

Curriculum Vitae: Heather L. Lehto, Ph.D.

Department of Physics and Geosciences
Angelo State University
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EDUCATION

- 2007-2012 **Ph.D. in Volcano Seismology**
University of South Florida, Tampa, FL
Advisor: Diana C. Roman, Ph.D.
Dissertation title: "Investigation of Stress Changes at Mount St. Helens, Washington, and Receiver Functions at the Katmai Volcanic Group, Alaska, with an Additional Section on the Assessment of Spreadsheet-based Modules.
- 2005-2007 **Master of Science in Volcanology**
University of South Florida, Tampa, FL
Advisor: Charles B. Connor, Ph.D.
Thesis Title: "Self-Potential Anomalies and CO₂ Flux at Active Volcanoes: Insights from Time and Spatial Series at Masaya, Telica, and Cerro Negro, Nicaragua"
- 1999-2001 **Bachelor of Science in Geological Sciences**
University of California Santa Barbara, Santa Barbara, CA

TEACHING EXPERIENCE

- Angelo State University, San Angelo, TX*
Assistant Professor, Fall 2013-Present
Instructor, Fall 2012- Summer 2013
- University of South Florida, Tampa, FL*
Lecturer, Fall 2008-Spring 2011
Laboratory Instructor, Fall 2005-Summer 2008
- Hillsborough Community College, Plant City, FL*
Adjunct Lecturer, Fall 2011 – Summer 2012

PUBLICATIONS

- 2013 **Lehto, H.L.**, Roman, D.C., & Moran, S.C. Source mechanisms of persistent shallow earthquakes during eruptive and non-eruptive periods. *Journal of Volcanology and Geothermal Research*, 256, 1-15.
- 2012 **Lehto, H.L.** and Vacher, H.L. SSAC 4: Evidence that Spreadsheet-based Modules Teach Math and that Spreadsheets do not Hinder Learning in an Introductory Physical Geology Course, *Numeracy*, 5, 2, 5.
- 2012 Pearson, S.C.P., Kiyosugi, K., **Lehto, H.L.**, Saballos, J.A., Connor, C., Sanford, W. Integrated Geophysical and Hydrothermal Models of Flank Degassing and Fluid Flow at Masaya Volcano, Nicaragua, *GEOCHEMISTRY, GEOPHYSICS, GEOSYSTEMS*, 13, 5.
- 2010 **Lehto, H. L.**, Roman, D. C., & Moran, S. C. Temporal Changes in Stress Preceding the 2004-2008 Eruption of Mount St. Helens, Washington, *Journal of Volcanology and Geothermal Research*, 198, 1-2, 129-142.

2009 **Lehto, H. L.** How Much Water is in Crater Lake? – Using Prisms to Calculate Volume. Spreadsheets Across the Curriculum module, SSACgnp2009.GB1601.HL1.1. http://serc.carleton.edu/sp/ssac/national_parks/examples/crater_lake_volume.html

ABSTRACTS

- 2017 Naegeli, K. M., Kintzel, M. C., Ramon, I. A., **Lehto, H. L.** Investigation of Longitudinal Cracks Along Kickapoo Dam, Bronte, TX Using Resistivity Surveys, GSA Annual Meeting, Seattle, WA.
- 2017 Ward, J. W., Langmanson, M., **Lehto, H.** Including Stakeholders in Hydro-Geophysics Education: ASU Industry Appreciation Days 2016, GSA Annual Meeting, Seattle, WA.
- 2017 Graves, W., Ramon, I. A., **Lehto, H. L.**, Understanding the geometry of the mafic sills within Dagger Mountain using magnetometry, Angelo State University Undergraduate Research Symposium, San Angelo, TX.
- 2016 **Lehto, H. L.**, Ward, J. W. Inquiry-based learning transitions to interdisciplinary research at a small primarily undergraduate institution, AGU Annual Meeting, San Francisco, CA
- 2016 Reed, W. P., Foust, M., **Lehto, H. L.**, Ward, J. W., Payne, J. Evaluation of Geophysical Techniques in the Determination of a Salt Contaminated Environment, AAPG Southwest Section Meeting, Abilene, TX.
- 2015 Raines, L. N., **Lehto, H.L.**, Abnormal Earthquake Behavior in the High Velocity Zones Beneath Italy, Angelo State University Undergraduate Research Symposium, San Angelo, TX.
- 2013 **Lehto, H.L.**, Vacher, H.L., Assessment of Spreadsheet -based Modules in a Physical Geology Course with Emphasis on the Effectiveness of the use of Excel, AGU Annual Meeting, San Francisco, CA.

AWARDS

- Faculty Excellence in Leadership/Service Nominee, ASU, 2017
- Faculty Excellence in Leadership/Service Nominee, ASU, 2015
- Outstanding Teaching Assistant, Department of Geology, USF, 2009
- Outstanding Teaching Assistant, Department of Geology, USF, 2011

PROFESSIONAL ACTIVITIES

- Faculty advisor for Society of Physics Students Annual Road Tour, Summer 2016
- Served as faculty liaison for Girl Scout STEM Conference, 2014-Present
- Participated in Science Days Outreach by teaching elementary school kids about volcanoes
- Presented workshops on various geoscience topics for multiple school and camp groups
- Served as Science Advisor on Teacher Quality Grant with Christine Purkiss, Ph.D., taught 4-5 grade school teachers about various aspects of geology, Summer 2014 and 2015
- Volunteer for ASU Cat Coalition
- Served on Alumni Committee for USF RAD Fellowship, 2013-Present
- Webmaster for ASU Geosciences

PROFESSIONAL MEMBERSHIPS

- American Geophysical Union
- Geological Society of America
- Seismological Society of America
- Association for Women Geoscientists
- National Education Association
- American Association of University Women
- Sigma Gamma Epsilon