The University of Texas Tel: 512-471-9162

Department of Civil, Architectural and Environmental Engineering Fax: 479-471-6548 301 E. Dean Keeton Stop C1792 brcox@utexas.edu

Austin, Texas 78712 http://www.caee.utexas.edu/faculty-directory/profiles/brady-cox.html

### **EDUCATION**

Ph.D., Civil Engineering (Geotechnical), University of Texas, Austin, Texas, May 2006 M.S., Civil Engineering (Geotechnical), Utah State University, Logan, Utah, August 2001 B.S., Civil Engineering, Utah State University, Logan, Utah, May 2000

## **ACADEMIC APPOINTMENTS**

Associate Professor (2015-present), Department of Civil, Architectural and Environmental Engineering, University of Texas, Austin, Texas

Assistant Professor (2012-2015), Department of Civil, Architectural and Environmental Engineering, University of Texas, Austin, Texas

Assistant Professor (2006-2012), Department of Civil Engineering, University of Arkansas, Fayetteville, Arkansas

## HONORS AND AWARDS

International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Young Researcher Award (Technical Committee-203 on Earthquakes); 2017

Erskine Visiting Fellow; University of Canterbury, Christchurch, New Zealand; 2017

Shamsher Prakash International Geotechnical Engineering Research Award; 2015

Network for Earthquake Engineering Simulation (NEES) Outstanding Contributor Award – Most Influential Geotechnical Research Project; 2014

Presidential Early Career Award for Scientists and Engineers (PECASE); 2012

John L. Imhoff Award for Research, College of Engineering; University of Arkansas; 2012

National Science Foundation (NSF) Faculty Early Career Development (CAREER) Award; 2011

Hogentogler Award for ASTM Geotechnical Testing Journal "paper of outstanding merit"; 2010

Outstanding Researcher in Civil Engineering, University of Arkansas; 2010-2011

George H. Mitchell Award for Excellence in Graduate Research, University of Texas; 2005

Earthquake Engineering Research Institute (EERI) Graduate Fellow; 2004

Eagle Scout, Boy Scouts of America; 1993

#### SPONSORED RESEARCH PROJECTS

- Principal Investigator, \$100,000, Developing Experimental Site Signatures and Deep Vs Profiles for Quantifying Spatial Variability and Suitability of 1D Site Response Analyses at Key U.S. Borehole Array Sites, Pacific Gas and Electric (PG&E), September 2019 August 2020.
- Principal Investigator, \$118,978, RAPID/Collaborative Research: Advanced Site Characterization of Key Ground Motion and Ground Failure Case Histories Resulting from

- the Mw7.8 Kaikoura, New Zealand, Earthquake, National Science Foundation (NSF), Feb 2017 January 2019.
- Principal Investigator, \$119,016, Refining Texas Velocity Models Over the Top 500m via Deep Surface Wave Profiling, Center for Integrated Seismic Research (CISR), January 2018

   December 2018.
- Co-Principal Investigator, \$3,817,390, Natural Hazards Engineering Research Infrastructure (NHERI): Experimental Facility with Large, Mobile Dynamic Shakers for Field Testing, The National Science Foundation (NSF), January 2016 December 2020.
- Co-Principal Investigator, \$488,405, Collaborative Research: Bridging the In-situ and Elemental Cyclic Response of Transitional Soils, The National Science Foundation (NSF), July 2017 June 2020.
- Principal Investigator, \$106,413, *Dynamic Site Characterization of TxNet Ground Motion Stations*, Center for Integrated Seismic Research (CISR), Aug 2016 December 2017.
- Co-Principal Investigator, \$539,632, *Seismic Vulnerability and Post-Event Actions*, Texas Department of Transportation (TxDOT), January 2016 December 2017.
- Principal Investigator, \$38,000, *Deep Soil Test Borings to Determine Shear Wave Velocities Across South Carolina*, SCDOT through Univ. of South Carolina, Sept. 2016 Aug. 2017.
- Principal Investigator, \$43,000, Direct-Push Crosshole Testing of RAP for Liquefaction Mitigation of Briceno Embankment, Geopier, Sept. 2016 Feb. 2017.
- Principal Investigator, \$182,481, RAPID/Collaborative Research: Investigation of False Positive Liquefaction Triggering Predictions from the Canterbury Earthquake Sequence, The National Science Foundation (NSF), July 2015 June 2017.
- Co-Principal Investigator, \$563,007, Very Deep Shear Wave Velocity Profiling by Combined Active-Source and Ambient-Wavefield Surface Wave Testing, Combined Resonant Column and Torsional Shear (RCTS) Testing, SASW Testing at Three Stages during Construction of 20-ft Thick Backfill Test Pad, S&ME, Inc., Mar. 2016 April 2017.
- Principal Investigator, \$11,733, *Direct-Push Crosshole Testing of Pumice Soils in Waikato, New Zealand*, FBHC Alliance, Jan. 2016 Aug. 2016.
- Co-Principal Investigator, \$146,243, Deep Shear Wave Velocity Profiling by Combined Active-Source and Ambient-Wavefield Surface Wave Testing TVA Sequoyah (SQN) Nuclear Power Plant Near Chattanooga, Fugro, Inc., Nov. 2015 July 2016.
- Co-Principal Investigator, \$327,481, *LANL Seismic Site Characterization Active Experiments*, Los Alamos National Laboratory, June 2014 May 2015.
- Co-Principal Investigator, \$302,019, Field Investigations of Shallow Ground Improvement Methods for Inhibiting Liquefaction Triggering; Christchurch, New Zealand, New Zealand Earthquake Commission (EQC) via Tonkin & Taylor Ltd., June 2013 May 2014.
- Co-Principal Investigator, \$197,996, RAPID: Field Investigations of Shallow Ground Improvement Methods for Inhibiting Liquefaction Triggering; Christchurch, New Zealand, The National Science Foundation (NSF), June 2013 May 2014.
- Principal Investigator, \$421,600, CAREER/PECASE: Revolutionizing Surface Wave Methods for Engineering Analyses from Deterministic and Incoherent to Probabilistic and Standardized (DIPS), The National Science Foundation (NSF), July 2011 June 2017.

- Co-Principal Investigator, \$1,144,593 (\$211,857 to UA), *NEES-CR: Topographic Effects in Strong Ground Motion From Physical and Numerical Modeling to Design*, The National Science Foundation (NSF), with A. Rodriguez-Marek (PI), D. Assimaki, M. Pando, W. Silva, L. Suarez, and J. Wartman. Oct 2009 Sept 2014.
- Principal Investigator, \$197,684, RAPID: Deep Shear Wave Velocity Profiling for Seismic Characterization of Christchurch, NZ Reliably Merging Large Active-Source and Passive-Wavefield Surface Wave Methods, The National Science Foundation (NSF), December 2012 November 2013.
- Principal Investigator, \$120,253, RAPID: CPT and SASW Testing at Seismograph Stations with Liquefiable Soils Affected by the Tohoku Earthquake, Japan, The National Science Foundation (NSF), July 2011 June 2012.
- Principal Investigator, \$325,178 (\$177,065 to UA), Collaborative Research: The M8.0 Pisco Peru Earthquake A Benchmark Ground Failure Event for Remote Sensing and Data Archiving, The National Science Foundation (NSF), with J. Cothren, A. Rodriguez-Marek, and J. Wartman. Aug 2009 Jan 2011.
- Principal Investigator, \$88,592, Site-Specific Seismic Ground Motion Analyses for Transportation Infrastructure in the New Madrid Seismic Zone, USDOT Mack-Blackwell Rural Transportation Center (MBTC) and Arkansas State Highway and Transportation Department (AHTD), July 2011 June 2012.
- Co-Principal Investigator, \$40,000 (\$0 to UA), RAPID: Geotechnical-Driven Damage Patterns and Liquefaction in the January 2010 Haiti Earthquake, The National Science Foundation (NSF), with S. Olson (PI). May 2010 April 2011.
- Co-Principal Investigator, \$50,000 (\$0 to UA), Development of a Geologic and Geotechnical Database of Port-au-Prince Metropolitan Area for use in Seismic Microzonation Studies, United Nations Development Programme (UNDP), with E. Rathje (PI) and J. Bachhuber. November 2010 June 2011.
- Principal Investigator, \$263,459, Evaluation of Basal Reinforcement of Flexible Pavements with Geosynthetics, Arkansas State Highway and Transportation Department (AHTD), with J. McCartney, July 2008 June 2011.
- Co-Principal Investigator, \$225,000, Structural Health Monitoring and Assessment of Critical Intermodal Transportation Infrastructure Elements, U.S. Department of Homeland Security (DHS), with K. Grimmelsman (PI) and E. Heymsfield, January 2009 June 2011.
- Principal Investigator, \$79,524, Practical Recommendations for Evaluation and Mitigation of Soil Liquefaction in Arkansas, USDOT Mack-Blackwell Rural Transportation Center (MBTC) and Arkansas State Highway and Transportation Department (AHTD), July 2009 – December 2010.
- Co-Principal Investigator, \$190,424 (\$33,242 to UA), *Utilization of Screw Piles in High Seismicity Areas of Cold and Warm Permafrost*, Alaska University Transportation Center (AUTC), with K. Hazirbaba (PI), July 2009 June 2010.
- Co-Principal Investigator, \$105,817, Resistance Factors for Pile Foundations, Arkansas State Highway and Transportation Department (AHTD), with N. Dennis (PI) and J.S. McCartney, January 2009 June 2010.

 Principal Investigator, \$84,069, Accelerated Characterization of Full-Scale Reinforced Flexible Pavement Models using a Vibroseis, USDOT Mack-Blackwell Rural Transportation Center (MBTC) and Arkansas State Highway and Transportation Department (AHTD), with J. McCartney, July 2008 – Dec 2009.

### **PUBLICATIONS AND PRESENTATIONS**

**Refereed Journal Publications** (underlined names represent either myself or supervised students)

- 1. <u>Stolte, A.C., Cox, B.R.</u> (2019). "Towards Consideration of Epistemic Uncertainty in Shear Wave Velocity Measurements Obtained via SCPT," *Canadian Geotechnical Journal*, submitted 3 October 2018, in review.
- 2. Passeri, F., Foti, S., <u>Cox, B.R.</u>, Rodriguez-Marek, A. (2018). "Influence of Epistemic Uncertainty in Shear Wave Velocity on Seismic Ground Response Analyses," *Earthquake Spectra*, (https://earthquakespectra.org/doi/pdf/10.1193/011018EQS005M).
- 3. <u>Cox, B.R., Stolte, A.C.</u>, Stokoe, K.H. II, Wotherspoon, L.M. (2018 submitted). "A Direct-Push Crosshole Test Method for the In-Situ Evaluation of High-Resolution P- and S-wave Velocity," *ASTM Geotechnical Testing Journal*, (<a href="https://doi.org/10.1520/GTJ20170382">https://doi.org/10.1520/GTJ20170382</a>. ISSN 0149-6115).
- 4. <u>Teague, D.P.</u>, <u>Cox, B.R.</u>, Rathje, E.R. (2018 submitted). "Measured vs. Predicted Site Response at the Garner Valley Downhole Array Considering Shear Wave Velocity Uncertainty from Borehole and Surface Wave Methods," *Soil Dynamics and Earthquake Engineering*, 113(10), 339-355. (<a href="https://doi.org/10.1016/j.soildyn.2018.05.031">https://doi.org/10.1016/j.soildyn.2018.05.031</a>).
- 5. <u>Vantassel, J., Cox, B.R.</u>, Wotherspoon, L., <u>Stolte, A.</u> (2018). "Mapping Depth to Bedrock, Shear Stiffness, and Fundamental Site Period at CentrePort, Wellington using Surface Wave Methods: Implications for Local Seismic Site Amplification," *Bulletin of the Seismological Society of America*. (https://doi.org/10.1785/0120170287).
- 6. Bradley, B.A., Wotherspoon, L.M., Kaiser, A.E., Cox, B.R., Jeong, S. (2018). "Influence of Site Effects on Observed Ground Motions in the Wellington Region from the Mw7.8 Kaikōura, New Zealand Earthquake," *Bulletin of the Seismological Society of America*. (https://doi.org/10.1785/0120170286).
- 7. <u>Teague, D.P., Cox, B.R.</u>, Bradley, B., Wotherspoon, L. (2018). "Development of Deep Shear Wave Velocity Profiles with Estimates of Uncertainty in the Complex Inter-Bedded Geology of Christchurch, New Zealand," *Earthquake Spectra*. (https://doi.org/10.1193/041117EQS069M).
- 8. Foti, S., Hollender, F., Garofalo, F., Albarello, D., Asten, M., Bard, P.-Y., Comina, C., Cornou, C., Cox, B.R., Di Giulio, G., Forbriger, T., Hayashi, K., Lunedei, E., Martin, A., Mercerat, D., Ohrnberger, M., Poggi, V., Renalier, Sicilia, D., Socco, L.V. (2017). "Guidelines for the Good Practice of Surface Wave Analysis A Product of the InterPACIFIC Project," *Bulletin of Earthquake Engineering*, pp. 1-54. (doi:10.1007/s10518-017-0206-7).
- 9. Amoroso, S., Milana, G., Rollins, K.M., Comina, C., Minarelli, L., Manuel, M.R., Monaco, P., Franceschini, M., Anzidei, M., Lusvardi, C., Cantore, L., Carpena, A., Casadei S., Cinti, F.R., Civico, R., Cox, B.R., De Martini, P.M., Di Giulio, G., Di Naccio, D., Di Stefano, G., Facciorusso, J., Famiani, D., Fiorelli, F., Fontana, D., Foti, S., Madiai, C., Marangoni, V.,

- Marchetti, D., Marchetti, S.L., Martelli, L., Mariotti, M., Muscolino, E., Pancaldi, D., Pantosti, D., Passeri, F., Pesci, A., Romeo, G., Sapia, V., Smedile, A., Stefani, M., Tarabusi, G., Teza, G., Vassallo, M., Villani, F. (2017). "The first Italian blast-induced liquefaction test (Mirabello, Emilia-Romagna, Italy): description of the experiment and preliminary results," Annals of Geophysics, 60(5), p.0556. (http://dx.doi.org/10.4401/ag-7415).
- 10. <u>Wood, C.M.</u>, <u>Cox, B.R.</u>, Green, R.A., Wotherspoon, L., Bradley, B., Cubrinovski, M. (2017). "Vs-based Evaluation of Select Liquefaction Case Histories from the 2010-2011 Canterbury Earthquake Sequence," *Journal of Geotechnical and Geoenvironmental Engineering*, 143(9), pp-pp. (https://doi.org/10.1061/(ASCE)GT.1943-5606.0001754).
- 11. <u>Stolte, A.C., Cox, B.R.,</u> Lee, R.C. (2017). "An Experimental Topographic Amplification Study at Los Alamos National Laboratory using Ambient Vibrations," *Bulletin of the Seismological Society of America*, 107(3), 1386-1401. (doi: 10.1785/0120160269).
- 12. <u>Cox, B.R.</u>, <u>Teague, D.P.</u> (2016). "Layering Ratios: A Systematic Approach to the Inversion of Surface Wave Data in the Absence of A-priori Information," *Geophysical Journal International*, 207, 422-438. (https://doi.org/10.1093/gji/ggw282).
- 13. <u>Teague, D.P., Cox, B.R.</u> (2016). "Site Response Implications Associated with using Non-Unique Vs Profiles from Surface Wave Inversion in Comparison with Other Commonly Used Methods of Accounting for Vs Uncertainty," *Soil Dynamics and Earthquake Engineering* 91(1), 87-103. (https://doi.org/10.1016/j.soildyn.2016.07.028).
- 14. <u>Griffiths, S.C., Cox, B.R.</u>, Rathje, E.M., <u>Teague, D.P.</u> (2016). "Surface Wave Dispersion Approach for Evaluating Statistical Models That Account for Shear-Wave Velocity Uncertainty," *Journal of Geotechnical and Geoenvironmental Engineering*, 142(11), 04016061. (<a href="http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0001552">http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0001552</a>).
- 15. <u>Griffiths, S.C., Cox, B.R.</u>, Rathje, E.M., <u>Teague, D.P.</u> (2016). "Mapping Dispersion Misfit and Uncertainty in Vs Profiles to Variability in Site Response Estimates," *Journal of Geotechnical and Geoenvironmental Engineering*, 142(11), 04016062. (http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0001553).
- 16. Wood, C.M., Cox, B.R. (2016). "Comparison of Field Data Processing Methods for Evaluation of Topographic Effects," *Earthquake Spectra*, 32(4), 2127-2147. (http://dx.doi.org/10.1193/111515EQS170M).
- 17. <u>Griffiths, S.C., Cox, B.R.</u>, Rathje, E.M. (2016). "Challenges Associated with Site Response Analyses for Soft Soils Subjected to High-Intensity Input Ground Motions," *Soil Dynamics and Earthquake Engineering*, 85(1), 1-10 (<a href="http://dx.doi.org/10.1016/j.soildyn.2016.03.008">http://dx.doi.org/10.1016/j.soildyn.2016.03.008</a>).
- 18. Garofalo, F., Foti, S., Hollender, F., Bard, P.-Y., Cornou, C., Cox, B.R., Ohrnberger, M., Sicilia, D., Asten, M., Di Giulio, G., Forbriger, T., Guiller, B., Hayashi, K., Martin, A., Matsushima, S., Mercerat, D., Poggi, V., Yamanaka, H. (2016). "InterPACIFIC Project: Comparison of Invasive and Non-Invasive Methods for Seismic Site Characterization Part I: Intra-Comparison of Surface Wave Methods," *Soil Dynamics and Earthquake Engineering*, 82(1), 222-240 (http://dx.doi.org/10.1016/j.soildyn.2015.12.010).
- 19. Garofalo, F., Foti, S., Hollender, F., Bard, P.-Y., Cornou, C., <u>Cox, B.R.</u>, Dechamp, A., Ohrnberger, M., Sicilia, D., <u>D. Teague</u>, Vergniault, C. (2016). "InterPACIFIC Project: Comparison of Invasive and Non-Invasive Methods for Seismic Site Characterization Part

- II: Inter-Comparison Between Surface Wave and Borehole Methods," *Soil Dynamics and Earthquake Engineering*, 82(1), 241-254 (<a href="http://dx.doi.org/10.1016/j.soildyn.2015.12.009">http://dx.doi.org/10.1016/j.soildyn.2015.12.009</a>).
- 20. Wotherspoon, L.M., Orense, R.P., Bradley, B.A., <u>Cox, B.R., Wood, C.M.</u>, Green, R.A. (2015). "Soil Profile Characterisation of Christchurch Central Business District Strong Motion Stations," *Bulletin of the New Zealand Society for Earthquake Engineering*, 48(3), 147-157.
- 21. <u>Wood, C.M., Cox, B.R.</u> (2015). "Experimental Dataset of Mining-Induced Seismicity for Studies of Full-scale Topographic Effects," *Earthquake Spectra*, 31(1), 541-564. (http://dx.doi.org/10.1193/020314EQS026).
- 22. Wotherspoon, L.M., Orense, R.P., Green, R.A., Bradley, B.A., <u>Cox, B.R.</u>, <u>Wood, C.M.</u> (2015). "Assessment of Liquefaction Evaluation Procedures and Severity Index Frameworks at Christchurch Strong Motion Stations," *Soil Dynamics and Earthquake Engineering*, 79b(1), 335-346. (http://doi:10.1016/j.soildyn.2015.03.022).
- 23. McGann, C.R., Bradley, B.A., Wotherspoon, L.M., <u>Cox, B.R.</u> (2015). "Comparison of a Christchurch-Specific CPT-Vs Correlation and Vs Derived from Surface Wave Analysis for Strong Motion Station Velocity Characterisation," *Bulletin of the New Zealand Society for Earthquake Engineering*, 48(2), 81-91.
- 24. Wotherspoon, L., Orense R., Jacka, M., Green, R.A., <u>Cox, B.R.</u>, <u>Wood, C.M.</u> (2014). "Seismic Performance of Improved Ground Sites During the 2010-2011 Canterbury Earthquake Sequence," *Earthquake Spectra*, 30(1), 111-129.
- 25. Green, R.A., Cubrinovski, M., <u>Cox, B.R.</u>, <u>Wood, C.M.</u>, Wotherspoon, L., Bradley, B., Maurer, B. (2014). "Select Liquefaction Case Histories from the 2010-2011 Canterbury Earthquake Sequence," *Earthquake Spectra*, 30(1), 131-153.
- 26. McCartney, J.S., <u>Cox. B.R.</u> (2013). "Role of Strain Magnitude on the Deformation Response of Geosynthetic-Reinforced Soil Layers," *Geosynthetics International*, 20(3), 174-190.
- 27. Cox, B.R., Boulanger, R.W., Tokimatsu, K., Wood, C.M., Abe, A., Ashford, S., Donahue, J., Ishihara, K., Kayen, R., Katsumata, K., Kishida, T., Kokusho, T., Mason, B., Moss, R., Stewart, J., Tohyama, K., Zekkos, D. (2013). "Liquefaction at Strong Motion Stations and in Urayasu City During the 2011 Great East Japan Earthquake," *Earthquake Spectra*, 29(S1), 55-80.
- 28. McCartney, J.S., Cox, B.R., Wood, C.M., El Tawati, A. (2013). "Performance Evaluation of Flexible Pavements Using a New Field Cyclic Plate Load Test," *ASTM Geotechnical Testing Journal*, 36(2), 206-215.
- 29. <u>Cox, B.R.</u>, <u>Wood, C.M.</u> (2012). "Frozen and Unfrozen Shear Wave Velocity Seismic Microzonation of Fairbanks, Alaska," *Journal of Cold Regions Engineering*, 26(3), 118-145.
- 30. <u>Wood, C.M.</u>, <u>Cox, B.R.</u>, Wotherspoon, L.M., Green, R.A. (2011). "Dynamic Site Characterization of Christchurch Strong Motion Stations," *Bulletin of the New Zealand Society for Earthquake Engineering*, 44(4), 195-204.
- 31. Wong, I., Stokoe, II, K.H., <u>Cox, B.R.</u>, Yuan, J., Knudsen, K.L., Terra, F., Okubo, P. (2011). "Shear-Wave Velocity Characterization of the USGS Hawaiian Strong Motion

- Network on the Island of Hawaii and Development of a NEHRP Site Class Map," *Bulletin of the Seismological Society of America*, 101(5), 2252-2269.
- 32. Green, R.A., <u>Wood, C.M.</u>, <u>Cox, B.R.</u>, Cubrinovski, M., Wotherspoon, L., Bradley, B., Algie, T., Allen, J., Bradshaw, A., and Rix, G. (2011). "Use of DCP and SASW Tests to Evaluate Liquefaction Potential: Predictions vs. Observations During the Recent New Zealand Earthquakes," *Seismological Research Letters*, 82(6), 927-938.
- 33. Green, R.A., Allen, J., Wotherspoon, L., Cubrinovski, M., Bradley, B., Bradshaw, A., <u>Cox</u>, <u>B.R.</u>, and Algie, T. (2011). "Performance of Levees (Stopbanks) During the 4 September 2010, Mw7.1 Darfield and 22 February 2011, Mw6.2 Christchurch, New Zealand Earthquakes", *Seismological Research Letters*, 82(6), 939-949.
- 34. <u>Cox, B.R.</u>, Bachhuber, J., Rathje, E., <u>Wood, C.M.</u>, Dulberg, R., Kottke, A., Green, R.A., Olson, S. (2011). "Shear Wave Velocity- and Geology-based Seismic Microzonation of Port-au-Prince, Haiti," *Earthquake Spectra*, 27(S1), S67-S92.
- 35. Rathje, E.M., Bachhuber, J., Dulberg, R., Cox, B.R., Kottke, A., Wood, C.M., Green, R.A., Olson, S., Wells, D., Rix, G. (2011). "Damage Patterns in Port-au-Prince from the 2010 Haiti Earthquake and their Relationship to Geologic Conditions," *Earthquake Spectra*, 27(S1), S117-S136.
- 36. Green, R.A., Olson, S.M., Cox, B.R., Rix, G., Rathje, E., Bachhuber, J., French, J., Lasley, S., and Martin, N. (2011). "Geotechnical Aspects of Failures at Port-au-Prince Seaport during the January 12, 2010 Haiti Earthquake," *Earthquake Spectra*, 27(S1), S43-S65.
- 37. Olson, S.M., Green, R.A., Lasley, S., Martin, N., Cox, B.R., Rathje, E., Bachhuber, J., and French, J. (2011). "Documenting Liquefaction and Lateral Spreading Triggered by the 12 January 2010 Haiti Earthquake, *Earthquake Spectra*, 27(S1), S93-S116.
- 38. Yong, A., Hough, S.E., Cox, B.R., Rathje, E.M., Bachhuber, J., Dulberg, R., Hulslander, D., Christiansen, L., Abrams, M.J. (2011). "Seismic Zonation of Port-au-Prince Using Pixel- and Object-based Imaging Analysis Methods on ASTER gDEM," *Journal of Photogrammetry and Remote Sensing*, 77(9), pp. 909-922.
- 39. Cox, B.R., Beekman, A.N. (2011). "Intra-Method Variability in ReMi Dispersion and Vs Estimates at Shallow Bedrock Sites," *Journal of Geotechnical and Geoenvironmental Engineering*, 137(4), pp. 354-362.
- 40. Wong, I., Stokoe, II, K.H., <u>Cox, B.R.</u>, Lin, Y-C., Menq, F-Y. (2011). "Shear-Wave Velocity Profiling of Strong Motion Sites that Recorded the 2001 Nisqually, Washington Earthquake," *Earthquake Spectra*, 27(1), pp. 183-212.
- 41. Cubrinovski, M., Green, R.A., Allen, J., Ashford, S., Bowman, E., Bradley, B., Cox, B.R., Hutchinson, T., Kavazanjian, E., Orense, R., O'Rourke, T., Pender, M., Quigley, M., Wotherspoon, L. (2010). "Geotechnical Reconnaissance of the 2010 Darfield (New Zealand) Earthquake," *Bulletin of the New Zealand Society for Earthquake Engineering*, 43(4), pp. 243-320.
- 42. <u>Cox, B.R.</u>, Stokoe II, K.H., Rathje, E.M. (2009). "An In-Situ Test Method for Evaluating the Coupled Pore Pressure Generation and Nonlinear Shear Modulus Behavior of Liquefiable Soils," *ASTM Geotechnical Testing Journal*, 32(1), pp. 11-21.
- 43. Rodriguez-Marek, A., Alva Hurtado, J., <u>Cox, B.R.</u>, Meneses, J., Montalva, G., Moreno, V., Olcese, M., Sancio, R., Wartman, J., (2007). "Geotechnical Aspects of the August 15, 2007

- Pisco, Peru Earthquake," Revista Internacional de Desastres Naturales, Accidentes e Infraestructura Civil (International Journal of Natural Disasters, Accidents, and Civil Infrastructure, 7 (2-3), pp. 239-258.
- 44. Chang, W-J., Rathje, E.M., Stokoe II, K.H., and <u>Cox, B.R.</u> (2004). "Direct Evaluation of Effectiveness of Prefabricated Vertical Drains in Liquefiable Sand," *Soil Dynamics and Earthquake Engineering*, 24(9-10), pp. 723-731.
- 45. Terrell, R.G., Cox, B.R., Stokoe II, K.H., Allen, J.J., and Lewis, D. (2003). "Field Evaluation of the Stiffness of Unbound Aggregate Base Layers in Inverted Flexible Pavements," *Transportation Research Record, Journal of the Transportation Research Board* 1837, pp. 50-60.

**Peer Reviewed Conference Publications and Invited Papers** (underlined names represent either myself or supervised students)

- 1. Boulanger, R.W., Khosravi, M., Cox, B.R., DeJong, J.T. (2018). "Liquefaction Evaluation for an Interbedded Soil Deposit: St. Teresa's School, Christchurch, New Zealand," IACGE 2018 Geotechnical and Seismic Research and Practices for Sustainability, Chongquing, China, 21-22 October 2018.
- 2. <u>Yust, M.B., Cox, B.R., Cheng, T.</u> (2018). "Epistemic Uncertainty in Vs Profiles and Vs30 Values Derived from Joint Consideration of Surface Wave and H/V Data at the FW07 TexNet Station," Geotechnical Earthquake Engineering and Soil Dynamics V, Austin, Texas, 10-13 June 2018.
- 3. Savvaidis, A., Rathje, E.R., <u>Cox, B.R.</u>, Zalachoris, G., Tiwari, A., <u>Yust, M.</u>, Young, B. (2018). "Site Characterization of TexNet Seismic Stations Using Different Geophysical Approaches," Geotechnical Earthquake Engineering and Soil Dynamics V, Austin, Texas, 10-13 June 2018.
- 4. Bastin, S., Stringer, M.E., Green, R.A., Wotherspoon. L., van Ballegooy, S., <u>Cox, B.R.</u>, Osuchowski, A. (2018). "Geomorphological Controls on the Distribution of Liquefaction in Blenheim, New Zealand, during the 2016 Mw7.8 Kaikoura Earthquake," Geotechnical Earthquake Engineering and Soil Dynamics V, Austin, Texas, 10-13 June 2018.
- 5. Green, R.A., Upadhyaya, S., <u>Wood, C.M.</u>, Maurer, B.W., <u>Cox, B.R.</u>, Wotherspoon, L., Bradley, B.A., Cubrinovski, M. (2017). "Relative Efficacy of CPT- versus Vs-based Simplified Liquefaction Evaluation Procedures," 19th International Conference on Soil Mechanics and Geotechnical Engineering, Seoul, South Korea, 17-22 Sept., 2017.
- 6. Hwang, S., Roberts, J.N., Stokoe II, K.H., <u>Cox, B.R.</u>, van Ballegooy, S., Soutar, C. (2017). "Utilizing Direct-Push Crosshole Seismic Testing to Verify the Effectiveness of Shallow Ground Improvements: A Case Study Involving Low-Mobility Grout Columns in Christchurch, New Zealand," Grouting 2017, Honolulu, Hawaii, 9–12 July, 2017.
- 7. <u>Cox, B.R.</u>, <u>McLaughlin, K.A.</u>, van Ballegooy, S., Cubrinovski, M., Boulanger, R., Wotherspoon, L. (2017). "In-Situ Investigation of False-Positive Liquefaction Sites in Christchurch, New Zealand: St. Teresa's School Case History," 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering, Vancouver, Canada, 16-19 July 2017.

- 8. <u>Wood, C.M.</u>, McGann, C.R., <u>Cox, B.R.</u>, Green, R.A., Wotherspoon, L., Bradley, B.A., Cubrinovski, M. (2017). "A comparison of CPT-VS correlations using a liquefaction case history database from the 2010-2011 Canterbury Earthquake Sequence," 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering, Vancouver, Canada, 16-19 July 2017.
- 9. Zalachoris, G., Rathje, E.M., <u>Cox, B.R.</u>, <u>Cheng, T.</u> (2017). "Application of the P-Wave Seismogram Method for VS30 Characterization of Texas, Oklahoma, and Kansas," 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering, Vancouver, Canada, 16-19 July 2017.
- 10. <u>Teague, D.P., Cox, B.R., El-Afifi, T.S.</u> (2017). "Site Response Implications of Using Shear Wave Velocity Profiles Derived from "Blind" and Geologically-Guided Surface Wave Inversions," 16th World Conference on Earthquake Engineering, Santiago, Chile, 9-13 January 2017.
- 11. Stokoe, K.H., <u>Cox, B.R.</u>, Clayton, P., Menq, F. (2017). "NHERI@UTexas Experimental Facility: Large-scale Mobile Shakers for Natural-Hazards Field Studies," 16th World Conference on Earthquake Engineering, Santiago, Chile, 9-13 January 2017.
- 12. Wotherspoon, L.M., <u>Cox, B.R.</u>, Stokoe, K.H., Ashfield, D.J., Phillips, R. (2017). "Assessment of the Degree of Soil Stiffening from Stone Column Installation using Direct Push Crosshole Testing," 16th World Conference on Earthquake Engineering, Santiago, Chile, 9-13 January 2017.
- 13. <u>Cox, B.R., Griffiths, S.C.</u>, Rathje, E.R., <u>Teague, D.P.</u>, (2015). "Shear Wave Velocity Uncertainty and its Relation to Variability in Site Response Using a Dispersion Misfit Approach," 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1-4 November 2015 (invited).
- 14. Wotherspoon, L.M., <u>Cox, B.R.</u>, Stokoe, K.H., Ashfield, D.J., Phillips, R. (2015). "Utilizing Direct-Push Crosshole Testing to Assess the Effectiveness of Soil Stiffening Caused by Installation of Stone Columns and Rammed Aggregate Piers," 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1-4 November 2015.
- 15. <u>Teague, D.P., Cox, B.R.</u>, Bradley, B.A., Wotherspoon, L.M. (2015). "Development of Realistic Vs Profiles in Christchurch, New Zealand via Active and Ambient Surface Wave Data: Methodologies for Inversion in Complex Interbedded Geology," 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1-4 November 2015.
- 16. Wood, C.M., Wotherspoon, L.M., Cox, B.R. (2015). "Influence of A-Priori Subsurface Layering Data on the Development of Realistic Shear Wave Velocity Profiles from Surface Wave Inversion," 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1-4 November 2015.
- 17. Foti, S., Cox, B.R., Garofalo, F., Hollender, F., Bard, P.Y., Cornou, C., Ohrnberger, M., Sicilia, D. (2015). "Uncertainties in Vs Profiles from Geophysical Tests and Their Influence on Seismic Ground Response Analyses: Results from the Interpacific Blind Test," 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1-4 November 2015.

- 18. Van Ballegooy, S., Roberts, J.N., Stokoe, K.H., <u>Cox, B.R.</u>, Wentz, F.J., Hwang, S. (2015). "Large-Scale Testing of Shallow Ground Improvements using Controlled Staged-Loading with T-Rex," 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1-4 November 2015.
- 19. Wotherspoon, L. M., Bradley, B. A., Thomson, E. M., Hills, A. J., Jeong, S., <u>Wood, C. M.</u>, <u>Cox, B. R.</u> (2015). "Development of Deep Vs Profiles and Site Periods for the Canterbury Region," New Zealand Society for Earthquake Engineering 2015 Conference New Dimensions in Earthquake Resilience, Rotorua, New Zealand, 10-12 April 2015.
- 20. Wotherspoon, L., Orense, R. P., Bradley, B. A., <u>Cox, B. R.</u>, Green, R. A., <u>Wood, C. M.</u> (2014). "Soil Profile Characterization of Christchurch Strong Motion Stations," 10<sup>th</sup> U.S. National Conference on Earthquake Engineering, Anchorage, Alaska, 21-25 July 2014.
- 21. <u>Cox, B.R.</u>, <u>Wood, C.M.</u>, <u>Teague, D.P.</u> (2014). "Synthesis of the UTexas1 Surface Wave Dataset Blind-Analysis Study: Inter-Analyst Dispersion and Shear Wave Velocity Uncertainty," ASCE Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability, Atlanta, GA, 23-26 February 2014.
- 22. <u>Wood, C.M.</u>, <u>Ellis, T.B.</u>, <u>Teague, D.P.</u>, <u>Cox, B.R.</u> (2014). "Analyst I: Comprehensive Analysis of the UTexas1 Surface Wave Dataset," ASCE Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability, Atlanta, GA, 23-26 February 2014.
- 23. Stokoe II, K.H., Roberts, J.N., Hwang, S., Cox, B.R., Menq, F.Y., Van Ballegooy, S. (2014), "Effectiveness of Inhibiting Liquefaction Triggering by Shallow Ground Improvement Methods: Initial Field Shaking Trials With T-Rex at One Site in Christchurch", Soil Liquefaction During Recent Large-Scale Earthquakes, Orense, Towhata & Chouw (Eds.), © 2014 Taylor & Francis Group, London, ISBN 978-1-138-02643-8
- Wotherspoon, L.M., Orense, R.P., Bradley, B.A., <u>Cox, B.R.</u>, <u>Wood, C.M.</u>, Green, R.A. (2013). "Soil Profile Characterisation of Christchurch Strong Motion Stations", New Zealand Society for Earthquake Engineering 2013 Conference: Same Risks New Realities, Wellington, New Zealand, 26-28 April 2013.
- 25. Pando, M.A., Suarez, L.E., Rodriguez-Marek, A., Dika, S., Assimaki, D., <u>Cox, B.R.</u>, Wartman, J. (2012). "A Bridge to the Doctoral Program Strategy for Increasing Latinos in the Earthquake Engineering Professoriate", Proceedings of the 2012 American Society of Engineering Education Conference, San Antonio, TX, 10-13 June 2012.
- 26. Wood, C.M., Cox, B.R., Rodriguez-Marek, A., Assimaki, D., Wartman, J., Pando, M. (2012). "Topographic Effects from Longwall Coal Mining Seismicity: Phase I Experimental Setup and Results," Second International Conference on Performance-Based Design in Earthquake Geotechnical Engineering, Taormina, Italy, 28-30 May 2012.
- 27. <u>Griffiths, S.C.</u>, <u>Cox, B.R.</u> (2012). "A Comparison of SPT-based Empirical Liquefaction Triggering Procedures for Soils at Significant Depths (+20 m)," ASCE Geo-Congress 2012: State of the Art and Practice in Geotechnical Engineering, Oakland, CA, 25-29 March 2012.
- 28. <u>Wood, C.M.</u>, <u>Cox, B.R.</u> (2012). "A Comparison of MASW Dispersion Uncertainty and Bias for Impact and Harmonic Sources," ASCE Geo-Congress 2012: State of the Art and Practice in Geotechnical Engineering, Oakland, CA, 25-29 March 2012.

- 29. Kayen, R.E., Ishihara, K., Stewart, J.P., Tokimatsu, K., Cox, B.R., Tanaka, Y., Kokusho, T., Mason, H.B., Moss, R.E.S, Zekkos, D., Wood, C.M., Katsumata, K., Estevez, I.A., Cullenward, S.S., Tanaka, H., Harder, L.F., Kelson, K.I., Kishida, T. (2012). "Geotechnical Deformations at Ground Failure Sites from the March 11, 2011 Great Tohoku Earthquake, Japan: Field Mapping, LiDAR Modeling, and Surface Wave Investigation." Proc., 9th International Conference on Urban Earthquake Engineering/4th Asia Conference on Earthquake Engineering, March 6-8, Tokyo, Japan.
- 30. <u>Cox, B.R., Wood, C.M.</u> (2011). "Surface Wave Benchmarking Exercise: Methodologies, Results and Uncertainties," ASCE GeoRisk2011: Risk Assessment and Management in Geoengineering, Atlanta, Georgia, 26-28 June 2011.
- 31. Stokoe, II, K.H., Lee, L.-S., Nam, B., <u>Cox, B.R.</u>, and Oshinski, E. (Invited, 2011) "Investigations of Galveston Airport Pavements after Hurricane Ike in 2008 and Liquefaction sites in Residential Areas after the New Zealand Earthquake in 2010," Proceedings of the 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation, Semarang, Indonesia, 18-20 May 2011, pp. 255-262.
- 32. McCartney, J.S., <u>Cox, B.R.</u>, <u>Trowler, C.N.</u>, <u>Wood, C.M.</u>, Khosravi, A. (2011). "Seasonal Effects on the Dynamic Deformation of Geosynthetic-Reinforced Pavements," ASCE Geo-Frontiers: Advances in Geotechnical Engineering, Dallas, Texas, 13-16 March 2011.
- 33. <u>Cox, B.R.</u>, Cothren, J., Barnes, A., Wartman, J., Rodriguez-Marek, A., Meneses, J. (2010). "Towards Quantifying Movement of a Massive Lateral Spread Using High-Resolution Satellite Image Processing," 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering: Reaching Beyond Borders, Toronto, Canada, 25-29 July2010.
- 34. Menq, F.-Y., <u>Cox, B.R.</u>, Park, K., Stokoe, K.H. II. (2010). "Estimating Dynamic Strains in Soil Generated by the Large Mobile Shakers at NEES@UTexas Before Testing," 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering: Reaching Beyond Borders, Toronto, Canada, 25-29 July2010.
- 35. McCartney, J.S., Cox, B.R., Wood, C.M., Curry, B. (2010). "Evaluation of Geosynthetic-Reinforced Flexible Pavements Using Static Plate Load Tests," 9<sup>th</sup> International Conference on Geosynthetics, Guaruja, Brazil, 23-27 May 2010.
- 36. Menq, F.-Y., Cox, B.R., Stokoe, K.H. II. (2010). "Estimating Dynamic Strain Amplitudes Beneath Mobile Shakers," *Seismological Society of America Annual Meeting*, Portland, OR, 21-23 April, Abstract only (published in *Seismological Research Letters*, 81(2), p. 356).
- 37. Wells, D.L., Rathje, E., Bachhuber, J., Cox, B.R., French, J., Green, R., Olson, S., Rix, G., Suncar, O., Pena, L., Mundara, T. (2010). "Ground Deformation Effects on the 12 January, 2010 Earthquake in Haiti," *Seismological Society of America Annual Meeting*, Portland, OR, 21-23 April, Abstract only (published in *Seismological Research Letters*, 81(3), p. 540).
- 38. Cox, B.R., Wood, C.M. (2010). "A Comparison of Linear-Array Surface Wave Methods at a Soft Soil Site in the Mississippi Embayment," ASCE GeoFlorida: Advances in Analysis, Modeling and Design, West Palm Beach, Florida, 20-24 February 2010.
- 39. Marinucci, A.M, Rathje, E.M, Ellington, J.S., <u>Cox, B.R.</u>, Menq, F.-Y., and Stokoe II, K.H. (2010). "Evaluation of the Effectiveness of Prefabricated Vertical Drains using Full-Scale

- In Situ Staged Dynamic Testing," Art of Foundation Engineering Practice, Eds. M.H. Hussein, J.B. Anderson, and W.M. Camp, Geotechnical Special Publication 198, ASCE.
- 40. <u>Cox, B.R.</u>, McCartney, J.S., <u>Wood, C.M.</u>, <u>Curry, B.</u> (2010). "Performance Evaluation of Full-Scale Geosynthetic-Reinforced Flexible Pavements Using Field Cyclic Plate Load Tests," The Transportation Research Board 89<sup>th</sup> Annual Meeting, Washington, D.C., 10-14 January 2010.
- 41. Cox, B.R., McCartney, J.S., Curry, B., Wood, C.M., Young, C. (2009) "In-Situ Strain Measurements During Dynamic Shear Loading of An Unbound Geogrid Reinforced Flexible Pavement Section," Eighth International Conference on the Bearing Capacity of Roads, Railways, and Airfields, Urbana-Champaign, Illinois, 29 June 2 July 2009.
- 42. Meneses, J.F., Franke, K.W., <u>Cox, B.R.</u>, Rodriquez-Marek, A., Wartman, J. (2009). "Performance-Based Evaluation of a Massive Liquefaction-Induced Lateral Spread in a Subduction Zone," IS-Tokyo 2009 International Conference on Performance-Based Design in Earthquake Geotechnical Engineering From Case History to Practice, Tokyo, Japan, 15-17 June 2009.
- 43. Stokoe, II, K.H., Li, S., <u>Cox, B.R.</u>, Menq, F-Y., Rohay, A. (2008). "Deep Downhole Seismic Testing for Earthquake Engineering Studies," The 14<sup>th</sup> World Conference on Earthquake Engineering, Beijing, China, 12-17 October 2008.
- 44. Menq, F-Y., Stokoe, II, K.H., Park, K., Rosenblad, B.L., <u>Cox, B.R.</u> (2008). "Performance of Mobile Hydraulic Shakers at nees@UTexas for Earthquake Studies," The 14<sup>th</sup> World Conference on Earthquake Engineering, Beijing, China, 12-17 October 2008.
- 45. Wong, I., Stokoe, II, K.H., <u>Cox, B.R.</u>, Menq, F.-Y., Hoffpauir, C., Okubo, P. (2008). "Shear-wave Velocity Profiling of the USGS Strong Motion Stations on the Island of Hawaii," *Seismological Society of America Annual Meeting*, Santa Fe, NM, 16-18 April, Abstract only (published in *Seismological Research Letters*, 79(2), p. 339).
- 46. Stokoe, II, K.H., Menq, F.-Y., Wood, S.L., Park, K., Rosenblad, B.L., <u>Cox, B.R.</u> (2008). "Experience with nees@UTexas Large-Scale Mobile Shakers in Earthquake Engineering Studies," The 3rd International Conference On Site Characterization (ISC-3), Taipei, Taiwan, 1-4 April 2008.
- 47. Wartman, J., Cox, B.R., Meneses, J., Moreno, V., Olcese, M., Rodriguez-Marek, A., Sancio, R. (2008). "Landslides Triggered by the 15 August 2007 M8.0 Pisco, Peru Earthquake," Geophysical Research Abstracts, Vol.10, EGU2008-A-00000, EGU General Assembly.
- 48. Stokoe, K.H., <u>Cox, B.R.</u>, Lin, Y.-C., Jung, M.J., Menq, F.-Y., Bay, J.A., Rosenblad, B., Wong, I. (2006). Invited Paper, "Use of Intermediate to Large Vibrators as Surface Wave Sources to Evaluate V<sub>s</sub> Profiles for Earthquake Studies," 19<sup>th</sup> Symposium on the Application of Geophysics to Engineering and Environmental Problems, Seattle, WA, April 2-6, 2006.
- 49. Rathje, E.M., Chang, W-J., Stokoe II, K.H., and <u>Cox, B.R.</u> (2004). "Evaluation of Ground Strain from In Situ Dynamic Response," Paper No. 3099, 13<sup>th</sup> World Conference on Earthquake Engineering, Vancouver, Canada, August.
- 50. Rathje, E.M., Chang, W-J., <u>Cox, B.R.</u>, and Stokoe II, K.H. (2004). "Effect of Prefabricated Vertical Drains on Pore Pressure Generation in Liquefiable Sand," 11<sup>th</sup> International

- Conference on Soil Dynamics & Earthquake Engineering and 3<sup>rd</sup> International Conference on Earthquake Geotechnical Engineering, Berkeley, CA, January.
- 51. Stokoe II, K.H., Rathje, E.M. and Cox, B.R., and Chang, W.J. (2004). "Using Large Hydraulic Shakers to Induce Liquefaction in the Field," *International Conference on Cyclic Behavior of Soils and Liquefaction Phenomena*, Bochum, Germany, March 31–April 2.
- 52. Wong, I.G., Cox, B.R., Menq, F-Y., Lin, Y-C., and Stokoe II, K.H. (2004). "Vs Surveys of Strong Motion Sites in the Puget Sound Region, Washington, and Preliminary Analysis of Shallow Site Response in the 2001 M 6.8 Nisqually Earthquake," *Seismological Society of America Annual Meeting*, Palm Springs, CA, April 14-16, Abstract only (published in *Seismological Research Letters*, 75(2), p. 248).
- 53. Terrell, R.G., Cox, B.R., Stokoe II, K.H., Allen, J.J., and Lewis, D. (2003). "Field Evaluation of the Stiffness of Unbound Aggregate Base Layers in Inverted Flexible Pavements," *TRB* 83<sup>rd</sup> Annual Meeting, Washington, D.C., January 12-16.
- 54. Terrell, R.G., Cox, B.R., Menq, F-Y., Allen, J.J., and Stokoe II, K.H. (2003). "Stiffness of Unbound Aggregate Base Layers in Inverted Flexible Pavements," *ICAR*, 11<sup>th</sup> Annual Symposium on Aggregates, Austin, Texas, April 27-30.

### **Technical Reports**

- 1. Cox, B.R., Stolte, A.C., Hallal, M.M., (2017). "Seismic Wave Velocity Profiling Using Direct Push Crosshole Measurements: Metro Sports Centre Rammed Aggregate Pier Trial Christchurch, New Zealand," Geotechnical Engineering Report GR17-17, University of Texas at Austin, October 2017.
- 2. Cox, B.R., Stolte, A.C. (2017). "Seismic Wave Velocity Profiling Using Direct Push Crosshole Measurements: Briseño Bridge Embankment Briseño, Manabí, Ecuador," Geotechnical Engineering Report GR17-05, University of Texas at Austin, January 2017.
- 3. Cox, B.R., Teague, D. (2017). "Deep Shear Wave Velocity Profiling Using MASW and MAM Measurements: East Bay Municipal Utility District (EBMUD) Delta Tunnel Project," Geotechnical Engineering Report GR17-04, University of Texas at Austin, January 2017.
- 4. Cox, B.R., Teague, D. (2016). "Shear Wave Velocity Profiling Using MASW and MAM Measurements: Stewart County, Georgia," Geotechnical Engineering Report GR16-08, University of Texas at Austin, November 2016.
- 5. Cox, B.R., Teague, D. (2016). "Shear Wave Velocity Profiling Using MASW and MAM Measurements: Sequoyah Nuclear Power Plant, Soddy-Daisy, Tennessee," Geotechnical Engineering Report GR16-03, University of Texas at Austin, May 2016.
- 6. Cox, B.R., Ellis, T.B., Griffiths, S.C. (2012). "Site-Specific Seismic Ground Motion Analyses for Transportation Infrastructure in the New Madrid Seismic Zone", MBTC DOT 3032, Prepared for Mack-Blackwell Rural Transportation Center, University of Arkansas, The National Transportation Security Center of Excellence: A Department of Homeland Security Science and Technology Center of Excellence, November 2012. (https://ntl.bts.gov/lib/47000/47700/47794/MBTC-3032FinalReport.pdf).

- 7. Green, R.A., Cubrinovski, M., Allen, J., Ashford, S., Bowman, E., Bradley, B., Cox, B.R., Hutchinson, T., Kavazanjian, E., Orense, R., O'Rourke, T., Pender, M., Quigley, M., Wotherspoon, L. (2010). "Geotechnical Reconnaissance of the 2010 Darfield (New Zealand) Earthqauke", Internet Report (http://www.geerassociation.org/GEER\_Post% 20EQ%20Reports/Darfield%20New%20Zealand\_2010/Cover\_Darfield\_2010.html), November 2010.
- 8. Rathje, E., Bachhuber, J., Cox, B.R., French, J., Green, R., Olson, S., Rix, G., Wells, D., Suncar, O. (2010). "Geotechnical Engineering Reconnaissance of the 2010 Haiti Earthquake", Internet Report (http://www.geerassociation.org/GEER\_Post%20EQ%20 Reports/Haiti\_2010/CoverHaiti10.html), February 2010.
- 9. Stokoe, II, K.H., Lin, Y-C, Cox, B.R., Yuan, J. (2009). "SASW Test Procedures and Documentation of Equipment Calibration at The University of Texas at Austin: SASW Profiling to Depths on the Order of 250 Feet in Moderately Stiff Soil and 500 Feet in Moderately Stiff Rock," Geotechnical Engineering Report GR09-06, University of Texas at Austin, May 2009.
- 10. Stokoe, II, K.H., Cox, B.R., Jung, M.J., Yuan, J. (2009). "Field Seismic Crosshole and SASW Testing Data Summary Report: Post-Demolition Field Seismic Testing of Existing Structural Concrete and Rock: Former Cherokee Nuclear Station Unit 1 Reactor Building Cherokee County, South Carolina," Geotechnical Engineering Report GR09-01, University of Texas at Austin, January 2009.
- Kayen, R., Cox, B.R., Johansson, J., Steele, C., Somerville, P., Kongai, K., Zhao, Y., Tanaka, H. (2008). "Geoengineering and Seismological Aspects of the Iwate Miyagi-Nairiku, Japan Earthquake of June 14, 2008", Internet Report (http://research.eerc.berkeley.edu/projects/GEER/GEER\_Post%20EQ%20Reports/Japan\_2008/Cover\_Japan 2008.html), Sept. 2008.
- 12. Stokoe, II, K.H., Lin, Y.C., Cox, B.R., Yuan, J. (2008). "Shear Wave Velocity Profiles from SASW Testing at the City Life Site in Milan, Italy," Geotechnical Engineering Report GR08-21, University of Texas at Austin, September 2008.
- 13. Stokoe, II, K.H., Cox, B.R., Li, S. (2008). "Deep Vertical Seismic Profiling for the Yucca Mountain Project (YMP)," Geotechnical Engineering Report GR08-10, University of Texas at Austin, March 2008.
- 14. Stokoe, II, K.H., Cox, B.R., Jung, M.J., Yuan, J. (2007). "Field Seismic Crosshole and SASW Testing Data Summary Report: Duke-Lee Nuclear Station (LNS) COL Project Field Seismic Testing of Existing Basement Concrete and Rock: Former Cherokee Nuclear Station Unit 1 Reactor Building Cherokee, South Carolina," Vol. I and II, Geotechnical Engineering Report GR07-11, University of Texas at Austin, October 2007.
- 15. Fierro, E.A., Blondet, M., Ballantyne, D., Gartner, M., Matamoros, A., Shoaf, K., Dorian, A., Seligson, H., Pinto, L., Yu, K., Rodriquez, M., Pujol, S., Schultz, A., Rodriguez-Marek, A., Alva-Hurtado, J., Cox, B.R., Meneses, J., Moreno, V., Olcese, M., Sancio, R., Wartman, J. (2007) "Learning from Earthquakes: The Pisco, Peru Earthquake of August 15, 2007", EERI Special Earthquake Report, Earthquake Engineering Research Institute newsletter, October 2007.
- 16. Rodriguez-Marek, A., Alva-Hurtado, J., Cox, B.R., Meneses, J., Moreno, V., Olcese, M., Sancio, R., Wartman, J. (2007) "Preliminary Reconnaissance Report on the Geotechnical

- Engineering Aspects of the August 15, 2007 Pisco, Peru Earthquake: Report of the National Science Foundation-Sponsored Geo-Engineering Earthquake Reconnaissance (GEER) Team", Internet Report (http://gees.usc.edu/GEER/Peru2007/Peru2007\_WebPage /index.htm), Sept. 2007.
- 17. Stokoe, II, K.H., Lin, Y.C., Cox, B.R., Yuan, J. (2008). "Shear Wave Velocity Profiles from SASW Testing at the City Life Site in Milan, Italy," Geotechnical Engineering Report GR08-21, University of Texas at Austin, 2008.
- 18. Stokoe, II, K.H., Cox, B.R., Li, S. (2008). "Deep Vertical Seismic Profiling for the Yucca Mountain Project (YMP)," Geotechnical Engineering Report GR08-10, University of Texas at Austin, March 2008.
- 19. Stokoe, II, K.H., Cox, B.R., Jung, M.J., Yuan, J. (2007). "Field Seismic Crosshole and SASW Testing Data Summary Report: Duke-Lee Nuclear Station (LNS) COL Project Field Seismic Testing of Existing Basement Concrete and Rock: Former Cherokee Nuclear Station Unit 1 Reactor Building Cherokee, South Carolina," Vol. I and II, Geotechnical Engineering Report GR07-11, University of Texas at Austin, October 2007.
- 20. Stokoe, II, K.H., Li, S., Cox, B.R., Menq, F.Y., (2007). "Deep Downhole Seismic Testing at the Waste Treatment Plant Site, Hanford, WA, Vols I-IV, Geotechnical Engineering Report GR07-10, University of Texas at Austin, June 2007.
- 21. Stokoe, II, K.H., Cox, B.R., Lin, Y.C., Wilder, B., Yuan, J. (2007). "Field Data Summary: Spectral-Analysis-of-Surface-Waves (SASW) Testing Duke-Lee Combined Operating License (COL) Project," Vol. I and II, Geotechnical Engineering Report GR07-8, University of Texas at Austin, May 2007.
- 22. Stokoe, II, K.H., Cox, B.R., Lin, Y.C., Wilder, B., Yuan, J. (2007). "Field Data Summary: Spectral-Analysis-of-Surface-Waves (SASW) Testing Grand Gulf Combined Operating License (COL) Project," Vol. I and II, Geotechnical Engineering Report GR07-7, University of Texas at Austin, May 2007.
- 23. Stokoe, II, K.H., Cox, B.R., Lin, Y.C., Wilder, B., Yuan, J. (2007). "Shear Wave Velocity Profiling at the Device Assembly Facility (DAF), Nevada Test Site, NV," Vol. I and II, Geotechnical Engineering Report GR07-2, University of Texas at Austin, March 2007.
- 24. Stokoe, II, K.H., Lin, Y.C., Cox, B.R., Jung, M.J. (2006). "SASW Test Procedures and Documentation of Equipment Calibration at The University of Texas at Austin: SASW Profiling to Depths Less Than 150 Feet," Geotechnical Engineering Report GR06-8, University of Texas at Austin, September 2006.
- 25. Cox, B.R., and Stokoe, II, K.H., "Field Evaluation of Liquefaction Resistance at Previous Liquefaction Sites in Southern California," Geotechnical Engineering Report GR06-6, Civil Engineering Department, University of Texas at Austin, July 2006.
- 26. Cox, B.R. (2006), "Development of a Direct Test Method for Dynamically Assessing the Liquefaction Resistance of Soils In Situ," Ph.D. Dissertation, The University of Texas, Austin, Texas. 498 p.
- 27. Stokoe II, K.H., Cox, B.R., Jung, M.J., "Field Crosshole Testing Report: Field Seismic Tests at Three Sites; Chemistry and Metallurgical Research Replacement (CMRR) Project, Los Alamos National Laboratory, Los Alamos, New Mexico," Geotechnical Engineering

- Report GR06-3, Civil Engineering Department, University of Texas at Austin, Austin, TX, May 2006.
- 28. Stokoe, II, K.H., Lin, Y.C., Cox, B.R., Jung, M.J., "SASW Test Procedures and Documentation of Equipment Calibration at The University of Texas At Austin: SASW Profiling Depths Less Than 250 Feet," Geotechnical Engineering Report GR06-5, Civil Engineering Department, University of Texas at Austin, April 2006.
- 29. Stokoe, II, K.H., Cox, B.R., Sheehan, A, Jung, M.J. (2006). "Field Crosshole and Downhole Seismic Tests and Dynamic Core Tests: Sites U-7, U-20 and U-34, Y-12 National Security Complex, Oak Ridge, Tennessee," Vol. I and II, Geotechnical Engineering Report GR06-2, University of Texas at Austin, March 2006.
- 30. Stokoe II, K.H., Cox, B.R., Lin, Y.C., Choi, W.K., Jeon, S.Y., Jung, J.J., "Special Block Tests (SBT) of Bandelier Tuff (Qbt3L): Field Seismic and Dynamic Laboratory Tests, Los Alamos National Laboratory," Geotechnical Engineering Report GR05-4, Civil Engineering Department, University of Texas at Austin, Austin, TX, November 2005.
- 31. Stokoe II, K.H., Cox, B.R., Jung, M.J., Jeon, S.Y., Choi, W.K., Lin, Y.C., Bay, J.A., Sealy, R., "Shear Wave Velocity Measurements of Curing Concrete at a Test Pad, Associated Field and Laboratory Test Cylinders and the Mass Concrete Fill, Y-12 National Security Complex, Oak Ridge, TN.," Geotechnical Engineering Report GR05-3, Civil Engineering Department, University of Texas at Austin, Austin, TX, September 2005.
- 32. Stokoe II, K.H., Cox, B.R., Sheehan, A., Jung, M.J., "Field Seismic Tests at Sites U-7, U-20 and U-34, Y-12 National Security Complex, Oak Ridge, TN.," Geotechnical Engineering Report GR05-2, Civil Engineering Department, University of Texas at Austin, Austin, TX, August 2005.
- 33. Stokoe II, K.H., Lin, Y.C., Cox, B.R., Kurtulus, A., Jung, M.J., "Shear Wave Profiling at the Waste Treatment Plant Site, Hanford, WA.," Geotechnical Engineering Report GR05-1, Civil Engineering Department, University of Texas at Austin, Austin, TX, July 2005.
- 34. Stokoe, II, Lin, Y.C and Cox, B.R., "Spectral Analysis of Surface Waves (SASW) Testing in the Field and Dynamic Laboratory Testing of Selected Rock Samples Waste Control Specialists LLC; Future RCRA Landfill Area," Data Report, University of Texas at Austin, June 2004.
- 35. Redpath, B., Stokoe II, K.H., Cox, B.R., "Field Downhole Data Report No.1: Proposed Site of the SMC/PPt Facility; Proposed Site of Building 9720-82; Boring Sites H-2, H-3, H-4 and H-5; Y-12 National Security Complex, Oak Ridge, TN.," Geotechnical Engineering Report GR03-14, Civil Engineering Department, University of Texas at Austin, Austin, TX, September 2003.
- 36. Stokoe II, K.H., Cox, B.R., Rosenblad, B.L., "Field Crosshole Data Report No.1: Proposed Site of the SMC/PPt Facility; Y-12 National Security Complex, Oak Ridge, TN.," Geotechnical Engineering Report GR03-6, Civil Engineering Department, University of Texas at Austin, Austin, TX, September 2003.
- 37. Stokoe II, K.H., Cox, B.R., Rosenblad, B.L., "Field Crosshole Data Report No.2: Proposed Site of Building 9720-82; Y-12 National Security Complex, Oak Ridge, TN.," Geotechnical Engineering Report GR03-7, Civil Engineering Department, University of Texas at Austin, Austin, TX, September 2003.

- 38. Stokoe II, K.H., Cox, B.R., Kurtulus, A., Jung, M.-J., "Field Crosshole Data Report No.3: Boring Sites H-2, H-3, H-4 and H-5; Y-12 National Security Complex, Oak Ridge, TN.," Geotechnical Engineering Report GR03-8, Civil Engineering Department, University of Texas at Austin, Austin, TX, September 2003.
- 39. Cox, B.R. (2001), "Shear Wave Velocity Profiles at Sites Liquefied by the 1999 Kocaeli, Turkey Earthquake," M.S. Thesis, Utah State University, Logan, Utah. 274 p.

### Technical Presentations: National/International Meetings or Conferences

- 1. Cox, B.R. "Accounting for Vs Uncertainty in Seismic Site Response Analyses using the Experimental Site Signature: A Case Study of the Garner Valley Downhole Array," presented at the Seismological Society of America (SSA) 2018 Annual Meeting, Miami, FL, USA, May 15, 2018.
- 2. Cox, B.R. (Invited) "Realistically Accounting for Vs Uncertainty in Seismic Site Response Analyses using the Experimental Site Signature: A Case Study of the Garner Valley Downhole Array," presented at the 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering, Vancouver, BC, Canada, July 19, 2017.
- 3. Cox, B.R. (Invited) "Realistically Accounting for Vs Uncertainty in Seismic Site Response Analyses using the Experimental Site Signature: A Case Study of the Garner Valley Downhole Array," presented at the Institute des Sciences de la Terre (ISTerre), Grenoble, France, June 30, 2017.
- 4. Cox, B.R. (Invited) "Puzzling Patterns of Liquefaction Manifestation (or lack thereof) Following the 2011 Christchurch Earthquake," presented at the U.S.-New Zealand-Japan International Workshop on Liquefaction-Induced Ground Movements Effects, Berkeley, California, November 2-4, 2016.
- 5. Cox, B.R. (Invited) "Session Report: Geophysical Methods," presented at the 5th International Conference on Geotechnical and Geophysical Site Characterization, Gold Coast, Australia, September 5-8, 2016.
- 6. Cox, B.R. (Invited) "The InterPacific Project: Significant Findings," presented at the COSMOS Surface Wave Guidelines Project Meeting, Reno, Nevada, April 23, 2016.
- 7. Cox, B.R. "Site Response Implications Associated with Common Methods used to Account for Vs Profile Uncertainty," presented at the 2016 Seismological Society of America (SSA) Annual Meeting, Reno, Nevada, April 20-23, 2016.
- 8. Cox, B.R. "Utilizing Direct-Push Crosshole Testing to Assess the Effectiveness of Soil Stiffening Caused by Installation of Shallow Ground Improvements," presented at the ASCE 2016 Geotechnical and Structural Engineering Congress, Phoenix, AZ, Feb. 14-17, 2016.
- 9. Cox, B.R. (Invited) "Shear Wave Velocity Uncertainty and its Relation to Variability in Site Response Using a Dispersion Misfit Approach," presented at the 6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1-4 November 2015.

- 10. Cox, B.R. (Invited) "Variability in Active- and Passive-Source Dispersion Data Obtained using Various Processing Methods," presented at the 2nd INTERPACIFIC Workshop, Torino, Italy, July 2-3, 2015.
- 11. Cox, B.R. (Invited) "Stacking and Signal-to-Noise Ratio Assessment in Active-Source Surface Wave Measurements," presented at the 2nd INTERPACIFIC Workshop, Torino, Italy, July 2-3, 2015.
- 12. Cox, B.R. (Invited) "A Systematic Approach to the Inversion of Surface Wave Data Using Limited A-priori Information: Effects of Layering Parameterization," presented at the 2nd INTERPACIFIC Workshop, Torino, Italy, July 2-3, 2015.
- 13. Cox, B.R. (Invited) "A Surface Wave Dispersion Approach for Evaluating Statistical Models that Account for Vs Uncertainty in Site Response," presented at the USGS Forum on the Use of Non-invasive Surface Wave Techniques for Characterizing Site Conditions," Caltech Campus, Pasadena, CA, April 24, 2015.
- 14. Cox, B.R. "A Systematic Approach to the Inversion of Surface Wave Data Using Limited A-priori Information: Effects of Layering Parameterization," presented at the Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP) Annual Meeting, Austin, TX, March 23, 2015.
- 15. Cox, B.R. (Invited) "Evaluation of Shallow Ground Improvement for Liquefaction Mitigation in Christchurch, New Zealand," presented at the International Foundation Congress and Equipment Expo (IFCEE), San Antonio, TX, March 20, 2015.
- 16. Cox, B.R. (Invited) "NEES Helping to Build a Resilient Christchurch: Towards Deep Basin Characterization and Liquefaction Mitigation," presented at the 10th U.S. National Conference on Earthquake Engineering NEES Luncheon, Anchorage, AK, 21-25 July, 2014.
- 17. Cox, B.R. "Developing Reliable Deep Vs Profiles Beneath Christchurch by Merging Large Active-Source and Ambient-Wavefield Surface Wave Methods," presented at the 10th U.S. National Conference on Earthquake Engineering, Anchorage, AK, 21-25 July, 2014.
- 18. Cox, B.R. (Invited) "Analysis of the InterPacific Surface Wave Datasets: Significant Results and Conclusions," presented at the 1st INTERPACIFIC Workshop, Torino, Italy, 22-23 May, 2014.
- 19. Cox, B.R. (Invited) "Analysis of the InterPacific Borehole Methods Datasets: Relevant Results and Conclusions," presented at the 1st INTERPACIFIC Workshop, Torino, Italy, 22-23 May, 2014.
- 20. Cox, B.R. "Synthesis of the UTexas1 Surface Wave Dataset Blind-Analysis Study: Inter-Analyst Dispersion and Shear Wave Velocity Uncertainty," presented at ASCE Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability, Atlanta, GA, February 23-26, 2014.
- 21. Cox, B.R. "Deep Vs Profiling for Dynamic Characterization of Christchurch, New Zealand: Towards Reliably Merging Large Active-Source and Ambient-Wavefield Surface Wave Methods," presented at Quake Summit 2013 NEES Annual Meeting, Reno, NV, August 8, 2013.
- 22. Cox, B.R. "Deep Vs Profiling for Dynamic Characterization of Christchurch, New Zealand: Towards Reliably Merging Large Active-Source and Ambient-Wavefield Surface

- Wave Methods," presented at the International Conference on Earthquake Geotechnical Engineering: From Case History to Practice in honour of Professor Kenji Ishihara, Istanbul, Turkey, June 17-19, 2013.
- 23. Cox, B.R. (Invited) "Liquefaction at Strong Motion Stations and in Urayasu City During the 2011 Great East Japan Earthquake," presented at the Pacific Earthquake Engineering Research Center (PEER) TSRP Liquefaction Workshop, Berkeley, CA, April 24, 2013.
- 24. Cox, B.R. "Topographic Effects from Longwall Coal Mining Seismicity: Phase I Experimental Setup and Results" presented at the Second International Conference on Performance-Based Design in Earthquake Geotechnical Engineering, Taormina, Italy, May 28-30, 2012.
- 25. Cox, B.R. (Invited) "Liquefaction Lessons Learned from Recent Post-Earthquake Reconnaissance" presented at the Liquefaction State-of-the-Art Forum: Consequences & Mitigation, St. Louis, MO, April 19, 2012.
- 26. Cox, B.R. (Invited) "Geotechnical Lessons Learned from the M7.0 2010 Haiti Earthquake: Why the Palace Fell" presented at the Earthquake Engineering Research Institute Annual Meeting and National Earthquake Conference, Memphis, TN, April 11, 2012.
- 27. Cox, B.R. "A comparison of SPT-Based Empirical Liquefaction Triggering Procedures for Soils at Significant Depths (+20 m)" presented at the ASCE GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering, Oakland, CA, March 27, 2012.
- 28. Cox, B.R. "In-Situ Measurements of Pore Pressure Generation and Nonlinear Shear Modulus Behavior at the Wildlife Liquefaction Array" presented at the 24<sup>th</sup> Symposium on the Application of Geophysics to Engineering and Environmental Problems, Charleston, South Carolina, April 10-14, 2011.
- 29. Cox, B.R. (Invited) "Structural Health Monitoring: Ideas for China-U.S. Collaboration" presented at the NSF-sponsored Workshop on China-US Collaboration for Disaster Evolution/Resilience of Civil Infrastructure and Urban Environment, Purdue University, West Lafayette, Indiana, August 23-24, 2010.
- 30. Cox, B.R. "Towards Quantifying Movement of a Massive Lateral Spread Using High-Resolution Satellite Image Processing" presented at 9th US National and 10th Canadian Conference on Earthquake Engineering: Reaching Beyond Borders, Toronto, Canada, July 27, 2010.
- 31. Cox, B.R. (Invited) "The M8.0 Pisco, Peru Earthquake of August 15, 2007" presented at Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, CA, May 28, 2010.
- 32. Cox, B.R. "A Comparison of Linear-Array Surface Wave Methods at a Soft Soil Site in the Mississippi Embayment" presented at ASCE Geo Florida, West Palm Beach, FL, February 22, 2010
- 33. Cox, B.R. (Invited) "Turning Disaster into Knowledge: The M8.0 Pisco Peru Earthquake of August 15, 2007" presented at the NSF-Sponsored Geo-engineering Extreme Events Reconnaissance (GEER) Workshop, Berkeley, CA, May 18, 2009.
- 34. Cox, B.R. (Invited) "Surface Wave Site Characterization" presented at the Pile Driving Contractors Association (PDCA) Professors' Driven Pile Institute, Logan, UT, June 17, 2009.

35. Cox, B.R. (Invited) "Development of a Direct Test Method for Dynamically Assessing the Liquefaction Resistance of Soils In-Situ" presented at the Earthquake Engineering Research Institute Annual Meeting, Los Angeles, CA, February 10, 2007.

## Technical Presentations: Regional/State/Local Meetings or Conferences

- 1. Cox, B.R. "NEES Helping to Build a Resilient Christchurch: Towards Deep Basin Characterization and Liquefaction Mitigation," presented at the University of Texas Earthquake Engineering Research Institute Student Chapter Meeting, Austin, TX, October 22, 2014.
- 2. Cox, B.R. "Deep Vs Profiling for Dynamic Characterization of Christchurch, New Zealand: Towards Reliably Merging Large Active-Source and Ambient-Wavefield Surface Wave Methods," presented at the University of Texas Institute for Geophysics Seminar, Austin, TX, March 28, 2014.
- 3. Cox, B.R. "My Experiences as an Earthquake Engineer," presented at Elsa England Elementary School, Round Rock, TX, March 21, 2014.
- 4. Cox, B.R. "Why the Palace Fell The 2010 Haiti Earthquake: from Reconnaissance to Reconstruction" presented at St. Stephen's Episcopal School, Austin, TX, February 13, 2014.
- 5. Cox, B.R. "Topographic Effects in Earthquake Ground Motions: Insights Gained from Field Studies of Frequent and Predictable Mining Seismicity" presented at the UT Austin Acoustics Seminar, Austin, TX, November 9, 2012.
- 6. Cox, B.R. "Lessons Learned from Recent Geotechnical Earthquake Reconnaissance" presented at the UT Austin CAEE External Advisory Committee Meeting, Austin, TX, November 2, 2012.
- 7. Cox, B.R. "Liquefaction Lessons Learned from Recent Post-Earthquake Reconnaissance" presented at the UT Austin EERI Student Chapter Seminar, Austin, TX, October 24, 2012.
- 8. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at St. Joseph Catholic School, Fayetteville, AR, January 27, 2012.
- 9. Cox, B.R. "Lessons Learned from Recent Global Earthquakes" presented at the Arkansas Governor's Earthquake Advisory Council, Jonesboro, AR, January 19, 2012.
- 10. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at Central Jr. High School, Springdale, AR, December 9, 2011.
- 11. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at the ATC-20 Post earthquake Safety Evaluation of Buildings seminar, Fayetteville, AR, December 2, 2011.
- 12. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at Oakdale Middle School, Rogers, AR, November 18, 2011.
- 13. Cox, B.R. "Earthquake Engineering Reconnaissance: Turning Disaster into Knowledge" presented at the College of Engineering Alumni and Friends Luncheon, Clinton Library, Little Rock, AR, November 8, 2011.

- 14. Cox, B.R. "Why the Palace Fell The 2010 Haiti Earthquake: from Reconnaissance to Reconstruction" presented at the Freshman Engineering Program, The University of Arkansas, Fayetteville, AR, September 20, 2011.
- 15. Cox, B.R. "Evaluation of Basal Reinforcement of Flexible Pavements (the Marked Tree project)" presented at the Arkansas State Highway and Transportation Department (AHTD), Transportation Research Committee, Little Rock, AR, April 26, 2011.
- 16. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at Lynch Middle School, Farmington, AR, January 27, 2011.
- 17. Cox, B.R. "Geotechnical Earthquake Engineering Reconnaissance" presented at the University of Arkansas Board of Advisors Meeting, Fayetteville, AR, September 24, 2010.
- 18. Cox, B.R. "2010 Haiti Earthquake: from Reconnaissance to Rebuilding" presented at the University of Arkansas Geosciences Colloquium, Fayetteville, AR, September 3, 2010.
- 19. Cox, B.R. "2010 Haiti Earthquake from Reconnaissance to Rebuilding" presented at the Arkansas State Highway and Transportation Department (AHTD), Transportation Research Committee, Little Rock, AR, May 12, 2010.
- 20. Cox, B.R. "Geotechnical Earthquake Engineering Reconnaissance" presented at the University of Arkansas College of Engineering Spring 2010 Advisory Council, Fayetteville, AR, April 9, 2010.
- 21. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at Central Jr. High School, Springdale, AR, December 4, 2009.
- 22. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at the ATC-20 Post earthquake Safety Evaluation of Buildings seminar, Fayetteville, AR, November 20, 2009.
- 23. Cox, B.R. "Accelerated Characterization of Full-Scale Reinforced Flexible Pavement Models Using a Vibroseis" presented at the Arkansas State Highway and Transportation Department (AHTD), Transportation Research Committee, Little Rock, AR, November 17, 2009.
- 24. Cox, B.R. "Evaluation of Basal Reinforcement of Flexible Pavements II" presented at the Arkansas State Highway and Transportation Department (AHTD), Transportation Research Committee, Little Rock, AR, November 17, 2009.
- 25. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at the University of Arkansas Engineering and Science Partnership mini-workshop, Fayetteville, AR, October 24, 2009.
- 26. Cox, B.R. "Accelerated Characterization of Full-Scale Reinforced Flexible Pavement Models Using a Vibroseis" presented at the Mack Blackwell Rural Transportation Center (MBTC) Annual Advisory Board meeting, Fayetteville, AR, October 20, 2009.
- 27. Cox, B.R. "Earthquakes and Their Engineering Effects" presented at Oakdale Middle School, Rogers, AR, October 9, 2009.
- 28. Cox, B.R. "Soil Liquefaction and Its Engineering Effects" presented at the Arkansas Governor's Earthquake Advisory Council (AGEAC) meeting, Blytheville, AR, July 23, 2009.

- 29. Cox, B.R. "Transportation Infrastructure Damage from Recent Earthquakes" Arkansas State Highway and Transportation Department, Transportation Research Committee, Little Rock, AR, May 5, 2009.
- 30. Cox, B.R. "Evaluation of Basal Reinforcement of Flexible Pavements" Arkansas State Highway and Transportation Department, Transportation Research Committee, Little Rock, AR, May 5, 2009.
- 31. Cox, B.R. "Earthquake Issues of Special Interest in Arkansas" presented at the ATC-20 Post earthquake Safety Evaluation of Buildings seminar, Fayetteville, AR, November 7, 2008.
- 32. Cox, B.R. "Geotechnical Failures Observed in the Recent Pisco, Peru and Iwate-Miyagi Earthquakes" presented at the ASCE Arkansas State Section Annual Meeting and Conference, Little Rock, AR, September 5, 2008.
- 33. Cox, B.R. "Geotechnical Failures Observed in the Recent Pisco, Peru and Iwate-Miyagi Earthquakes" presented at the Arkansas Division of Emergency Management (ADEM) Fall Conference, Fort Smith, AR, August 29, 2008.
- 34. Cox, B.R. "Practical Lessons Learned from Recent Large Earthquakes and How They Apply to Arkansas" presented at the Arkansas Governor's Earthquake Advisory Council (AGEAC) meeting, Jonesboro, AR, July 25, 2008.
- 35. Cox, B.R. "Development of a Direct Test Method for Dynamically Assessing the Liquefaction Resistance of Soils In Situ" presented at the Arkansas Academy of Civil Engineers meeting, Fayetteville, AR, April 11, 2008.
- 36. Cox, B.R. "Earthquake Issues of Special Interest in Arkansas: Soil Liquefaction and Deep/Soft Soil Amplification of Earthquake Ground Motions" presented at the ATC-20 Post earthquake Safety Evaluation of Buildings seminar, Fayetteville, AR, October 19, 2007.
- 37. Cox, B.R. "Geotechnical Earthquake Engineering: What it is and Why Arkansas Should Care" presented at the Arkansas Academy of Civil Engineers meeting, Fayetteville, AR, April 13, 2007.
- 38. Cox, B.R. "What Will Happen in Northwest Arkansas When the 'Big One' Hits New Madrid" presented at the Northwest Arkansas Section Meeting of ASCE, Fayetteville, AR, November 1, 2006.

## **COURSES TAUGHT**

Introduction to Geotechnical Engineering (undergraduate, CE 357, U. Texas)

Introduction to Computer Methods (undergraduate, CE 311K, U. Texas)

In-Situ Site Characterization (graduate, CE 397, U. Texas)

Geotechnical Earthquake Engineering (graduate, CE 387R5, U. Texas)

Design and Construction of Underground Openings (graduate, CE 397, U. Texas)

Soil and Rock Dynamics (graduate, CE 387R, U. Texas)

Soil Mechanics (undergraduate, CVEG 3133, U. Arkansas)

Foundation Engineering (undergraduate, CVEG 4143, U. Arkansas)

Geotechnical Design Project (undergraduate, CVEG 4821, U. Arkansas)

Earth Retaining Structures (graduate, CVEG 5153, U. Arkansas)

Geotechnical Earthquake Engineering (graduate, CVEG 5193, U. Arkansas)

Soil Dynamics (graduate, CVEG 5113, U. Arkansas)

In-Situ Site Characterization (graduate, ENEQ 682, University of Canterbury, New Zealand)

### STUDENT ADVISEES

#### Ph.D. Advisees (4 completed)

- Andrew C. Stolte, "Advancements in Direct-Push Seismic Testing", Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, May 2018 (dissertation). Post-doc at the University of Canterbury QuakeCore Center.
- David P. Teague, "Addressing Surface Wave Inversion Non-Uniqueness and the Implications for Seismic Site Response Analyses", Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, August 2017 (dissertation). Consulting engineer at ENGEO Incorporated.
- Shawn C. Griffiths, "Issues Related to Site Property Variability and Shear Strength in Site Response Analysis", Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, August 2015 (dissertation). Assistant Professor at the University of Wyoming.
- Clinton M. Wood, "Field Investigation of Topographic Effects using Mine Seismicity," Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, August 2013 (dissertation). Assistant Professor, University of Arkansas.

#### M.S. Advisees (10 completed)

- Michael B. Yust, "Dynamic Site Characterization of TxNet Ground Motion Stations," Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, May 2018 (thesis).
- Joseph Vantassel, "Mapping Depth to Bedrock, Shear Stiffness, and Fundamental Site Period at CentrePort, Wellington using Surface Wave Methods: Implications for Local Seismic Site Amplification," Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, May 2018 (departmental report/journal publication).
- Kaleigh A. McLaughlin, Investigation of False-Positive Liquefaction Case Histories in Christchurch, New Zealand, Funded by the U.S. National Science Foundation, May 2017 (thesis).
- David P. Teague, Reliably Merging Large Active-Source and Passive-Wavefield Surface Wave Methods, Funded by the U.S. National Science Foundation, May 2014.
- Taylor Goldman, *The Marked Tree Site: Evaluation of Basal Reinforcement of Flexible Pavements with Geosynthetics*, Funded by Arkansas State Highway and Transportation Department, Dec. 2011 (thesis).
- Shawn C. Griffiths, Practical Recommendations for Evaluation and Mitigation of Deep Soil Liquefaction, Funded by the USDOT Mack-Blackwell Rural Transportation Center, May 2011 (thesis).

- Christina N. Trowler, *Accelerated Characterization of Full-scale Reinforced Flexible Pavement Models Using a Vibroseis*, Funded by the USDOT Mack-Blackwell Rural Transportation Center, May 2010 (thesis).
- Jeremy A. Brooks, *Strain Gage Installation and Survivability on Geosynthetics Used in Flexible Pavements*, Funded by Arkansas State Highway and Transportation Department, Dec. 2009 (thesis).
- Clinton M. Wood, *The Impact of Source Type, Source Offset and Receiver Spacing on Experimental MASW Data at Soft-over-Stiff Sites*, Funded by University of Arkansas Department of Civil Engineering Startup Funds, May 2009 (thesis).
- Andrew N. Beekman, A Comparison of Experimental ReMi Measurements with Various Source, Array and Site Conditions, Funded by University of Arkansas Department of Civil Engineering Startup Funds, Aug. 2008 (thesis).

## Doctoral Thesis Advisees (4 in progress)

- Tianjian Cheng, Quantifying Uncertainty in Horizontal-to-Vertical Spectral Ratio (HVSR) Measurements for Engineering Analyses. (expected graduation May 2019).
- Zachary McClellan, Characterization of Dynamic Ground Response for High-Speed Rail Design. (expected graduation December 2019).
- Joseph Vantassel, *Advanced 2D/3D Subsurface Imaging for Engineering Analyses*. (expected graduation May 2021).
- Michael Yust, *High-resolution stress wave measurements for in-situ evaluation of void ratio.* (expected graduation May 2021).

## Master's Thesis Advisees (1 in progress)

• Mohamad Hallal, Refining Texas Velocity Models Over the Top 500m via Deep Surface Wave Profiling

### PROFESSIONAL CONTRIBUTIONS

#### **Professional Registration**

Registered Professional Engineer, State of Arkansas, PE Serial Number 14249

#### **Professional Activities**

- NSF-GEER Earthquake Reconnaissance Teams: Documented geotechnical failures immediately following the August 15, 2007 Pisco Peru Earthquake (Mw = 8.0), the June 14, 2008 Iwate-Miyagi Japan Earthquake (Mw = 6.9), the January 12, 2010 Haiti Earthquake (Mw = 7.0), and the September 4, 2010 Darfield New Zealand Earthquake (Mw = 7.1) as part of GEER (Geo-engineering Extreme Events Reconnaissance). Funded by the National Science Foundation.
- Post-earthquake Shear Wave Velocity Profiling: Conducted post-earthquake shear wave profiling at strong motion stations and liquefaction sites using surface wave methods following the 1999 Kocaeli Turkey Earthquake (Mw = 7.4), the 2001 Nisqually (Seattle) Earthquake (Mw 6.8), the 2006 Kiholo Bay (Big Island) Hawaii Earthquake, the 2011 Christchurch New Zealand Earthquake (M<sub>L</sub> = 6.3), the 2011 Tohoku Japan Earthquake

- (Mw = 9.0), the 2016 **Ecuador Earthquake** (Mw = 7.8), and the 2016 **Kaikoura New Zealand Earthquake** (Mw = 7.8).
- Crosshole, Downhole, and Surface Wave Seismic Testing at Critical Facilities: Conducted deep (1000-3000 ft) downhole testing (VSP) for seismic site characterization of the DOE Hanford Site and Yucca Mountain Project, 2006-2007. Performed spectral analysis of surface waves (SASW) testing at the Device Assembly Facility (DAF; Nevada Test Site), the Yucca Mountain Project, the Hanford Site, the Y-12 National Security Complex, Los Alamos National Laboratory, and the Duke-Lee and Grand Gulf nuclear power plants. Shear wave velocity profiles were developed to record depths at both Yucca Mountain (1500 ft) and Hanford (2000 ft) using NEES@UTexas servo hydraulic shakers, 2004-2007. Performed Crosshole seismic testing at the Y-12 National Security Complex, Oak Ridge National Laboratory, Los Alamos National Laboratory, and Duke-Lee nuclear power plant, 2003-2008. Performed Downhole seismic testing at Oak Ridge National Lab, 2010. Performed topographic amplification study at Los Alamos National Lab, 2014. Performed deep shear wave velocity profiling at TVA Sequoyah nuclear power plant via combined active-source (MASW) and ambient-wavefield (MAM) surface wave methods, 2016.
- *Blast Monitoring*: Installed temporary and permanent blast monitoring equipment for Zero Mountain, Inc. in Johnson, Arkansas, 2007.
- *City Life Project*: Used spectral analysis of surface waves (SASW) to develop shear wave velocity profiles used in the design of three high-rise buildings associated with the City Life project in Milan, Italy, April 2008.
- *Void Detection*: Used multi-channel analysis of surface waves (MASW) to develop continuous 2D velocity profiles for void/soft-spot detection at Little Rock National Airport, Little Rock, Arkansas, July 2009.
- Vibroseis Operation for Exploration Geophysics: Operated a mini-vibe Vibroseis truck for exploration geophysics work for Denbury Resources Inc. (Delhi, LA source study; July 2009) and Apex HiPoint LLC (Denton, TX; November 2009).
- Seismic Microzonation: Conducted SASW surface wave testing with a Vibroseis truck at over 30 sites in Fairbanks, Alaska in August 2009 for microzonation of the city via  $V_{\rm s30}$  seismic site classification. Conducted MASW surface wave testing at 36 sites in Port-au-Prince, Haiti in April 2010 for microzonation of the city via  $V_{\rm s30}$  seismic site classification.
- International Geosynthetics Society Educate the Educator Short Course, Selected Participant, Austin, TX, July 28-29, 2015.
- NSF-sponsored Workshop on China-US Collaboration for Disaster Evolution/Resilience of Civil Infrastructure and Urban Environment, Invited Participant, Purdue University, West Lafayette, Indiana, August 23-24, 2010.
- *PDCA Professor's Driven Pile Institute*, Selected Participant, Utah State University, Logan, UT, June 14-19, 2009.
- NSF-sponsored Workshop for the Geo-engineering Extreme Events Reconnaissance Association, Invited Participant, University of California at Berkeley, Berkeley, CA, May 18-19, 2009.
- ADSC Foundation Engineering Faculty Workshop, Selected Participant, Chattanooga, TN, June 8-14, 2008.

• ASCE Excellence in Civil Engineering Education (ExCEEd) Teaching Workshop, Selected Participant, Northern Arizona University, Flagstaff, AZ, July 15-20, 2007.

## Professional Affiliations and Service

- Graduate Program Advisor, Geotechnical Faculty Group, CAEE Department, The University of Texas. 2017-pres.
- Faculty Advisor, Genesis Program (<a href="http://genesisprogram.org/">http://genesisprogram.org/</a>), Founded by the Longhorn Engineering Advisory Delegation (LEAD), The Genesis Program provides UT Austin students with mentors, investment experience, and early stage funding for start-ups. 2016 pres.
- Corresponding Member, International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee: Earthquake Geotechnical Engineering (TC203), 2016-pres.
- Member, University of Texas CAEE Department, Geotechnical Faculty Search Committee, 2018
- Member, University of Texas CAEE Graduate Studies and Fellowship Committee, 2017-pres.
- Member, University of Texas CAEE IT Committee, 2016-pres.
- Member, ASTM Committee D18 on Soil and Rock, 2010-pres.
- Member, ASCE Geo-Institute Engineering Geology and Site Characterization Committee, 2016-pres.
- Member, ASCE Geo-Institute Earthquake Engineering and Soil Dynamics Committee, 2008-pres.
- Member, American Society of Civil Engineers (ASCE), 2006-pres.
- Member, Geotechnical Extreme Events Reconnaissance (GEER), 2006-pres.
- Member, Earthquake Engineering Research Institute (EERI), 2004-pres.
- Member, University of Texas CAEE Curriculum Committee, 2012-2017
- Member, ASCE Geo-Institute Geophysical Engineering Committee, 2008-2016.
- Member, University of Texas CAEE Distinguished Lecture Series Committee, 2012-2016
- Member, INTERPACIFIC Project Committee (Intercomparison of methods for site parameter and velocity profile characterization), 2012-2016.
- Associate Editor, Journal of Geotechnical and Geoenvironmental Engineering, 2012-2015.
- Member, NEES Data and Curation Subcommittee, 2011-2015.
- Member, University of Texas CAEE Department Chair Search Committee, 2013
- Member, University of Arkansas Scholarship Committee, 2009-2012
- Member, Arkansas Governor's Earthquake Advisory Council (AGEAC), 2007-2012.
- Member, University of Arkansas, Dept. of Civil Eng., Grad. Student Committee, 2006-2012.
- Reviewer, ASCE Journal of Geotechnical and Geoenvironmental Engineering, EERI Earthquake Spectra, Soil Dynamics and Earthquake Engineering, ASTM Geotechnical Testing Journal, Canadian Geotechnical Journal, Bulletin of the Seismological Society of America, Geophysics Journal International, Soil and Foundations

#### Media Articles/Interviews

- "NHERI@UTexas Microtremor Stations: Revolutionary Work in Garner Valley", <u>Spring 2017 NHERI Quarterly Publication</u>, April 7, 2017, <a href="https://www.designsafe-ci.org/community/news/2017/nheriutexas-microtremor-stations/">https://www.designsafe-ci.org/community/news/2017/nheriutexas-microtremor-stations/</a>
- "Earthquake simulation in Longview helps scientists understand "the Big One"", <u>The Daily News</u>, June 24, 2016, (<a href="http://tdn.com/news/local/earthquake-simulation-in-longview-helps-scientists-understand-the-big-one/article\_6fdb2b99-dc9b-5b7c-9ce9-cff5a638726c.html">http://tdn.com/news/local/earthquake-simulation-in-longview-helps-scientists-understand-the-big-one/article\_6fdb2b99-dc9b-5b7c-9ce9-cff5a638726c.html</a>).
- "Using T-Rex to Test for The Big One", <u>KOIN6 News (CBS affiliate)</u>, June 24, 2016, (http://koin.com/2016/06/24/using-t-rex-to-test-for-the-big-one/).
- "This Truck Shakes the Ground So Hard it can Simulate Earthquakes", <u>Gizmodo</u>, August 28, 2014, (<a href="http://gizmodo.com/this-truck-shakes-the-ground-so-hard-it-can-simulate-ea-1627679288">http://gizmodo.com/this-truck-shakes-the-ground-so-hard-it-can-simulate-ea-1627679288</a>).
- "Lessons from a Portable Earthquake Machine", The Boston Globe, August 27, 2014, (<a href="http://www.bostonglobe.com/ideas/2014/08/27/meet-rex-portable-earthquake-machine/QtEf9Z9wzxNYCE7k6K9J1J/story.html">http://www.bostonglobe.com/ideas/2014/08/27/meet-rex-portable-earthquake-machine/QtEf9Z9wzxNYCE7k6K9J1J/story.html</a>).
- "UT Engineers Shake Up Earthquake Research in New Zealand", <u>Alcalde: The Official Publication of the Texas Exes</u>, August 6, 2013, (<a href="http://alcalde.texasexes.org/2013/08/ut-engineers-shake-up-earthquake-research-in-new-zealand/">http://alcalde.texasexes.org/2013/08/ut-engineers-shake-up-earthquake-research-in-new-zealand/</a>).
- "Hacking the Planet Earthquakes", <u>The Weather Channel</u>, airdate Thursday, March 21<sup>st</sup>, 2013, 30 minute feature (http://www.weather.com/video/hacking-an-earthquake-35747).
- "T-Rex Takes on Shaky Christchurch", <u>University of Texas Cockrell School of Engineering</u>, February 4, 2013, (<a href="http://www.engr.utexas.edu/features/7536-brady-cox-trex-shaker-truck">http://www.engr.utexas.edu/features/7536-brady-cox-trex-shaker-truck</a>).
- "Quake-making Truck Heads to Christchurch", <u>The New Zealand Herald</u>, January 31, 2013, http://www.nzherald.co.nz/nz/news/article.cfm?c\_id=1&objectid=10862613
- "Earthquake Truck Shakes to Test the Ground", <u>The Weather Channel</u>, January 30, 2013, <a href="http://www.weather.com/news/trex-earthquake-truck-20130130">http://www.weather.com/news/trex-earthquake-truck-20130130</a>
- "T-Rex Takes on Shaky Christchurch", George E Brown Jr., Network for Earthquake
   Engineering Simulation, January 25, 2013,
   (https://dev.www.purdue.edu/newsroom/purduetoday/releases/2013/Q1/t-rex-takes-on-shaky-christchurch1.html).
- "On Shaky Ground: Building a Safer Future in Haiti", <u>American Museum of Natural History</u>

  <u>Science Bulletins</u>, July 12, 2011, played in the halls of the American Museum of Natural History, (<a href="http://www.amnh.org/explore/science-bulletins/(watch)/earth/documentaries/on-shaky-ground-building-a-safer-future-in-haiti)."
- "Designing a Quake-Resistant Building Starts at the Soil", <u>VOANews.com</u>, March 28, 2011, (<a href="http://www.voanews.com/learningenglish/home/Designing-a-Quake-Resistant-Building-Starts-at-the-Soil--118770234.html">http://www.voanews.com/learningenglish/home/Designing-a-Quake-Resistant-Building-Starts-at-the-Soil--118770234.html</a>).
- "UA Quake Guru Unsure of Plans... Cox Awaits Summons to Japan", *Arkansas Democrat Gazette*, March 12, 2011.
- "Seismic Impact Provides Hard Data", *University of Arkansas Research Frontiers*, Fall 2010.
- "Arkansas on Pace for More Than 100 Earthquakes in October", <u>KFSM-TV News (CBS affiliate)</u>, October 13, 2010.

- "Faults or Even Drilling Might Explain Earthquake, Experts Say", <u>Daily Oklahoman</u>, Oklahoma City, OK, October 13, 2010.
- "That Sinking Feeling (Soil Liquefaction)", <u>TVNZ News</u>, Christchurch, New Zealand, September 9, 2010.
- "Dissecting an Earthquake", <u>Arkansas 180 Production</u>, February 2010, posted on YouTube, (<a href="http://www.youtube.com/watch?v=AZXfmVriO-s">http://www.youtube.com/watch?v=AZXfmVriO-s</a>).
- "Rebuilding from the Bottom Up", <u>Science</u>, Vol. 327 pp. 638-639, February 5, 2010.
- "UA Experts in Haiti Collecting Quake Data", <u>Arkansas Democrat Gazette</u>, February 1, 2010.
- "Another Big Quake in Caribbean is Unlikely, but Possible", *The Miami Herald*, January 21, 2010.
- "Understanding Why Haiti's Buildings Collapsed", *Newsweek.com*, January 21, 2010 (http://www.newsweek.com/2010/01/20/why-the-palace-fell.html).
- "Engineers Assess Damage from Haiti Earthquake", <u>VOANews.com</u>, January 21, 2010, (<a href="http://www.voanews.com/english/news/science-technology/earthquake-engineering-21Jan10-82279807.html">http://www.voanews.com/english/news/science-technology/earthquake-engineering-21Jan10-82279807.html</a>)
- "Scientists: Significant New Madrid Earthquake Possible", <u>4029-TV News (ABC affiliate)</u>, January 15, 2010.
- "UofA Forging Earthquake Research", KFSM-TV News (CBS affiliate), January 13, 2010.