

Michael E. Kalinski, Ph.D., P.E.
University of Kentucky Department of Civil Engineering
161 Raymond Building
Lexington, Kentucky 40506-0281

Phone: (859) 257-6117
email: michael.kalinski@uky.edu

Professional Preparation

1998 Ph.D., Civil Engineering, University of Texas at Austin (Advisor: Kenneth H. Stokoe II)
1994 M.S.E., Civil Engineering, University of Texas at Austin (Advisor: Kenneth H. Stokoe II)
1985 B.Sc., Geophysical Engineering (Geology Minor), Colorado School of Mines

Appointments

2002-present Asst./Assoc/Full Professor, University of Kentucky
2014-2015 Visiting Professor, American University of Sharjah (UAE)
2000-2001 Senior Staff Engineer, GeoSyntec Consultants
1999 Post-Doctoral Research Fellow, Norwegian Geotechnical Institute
1992-1898 Graduate Assistant/Teaching Assistant, University of Texas at Austin
1989-1991 Exploration Geophysicist, Shell Oil Company
1986-1988 Exploration Geophysicist, Tenneco Oil Company

Recent Publications

Kalinski, M. E., "Use of Geophysical Methods for Geotechnical Site Characterization," Proceedings of the 49th Annual Ohio River Valley Soils Seminar, November 29, Lexington, Kentucky, pp. 57-68 (2018).

Bhamidipati, R. A., Kalinski, M. E. and Bryson, S. L., "Estimating the Collapse Potential of Gypsum Sands Using Shear Wave Velocity," Proceedings of the 49th Annual Ohio River Valley Soils Seminar, November 29, Lexington, Kentucky, pp. 31-42 (2018).

Kalinski, M., Duda, N., Donaghy, H. and Lissade, H., "Groundwater Mapping using DC Resistivity in Leogane, Haiti," Society of Exploration Geophysicists Technical Program Expanded Abstracts, October 14-18, Anaheim, California, pp. 2481-2485 (2018).

Cao, L., and Kalinski, M.E., "Risk Analysis of Subway Shield Tunneling," Proceedings of the ASCE Geo-Risk Meeting, June 4-7, 2017, Denver, Colorado (2017).

Kalinski, M. E., "A Simple Method to Develop Seismic Microzonation Maps for Cities in Northern Haiti and Elsewhere," Proceedings of the Symposium on the Application of Geophysics to Environmental and Engineering Problems, March 19-23, 2017, Denver, Colorado (2017).

Gilani, A. S. J., Miyamoto, H. K., Kalinski, M. E. and Nifuku, T., "Seismic Risk Assessment for Northern Haiti Based on Geological Investigation and Building Typologies," Proceedings of the ASCE Geotechnical and Structural Engineering Congress, Phoenix, Arizona, pp. 1331-1342 (2016).

Kalinski, M. E. and Salehian, A., "Estimating the Cyclic and Post-Earthquake Behavior of Mine Tailings at a Site in Eastern Kentucky," Proceedings of the ASCE Geo-Chicago Meeting, Chicago, Illinois, pp. 279-288 (2016).

Kalinski, M. E., Miyamoto, K. and Gilani, A., "A Simple Method to Develop Seismic Microzonation Maps for Cities in Northern Haiti and Elsewhere," International Journal for Science Learning in Engineering, Humanitarian Engineering and Social Entrepreneurship, Vol. 10, No. 2, pp. 1-17 (2015).

Kalinski, M. E., Bryson, L. S., Krumenacher, A. D., Phillips, B., Ethington, Z. and Webster, B. T., "Existing Technologies for Detering and Defeating Waterside Attack of Dams, International Journal of Critical Infrastructures, Vol. 10, Nos. 3/4, pp. 247-266 (2014).

Kalinski, M. E., Jean-Louis, M. and Lissade, H., "Transferring Technology for Surface Wave Testing and Seismic Site Response Analysis in Haiti," The Leading Edge, Vol. 33, No. 12, pp. 1378-1384 (2014).

Salehian, A. and Kalinski, M.E., "The Correlation Between the Dynamic Behavior of Coal Mine Tailings and the CPT," Proceedings of the 3rd International Symposium on Cone Penetration Testing, Las Vegas, Nevada, pp. 913-922 (2014).

Kalinski, M. E., and Taluskie T., "Probabilistic Analysis of Ground Vibrations Produced by Vibroseis Arrays," Journal of Environmental and Engineering Geophysics, Vol. 18, No. 2, pp. 147-154 (2013).

Kalinski, M.E., and Cao, L., "Reliability Analysis of Dredging Slope in Port Development," Proceedings of the 11th International Conference on Structural Safety and Reliability, New York, New York, p. 674 (2013).

Kalinski, M. E., "A Small, Lightweight Borehole Receiver for Crosshole and Downhole Seismic Testing," Geotechnical Testing Journal, Vol. 35, No. 2, pp. 363-366 (2012).

Kalinski, M. E., "Effect of Distance and Direction on Ground Surface Vibrations Generated by Array Blasting: a Numerical Study," Geotechnical Special Publication No. 225, American Society of Civil Engineers, pp. 2961-2970 (2012).

Curd, J., Bryson, L. S. and Kalinski, M. E., "Sonar Protection of Maritime Structures," Proceedings of the USSD Annual Meeting, New Orleans, Louisiana (2012).

Kalinski, M. E. and Wallace, A. D.¹, "Laboratory Measurement of the Dynamic Properties of Fly Ash," Geotechnical Special Publication No. 211, American Society of Civil Engineers, pp. 1210-1216 (2011).

Kalinski, M. E., Kareem, W. A. and Little, L. M., "Estimating Hydrocompression Potential of Mine Spoils from a Site in Eastern Kentucky Using Dry Unit Weight and Moisture Content," International Journal of Mining, Reclamation, and Environment, Vol. 24, No. 4, pp. 350-362 (2010).

Synergistic and Other Activities

- Licensed Professional Engineer in Kentucky, California and Texas
- Licensed Professional Geophysicist in California
- Instructor at the Kentucky Geotechnical Engineering Group Earthquake Engineering Short Course, January 25-26, 2018, Frankfort, Kentucky
- Instructor at the Half Moon Education Continuing Education Seminar "Foundation Design for Expansive Soils," May 24, 2017, Louisville, Kentucky
- Invited Geoscientists Without Borders Luncheon Speaker at the Symposium on the Application of Geophysics to Environmental and Engineering Problems, March 20, 2017, Denver, Colorado.
- Invited presenter at Mine Safety and Health Administration Dam Safety Seminars, Beckley, West Virginia (2007, 2011 and 2014)
- Taught courses in geology, numerical methods and statistics at the American University of Sharjah, UAE during sabbatical (2014-2015)