

Jeffrey H. Templeton, Ph.D.

Associate Professor of Geology
Division of Natural Science and Mathematics
Western Oregon University
Monmouth, Oregon 97361
(503) 838-8858
templej@wou.edu

EDUCATION

- Doctor of Philosophy, Geology** 1998
Oregon State University, Corvallis, Oregon
Dissertation: Petrology of the Reversely Zoned Mickey Pass Tuff, West-central Nevada
- Master of Science, Geology** 1991
Texas Christian University, Fort Worth, Texas
Thesis: Submarine Volcanism and Volcaniclastic Sedimentation in a Jurassic
Island-arc Environment, Northern Sierra Nevada, California
- Bachelor of Science, Geology** 1989
The Ohio State University, Columbus, Ohio

EMPLOYMENT AND WORK EXPERIENCE

- Associate Professor of Geology** 2003-Present
Western Oregon University, Monmouth, Oregon
- ◆ Full responsibility for all teaching related duties for upper-division Geology courses, which include Introduction to Petrology, Structural Geology, Energy and Mineral Resources, Volcanology, and Field Studies in Volcanology, for lower-division courses in Physical Geology and Earth System Science
 - ◆ Active member of the WOU faculty, which includes currently serving as Chair of Earth and Physical Science Department, Coordinator of Program for Undergraduate Research Experiences, responsibility for scheduling and staffing of Earth Science courses, leading field trips, advising Earth Science and Geology majors and minors, and supervising undergraduate research projects
- Assistant Professor of Geology** 1998-2003
Western Oregon University, Monmouth, Oregon
- ◆ Full responsibility for all teaching related duties for upper-division Geology courses, which included Introduction to Petrology, Structural Geology, Geology of Mineral and Energy Resources, Volcanology, and Field Studies in Volcanology,

for lower-division courses in Physical and Historical Geology, and for lower-division Earth System Science courses

- ◆ Active member of the WOU faculty, which has included serving as Chair of two Geology Position Search Committees, Chair of Division Curriculum Committee, member of University Curriculum Committee, member of the WOU Center for Teaching and Learning Advisory Group, development of new Geology and Earth Science curriculum, responsibility for scheduling and staffing of Geology and General Science courses, leading field trips, advising Earth Science and Geology majors and minors, and supervising undergraduate research projects

Lecturer 1995-1998

Western Oregon University, Monmouth, Oregon

- ◆ Full responsibility for all teaching related duties for upper-division Geology courses, which included Mineralogy, Mineral Resources, and Structural Geology, lower-division Physical and Historical Geology courses, and lower-division Earth Science, Chemistry, and Physics courses
- ◆ Advised Earth Science and Geology majors and minors and supervised undergraduate research projects

Teaching Assistant 1991-1994

Oregon State University, Corvallis, Oregon

- ◆ Instructed Volcanology, Igneous Petrology, Optical Mineralogy, Geologic Field Methods, and Introductory Geology laboratory classes

Field Geology Instructor June-July 1992, 1993, 1994, 1995, 2004, 2005

Oregon State University Geology Field Camp, Mitchell, Oregon

- ◆ Trained and supervised students in field mapping techniques in central Oregon

Laboratory Assistant 1992-1994

Oregon State University Radiation Center, Corvallis, Oregon

- ◆ Operated and monitored Ge(Li) and LEP detectors for INAA Research Group

Field Geologist August-September 1993

Southwest Research Institute, San Antonio, Texas

- ◆ Study of a mafic dike complex and wall rock interactions in southern Nevada

Teaching Assistant 1989-1991

Texas Christian University, Fort Worth, Texas

- ◆ Taught Physical and Environmental Geology laboratory classes

GRANTS, AWARDS, AND HONORS

- National Science Foundation; Course, Curriculum, and Laboratory Improvement-Adaptation and Implementation Grant (\$80,924) – 2002-2005
- Western Oregon University Faculty Development Research Grants – 1999; 2001; 2002; 2005; 2007; 2010
- Western Oregon University Faculty Development Travel Grants – 1999; 2000; 2002; 2003; 2004; 2005; 2009; 2010; 2011
- WOU Preparing Tomorrow's Teachers to Use Technology (PT3) Faculty Grants – Spring 2001 and Fall 2001
- Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Faculty Fellow – 1999-2000; 2001-2002
- The Honor Society of Phi Kappa Phi – 1995
- Chevron Graduate Research Awards – 1994; 1995
- Geological Society of America Research Grant – 1990
- Adkins Grant for Graduate Research, Texas Christian University – 1990
- Sigma Gamma Epsilon, Earth Science Honorary – 1988
- Eagle Scout – 1982

INSTITUTIONAL AND PROFESSIONAL SERVICE

- Chair, WOU Department of Earth and Physical Science – 2003-Present
- WOU Program for Undergraduate Research Experiences Executive Committee – 2006-Present
- WOU Academic Requirements Committee – 2011-Present
- WOU Academic Excellence Showcase Planning Committee – 2006-Present
- Division of Natural Science and Mathematics Personnel Review Committee – 2003-2008; 2010-Present
- Campus Representative for Geological Society of America – 2000-Present
- Coordinator, Earth System Science and Geology courses – 1998-Present
- Advisor, Earth Science and Geology Majors and Minors – 1997-Present
- Coordinator, WOU Program for Undergraduate Research Experiences – 2006-2009
- Chair, WOU Academic Excellence Showcase Planning Committee – 2006-2009
- WOU LACC/General Education Review Committee – 2007-2010
- Chair, Natural Science and Mathematics Personnel Review Committee – 2006-2007
- WOU Program for Undergraduate Research Experiences Task Force – 2004-2006
- Search Committee, Director of Center for Teaching and Learning – 2004-2005
- Search Committee, Director of Academic Advising and Learning Center – 2004-2005

- WOU Center for Teaching and Learning Advisory Group – 2000-2005
- WOU Academic Information Services Committee – 2002-2003
- Chair, Natural Science Division Curriculum Committee – 1999-2003
- Registration Coordinator, GSA Cordilleran Section Meeting – 2001-2002
- WOU Curriculum Committee – 2000-2002
- Chair, Paleontology/Sedimentary Geology Position Search Committee – 1998-1999
- Chair, GIS/Environmental Geology Position Search Committee – 1998-1999

PEER-REVIEWED PUBLICATIONS

- Templeton, Jeffrey**, 2012, Petrographic Problem-Solving Assignments: Science Education Resource Center, Teaching Petrology in the 21st Century Collection: http://serc.carleton.edu/NAGTWorkshops/petrology/teaching_examples/58133.html.
- Winningham, Robert G., **Templeton, Jeffrey H.**, Dutton, Bryan E., and Scheck, Stephen H., 2009, A grassroots, faculty-driven initiative to institutionalize undergraduate research: The ins and outs of cultivating administrative support: Council on Undergraduate Research Quarterly, v. 30, p. 29-34.
- Schepige, Adele C., and **Templeton, Jeffrey H.**, 2005, Development of a standards-based Earth system science curriculum for K-8 pre-Education majors, *in* Swanson, E., and Smith, D., eds., Preparing Future Science and Mathematics Teachers: Faculty Write about CETP Innovations on Campuses Today: National Science Foundation, Collaborative for Excellence in Teacher Preparation, p. 65-67.
- Templeton, Jeffrey, H.**, and Hanson, Richard, E., 2003, Jurassic submarine arc-apron deposits and associated magma/wet-sediment interaction, northern Sierra Nevada, California: Journal of Volcanology and Geothermal Research, v. 128, p. 299-326.
- Hanson, R.E., Girty, G.H., Girty, M.S., Hargrove, U.S., Harwood, D.S., Kulow, M.J., Mielke, K.L., Phillipson, S.E., Schweickert, R.A., and **Templeton, J.H.**, 1996, Paleozoic and Mesozoic arc rocks in the Northern Sierra terrane, *in* Girty, G. H., Hanson, R. E., Harwood, D. S., and Schweickert, R. A., eds., The Northern Sierra Terrane and Associated Mesozoic Magmatic Units: Implications for the Tectonic History of the Western Cordillera: Pacific Section SEPM, Book 81, p. 25-56.
- Hanson, R.E., Girty, G.H., Harwood, D.S., Schweickert, R.A., **Templeton, J.H.**, Yoshinobu, A.S., Wracher, M.D., and Girty, M.S., 1993, Devonian and Jurassic volcano-plutonic associations in the Northern Sierra terrane: Implications for arc evolution and Mesozoic deformation, *in* Lahren, M. M., Trexler, J. H., Jr., and Spinosa, C., eds., Crustal Evolution of the Great Basin and Sierra Nevada: Cordilleran/Rocky Mountain Section, Geological Society of America Guidebook, Department of Geological Sciences, University of Nevada, Reno, NV, p. 97-128.

ABSTRACTS

- Fisher, Kara, and **Templeton, Jeffrey H.**, 2012, Investigating Petrologic Linkages between Dacitic Ash-Flow Tuffs at Newberry Volcano through Analysis of Plagioclase Phenocrysts: Association of Environmental & Engineering Geologists 55th Annual Meeting Program with Abstracts, *in press*.
- Templeton, Jeffrey H.**, 2010, Evidence for magma mingling at Newberry Volcano, Oregon: Eos Trans. AGU, American Geophysical Union Fall Meeting, Abstract V43C-2383.
- Templeton, Jeffrey H.**, Winningham, Robert G., Dutton, Bryan E., and Scheck, Stephen H., 2010, PURE@WOU: Developing and implementing the Program for Undergraduate Research Experiences at Western Oregon University: Council on Undergraduate Research National Conference Proceedings.
- Templeton, Jeffrey H.**, 2009, Geochemical constraints on the evolution of a subduction-related, rear-arc continental magma system: Newberry Volcano, central Oregon: Geological Society of America Abstracts with Programs, v. 41, p. 63.
- Templeton, Jeffrey H.**, 2009, Thin section problem solving assignments: An inquiry-based, active-learning strategy for undergraduate Earth Science students: Proceedings of the Oregon Academy of Science, v. LXVIII, p. 54-55.
- Templeton, Jeffrey H.**, 2007, Petrology of ash-flow tuffs on the east flank of Newberry Volcano, central Oregon: Framework for understanding the evolution of a silicic magma system: Proceedings of the Oregon Academy of Science, v. XLIII, p. 33-34.
- Taylor, Stephen, **Templeton, Jeffrey**, Pirot, Rachel, Budnick, Jeffrey, Drury, Chandra, Noll, Katherine, Fisher, Jamie, Faletti, Anthony, Giles, Denise, and Hale, Diane, 2007, Cinder cone analysis at Newberry Volcano, Oregon: A synthesis of results from the Earth Science Program for undergraduate research at Western Oregon University: Geological Society of America Abstracts with Programs, v. 39.
- Templeton, Jeffrey, H.**, and Mills, James, G., 2005, Insights into shallow emplacement of a mafic dike system, Fortification Hill, northwestern Arizona: Geological Society of America Abstracts with Programs, v. 37, p. 291.
- Taylor, Stephen B., **Templeton, Jeffrey H.**, Budnick, Jeffrey, Drury, Chandra, Fisher, Jamie, and Runyan, Summer, 2005, Spatial analysis of cinder cone distribution at Newberry Volcano, Oregon: Implications for structural control on eruptive process: Geological Society of America Abstracts with Programs, v. 37, p. 431.
- Templeton, J.H.**, Hanson, R.E., Hargrove, U.S., Ruff, K.L., 2005, Regional Jurassic submarine arc-apron complex in the northern Sierra Nevada, California: Eos Trans. AGU, v. 86, Joint Assembly Supplement, Abstract V52A-05
- Templeton, Jeffrey H.**, 2004, Petrologic analysis of the Tepee Draw Tuff, Newberry Volcano, Oregon: Preliminary constraints on compositional zoning in the pre-eruptive magma chamber: Geological Society of America Abstracts with Programs, v. 36, p. 8.
- Taylor, S.B., **Templeton, J.H.**, and Giles, D.E.L., 2003, Cinder cone morphometry and volume distribution at Newberry Volcano, Oregon: Implications for age relations and structural control on eruptive process: Geological Society of America Abstracts with Programs, v. 35, p. 421.

- Giles, D.E.L., Taylor, S.B., and **Templeton, J.H.**, 2003, Compilation of a digital geologic map and spatial database for Newberry Volcano, Central Oregon: A framework for comparative analysis: Geological Society of America Abstracts with Programs, v. 35, p. 189.
- Templeton, Jeffrey H.**, and Schepige, Adele C., 2002, Earth Systems Science – An innovative approach to teaching undergraduate general science: Geological Society of America Abstracts with Programs, v. 34, p. 12-13.
- Templeton, Jeffrey H.**, 2000, High precision, Ar-Ar geochronology of the Mickey Pass Tuff, west-central Nevada: Constraints on the evolution of a continental silicic magma system through time: Geological Society of America Abstracts with Programs, v. 32, p. 496.
- Matson, B.M., **Templeton, J.H.**, and Schepige, A., 2000, Development of an integrated Earth and Physical Science Course for non-science majors: Proceedings of the Oregon Academy of Science, 58th Annual Meeting, Abstracts with Programs, v. 36, p. 38.
- Templeton, Jeffrey H.**, and Grunder, Anita L., 1999, Petrologic constraints on the evolution of a continental silicic magma chamber: Mickey Pass Tuff, West-central Nevada: Geological Society of America Abstracts with Programs, v. 31, p. 353.
- Templeton, Jeffrey H.**, 1996, Petrology of the Mickey Pass Tuff, western Nevada: Origin of reverse compositional zoning and implications for extensional tectonics: Geological Society of America Abstracts with Programs, v. 28, p. 116-117.
- Templeton, J.H.**, Hanson, R.E., and Harwood, D.S., 1993, Geochemical tectonomagmatic discrimination of metamorphosed Middle Jurassic volcanic rocks, northern Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 25, p. 154.
- Templeton, J.H.**, and Hanson, R.E., 1991, Extensive magma/wet sediment interaction in a Jurassic island-arc setting, northern Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 23, p. 395.
- Templeton, J.H.**, and Hanson, R.E., 1991, Volcanology and stratigraphic evolution of a Jurassic island-arc sequence, northern Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 23, p. 103.

PROFESSIONAL DEVELOPMENT

Workshops:

- August 7-10, 2011, *Teaching Mineralogy, Petrology, and Geochemistry in the 21st Century: On the Cutting Edge*, Professional Development for Geoscience Faculty Workshop, Univ. of Minnesota, Minneapolis.
- June 19-22, 2010, *Council on Undergraduate Research National Conference*: Weber State Univ., Ogden, Utah.
- October 13-15, 2006, *Institutionalizing Undergraduate Research*: Council on Undergraduate Research Institute, Harvey Mudd College, Claremont, California.
- October 16, 2005, *Designing Effective Geoscience Education Research: Qualitative and Quantitative Methods*: Geological Society of America K-16 Education Workshop, Salt Lake City, Utah.
- July 21-25, 2002, *Oregon Collaborative for Excellence in the Preparation of Teachers WRITE ON! Retreat*: Menucha Center, Corbett, Oregon.

June 29-July 2, 2002, *Digital Library for Earth System Education 3rd Annual Meeting*: Cornell University, Ithaca, New York.

July 19-30, 1999, *Oregon Collaborative for Excellence in the Preparation of Teachers Summer Institute*: Two-week comprehensive workshop for Higher Education faculty that focused on the preparation of teachers in the state of Oregon, University of Portland.

Field Trips:

August 11-13, 2011, *An Excursion to the Classic Bedrock Localities of northern Minnesota with a Focus on Teaching and Learning in the Field*: On the Cutting Edge, Teaching Mineralogy, Petrology and Geochemistry Post-Workshop Fieldtrip

May 30-June 2, 2010, *Geologic History, Eruptive Stratigraphy, and Ongoing Volcanic Unrest at Long Valley Caldera and Mammoth Mountain*: Geological Society of America Cordilleran Section Meeting Fieldtrip.

May 1-4, 2005, *Miocene Volcano-Plutonic Systems, Southern Nevada: A Window into Upper Crustal Magmatic Processes*: Geological Society of America Cordilleran Section Meeting Fieldtrip.

May 2, 2004, *Basalt Emergent Volcanoes and Maars, Sinkers Butter-Snake River Canyon, Idaho*: Geological Society of America Cordilleran Section Meeting Fieldtrip.

November 10-12, 2000, *Paleozoic Subduction Complex and Paleozoic-Mesozoic Volcano-Plutonic Assemblages in the Northern Sierra Terrane*: Geological Society of America National Meeting Fieldtrip.

September 15-17, 2000, *What's New at Newberry Volcano, Oregon*: Friends of the Pleistocene Pacific Northwest Cell Fieldtrip.

April 21, 1996, *Geologic History of Mt. Hood Volcano*: Geological Society of America Cordilleran Section Meeting Fieldtrip.

May 22-24, 1993, *Cenozoic Magmatism and Tectonism across the Walker Lane, Nevada*: Geological Society of America Cordilleran Section Meeting Fieldtrip.

April 23-25, 1993, *The Paleoseismic Record of Subsidence, Tsunamis, Liquefaction and Landslides from the Northern Oregon Coast: Evidence of Subduction Zone Seismicity in the Central Cascadia Margin*: Friends of the Pleistocene Pacific Cell Fieldtrip.

May 13-15, 1992, *Sedimentology and Volcanology of Neogene Continental Volcaniclastic Rocks, Deschutes Basin, Central Oregon*: Geological Society of America Cordilleran Section Meeting Fieldtrip.

March 28-29, 1991, *Geology of the Sutter Buttes, Northern California*: Geological Society of America Cordilleran Section Meeting Fieldtrip.

PROFESSIONAL AFFILIATIONS

Geological Society of America; American Geophysical Union; National Association of Geoscience Teachers; Council on Undergraduate Research