1996.
- Awarded Tenure, Georgia Institute of Technology, May 1996.
- Especially Effective Teacher, Graduating Seniors, GT Civil & Environmental Engineering, January 1994.
- University Nominee for NSF Presidential Faculty Fellows by Georgia Institute of Technology, November 1991.

Other

- Listed in *Marquis Who's Who* (www.marquiswhoswho.com): 2011
- Co-author to 2011 DFI*** **Best Student Paper Award** given to PhD candidate: Fawad Niazi (October 2011).
- Advisor to Fawad Niazi - **Top 10 research papers award** - SAIC Student Paper Contest (November 2011)
- Advisor to **2008 Best PhD Thesis** (Dr. Alec McGillivray), School of Civil & Environmental Engineering, GT.
- 2011 Award for **Geosystems Team Leader (2000-2006)** given by Geosystems Engineering Group/CEE (Dec. 2006)

- Certificate of Participation, Cairo University, Egypt, Jan. 27, 2000.
- Advisor, Sigma Xi Undergraduate Research Award to James Schneider, 1997.
- Educational Achievement Award, Univ. of Wisconsin, Madison, 1997.
- Advisor, Barksdale Award to James Schneider, Civil & Env. Engineering, Georgia Tech, May 1997.
- Award of Appreciation, Nanyang Technological University, June 1996.
- Advisor, J-L. Chameau Student Excellence Award to Susan E. Burns, Georgia Inst. of Technology, 1996.
- Educational Achievement Award, Univ. of Wisconsin, Madison, Aug. 1995.
- Advisor, G.F. Sowers Graduate Award to Susan E. Burns, June 1995.
- Advisor, Outstanding Teaching Assistant Award to Susan E. Burns, Civil & Env. Engrg., June 1994.
- Faculty Advisor Award, SAIC** Best Student Paper, June 1993.
- Elected President, Cornell Geotechnical Society, Sept. 1989.
- Senior Engineer Certificate, Law Engineering, McLean, Virginia, 1983.
- Employee of the Year, Law Engineering, Washington, D.C., 1978.

Notes: *See: <http://www.usucger.org>;

**Note: Science Applications Intl. Corp. (SAIC), Marietta, GA.

***DFI = Deep Foundations Institute: www.dfi.org

VIII. PROFESSIONAL EXPERIENCE

Prior to entering academe, Paul Mayne spent 11 years in consulting practice in the Washington DC- Virginia-Maryland region where he worked on 455 projects located in 22 states, as well as Greenland and Italy. During this time, he developed several areas of expertise, including shallow and deep foundation systems, ground vibration monitoring, site improvement by dynamic compaction, soil dynamics, and geotechnical site characterization. At age 35, he began doctoral studies and was awarded a PhD in 1990. In addition to his academic career, he continues to serve as an advisor and consultant to various geotechnical firms, construction contractors, and agencies on a variety of projects.

Experience in Building Foundations

Selected prestigious geotechnical projects involving building foundations that Paul worked on include:

- White House Expansion, Oval Office and Rose Garden, Washington, DC.
- First American Bank, 20-story office tower on a 40-m square mat foundation, Tysons Corner Virginia.
- White House Communications Agency (WHCA), Anacostia Naval Station, Washington, D.C.
- Smithsonian Support Facilities & Museum Warehouse, Suitland, MD.
- Nato III Satellite Tracking Antenna Foundations, Thule, Greenland.
- International Monetary Fund Expansion (Largest column load in DC), Washington, DC.
- Thomas Jefferson Accelerator (CEBAF) for nuclear physics research, Newport News, VA.
- Intercultural Center, Georgetown University, Washington, DC.
- Tysons Two Office Tower, 22-story building on mat foundation, Westpark, Virginia
- Freddie Mac Headquarters Complex, McLean, VA.
- Embassy Suites Hotel Foundations, Crystal City, VA.
- Nato III Satellite Tracking Antenna, Mount Etna, Sicily.
- Lincoln-American Center, 10-story Twin Office Towers, McLean, VA.
- Treasury Building Retaining Wall Study, Pennsylvania Avenue, Washington, D.C.
- Documentation: Dorm B Settlement - Excessive Settlements, Georgia State University: www.geoengineer.org

Experience in Deep Foundations

With respect to deep foundation systems, Dr. Mayne has developed extensive field experience and analytical capabilities. He has served as project engineer for the design, analysis, installation, and construction monitoring of numerous types of deep foundation systems including driven piles, bored piles, augered, and drilled shafts. Representative projects include:

- 788 large 24-inch prestressed concrete piles driven for the I-295 Bridge over the James River, VA The two main span piers each have total loads of 40,000 kips for the 1428-m concrete cable-stayed bridge. This bridge was cited in *Transportation News* 179 as one of America's Top 12 Bridges (Aug. 1995). It was also featured on *CNN News* after a freak tornado collided with the bridge after having killed 4 people in nearby Petersburg, VA. A tractor trailer was flipped upside down onto the bridge deck.
- 70 drilled piers for the International Monetary Fund (IMF) office tower, including the largest structural column load in Washington, D.C. (4875 kips on a single straight shaft foundation bearing on granitic rock).

- 144 driven PSC piles for Rt. 213 Bridge over Bohemia River for the MD DOT.
- 202 driven PSC piles adjacent to Pentagon Federal Credit Union, VA.
- 150 driven H-piles for Old Colony Inn expansion, Alexandria, VA.
- 175 timber piles for two Allied Chemical compressor foundations in Hopewell, VA
- 90 drilled shafts for the 10-story Stafford office in Tysons Corner, VA for Westpark Group.
- 120 pressure-injected footings for Westpark Hotel in McLean, Virginia.
- 210 steel pipe piles for the Massey Coal Facility in Newport News, VA for Dravo Corp.
- 90 precast concrete piles for a Port of Virginia wharf in Portsmouth, VA.
- 60 augercast/bored piles for Fairfax Hospital Ambulatory Center in Fairfax, VA.
- 96 driven pipe piles for Merck Chemical Powerhouse in Elkton, VA.
- 144 pipe piles for the Columbia Gas powerhouse structure in Elkton, WV.
- 50 drilled shafts for the Intercultural Center, Georgetown University, DC.
- 50 driven steel monotube piles for Robinson Terminal pier in Alexandria, Virginia
- 80 driven precast concrete piles for the White House Communications Agency structure at Anacostia Naval Air Station, Washington DC.
- 150 driven H-piles for GSA Depot Warehouse in Springfield, VA.
- 80 drilled shafts for Quince Orchard transmission lines, Potomac, MD
- 88 drilled shafts for Holiday Inn Hotel, Crystal City, VA
- 54 driven H-piles for Charles Center, Baltimore, MD
- 66 driven H-piles for O'Gara Hall, Georgetown University, DC.
- Analysis of axial loaded drilled shaft, I-85, Coweta County, for GA DOT using SCPTu data.
- Evaluation of axial pile tests at James River Bridge, Richmond, VA for Fed Hwy Admin and VA-DOT using CPT data
- Prediction of axial & lateral pile response, Power Substation in Center GA for Southern Companies using SCPTu data.
- Large diameter drilled shafts for Gilmerton Bridge Replacement, Virginia – VDOT, MacTec, and Modjesky-Masters
- Analysis of 12 O-cell tests for Arthur Ravenel Bridge over the Cooper River, Charleston, SC (2002)
- Class "A" prediction of axial drilled shaft response, O-cell test, GA-DOT Viaduct at International Blvd and CNN (2004).
- Prediction of O-cell load test, Foothills Medical Center, Calgary, AB for ConeTec and Golder Associates (2007).
- O-cell testing program: test shaft at G.W. Clough Center, Georgia Institute of Technology, Atlanta, GA (Oct. 2009).
- O-cell test shafts: ADSC-ASCE Atlanta Geotechnical Section, Lawrenceville test site, GA (2009-2011).

Experience in Soil Dynamics

Paul Mayne was an active member of ASTM Subcommittee D18.09 on Cyclic and Dynamic Soil Testing, responsible for developing the industry standards, and participated in the original standard for crosshole geophysical testing (ASTM D 4428). He has conducted numerous ground vibration studies and dynamic analyses, including both field measurements and analytical predictions. Dr. Mayne has taken and published the highest known measured impact stresses of a falling weight (23 tonnes dropped from 18 meters) during dynamic compaction operations. Paul Mayne has coordinated extensive field and laboratory testing programs for liquefaction analyses at the Calvert Cliffs nuclear power facility site for Bechtel, Maryland and managed exploration programs for facilities at the Surry and North Anna Nuclear Power Plants, Virginia. Paul also directed a large USGS laboratory cyclic triaxial testing program for the slope failures near Yakutat and Kodiak, Alaska. He is familiar with use of resonant column devices, cyclic triaxial, cyclic simple shear, Instron, and MTS cyclic loading systems, velocity recorders, seismographs, spectrum analyzers, and ground vibration measurements. Selected dynamics problems include:

- Compressor Foundation Design, Cryogenics Facility for Allied Chemical, Hopewell, VA.
- Foundation Design, Ripley Compressor, Columbia Gas Transmission Corp., Jackson Co., W.VA
- Geotechnical Dynamics Study, Columbia Gas Compressor Station, Elkview, W.VA
- Air Compressor Failure Investigation, Owens-Corning, Delmar, N.Y.
- Geotechnical Analysis for Antenna Foundation Site, Bjerkvik, Norway
- Geotechnical Analysis, Antenna Foundation Site, Kinross, Scotland
- Soil Dynamics Evaluation, Western Union Antenna, Reston, VA
- Geotechnical Dynamics Study, NATO Satellite Antenna, Catania, Sicily
- Geotechnical Analysis, DOE Antenna Site, Kansas City, Missouri
- Soil Dynamics Evaluation, NRL Antenna Foundation, Chesapeake Beach, MD
- Soil Dynamic Properties, Antenna and Radome, Thule, Greenland
- Geotechnical Dynamics Study, DOE Earth Station, Germantown, Maryland
- Soil Dynamics Evaluation, General Electric Monomer Compressor Foundation, Selkirk, N.Y.
- Geotechnical Dynamics Properties, NRL Antenna Foundation, Quantico, VA
- Soil Dynamics Properties, Wahiawa Antenna Foundation, Oahu, Hawaii

- Satellite Antenna Foundation, Scientific-Atlanta, Norman, OK (with Dr. G.J. Rix)
- Satellite Antenna Foundation with Les Goodson & Associates, North Denver, CO (with Dr. G.J. Rix).
- Soil Dynamics Properties, Powerstation, Brownsville, TN (2004).

A list of ground vibration projects which Paul Mayne has been involved with include:

- Vibration Monitoring, PSC Pile Driving Operations, Old Colony Inn Expansion, Alexandria, VA
- Vibration Monitoring, Ramhoe Operations, World Bank, Washington, DC
- Ground Vibration Monitoring, Driven PSC/Steel H-Piles, TransPotomac Plaza, Alexandria, VA
- Vibration Monitoring, H-Pile Driving Operations, O'Gara Hall, Georgetown University, Washington, DC
- Ground Vibration Monitoring, H-Pile Driving, Charles Center, Baltimore, MD
- Monitoring of Blast Vibrations, Rock Excavation for Diamond Intl. Tissue Mill, Penobscot, Old Town, Maine
- Vibration Prediction Study, Impact Densification for Virginia Coal Terminal, Portsmouth, VA
- Vibration Measurement & Prediction, Blast Test Facility, Naval Weapons Center, White Oak, MD
- Vibration Measurement and Prediction Study, FRA Corridor Improvement, Stamford Train Station, CT
- Vibration Measurement and Evaluation, Treasure Chest Printing Press Machines, Manassas, VA
- Vibration Prediction Study, Proposed Railroad Tracks, Churchland West Development, Portsmouth, VA
- Vibration Measurements, Franki Pile Driving Operations, Univ. of Maryland, MD
- Deceleration Measurements & Vibration Monitoring, I-65 Highway, Dynamic Compaction, Birmingham, AL
- Acceleration Monitoring, Reinforced Seismic Wall, Harpers Ferry, W.VA
- Vibration Monitoring, Landmark Mews Townhouses, Alexandria, Virginia
- Ground Vibration Monitoring, Site Improvement Test Program, Harbour Island, Tampa, FL
- Ground Vibration Measurement & Prediction Model Using Mass Vibrator, CEBAF Electron Beam Accelerator Facility, Newport News, VA for Daniel-Mann-Johnson-Mendenhall/D.C.
- Vibration Measurements, L'Enfant Plaza Post Office, Washington, DC
- Floor Vibration Measurements, United Technologies, E. Hartford, CN
- Compaction Vibrations, Radisson Hotel, Charlottesville, VA
- Ground Vibration Measurements, Caton 95 Office Park, Baltimore, MD
- Vibrations Monitoring, Construction for Norfolk Hilton Hotel, VA
- Deceleration Measurements, Site Improvement Operations, Waterford, NY
- Printing Press Vibration Measurements for National Bureau of Standards, Engraving & Printing, Washington, DC
- Pile Driving Vibration Monitoring, Pentagon Federal Credit Union, Alexandria, VA

Miscellaneous Soil Dynamics Projects that Dr. Mayne has worked on include:

- NDT Pavement Evaluation by Heavy Mass Vibrator, Southeast Freeway, Washington, DC
- Cyclic Triaxial Testing Program, USGS Study of offshore settlements near Yakutat & Kodiak Islands, Alaska
- NDT Pavement Subgrade Evaluation by Heavy Mass Vibrator, Anacostia Naval Station, Washington, DC
- Liquefaction and Dynamic Studies, Calvert Cliffs Facility, Maryland for Bechtel Power Corp.
- Cyclic Simple Shear Testing of McManus Clay Cornell University.

Specialized Expertise in Dynamic Compaction

Paul W. Mayne developed an international reputation in the ground modification technique of dynamic compaction (also termed heavy tamping and dynamic consolidation). In 1984, the program was in fact so successful that Law Companies established a completely separate firm (Geosystems Inc.) that was entirely devoted to the marketing & implementation of dynamic compaction. (The firm eventually split into three factions that engage in site improvement to this day: Densification Inc., John S. Jones & Associates, and GeoCon Inc.). Paul became well known to international colleagues in the dynamic compaction field, including: Jean Dumas of Geopac/Canada; Mike Gambin of Menard/France, Tom Dobson of Keller/UK, Robert Lukas of Soil Testing Services/IL, Joe Welsh of Hayward-Baker, Barrie Slocumbe and Tom Dobson of Keller Foundation/UK, Serge Varaksin of Entrefecour/France, and Christian Guyot and David D'Appolonia of MCI/PA. Paul developed both empirical and theoretical approaches which have been well-cited in the current literature on dynamic compaction, as noted in the following technical papers and reports:

- Gazetas, G. and Selig, E.T., ed. (1985). *Vibration Problems in Geotechnical Engineering*, ASCE, New York: 304 p.
- Lukas, R.G. (1986). Dynamic Compaction for Highway Construction. *Report No. FHWA/RD- 86/133*, Federal Highway Administration, Washington, DC: 230 p.
- Van Impe, W.F. (1988). *Soil Improvement Techniques and Their Evolution*. Balkema, Rotterdam: 131 p.

- Cheremisinoff, P.N., ed. (1988). *Civil Engineering Practice, Vol. 3, Geot. Engrg*, Technomic Pub., Lancaster: 870 p.
- Hausmann, M.R. (1990). *Engineering Principles of Ground Modification*. McGraw-Hill, New York: 632 p.
- Rollins, K.M., ed. (1994). *In-Situ Deep Soil Improvement*. GSP No. 45, ASCE, New York: 148 p.
- Lukas, R.G. (1995). *Dynamic Compaction*, Geotechnical Engineering Circular No. 1, (FHWA-SA-95-037), Federal Highway Administration, Washington, DC: 97 p.
- Schaefer, V.R., editor (1997). *Ground Improvement, Ground Reinforcement, Ground Treatment*, ASCE Geotechnical Special Publication (GSP) No. 69: 619 p.
- Rollins, K.M. and Kim, J. (2010). Dynamic compaction of collapsible soils based on U.S. case histories. *Journal of Geotechnical & Geoenvironmental Engineering* 136 (9): 1178-1186.

Dynamic compaction projects that Paul has specifically worked on include:

- Massey Coal Terminal (33-acres of site improvement) - the largest such project in the USA as of 1980, conducted by joint venture of ECI-Menard using three 150-tonne crawler cranes, Newport News, VA (see paper by Mayne, et al. 1984)
- Interstate I-65 Project, Morris County, with the Alabama DOT, Birmingham, AL. (see paper by Mayne & Jones, 1983).
- Harbour Island Development, Test Program, with Hayward Baker Co., Tampa, FL.
- 4-story Hilton Hotel, Norfolk Airport, VA
- TOF Storage Tanks, with Mueser-Rutledge, Alexandria, Egypt.
- Landmark Mews Townhouses, Buildings 6 and 17, Alexandria, VA.
- 5-story Coquina Harbour Condominiums, Little River, SC
- Vinegar Hill Parking Garage, Omni-Radisson Hotel, Charlottesville, VA
- Caton 95 Office Park, Baltimore, MD
- The Corner Shopping Center, Route 7, Falls Church, VA
- South Park Mall Expansion, Charlotte, NC
- 3-story NEC Corporate Office Building, Route 28, Dulles Airport, Herndon, VA
- General Electric Silicone Division, Landfill Improvement, Waterford, NY
- Westpark Office, Horsepen Road, Reston, VA
- Navy NRL Satellite Antenna for Ford-Aerospace, Chesapeake Beach, MD
- Riverpark Towers Foundation Mat, Newport News, VA
- Runway 5 west approach embankment for Atlanta Hartsfield Airport expansion with Hayward Baker Company and Archer-Western Group (2003).
- Dormitory Foundation Preparations, Marietta Street, Atlanta with J.S. Jones & Associates and ECS (2004).
- Bahia Beach Resort Development, San Juan, Puerto Rico with Geocim and Densification Inc (2005-2006).
- Dynamic compaction trial program, interpretation of CPT results, Port of Brisbane, Australia with Coffey & Partners (2007).