

# AMY B. CERATO, PH.D., P.E.

Rapp Foundation Presidential Professor  
School of Civil Engineering and Environmental Science  
University of Oklahoma  
202 W. Boyd Street, Room 334  
Norman, OK 73019  
Phone: 405-313-8937; Fax: 405-325-4217;  
Email: [acerato@ou.edu](mailto:acerato@ou.edu); <http://cerato.ou.edu/>



## EDUCATION

B.S.C.E. Civil Engineering	Lafayette College, Easton, Pennsylvania (1999)
M.S.C.E. Civil Engineering	University of Massachusetts – Amherst, Massachusetts (2001)
M.S. Geosciences	University of Massachusetts – Amherst, Massachusetts (2004)
Ph.D. Geotechnical Engineering	University of Massachusetts – Amherst, Massachusetts (2005)

## REGISTRATION AND INDUSTRY EXPERIENCE

Licensed Professional Engineer, PE; Oklahoma License #23099  
Geotechnical Engineer: Cerato Geotechnical Engineering, PLLC – Norman, OK: August 2014 – present  
Civil Engineer: Pietrzak and Pfau Engineering and Surveying, PLLC – Goshen, NY – Summer 1998

## FACULTY APPOINTMENTS

Full Professor of Civil Engineering, University of Oklahoma – Norman (5/16-present)  
Associate Professor of Civil Engineering, University of Oklahoma – Norman (5/11-5/16)  
Assistant Professor of Civil Engineering, University of Oklahoma – Norman (1/05-5/11)

## PROFESSIONAL AWARDS AND HONORS

2015 Shamsher Prakash Prize for Excellence in Teaching of Geotechnical Engineering  
2011 UMASS – Amherst Outstanding Young Alumni Award  
2010 ASCE Arthur Casagrande Professional Development Award  
2009 Presidential Early Career Award for Scientists and Engineers (PECASE)  
2009 Rapp Foundation Presidential Professorship  
2009 Alumni Teaching Award (top 10% Fall '08 & Spring '09 course evaluations in OU CoE)  
2008 National Science Foundation (NSF) CAREER Award  
2008 George W. Tauxe Outstanding Professor Award (awarded by the OU-CEES students)  
2008 Graduate College Special Recognition for Outstanding Efforts in Graduate Recruiting  
2005 Junior Faculty Research Program Award  
2004 American Association for University Women (AAUW) Selected Professions Fellowship  
2004 Society of Women Engineers (SWE) Past Presidents Scholarship

2004 UMASS – Amherst Geotechnical Engineering Fellowship  
2003 Association for Women in Science (AWIS) Predoctoral Certification of Merit  
2002 Trent R. Dames and William W. Moore Fellowship (ASCE)  
2001 National Fraternity (Delta Delta Delta) Graduate Fellowship  
2001 UMASS - Amherst Geotechnical Service Award  
2001 National Science Foundation Graduate Fellowship – Honorable Mention

## RESEARCH RELATED EXPERIENCE

**Summary:** In collaboration with others, *generated \$6.9 million in external research funds* (\$3.0 million in individual credit); *Expended \$2.3 million in research dollars* to date; *Received NSF PECASE Award* and major grants from NIST and NSF; *Published 29 journal articles* and 32 conference proceedings; Published work has been *cited 913 times to date* (from Google Scholar); Generated an *h-index score of 14 and i10-index score of 16* (from Google Scholar); Made 59 professional presentations; Graduated 2 PhD and 13 MS Thesis students.

### Sponsored Research - National

RAPID: Large-Scale Shake Table Test to Quantify Seismic Response of Helical Piles in Dry Sand. (NSF). **PI:** 100% credit, \$133,180 total, 3/1/16-2/28/18. **(active)**

NIST Center for Risk-Based Community Resilience Planning. 2014 NIST-CR-COE-01. Co-PI. 33% credit, \$1,374,998 total; with N. Wang and C. Nicholson at OU and Colorado State University (co-directors: John van de Lindt and Bruce Ellingwood) as lead. 2/1/2015-1/31/2020. **(active)**

Collaborative Research RSB: A Risk-Informed Decision Framework to Achieve Resilient and Sustainable Buildings that Meet Community Objectives. National Science Foundation (NSF). Co-PI. 50% credit, \$380,000 total; with N. Wang at OU and Colorado State University (PI: John van de Lindt) as lead. 2/15/15-2/14/19. **(active)**

Design and performance of helical piles under seismic conditions: Phases I/II/III. Deep Foundations Institute (DFI): Helical Piles and Tiebacks Committee (HPTC). **PI.** 100%, \$145,000 total; 6/15/15-8/15/17. **(completed)**

PECASE: The Role of Specific Surface Area and Cation Exchange Capacity in Understanding and Predicting Expansive Soil Behavior. National Science Foundation (NSF). **PI:** 100% credit, \$427,168 total, 2/1/08-9/30/14. **(completed)**

NEESR-SG: Understanding and Improving the Seismic Behavior of Pile Foundations in Soft Clays, National Science Foundation (NSF); 20% credit, \$1,151,514 total; with K. K. Muraleetharan (PI), G. Miller; 10/1/08-9/30/13. **(completed)**

REU Site: Sustainable Infrastructure Technologies National Science Foundation (NSF); 45% credit, \$284,727 total; with K. Strevett (PI); 6/1/09-5/31/13. **(completed)**

GAANN: Doctoral Fellowships in Technologies for Sustainable Infrastructure and Environmental Systems, U.S. Department of Education; Executive Committee; 8% credit, \$783,936 total; with R. Kolar (PI); 8/15/09-8/14/12. **(completed)**

REU Site: Sustainable Technologies for Infrastructure and the Environment, National Science Foundation (NSF); 23% credit, \$293,279 total; with K. Strevett (PI); 3/15/06-3/14/10. **(completed)**

American Association for University Women (AAUW) Selected Professions Fellow: **PI:** 100% credit, \$20,000 total, 7/04-6/05. **(completed)**

### **Sponsored Research - State**

Validating Field Employed X-Ray Fluorescence (XRF) on Stabilized Subgrade Projects to Assess Impact of Extreme Precipitation Events, Improve Construction Quality Control and Facilitate Geotechnical Forensic Investigations, Southern Plains Transportation Center (SPTC); **PI:** 50% credit, \$167,923 total; with G. Miller; 10/1/2014-3/31/17. **(completed)**

Interpretation of In Situ Tests as Affected by Soil Suction, Oklahoma Transportation Center Research (OkTC-REOS); 33% credit, \$346,226 total; with G. Miller (PI) and K.K. Muraleetharan; 10/1/11-12/31/14 **(completed)**

The Effects of Soil Suction on Shallow Slope Stability, Oklahoma Transportation Center Research (OkTC-REOS); 50% credit, \$273,677 total; with G. Miller (PI); 10/1/11-12/31/14 **(completed)**

Real-Time Monitoring of Slope Stability in Eastern Oklahoma, Oklahoma Department of Transportation (ODOT). SPR 2241. **PI:** 50% credit, \$202,443 total; with Y. Hong; 10/1/2011-12/31/2013. **(completed)**

Applied Approach Slab Settlement Research, Design/Construction, Oklahoma Department of Transportation (ODOT); 33% credit, \$199,032 total; with G. Miller (PI) and K. Hatami; 10/1/10-12/31/12 **(completed)**

Oklahoma Transportation Fellows Program, Oklahoma Transportation Center Research, Education and Outreach Support (OkTC-REOS); **PI:** 90% credit, \$150,000 total; with K. Horne; 1/1/10-12/31/2012 **(completed)**

Calcium-Based Stabilizer Induced Heave in Oklahoma Sulfate-Bearing Soils, Oklahoma Department of Transportation; **PI:** 40% credit, \$203,810 total; with G. Miller and M. Elwood-Madden; 10/1/08-12/31/10 **(completed)**

Validation and Refinement of Chemical Stabilization Procedures for Pavement Subgrade Soil in Oklahoma, Oklahoma Department of Transportation (ODOT); **PI:** 50% credit; \$318,317 total; with G. Miller; 10/1/07-12/31/10. **(completed)**

Evaluation and Field Verification of Strength and Structural Improvement of Chemically Stabilized Subgrade Soil, Oklahoma Department of Transportation (ODOT); 50% credit, \$82,854 total; with G. Miller (PI); 10/01/06-9/30/08. **(completed)**

Design of Small Wind Turbine Foundation Elements, Oklahoma Center for the Advancement of Science and Technology (OCAST); **PI:** 100% credit, \$90,000 total; 8/1/06-7/31/08. **(completed)**

Heave in Sulfate-Bearing Oklahoma Soils Due to Lime Stabilization, Oklahoma Transportation Center (OTC); 50% credit, \$79,923 total; with G. Miller (PI); 5/15/06-12/31/07. **(completed)**

### **Sponsored Research - University**

Faculty Investment Program (FIP): Understanding the Stress-Strain Behavior of Cement-Treated Clays: A Micro-Macro Approach. PI: 100 % credit, \$15,000 total; 6/14/2014-12/31/2014. **(completed)**

Presidential International Travel Fellowship – Recruiting and Maintaining Viable Research Relations with Blaise-Pascal University, Clermont-Ferrand, France \$1,000, 8/30-9/6/2008. **(completed)**

Travel Grant from the Vice President for Research – Recruiting and Maintaining Viable Research Relations with Blaise-Pascal University, Clermont-Ferrand, France \$1,200, 8/31-9/6/2006 (**completed**)

Junior Faculty Research Program Award - “Scale Effects in Triaxial Compression Testing using Granular Material.” PI (100%): \$6,000, Summer 2005. (**completed**)

## **Publications and Presentations**

### **Refereed Journal Publications (29)**

\*Denotes graduate or undergraduate research assistant co-authors.

- \*Quiroga, A.J., \*Thompson, Z.M., Muraleetharan, K.K., Miller, G.A., and Cerato, A.B. (2017). Stress-Strain Behavior of Cement-Improved Clays: Testing and Modeling. *Acta Geotechnica*. DOI:10.1007/s11440-017-0529-1
- Giardis, I., Padgett, J.E., Barbosa, A.R., Chen, S., Cox, D., Webb, B. and Cerato, A.B. (2016). Multiple-hazard fragility and restoration models of highway bridges for regional risk and resilience assessment in the U.S.: a state-of-the-art review. *Journal of Structural Engineering*. DOI: 10.1061/(ASCE)ST.1943-541X.0001672.
- \*Liu, C., \*Soltani, H., Muraleetharan, K.K., Cerato, A.B., Miller, G.A. and Sritharan, S. (2016) Cyclic and Seismic Response of Single Piles in Improved and Unimproved Soft Clays. *Acta Geotechnica*. DOI: 10.1007/s11440-016-0504-2.
- \*Taghavi, A., Muraleetharan, K.K., Miller, G.A. and Cerato, A.B. (2016). Centrifuge Modeling of Laterally Loaded Pile Groups in Improved Soft Clay. *Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 142, No. 4. DOI: 10.1061/(ASCE)GT.1943-5606.0001443.
- \*Lin B., Jin Y., Pang H., Cerato A.B. (2015). Experimental Investigation on Dilation Mechanisms of Land-Facies Karamay Oil Sand Reservoirs under Water Injection. *Rock Mechanics and Rock Engineering*. DOI: 10.1007/s00603-015-0817-8.
- \*Lin, B. and Cerato, A.B. (2015). Shear Strength of Shale Weathered Expansive Soils along Swell-Shrink Paths—Analysis Based on Microscopic Properties. *Environmental Earth Sciences*. DOI: 10.1007/s12665-015-4691-1
- \*Tabet, W., Cerato, A.B., Miller, G.A. (2014). The Influence of Clod Size and Moisture Condition on the Shearing Behavior of Compacted Soil. *Geotechnical and Geological Engineering (GEGE)*. Vol. 32, Issue 5 (2014), pp. 1253-1260. DOI:10.1007/s10706-014-9796-x
- \*Lin, B. and Cerato, A.B. (2014). Applications of SEM and ESEM in Microstructural Investigation of Shale-Weathered Expansive Soils along Swelling-Shrinkage Cycles. *Engineering Geology*. Vol. 177, 22 July 2014, pp. 66–74. DOI:10.1016/j.enggeo.2014.05.006
- \*Lin, B., Cerato, A.B., Madden, A.S. and Elwood-Madden, M.E. (2013). Effect of Fly Ash on the Behavior of Expansive Soils: Microscopic Analysis. *Environmental Engineering and Geosciences (EEG)*. Vol. 19, pp. 85-94, DOI:10.2113/gsegeosci.19.1.85
- \*Lin, B. and Cerato, A.B. (2013). Electromagnetic Properties of Expansive Soils under One-dimensional Deformation. *Acta Geotechnica*. Vol. 8, Issue 4, pp. 381-393. DOI: 10.1007/s11440-012-0198-z

- \*Lin, B. and Cerato, A.B. (2013). Hysteretic Soil Water Characteristics and Cyclic Swell-shrink Paths of Compacted Expansive Soils. *Bulletin of Engineering Geology and the Environment (BEGE)*. Vol. 72, Issue 1, pp. 25-35. DOI: 10.1007/s10064-012-0450-7
- Cerato, A.B., Miller, G.A. (2013). Determination of Soil Stabilization Content using X-Ray Fluorescence (XRF). *ASTM Geotechnical Testing Journal (GTJ)*. Vol. 36, No. 5, pp. 781-785. DOI:10.1520/GTJ20120186.
- Cerato, A.B. and \*Lin, B. (2012). Dielectric Measurement of Soil-electrolyte Mixtures in a Modified Oedometer Cell Using 400 kHz to 20 MHz Electromagnetic Waves. *ASTM Geotechnical Testing Journal (GTJ)*. Vol. 35, No. 2. pp. 261-269.
- \*Lin, B. and Cerato, A.B. (2012). Prediction of Expansive Soil Swelling Based on Four Micro-scale Properties. *Bulletin of Engineering Geology and the Environment*. Vol. 71, No. 1, pp. 71-78.
- \*Lin, B. and Cerato, A.B. (2012). Investigation on Soil-Water Characteristic Curves of Untreated and Stabilized Highly Clayey Expansive Soils. *Geotechnical and Geological Engineering*. Vol. 30, No. 4, pp. 803-812.
- Cerato, A.B., \*Taghavi, A., Muraleetharan, K.K., Miller, G.A. (2012). An Educational Module to Demonstrate the Seismic Behavior of Piles in Improved and Unimproved Soft Soils. *ASCE Journal of Professional Issues in Engineering Education and Practice*. Vol. 138, No. 4, pp. 274-282.
- Cerato, A.B., Elton, D. and Shannon, D. (2012). Building Student Teamwork with the Student Geo-Challenge. *ASCE Journal of Professional Issues in Engineering Education and Practice*. Vol. 138, No. 1, pp. 14-20.
- \*Pinilla, J.D., Miller, G.A., Cerato, A.B. and Snethen, D.S. (2011). Influence of Curing Time on the Resilient Modulus of Chemically Stabilized Soils. *ASTM Geotechnical Testing Journal (GTJ)*. Vol. 34, No. 4. pp. 364-372.
- \*Buhler, R. and Cerato, A.B. (2010). Design of Dynamically Wind-Loaded Helical Piers for Small Wind Turbines. *ASCE Journal of Performance of Constructed Facilities*. Vol. 24, No. 4, pp. 417-426.
- Chang, C.S., Cerato, A.B. and Lutenegeger, A.J. (2010). Modeling the Scale Effect of Granular Media for Strength and Bearing Capacity. *International Journal of Pavement Engineering. Special Issue on Unified Approach for Characterizing, Modeling and Simulating of Stone-Based Infrastructure Materials*. Vol. 11, No. 5, pp. 343-353.
- Cerato, A.B., Miller, G.A. and \*Hajjat, J. (2009). The Influence of Clod-Size and Structure on Wetting-Induced Volume Change of Compacted Soil. *ASCE Journal of Geotechnical and Geoenvironmental Engineering*. Vol. 135, No. 11, pp. 1620-1628.
- Cerato, A.B. and \*Victor, R. (2009). Effects of Long-Term Dynamic Loading and Fluctuating Water Table on Helical Anchor Performance for Small Wind Tower Foundations. *ASCE Journal of Performance of Constructed Facilities*. Vol. 23, No. 4, pp. 251-261.
- Cerato, A.B. and \*Victor, R. (2008). Effects of Helical Anchor Geometry on Long-Term Performance for Small Wind Tower Foundations Subject to Dynamic Loads. *The Journal of the Deep Foundations Institute (DFI)*, Vol. 2, pp. 30-41.
- Cerato, A.B. and Lutenegeger, A.J. (2007). Scale Effects of Shallow Foundation Bearing Capacity on Granular Material. *ASCE Journal of Geotechnical and Geoenvironmental Engineering*. Vol. 133, No. 10, pp. 1192-1202.

- Cerato, A.B. and Lutenegeger, A.J. (2006). Bearing Capacity of Square and Circular Footings on a Finite Layer of Granular Soil Underlain by a Rigid Base. *ASCE Journal of Geotechnical and Geoenvironmental Engineering*. Vol. 132, No. 11, pp. 1496-1501.
- Cerato, A.B. and Lutenegeger, A.J. (2006). Specimen Size and Scale Effects of Direct Shear Box Tests of Sands. *ASTM Geotechnical Testing Journal (GTJ)*. Vol. 29, No. 6, pp. 507-516.
- Lutenegeger, A.J. and Cerato, A.B. (2005). Lenticular Truss Bridges of Massachusetts. *Civil Engineering Practice: Journal of the Boston Society of Civil Engineers Section/ASCE*. Vol. 20, No. 1, pp. 53-74.
- Cerato, A.B. and Lutenegeger, A.J. (2004). Determining Intrinsic Compressibility of Fine-Grained Soils. *ASCE Journal of Geotechnical and Geoenvironmental Engineering*. Vol. 130, No. 8, pp. 872-877.
- Cerato, A.B. and Lutenegeger, A.J. (2002). Determination of Surface Area of Fine-Grained Soils by the Ethylene Glycol Monoethyl Ether (EGME) Method. *ASTM Geotechnical Testing Journal (GTJ)*. Vol. 25, No. 3, pp. 315-321.

### Refereed Conference Publications (32)

- \*Tabet, W., Cerato, A.B. and Jentoft, R. (2017). The Use of Thermogravimetry in Quantifying the Hydration Products in Cement-Stabilized Kaolinite. *Proceedings of the Geotechnical Frontiers Conference*. Geotechnical Materials, Modeling and Testing, GSP 280: Behavior of Compacted Clays. Orlando, FL. March 13-15, 2017. Pp. 92-102
- Lin, B. and Cerato, A.B. (2015). Osmotic Suction of Two Highly Plastic Expansive Soils. *Proceedings of the 6<sup>th</sup> Asia-Pacific Unsaturated Soil Mechanics Conference*. Guilin, China. October 23-26, 2015.
- Lin, B. and Cerato, A.B. (2015). Point of Zero Charge of Two Highly Plastic Expansive Soils. *Proceedings of the 6<sup>th</sup> Asia-Pacific Unsaturated Soil Mechanics Conference*. Guilin, China. October 23-26, 2015.
- \*Taghavi, A., Muraleetharan, K.K., Miller, G.A. and Cerato, A.B. (2015). Dynamic Pile-Soil-Pile Interaction in Improved Soft Clay: Centrifuge Tests. *Proceedings of the IFCEE2015 Conference in San Antonio, TX*, March 16-21, 2015.
- \*Quiroga, A.J., Muraleetharan, K.K., Cerato, A.B. and Miller, G.A. (2015). Stress-Strain Behavior of Cement-Improved Clays. *Proceedings of the IFCEE2015 Conference in San Antonio, TX*, March 16-21, 2015.
- \*Tabet, W. and Cerato, A.B. (2015). Quantification of Microfabric Parameters in Cement-treated Clay Using Environmental Scanning Electron Microscopy. *Proceedings of the IFCEE2015 Conference in San Antonio, TX*, March 16-21, 2015.
- \*Fadipe, S.O., Cerato, A.B. and Ogunsola, O.T. (2015). Time and Soil Dependent Suction Change in Clods. *Proceedings of the International Conference on Civil, Structural and Transportation Engineering*. Ottawa, Ontario Canada. May 4-5, 2015. Paper No. 297.
- Xiaogang He, Yang Hong, \*Xiaodi Yu and Amy B. Cerato. (2014). Landslides Susceptibility Mapping in Oklahoma State Using GIS-based Weighted Linear Combination Method. *Proceedings of World Landslide Forum 3*, 2-6 June 2014, Beijing.
- \*Lin, B. and Cerato, A.B. (2014). Hysteretic Shear Strength and Shear-induced Volume Change of Natural Expansive Soils Weathered from Shale. *GeoCongress 2014. GSP 234. GeoCharacterization and Modeling for Sustainability*. Atlanta, GA, February 23-26, 2014. pp. 1347-1356.

- \*Lin, B. and Cerato, A.B. (2012). Hysteretic Soil-Water Characteristic Curves of Highly Clayey Expansive Soils. *GeoCongress 2012. GSP 225. State of the Art and Practice in Geotechnical Engineering*. Oakland, CA, March 25-29, 2012. pp. 1205-1212.
- \*Tabet, W., Cerato, A.B. and Miller, G.A. (2012). The Influence of Clod Size and Moisture Condition on the Shearing Behavior of Compacted Soils. *GeoCongress 2012. GSP 225. State of the Art and Practice in Geotechnical Engineering*. Oakland, CA, March 25-29, 2012. pp. 1156-1164.
- \*Liu, C., \*Soltani, H., \*Pinilla, J.D., Muraleetharan, K.K., Cerato, A.B., and Miller, G.A. (2011). Centrifuge Investigation of Seismic Behavior of Pile Foundations in Soft Clays. *GeoFrontiers 2011: GSP 211, Advances in Geotechnical Engineering*. Dallas, Texas, March 13-16, 2011. pp. 585-594.
- \*Lin, B. and Cerato, A.B. (2011). The Role of Micro-scale Properties in the Study of Expansive Soils. *GeoFrontiers 2011: GSP 211, Advances in Geotechnical Engineering*. Dallas, Texas, March 13-16, 2011. pp. 4129-4136.
- \*Holderby, E., Cerato, A.B., Miller, G.A. (2011). Field Verification of Stabilized Soil Strength. *GeoFrontiers 2011: GSP 211, Advances in Geotechnical Engineering*. Dallas, Texas, March 13-16, 2011. pp. 2454-2463.
- \*Kirupakaran, K., Cerato, A. B., Liu, C., Miller, G. A., Muraleetharan, K. K., \*Pinilla, J. D., \*Price, S. and \*Thompson, Z. M. (2010). Simulation of a Centrifuge Model Test of Pile Foundations in CDSM Improved Soft Clays. *GeoFlorida 2010: GSP 199, Advances in Analysis, Modeling and Design*. West Palm Beach, Florida, February 20-24, 2010. pp. 1583-1591.
- \*Hussey, N., Cerato, A.B., \*Grasmick, J., \*Holderby, E., \*Tabet, W. and Miller, G.A. (2010). An Assessment of Soil Parameters Governing Soil Strength Increases with Chemical Additives. *GeoFlorida 2010: GSP 199, Advances in Analysis, Modeling and Design*. West Palm Beach, Florida, February 20-24, 2010. pp. 2702-2711.
- Puppala, A.J. and Cerato, A.B. (2009). Heave Distress Problems in Chemically-Treated Sulfate-Laden Materials. *GeoStrata*. Vol. 10, Issue 2, pp. 28-32.
- \*Victor, R. and Cerato, A.B. (2008). Helical Anchors as Wind Tower Guyed Cable Foundations. *Proceedings of the 2<sup>nd</sup> British Geotechnical Association (BGA) International Conference on Foundations. ICOF2008*. Brown M. J., Bransby M. F., Brennan A. J. and Knappett J. A. (Editors). Dundee, Scotland. June 24-27, 2008. Vol. 1, pp. 343-356.
- \*Adams, A.G., \*Dukes, O.M., \*Tabet, W., Cerato, A.B. and Miller, G.A. (2008). Sulfate Induced Heave in Oklahoma Soils due to Lime Stabilization. *GeoCongress 2008: GSP 179, Characterization, Monitoring, and Modeling of GeoSystems*, New Orleans, LA, March 9-12, 2008, pp. 444-451.
- Cerato, A.B., \*Hajjat, J. and Miller, G.A. (2008). The Influence of Structure on Wetting Induced One-Dimensional Volume Change of Compacted Soil. *GeoCongress 2008: GSP 178, Geosustainability and Geohazard Mitigation*, New Orleans, LA, March 9-12, 2008, pp. 287-294.
- Miller, G.A., Cerato, A.B. and \*Khoury, C.N. (2007). Some Design Challenges for Fine-Grained Fill in Urban Environments. *Proceedings of the XIV European Conference on Soil Mechanics and Foundation Engineering (ECSMF)*. Madrid, Spain, Sept. 24-27, 2007. Millpress, Rotterdam, Vol. 3, pp 1373-1378.
- Cerato, A.B. and Nevels, J.B. (2007). Shallow Landslide Analysis: McCurtain County, Oklahoma. *Proceedings of the 1<sup>st</sup> North American Landslide Conference: Landslides and*

- Society: Integrated Science, Engineering, Management, and Mitigation*. Vail, CO, June 3-8, 2007. CD Proceedings.
- \*Buhler, R. and Cerato, A.B. (2007). Stabilization of Oklahoma Expansive Soils using Lime and Class C Fly Ash. *GeoDenver: New Peaks in Geotechnics*. GSP 162: Problematic Soils and Rocks and In Situ Characterization. Denver, CO, Feb. 18-21, 2007. CD Proceedings.
- Cerato, A.B. and Lutenegeger, A.J. (2006). Shrinkage of Clays. *Proceedings of the 4th International Conference on Unsaturated Soils*, Phoenix, AZ, April 2-6. GSP No. 147. Vol. 1, pp. 1097-1108.
- Cerato, A.B., \*Oleski, R.C. and \*Puklin, C.C. (2006). Case Study: Compacted Embankment Landslide in Grady County, Oklahoma. *Proceedings of the 40th Annual Symposium on Engineering Geology and Geotechnical Engineering. Landslides – Investigation, Analysis and Mitigation*. Utah State University, Logan, Utah, May 24-26, 2006. CD Proceedings.
- Cerato, A.B. and Lutenegeger, A.J. (2005). Activity, Relative Activity and Specific Surface Area of Fine-Grained Soils. *Proceedings of the 16th International Conference on Soil Mechanics and Foundation Engineering, (ICSMGE)*, Osaka, Japan. Sept. 12-16. Vol. 2, pp. 325-328.
- Cerato, A.B. and Lutenegeger, A.J. (2004). Disturbance Effects of Field Vane Tests in a Varved Clay. *Proceedings of the 2nd International Conference on Site Characterization*. September 19-22, Porto, Portugal. Vol. 1, pp. 861-868.
- Cerato, A.B. and Lutenegeger, A.J. (2003). Scale Effects of Shallow Foundation Bearing Capacity on Granular Material. *Proceedings of the British Geotechnical Association (BGA) International Conference on Foundations*, September, 2-5, Dundee, Scotland. pp. 217-225.
- Lutenegeger, A.J., Cerato, A.B. and Harrington, N. (2003). Some Physical and Chemical Properties of Some Piedmont Residual Soils. *Proceedings of the 12th Panamerican Conference on Soil Mechanics and Geotechnical Engineering and the 39th U.S. Rock Mechanics Symposium*, Vol. 1, pp. 775-782.
- Cerato, A.B. and Lutenegeger, A.J. (2003). Model Footing Tests on a Finite Layer of Granular Soil. *Proceedings of the International Symposium on Shallow Foundations, FONDSUP 2003*. November 5-7, Paris, France. Vol. 1, pp. 155-162.
- Lutenegeger, A.J., and Cerato, A.B. (2001). Surface Area and Engineering Properties of Fine-Grained Soils. *Proceedings of the 15th International Conference of Soil Mechanics and Geotechnical Engineering (ICSMGE)*, Vol. 1, pp. 603-606.

## **Book Chapters (2)**

- Hong, Y., He, X., Cerato, A., Zhang, K., Hong, Z. and Liao, Z. (2015). Predictability of a physically-based model for rainfall-induced shallow landslides: Model development and case studies. In M.Scaioni (Ed.), Modern technologies for landslide investigation and prediction. Berlin, Heidelberg: Springer (ISBN978-3-662-45930-027; ISBN978-3-662-45931-7eBook), DOI: 10.1007/978-3-662-45931-7\_9
- Xiaogang He, Yang Hong, Xiaodi Yu and Amy B. Cerato (2014). Landslides Susceptibility Mapping in Oklahoma State Using GIS-based Weighted Linear Combination Method. In Kyoji Sassa, Paolo Canuti, Yeuping Yin, International Consortium on Landslides (pp. 371-377). Springer. ISBN: 978-3-319-05049-2. DOI: 10.1007/978-3-319-05050-8 58.



**Other Publications (10)**

- Cerato, A.B., Hong, Y., Yu, X., He, X. and Tabet, W. (2014) Real-Time Monitoring of Slope Stability in Eastern Oklahoma. SPR 2241. ODOT Final Report. (150 pp).
- Cerato, A.B., Miller, G.A., Elwood-Madden, M., Campbell, M. and Adams, A. (2011). Calcium-Based Stabilizer Induced Heave in Oklahoma Sulfate-Bearing Soils. SPR 2210. ODOT Final Report. (150 pp)
- Cerato, A.B., Miller, G.A., Snethen, D., Holderby, E., Hussey, N. (2011). Validation and Refinement of Chemical Stabilization Procedures for Pavement Subgrade Soil in Oklahoma. Volumes I and II. SPR 2207. ODOT Final Report. (350 pp)
- Cerato, A.B. (2008, 09, 10, 11). GrEM Annual Report. Graduate College Internal Report (25 pp.)
- Cerato, A.B., Taghavi, A., Muraleetharan, K.K., Miller, G.A. (2011). Understanding and Improving the Seismic Behavior of Pile Foundations in Soft Clays: An Educational Module. NEEScomm Education, Outreach and Training, GEORGE E. BROWN, JR. NETWORK FOR EARTHQUAKE ENGINEERING SIMULATION (NEES) Report (80 pp). <https://nees.org/resources/2705>
- Snethen, D., Miller, G.A. and Cerato, A.B. (2008). Evaluation and Field Verification of Strength and Structural Improvement of Chemically Stabilized Subgrade Soil. SPR 2195. ODOT Final Report. (246 pp). <http://www.okladot.state.ok.us/hqdiv/p-r-div/spr-rip/library/reports/fhwa-ok0801.pdf>
- Cerato, A.B. (2008). Out of Classroom Engineering Work Helps Lead to CE Degree at the University of Oklahoma. *Foundation Drilling: ADSC, The International Association of Foundation Drilling*. Vol. 29, No. 7, pp. 46, 49.
- Cerato, A.B. (2005). Scale Effects of Shallow Foundation Bearing Capacity on Granular Material (Abstract). *Geotechnical News*. Vol. 23, No. 2, pp. 51-52.
- Yuretich, R.F., Bloom, J. and Cerato, A.B. (2004). Environmental Consequences of Acidic Drainage from Davis Pyrite Mine, Rowe, Massachusetts (Abstract). *Proceedings of the Geological Society of America (GSA) 39<sup>th</sup> Annual Northeastern Section and 53<sup>rd</sup> Annual Southeastern Section Joint Meeting*, March 25-27, Washington, D.C.
- Cerato, A.B. (2002). Scale Effects of Shallow Foundation Design on Granular Material (Abstract). *Proceedings of the Northeast Geotechnical Graduate Research Symposium*, November 21, 2002, University of Massachusetts, Amherst.

**Presentations (59)**

- Introduction to Helical Pile and Helical Anchor Design. Terracon-OKC, Lunch and Learn (2-PDH) Seminar. OKC, OK. November 2016
- All Shook up! Preliminary Results of Seismic Tests on Single and Group Helical Piles in Sand (Keynote Presentation). DFI Helical Piles and Tiebacks Seminar. Ontario, CA. August 2016.
- Characterization of Micro-properties of Clays and Cement-Stabilized Clays. NSF Workshop on Geotechnical Fundamentals in the Face of New World Challenges. Washington, DC. July 2016.
- Large Shake Table Test on Helical Piles: Test Program and Preliminary Results (Plenary Presentation). SuperPILE 2016, Chicago, IL. June 2017.
- Helical Pile Design (Invited Lecture). 51<sup>st</sup> Annual Shallow Exploration Drillers Clinic (SEDC), Catoosa, Oklahoma. April 2016.

- Helical Pile Design for Transmission Lattice Tangent and DeadEnd Towers. Power Engineers 2-PDH Lunch and Learn Seminar, Columbus, NE. April 2016
- Helical Pile and Helical Anchor Design for Transmission Towers. Terracon Lunch and Learn (2-PDH) Seminar. Savannah, GA. October 2015
- Introduction to Helical Pile and Helical Anchor Design. Oklahoma Structural Engineering Association (OSEA) Invited Lecturer. Stillwater, OK. October 2015
- Re-evaluating Geotechnical Parameters for Helical Pile Design. Tulonay-Wong Lunch and Learn (2 PDH) Seminar. Houston, TX. July 2015
- Designing Helical Piles for Lateral Loads. Anvil/Conoco Philips Lunch and Learn (2-PDH) Seminar. Billings, MT. March 2015.
- Introduction to Helical Pile and Helical Anchor Design. Pond and Company Lunch and Learn (2-PDH) Seminar. Atlanta, GA. March 2015
- Introduction to Helical Pile and Helical Anchor Design. Oklahoma City Geotechnical/Structural Engineering Professional Development Hours (6-PDH) Seminar. Oklahoma City, OK. February 2015
- Introduction to Helical Pile and Helical Anchor Design. EQT Professional Development Hours (3-PDH) Seminar. Pittsburgh, PA. January 2015
- Introduction to Helical Pile and Helical Anchor Design. ASCE Oklahoma City Chapter of the GeoInstitute Monthly Meeting. (1-PDH). OKC, OK. January 2015
- Introduction to Helical Pile and Helical Anchor Design. Professional Development Hours (6-PDH's) Seminar. Denver, CO. December 2014
- Introduction to Helical Pile and Helical Anchor Design. Woods-Group Mustang Professional Development Hours (1-PDH) Seminar. Houston, TX. December 2014
- Estimating Soil Properties for Helical Pile Design. Fluor and Marathon Lunch and Learn (1-PDH). Houston, TX. (August 2014).
- Introduction to Helical Pile and Helical Anchor Design. Columbia Pipeline and NiSource Professional Development Hours (6-PDH) Seminar. Charleston, WV. (July 2014).
- Helical Pile and Helical Anchor Design and Choosing Geotechnical Parameters. Torcsill Foundations Training. Norman, OK. (June 2014).
- NEES Special Session on Enhancing Seismic Response of Foundations and Structures through Ground Improvement: Research, Education, and Practice. 10<sup>th</sup> NCEE, Anchorage, Alaska. (July 2014).
- Important Aspects of Chemical Stabilization of Fine-Grained Soils. Southern Plains Transportation Center Sponsored Seminar (April 2014).
- Determination of Soil Stabilization Content using X-Ray Fluorescence (XRF). 2014 GeoCongress (February 2014).
- Determination of Soil Stabilization Content using X-Ray Fluorescence (XRF). Oklahoma Transportation Research Center (OkTC) Research Day. OKC, OK (September 2013).
- Tips on Writing a NSF CAREER Grant. USUCGER Workshop for Early Career Faculty. Boston, MA (July 2012)
- Creating Excitement for the GeoProfession through Competition: GeoChallenge. *GeoCongress, Oakland, CA* (March 2012)
- Understanding and Improving the Seismic Behavior of Pile Foundations in Soft Clays: An Educational Module. *NEES Quake 2011, Buffalo, NY*. (June 2011).
- Field Verification of Stabilized Soil Strength. *GeoFrontiers 2011*. Dallas, TX (March 2011).

- Creating Excitement for the GeoProfession through Competition: GeoChallenge. *GeoFrontiers, Dallas, Texas* (March 2011)
- “Why go to Graduate School?” *OU CoE Graduate Student Symposium*. OU. Norman, OK (March 2011)
- CAREER: The Role of Specific Surface Area and Cation Exchange Capacity in Understanding and Predicting Expansive Soil Behavior. *Poster Presentation 2009 NSF Engineering Research and Innovation Conference, Honolulu, Hawaii*. (June 2009).
- Diversity in the GeoProfession. *IFCEE09*. Orlando, FL (March 2009)
- Creating Excitement for the GeoProfession through Competition: GeoChallenge. *IFCEE09*. Orlando, FL (March 2009)
- Effects of Long-Term Dynamic Loading and Fluctuating Water Table on Helical Anchor Performance for Small Wind Tower Foundations. *DFI Helical Foundations and Tiebacks Specialty Seminar*. Los Angeles, CA (Nov. 2008)
- Validation and Refinement of Chemical Stabilization Procedures for Pavement Subgrade Soils in Oklahoma. *ODOT-OTC Research Day*. OKC, OK (October 2008)
- Statistics for Engineers. *OU REU Site Program*. Norman, OK (June 2008)
- The Influence of Structure on Wetting Induced One-Dimensional Volume Change of Compacted Soil. *GeoCongress 2008*. New Orleans, LA (March 2008)
- Designing Small Wind Tower Guyed Cable Foundations Using Helical Anchors Subject to Dynamic Loads. *DFI Helical Foundations and Tiebacks Specialty Seminar*. New Orleans, LA (Nov. 2007)
- Civil Engineering at OU. *The 21st Century Woman: Tomorrow's Woman in Science, Engineering, and Mathematics Freshman Seminar*. OU. Norman, OK (Oct. 2007)
- Research Experience for Undergraduates (REU) at OU. *Engineering Education National Science Foundation (NSF) Awardees Conference*. Washington, DC (Sept. 2007)
- Utilizing Corporate Graduate Fellowships to Strengthen Geotechnical Engineering Graduate Studies at OU. *Terracon*. OKC, OK (Sept. 2007)
- Graduate Student Recruiting. *Graduate College Graduate Enrollment Management (GrEM) Kick-off Seminar*. Norman, OK (Sept. 2007)
- Graduate Student Recruiting. *2007 CoE Director's Retreat*. OKC, OK (Aug. 2007)
- Shallow Landslide Analysis. *1<sup>st</sup> North American Landslide Conference*. Vail, Colorado (June 2007)
- Careers in Civil Engineering. *SWE Highschool Girls Day*. OU. Norman, OK. (March 2006, 2007; April 2008, March 2009, April 2011)
- Stabilization of Oklahoma Expansive Soils using Lime and Class C Fly Ash. *GeoDenver*. Denver, Colorado (Feb. 2007)
- Hurricane Protection System (HPS) Breaches in New Orleans, LA. *OU Honors College Renaissance Project: Science, Technology and Ethics*. (Sept. 2006)
- Compacted Embankment Landslide in Grady County, Oklahoma. *40<sup>th</sup> EGGE*. Logan, UT (May 2006)
- Shrinkage of Clays. *UNSAT '06*. Carefree, Arizona (April 2006).
- Mineralogical Study of Davis Mine, Rowe, Massachusetts using X-Ray Diffraction Techniques. *Geosciences Professional Seminar*, UMASS-Amherst (October 2003).
- Scale Effects of Shallow Foundation Bearing Capacity on Granular Material. *British Geotechnical Association (BGA) International Conference on Foundations*, University of Dundee, Scotland (September 2003)

Some Physical and Chemical Properties of Some Piedmont Residual Soils. *12<sup>th</sup> Pan-American Conference on Soil Mechanics and Geotechnical Engineering*, MIT (June 2003)  
Scale Effects of Shallow Foundation Design on Granular Material. *Northeast Geotechnical Graduate Research Symposium*, UMASS-Amherst (November 2002)  
Graduate Studies at the University of Massachusetts, Amherst. *Lafayette College*. (October 2000, 2001 and 2002)

## **SUPERVISION OF STUDENTS/RESEARCH STAFF**

\*Graduate students recruited from my OU undergraduate research program

### **Post-Doctoral Researchers**

Ruie Li (March 2016-August 2016)  
Botao Lin (February 2013 – July 2013)

### **Doctoral Dissertation Advisees (2 completed)**

\*Wassim Tabet (December 2015): *Characterization of Calcium Stabilized Clays Using Experimental and Analytical Techniques*  
Botao Lin (December 2012): *Predicting Expansive Soil Behavior Using Micro-scale Properties*

### **Doctoral Dissertation Researchers (2 in progress)**

Maryam Shahbazi (May 2019): *Tentative Topic: Finite Element Modeling of Single and Group Helical Piles in Dense Sand under Seismic Conditions*  
Kwestan Salimi (May 2019): *Tentative Topic: Predicting and Reducing Soil Pressures on Basement Walls through Non-Swelling Material Buffers using Finite Element Modeling*

### **Masters Thesis Advisees (13 completed)**

Tatiana Vargas (May 2017): *Understanding Single Helical Pile Behavior under Seismic Conditions*  
\*Jenna Jacoby (August 2016): *Mitigating Expansive Soil Pressures on Basement Walls for Resilient and Sustainable Buildings*  
\*Nathan Ferraro (May 2016): *Validating Field Employed X-Ray Fluorescence (XRF) on Stabilized Subgrade Projects*  
\*Colin Osborne (May 2012): *Bridge Approach Embankment Settlement*  
\*Wassim Tabet (May 2011): *The Influence of Clod Size and Moisture Condition on the Shearing Behavior of Compacted Soil*  
\*Eric Holderby (August 2010): *Field Verification of Stabilized Soil Strength*  
\*Michaela Campbell (July 2010): *Improved Sulfate Extraction Methods for Soils*  
Nick Hussey (May 2010): *Evaluation of the Strength of Chemically Stabilized Soils*  
\*Russell Buhler (December 2009): *Alternative Foundations for Small Wind Towers*  
\*Amanda Adams (May 2008): *Sulfate Induced Heave in Lime Stabilized Soils*  
\*Rory Victor (May 2008): *Helical Anchors as Wind Tower Guyed Cable Foundations*

Diana Vargas (November 2007): *Scale Effects of Triaxial Compression Tests on Granular Materials*

Jumanah Hajjat (August 2007): *The Influence of Structure on One-Dimensional Volume Change of Compacted Soil*

#### **Masters Thesis Advisees (1 in progress)**

Shawn Allred (Fall 2017): *Design and Performance of Full-Scale Helical piles Acting in a Group under Seismic Conditions*

#### **Masters Non-Thesis Advisees (3 completed)**

Eric Agossou (December 2014): *Assessing the Spatial and Depth Heterogeneity of Calcium Based Chemical Stabilization in Soils using X-Ray Fluorescence (XRF)*

Samuel Fadipe (December 2014): *Time and Soil Type Dependent Suction Change in Clods*

Amy Backel (May 2011): *Creating an Upper-Division Undergraduate Course in Introduction to Masonry Structural Design*

#### **Undergraduate Research Advisees (28)**

##### NSF Research Experience for Undergraduates (REU) Program

Jacob Grasmick (2009): *Evaluation of the Strength of Chemically Stabilized Subgrade Soil*, OU

Eric Holderby (2008): *Evaluation of the Strength of Chemically Stabilized Subgrade Soil*, OU

Michael McLean (2008): *pH as a Predictor of Soil Stabilization*, Citadel

Jessie Cunningham (2007): *Evaluation and Field Verification of the Strength of Chemically Stabilized Subgrade Soil*, Clarkson University

Janessa Rosales (2007): *Evaluation and Field Verification of the Strength of Chemically Stabilized Subgrade Soil*, University of California, Bakersfield

Ondra Dukes (2006): *Assessing Sulfate Induced Heave due to Lime Stabilization*, Old Dominion University

Rachael Oleski (2005): *Characterizing and Mitigating Oklahoma Landslides*, Lafayette College

Caitlin Puklin (2005): *Characterizing and Mitigating Oklahoma Landslides*, Princeton University

Ninfa Harrington (2002): *Physical and Geochemical Properties of Piedmont Residual Soils*, UMass

Perry Stover (2001): *Direct Shear Testing of Sands*, UMass

##### Honors Thesis

Jacob Grasmick (2010): *Laboratory Evaluation on the Potential for Crushed Glass as an Alternative Stabilizer*, OU

Amanda Adams (2006): *Study of Sulfate Induced Heave in 1-D Consolidation Tests*, OU

Rachael Oleski (2006): *Effect of Carbonates on Shear Strength in Clays*, Lafayette College Honors Research Assistant Program (HRAP)

Daniel Bolgren (2005): *Mineralogy of Boston Blue Clay*

Undergraduate Research Assistants

Michelle Basham (Summer 2016-2017); Bonheur Tumurere (Summer 2016); Jenna Jacoby (Spring 2015); Nathan Ferraro (Fall 2013-Spring 2015); Colin Osborne (Spring 2011); Jacob Grasmick (2009-10); Michaela Campbell (2008-09); Eric Holderby (2008-09); Wassim Tabet (2006-09); Mark Emde (Spring 2008); Youssef Elfakih (Spring 2008); Abbo Mbacke (Spring 2007); Russell Buhler (2005-2008); Marty Farris (Summer 2007); Carlos Guzman (Fall 2006); Rory Victor (2006-07); Amanda Adams (2006-07); Paul Romero (2005-06); Richard Starks (2005-06); Lauren Parrish (2005);

**TEACHING EXPERIENCE**

<b>Teaching at OU</b>	<b>Enrollment</b>	<b>I</b>	<b>D</b>	<b>C</b>
Engineering Geology (Fall 2016) – CEES 5313	11	4.8	4.3	4.1
Advanced Soil Mechanics (Spring 2016) – CEES 5343	11	4.6	4.3	4.1
Soil Mechanics (Fall 2015) – CEES 3364	71	4.7	4.3	4.1
Laboratory and In Situ Testing (Spring 2015) – CEES 5433	6	4.9	4.3	4.1
Engineering Geology (Fall 2014) – CEES 5313	13	4.8	4.3	4.2
Advanced Soil Mechanics (Spring 2014) – CEES 5343	5	4.1	4.5	4.2
Foundation Engineering (Spring 2014) – CEES 4333G	21	4.9	4.5	4.2
Soil Mechanics (Fall 2013) – CEES 3364	56	4.7	4.3	4.1
Advanced Soil Mechanics (Fall 2012) – CEES 5343	18	4.8	4.3	4.1
Engineering Geology (Fall 2012) – CEES 5313	15	4.6	4.3	4.1
Laboratory and In Situ Testing (Spring 2011) – CEES 5433	10	4.3	4.3	4.1
Foundation Engineering (Spring 2011) – CEES 4333G	27	4.8	4.3	4.1
Soil Mechanics (Fall 2010) – CEES 3364	57	4.5	4.2	4.1
Engineering Geology (Spring 2010) – CEES 5313	10	4.5	4.3	4.1
Foundation Engineering (Spring 2010) – CEES 4333G	25	4.4	4.3	4.1
Soil Mechanics (Fall 2009) – CEES 3364	44	4.5	4.4	4.2
Foundation Engineering (Spring 2009) – CEES 4333G	23	4.6	4.2	4.2
Soil Mechanics (Fall 2008) – CEES 3364	43	4.7	4.4	4.2
Engineering Geology (Spring 2008) – CEES 5313	9	4.7	4.3	4.2
CE Measurements (Spring 2008) – CEES 3334	34	4.5	4.3	4.2
Soil Mechanics (Fall 2007) – CEES 3364	40	4.5	4.4	4.1
Foundation Engineering (Spring 2007) – CEES 5333	9	4.7	4.2	4.1
CE Measurements (Spring 2007) – CEES 3334	51	4.0	4.2	4.1
Soil Mechanics (Fall 2006) – CEES 3364	37	4.3	4.3	4.0
Foundation Engineering (Spring 2006) – CEES 5333	21	4.6	4.4	4.1
CE Measurements (Spring 2006) - CEES 3334	35	4.2	4.4	4.1
Soil Mechanics (Fall 2005) - CEES 3364	39	4.0	4.3	4.1
Foundation Engineering (Spring 2005) - CEES 5333	7	4.8	4.4	4.1

Scale: 5 to 1, Excellent to Poor; I = Individual Score, D = Departmental Average, C = College Average

## **ACADEMIC LEADERSHIP APPOINTMENTS**

Director of Graduate Studies, School of Civil Engineering and Environmental Science,  
University of Oklahoma (8/10-8/11 and 8/12 – present)  
Appointed Member of the Advisory Committee for the University Vice President for Research  
(AC/VPR) (9/07-5/10)

## **UNIVERSITY SERVICE**

Executive Committee Member of the Faculty Senate (8/16-present)  
Committee Member of Market Studies and Student Financing Groups within the Provost Task  
Force on Graduate Education (4/15- present)  
Provost's Academic Program Review (APR) Member (9/13-5/14)  
Provost's Advisory Committee on Women's Issues (PACWI) (8/07-5/10)  
Graduate College's Graduate Enrollment Management (GrEM) Task Force (8/07-8/11)  
CoE Graduate Student Recruiting Committee (8/07-8/11)  
Invited Panelist and Speaker: Renaissance Project Symposium: Science, Technology and Ethics.  
Presentation title: "Hurricane Protection System (HPS) Breaches in New Orleans, LA. 2006.  
Moderator: Honors College Student Research and Performance Day Session (April 2008, 2009,  
2010)  
CEES Graduate Studies Committee (8/09 – 8/11 and 8/12 - current)  
CEES Scholarship Committee (1/05 – 5/11)  
CEES Structural Search Committee (2005)  
CEES GAANN Executive Committee (2005-2011)  
GeoInstitute (GI) Student Chapter Advisor (8/07 – 2011)  
Traveled to Blaise-Pascal University, Clermont-Ferrand, France Aug. 31-Sept. 6, 2006 to help  
facilitate our undergraduate exchange program.  
Prepared and presented \$150,000 endowed Geotechnical Graduate Fellowship proposal to  
Terracon, 9/07, which has resulted in (so far) \$30,000 in scholarships for our graduate  
program.  
Panelist and recruiter at EPSCoR **Women in Science** high school event at the OKC Omniplex  
2/07.  
Geotechnical Group WebMaster (5/05 - Current)  
Research Experience for Undergraduates (REU) co-PI (5/06 – 5/13)  
OU Society of Women Engineer's (SWE's) High School Girls' Day Program CEES Speaker  
(March 05, 06, 07, 08, 09, 11)  
Group and Individual Advising, all semesters (13-15 individual UG advisees/year)  
ASCE Mid-West Regional Conference GeoChallenge co-chair (November 2009-April 2010)

## **PROFESSIONAL SERVICE**

Member: ASCE GeoInstitute Committee on Engineering Geology and Site Characterization  
(1/05 – present)  
Member: USUCGER (1/05 – present)  
Member GeoChallenge Competition Committee (2008- present)  
Associate Editor, ASCE Journal of Geotechnical and Geoenvironmental Engineering (5/14-4/15)

*Amy B. Cerato, PhD, PE*

Younger Member Chair on GeoCongress 2014 Conference Committee

Board Member: United States Universities Council on Geotechnical Education and Research  
(USUCGER) (1/09- 5/14)

Lead Judge for the GeoChallenge at GeoFlorida 2009

Diversity Panel Moderator at GeoFlorida 2009