

**SAN JOSE STATE UNIVERSITY DEPARTMENT OF GEOLOGY FACULTY AND
STUDENT ACTIVITY REPORT (SEPTEMBER 2011-DECEMBER 2012)**

***SJSU Student**

PUBLISHED PAPERS:

Burbank, D.W., Bookhagen, B., **Gabet, E.J.**, and Putkonen, J., 2012, Modern climate and erosion in the Himalayas: *Comptes Rendues Geosciences*, v. 344, p. 610-626.

Constantine, J., Schelhaas M., **Gabet, E.J.**, and Mudd S.M., 2012, Limits of windthrow-driven hillslope sediment flux due to varying storm frequency and intensity: *Geomorphology*, v. 175/176, p. 66-73.

Mudd, S.M., Yoo, K., and **Gabet, E.J.**, 2012, Influence of chemical weathering on hillslope forms, *in* R. Marston and M. Stoffel (eds), *Treatise on Geomorphology*: Amsterdam, Elsevier.

Gabet, E.J., and **Mendoza, M.***, 2012, Particle transport over rough hillslope surfaces by dry ravel: Experiments and simulations with implications for nonlocal sediment flux: *Journal of Geophysical Research*, v. 117, doi:10.1029/2011JF002229.

Hendricks, J.R., 2012, Larvae, dispersal ability, and the evolution and persistence of species: examples from marine snails: *Evolution: Education and Outreach*, v. 5, p. 534-540

Colombini, L.L., Miller, C.F., Gualda, G.A.R., Wooden, J.L., and **Miller, J.S.**, 2011, Spinel and zircon in the Highland Range volcanic sequence (Miocene, southern Nevada, USA): elemental partitioning, phase relations, and influence on evolution of silicic magma: *Mineralogy and Petrology*, v. 102, p. 29-50.

Miller, J.S., **Miller, R.B.**, and Stock, G., 2012, Day 3, Sentinel Granodiorite, Yosemite Creek Granodiorite and Yosemite Valley Intrusive Suite: western host units of the Tuolumne Intrusive Complex, *in* Paterson, S.R., Lackey, J.S., Memeti, V., **Miller, R.B.**, **Miller, J.S.**, Mundil, R., and Putirka, K., *convenors*, Formation of the Sierra Nevada batholith: Magmatic and tectonic processes and their tempos: Geological Society of America Field Forum Field Trip Guidebook, p. 3-1-3-15.

Memeti, V., Paterson, S.R., Economos, R., Erdman, S., and **Miller, R.B.**, 2012, Geology of the Benson Lake pendant, Western Yosemite National Park, Central Sierra Nevada: Geological Society of America Digital Map and Chart Series 13, doi:10.1130/2012 DMCHO13.

Rioux, M., Bowring, S., Kelemen, P., Gordon, S., Dudas, F., and **Miller, R.**, 2012, Rapid crustal accretion and magma assimilation in the Oman-U.A.E. ophiolite: High precision U-Pb zircon geochronology of the gabbroic crust: *Journal of Geophysical Research*, v. 117, doi:10.1029/2012JB009273.

Paterson, S.R., Okaya, D., Memeti, V., Economos, R., and **Miller, R.B.**, 2011, Magma addition and flux calculations of incrementally constructed magma chambers in continental margin arcs: Combined field, geochronologic, and thermal modeling studies: *Geosphere*, v. 7. p. 1439-1468; doi: 10.1130/GES00696.1.

Povinec, P.P., Burnett, W.C., Beck, A., Bokuniewicz, H., Charette, M., Gonneca, M.E., Groening, M., Ishitobi, T., Kontar, E., Liong Wee Kwong, L., Marie, D.E.P., Moore, W.S., **Oberdorfer, J.A.**, Peterson, R., Ramessur, R., Rapaglia, J., Stieglitz, T., and Top, Z., 2012, Isotopic, geophysical and biogeochemical investigation of submarine groundwater discharge: IAEA-UNESCO intercomparison exercise at Mauritius Island: *Journal of Environmental Radioactivity*, v. 104, p. 24-45.

***Wintzer, N.**, 2012, Deformational episodes recorded in the Skagit Gneiss Complex, North Cascades, Washington, USA: *Journal of Structural Geology*, v. 42, p. 127-139.

BOOKS:

Messina, P. et al., 2013, Next Generation Science Standards, Achieve, Inc.
<http://www.nextgenscience.org>, 95 p.

Reed, D. L., 2012, *Geology 105 Course Workbook – Course Reader for Geology 105*: 241 p.
(http://oceansjsu.com/105d/workbook_download.html)

MEDIA PUBLICATIONS:

Messina, P., 2012, Television interview for the Travel Channel’s “Mystery of the Monument,” a series highlighting scientific research of natural phenomena in the U.S. National Park sites.

Messina, P., 2011, On-site interview (Death Valley) for an episode of the National Geographic Channel’s “Wild Case Files” series.

Reed, D. L., 2012, Online lectures, *Geology 112, Risks and Hazards of Earthquakes and Volcanoes*, 21 video lectures on YouTube channel; (<http://www.youtube.com/user/oceansjsu1>).

GRANTS AND AWARDS:

Andersen, D.W., 2011, Awarded Honorary Life Membership in Pacific Section Society for Sedimentary Geology (SEPM).

***Buerer, B.**, “Structure, Construction, and Emplacement of Jurassic and Cretaceous Plutons in the Crystal Range, Southwest of Lake Tahoe, CA”, Geological Society of America Research

Grant (\$2,350, 6/1/2012-5/31/2013); recognized as one of top 20 proposals out of >600 submitted.

Hendricks, J.R., “Digitization TCN: Collaborative Research: Digitizing Fossils to Enable New Syntheses in Biogeography - Creating a PALEONICHES-TCN”, National Science Foundation (\$157,975, 7/1/2012 to 6/30/2015).

***Leopold, M.**, “Structure and Construction of the Cretaceous Sonora Pass Intrusive Suite, Sierra Nevada Batholith, California”, Northern California Geological Society (\$1,000, December 2012).

Metzger, E. P., “Improving 6th Grade Climate Literacy Using New Media and Teacher Professional Development”, NASA (\$385,981, 9/01/2011-8/31/2014).

Metzger, E. P., “Bay Area Earth Science Institute”, Chevron (\$106,300, 2010-2012).

Metzger, E.P., “California Alliance for Sustainability (CASE) at SJSU”, Clarence E. Heller Charitable Foundation (\$71,333, 1/15/2012-6/15/13).

Miller, J. S., “Collaborative Research: Supereruptions, Magma Chambers, & Plutonic Residue: Insights from Peach Spring Tuff, significance of sphene”, National Science Foundation (\$150,913, 8/2009-7/2013).

Miller, J. S., “Collaborative Research: Deciphering Sierran Magma Sources and Modes of Diversification Using Trace Element, O, and Hf Isotopic Analyses of Zircon”, National Science Foundation (\$146,011, 3/2010-2/2014).

Miller, J. S., “Collaborative Research: Tectonic Links, Magma Fluxes, and Single Mineral Geochemistry in Plutonic Systems From 5-30 km Depth, North Cascades Core, Washington” (with colleague Bob Miller, SJSU), National Science Foundation (\$171,532, 6/1/2010-5/31/2014).

Miller, R.B., “Collaborative Research: Evaluating the Influence of Eocene Ridge Subduction on Magmatism, Deformation, and Basin Evolution in the Pacific NW”, National Science Foundation (\$96,000, 1/1/2012-12/31/2014).

Miller, R.B., “Collaborative Research: Tectonic Links, Magma Fluxes, and Single Mineral Geochemistry in Plutonic Systems From 5-30 km Depth, Cascades Core, Washington” (with J.S. Miller, SJSU), National Science Foundation (\$171,532, 6/1/2010–5/31/2014).

Reed, D.L., 2012, “Using COAST Research to Promote Ocean Science Foundation Through Integrated Video Podcasting, Research Data-Driven Exercises and Social Media: Curriculum Development Across the CSU system, COAST Faculty Research Incentive Program” (\$12,000, 1/1/12-5/31/12).

PUBLISHED ABSTRACTS:

***Dustin, K.N., Miller, R.B.**, and Shea, E., 2012, Intrusive relationships and deformation of mafic and tonalitic rocks in part of the Seven Fingered Jack pluton, North Cascades, Washington: Geological Society of America Abstracts with Programs, v. 44, no. 3, p. 2.

Gabet, E.J., Mudd, S.M., Yoo, K., Hurst, M.D., and Dossetto, A., 2012, Topographic and erosional controls on soil thickness and texture along a ridge in a transient landscape: Abstract EP41D-0827, American Geophysical Union Meeting.

Yoo, K., Weinman, B.A., Mudd, S.M., Hurst, M.D., **Gabet, E.J.**, Singhvi, A.K., and Maher, K., 2012, Soil mixing coupled to soil production and transport on hillslopes: Responses to channel incision, Feather River, California: Abstract EP41D-8026, American Geophysical Union Meeting.

Hendricks, J.R., 2012, *Conus* (cone snail) species diversity in coral reef associated fossil assemblages from the Neogene of the northern Dominican Republic: Geological Society of America Abstracts with Programs, v. 44, no. 7, p. 624.

Hendricks, J.R., 2011, The relationship between local species abundance and larval developmental mode in a remarkable sample of *Conus* (Neogastropoda) from the early Pliocene of the Dominican Republic: Geological Society of American Abstracts with Programs, v. 43, no. 5, p. 208.

Hendricks, J.R., and Dietl, G.P., 2011, A standardized test of the inverse relationship between drilling and repair frequencies: Geological Society of America Abstracts with Programs, v. 43, no. 5, p. 86.

Saupe, E.E., **Hendricks, J.R.**, Halloran, P., and Lieberman, B.S., 2011, Climate change and marine mollusks: a tale of invasions, immigration and extirpation: Geological Society of America Abstracts with Programs, v. 43, no. 5, p. 502.

***Gervais, S. M.** and **Metzger, E.P.**, 2012, A multi-method study of metamorphism and fluid flow through the May Lake interpluton screen, Yosemite National Park, CA: Abstract #V11A-2742, American Geophysical Union Meeting.

Metzger, E.P., Smith, G., Cordero, E. C., and Santone, S., 2012, The California Alliance for Sustainability: A collaborative pilot project to build regional advocacy and leadership for sustainability education, Abstract #ED51E-06, American Geophysical Union Meeting.

Smith, G., Schmidt C., **Metzger, E.P.**, and Cordero, E.C., 2012, Improving 6th Grade Climate Literacy using New Media (CLINM) and teacher professional development, Abstract # ED11E-02, American Geophysical Union Meeting.

***Gervais, S. M.**, and **Metzger, E.P.**, 2011, Preliminary analysis of Borosilicate minerals in pegmatitic leucosomes within aluminous granulites at Ledge Mountain, Central Adirondack Highlands, New York, Abstract #V31F-2594, American Geophysical Union Meeting.

***Johnson, B.M., Miller, J.S.,** Miller, C.F., Wooden, J.L., and Colombini, L.L., 2011, Thermal and compositional evolution of the Mid-Miocene Searchlight magmatic system recorded by zircon: Abstract V43A-2554, American Geophysical Union Meeting.

Lackey, J.S., **Miller, J.S.**, Murphy, B.S., Coleman, D.S., Schmitt, A., and Davies, G.R., 2011, Sources and assembly of the John Muir intrusive suite, Sierra Nevada, USA: Single zircon oxygen and hafnium isotope records: Abstracts VII Hutton Symposium on Granites and Related Rocks, Avila, Spain, p. 85.

***Ryan, M., Miller, J.S.,** Miller, C.F., Bromley, S., Davies, G.R., and Schmitt, A.K., 2011, Mixing and melt sources in the Miocene Aztec Wash pluton (Nevada, USA) as revealed by zircon Hf and O and whole rock Sr, Nd, and Hf isotopes: Abstract V53B-2605, American Geophysical Union Meeting.

Miller, J.S., Lackey, J.S., Memeti, V., Hirt, W.H., and Wooden, J.L., 2011, Geochronologic, isotopic, and trace element constraints on zircon recycling in Sierra Crest Intrusive Suites, Sierra Nevada Batholith, USA: Abstract V51H-01, American Geophysical Union Meeting (*Invited*).

Miller, C., Pamukcu, A.S., Ferguson, C.A., Carley, T.L., Gualda, G.A.R., Wooden, J.L., McIntosh, W.C., Lidzbarski, M.I., **Miller, J.S.**, and McDowell S.M., 2012, Peach Spring Tuff, Arizona-California-Nevada, USA: generating an isolated supereruption: Mineralogical Magazine, v. 76, p. 2109.

Miller, C.F., Frazier, W.O., McDowell, S.M., Pamukcu, A.S., Carley, T.L., Gualda, G.A.R., **Miller, J.**, Ferguson, C.A., Fisher, C.M., and Vervoort, J.D., 2012, Peach Spring Tuff, Az-Ca-Nv: Supereruption of a stratified, mush-based magma chamber: Geological Society of America Abstracts with Programs, v. 44, no. 7, p. 320.

MacDonald, J.H. Jr, **Miller, J.S.**, Dragovich, J.D., **Miller, R.B.**, and Harper, G.D., 2012, Detrital zircon age populations and geochemistry of selected Late Jurassic sedimentary basins in the North American Cordillera: Links Between the Klamath and Cascade Mountains: Geological Society of America Abstracts with Programs, v. 44, no. 7, p. 383.

Frazier, W.O., Miller, C.F., Fisher, C., **Miller, J.S.**, McDowell, S.M., Pamukcu, A.S., Gualda, G.A.R., Vervoort, J.D., and ***Overton, S.**, 2012, Peach Spring Tuff, Az-Ca-Nv: petrochemical constraints on generation of supereruption magma: Geological Society of America Abstracts with Programs, v. 44, no. 7, p. 321.

***Lidzbarski, M., Miller, J.,** Miller, C., Wooden, J.L., Vazquez, J.A., Pamukcu, A.S., Carley, T.L., and Gualda, G.A.R., 2012, Geochronology and trace element analysis of Peach Spring Tuff zircons and their bearing on growth of the Peach Spring Tuff magma chamber and eruption: Geological Society of America Abstracts with Programs, v. 44, no. 3, p. 60.

***Lidzbarski, M.I.**, Mundil, R., **Miller, J.S.**, and Vazquez, J.A., 2012, Comparing pre- and post-chemical abrasion ages for Miocene Peach Springs Tuff zircon from ID-TIMS and SIMS analyses: Abstract V23A-2788, American Geophysical Union Meeting.

Shea, E.K., Bowring, S.A., **Miller, R.**, and **Miller, J.S.**, 2012, Punctuated growth of a ca 90 Ma shallow-crustal intrusive complex, North Cascades Washington: Geological Society of America Abstracts with Programs, v. 44, no. 7, p.322.

McDowell, S.M., Miller, C.F., Ferguson, C.A., Fisher, C., FRAZIER, W.O., **Miller, J.S.**, Mundil, R., ***Overton, S.**, and Vervoort, J., 2012, Geochemical insights into the evolution of a supereruptive volcanic center: Magmatic precursors and successors of the Miocene Peach Spring Tuff, Southern Black Mountains, Western Az: Geological Society of America Abstracts with Programs, v. 44, no. 7, p. 320.

Miller, C.F., Padilla, A.D.J., Pamukcu, A., Carley, T.L., Claiborne, L.L., Flanagan, D.M., Gualda, G.A.R., Wooden, J.L., **Miller, J.**, and ***Lidzbarski, M.**, 2012, Reinvigorating stagnant silicic magma systems: Volcanic and plutonic views: Geological Society of America Abstracts with Programs, v. 44, no. 3, p. 22.

Miller, J., ***Ryan, M.**, Miller, C., Claiborne, L.L, Johnson, B., Colombini, L.L.S., Wooden, J.L., Walker, B.A. Jr, and ***Lidzbarski, M.**, 2012, Insights into the growth of silicic magma systems from the geochronologic, elemental, and isotopic record of zircon in Miocene plutons and volcanic rocks of the Colorado River extensional corridor, Nevada, 2012: Geological Society of America Abstracts with Programs, v. 44, no. 3, p. 22.

***McKee, R.A.**, and **Miller, J.S.**, 2012, Stratigraphy and structure of the Northern Highland Range, Colorado River extensional corridor, southern Nevada: Geological Society of America Abstracts with Programs, v. 44, no. 3, p. 68.

Chan, C.F., Kent, A.J., **Miller, R.B.**, **Miller, J.S.**, Shea, E.K., and Paterson, S.R., 2012, Construction of a sheeted magmatic complex within the lower arc crust: Insights from the Tenpeak pluton, North Cascades, Washington: Abstract V33B-2864, American Geophysical Union Meeting.

Shea, E.K., Bowring, S.A., **Miller, R.B.**, **Miller, J.S.**, Kent, A.J., and Chan, C.F., 2012, The role of mush in construction of magmatic complexes at different crustal levels: Abstract V43D-2875, American Geophysical Union Meeting.

Shea, E.K., Bowring, S.A., **Miller, R.B.**, and **Miller, J.S.**, 2012, Punctuated growth of a ca 90 Ma shallow-crustal intrusive complex, North Cascades, Washington: Geological Society of America Abstracts with Programs, v. 44, no. 7, p. 322.

Miller, R.B., DeBari, S.M., and Paterson, S.R., 2011, Deep-crustal plutonism and the development of arc magmatic systems: Tenpeak pluton, NW USA: Abstract #T53A-2489, American Geophysical Union.

***Dustin, K.N., Miller, R.B.,** and Shea, E.K., 2011, Intrusive relationships and deformation of mafic and tonalitic rocks in part of the Seven Fingered Jack pluton, North Cascades, Washington: Geological Society of America Abstracts with Programs, v. 44, no. 3, p. 2.

Reed, D.L., 2011, Online resources encourage role-playing in a self-paced learning environment in the ocean sciences, Abstract ED52A-02: American Geophysical Union Meeting (Invited).

Reed, D.L., Edwards, B.E., and Gibbons, H., 2011, Mapping the Arctic: Online undergraduate education using scientific research in international policy: Abstract ED21D-0603, American Geophysical Union Meeting.

TECHNICAL PRESENTATIONS (NO PUBLISHED ABSTRACT):

Gabet, E.J., 2012, UC Davis; If a tree falls in the forest, does it make a soil?

Hendricks, J.R., February 2012, “Integrating paleontological, morphological, and molecular sequence data to reconstruct the phylogenetic positions of extinct species” presented to the Department of Integrative Biology at UC Berkeley (invited presentation).

***Jurek, Anne**, 2012. Identification of past and present dry cleaners as potential sources of Perchloroethylene (PCE) in the Niles Cone Groundwater Basin in southern Alameda County, California: Groundwater Resources Association of California Investigation and Remediation of Dry Cleaner Release Sites.

Miller, R.B., April, 2012, National Science Foundation, GeoPrisms Cascadia Workshop, Portland, OR; presentation on importance of basement on modern Cascadia volcanism and seismicity.

Reed, D.L., 2012, Leveraging COAST research for use in the undergraduate classroom across the CSU, 2012 CSU COAST Annual Meeting, Office of CSU Chancellor, Long Beach, CA, (invited presentation)
http://www.calstate.edu/coast/documents/COAST2012_annual_meeting_don_reed.pdf.

REVIEWING AND EDITORIAL SERVICE:

Gabet, EJ., Associate Editor for Journal of Geophysical Research (handled 7 manuscripts)

Gabet, EJ., Journal reviewer (10 total) for:
 Geology
 Nature

Gabet, E.J., Reviewed 2 proposals for NSF and reviewed 2 proposals for the Council for Earth and Life Sciences

Hendricks, J., Journal reviewer for:
Bulletin of Marine Science
Geology
Paleobiology
Palaeontology
Evolution: Education and Research.

Hendricks, J.R. Peer reviewer of National Science Foundation proposal

Miller, J. S., Journal reviewer for:
Earth and Planetary Science Letters (2)
Journal of Petrology (1)
Geology
Contributions to Mineralogy and Petrology (2),
Geochimica et Cosmochimica Acta (1),
Geological Society of America Books Series.

Miller, J. S., Peer reviewer of National Science Foundation Proposals (3).

Miller, R.B., Geology Editorial Board – 2010-2012

Miller, R.B., Journal reviewer for:
Tectonophysics
Journal of Metamorphic Geology
Geology
Canadian Journal of Earth Sciences

Miller, R.B., Peer reviewer for National Science Foundation proposals

Reed, D.L., Peer review of National Science Foundation proposals (3).

Reed, D.L., Proposal review, M.S. Student Research Award, CSU COAST program.

OTHER PROFESSIONAL SERVICE

Andersen, D.W., 2011, Hosted Bay Area Science Festival at Children's Discovery Museum, San Jose.

Messina, P., October 2011 and May 2012, Desertification and dune migration in northeastern Arizona, in conjunction with the USGS Flagstaff Field Office.

Metzger, E.P. (with SJSU lecturer **LeAnne Teyura** and Will Schweller), July 17-19, 2012, "California Geology and Geologic Hazards" workshop for 30 middle and high school teachers.

Metzger, E.P. (with Eugene Cordero and Grinell Smith), July 10-12, 2012, "Earth Science, Society and Sustainability" workshop for 20 middle and high school teachers and four teacher education faculty from SJSU and CSU East Bay.

Metzger, E.P. (with Eugene Cordero, Grinell Smith, and Cynthia Smith), June 25-29, 2012, "Climate Literacy" workshop for 20 middle school teachers.

Metzger, E.P. (with **Jonathan Hendricks** and lecturer **LeAnne Teruya** of the Geology Department, Chevron geologists, and SJSU faculty from the departments of Meteorology and Climate Science, Environmental Studies, Elementary Education and Biological Sciences), September 2011-September 2012: the Bay Area Earth Science Institute presented 10 full-day interdisciplinary Saturday workshops and field trips that addressed earth, life, and environmental science topics; each session served 20-25 teachers.

Metzger, E. P., April 2012 NASA-NOAA-NSF Climate Change Education Principal.

Miller, R.B., External thesis committee member: MIT (Ph.D., 2005-Present), 2 current students; Oregon State University (M.S., 2010-2012); Western Washington University (M.S., 2011-Present).

Miller, R.B., 2012, External evaluator of promotion application, Texas Tech University.

Miller, R.B., 2012, Geological Society of America Cordilleran Section Vice-Chair Nominating Committee.

Oberdorfer, J.A., 2006 to present, Expert witness for the U.S. Dept. of Justice, Combined Antelope Valley Groundwater Cases.

Reed, D.L., 2012, Globalyceum Review Team, San Jose State Foundation, July 2012.

Reed, D.L., 2012, Learning Management System (LMS) Committee, Office of the Provost, San Jose State University.

Reed, D.L., 2012, Advisory Committee, Ship to Shore Program, Deep Earth Academy, Consortium for Ocean Leadership, Washington D.C.

Reed, D.L., 2012, Best Student Paper Judge, NSF-MARGINS-GeoPRISMs, 2012 Fall Meeting of American Geophysical Union Meeting, December, 2012, San Francisco, California.

Reed, D.L., 2012, Online teaching, General Oceanography, Summer Session, 58 students (fee proceeds to university: \$67,500).

Reed, D.L., 2012, Online teaching, General Oceanography, Winter Intersession 2012, 54 students (fee proceeds to university: \$45,360).

Reed, D.L., 2011, Best Student Paper Judge, NSF-MARGINS-GeoPRISMs, 2011 Fall Meeting of American Geophysical Union Meeting, December, 2011, San Francisco, California.

Reed, D.L., 2011, Session Chair, Games, Interactive Simulations, Virtual Labs, and Effective Online Tools for Diverse STEM Student Skills, 2011 Fall Meeting of American Geophysical Union Meeting, San Francisco, CA

PROFESSIONAL TRAVEL:

Hendricks, J.R., September 2012, attendance and presentation at the iDigBio “Public Participation in Digitization” workshop, Gainesville, Florida.

Hendricks, J.R., September 2012, attended “PaleoNiches” grant coordination meeting in Lawrence, Kansas.

Hendricks, J.R., June-July 2012, research at the Paleontological Research Institution, Ithaca, New York.

Hendricks, J.R., March 2012, research at the Academy of Natural Sciences, Philadelphia, Pennsylvania.

Messina, P., March 2012 and November 2012, New York City: The College Board Science Academic Advisory Committee semi-annual meetings.

Messina, P., March 2012. New York City: The College Board SAT subject test meeting.

Messina, P., February 2011, April 2011, July 2011, November 2011, January 2012, April 2012, July 2012, August 2012: Achieve, Inc, Washington D.C. Travel associated with Next Generation Science Standards writing team meetings.

Metzger, E.P., December 2012, American Geophysical Union Fall Meeting, San Francisco, CA.

Miller, J. S., December 2012, American Geophysical Union Meeting, San Francisco, California.

Miller, J. S., September 2012, Co-leader of Geological Society of America Field Forum, Oakhurst, Yosemite, Mammoth, California.

Miller, J.S., June 2012, Lab Research, Stanford University SHRIMP-RG lab.

Miller, J.S., June 2012, Lab Research, Vrije University, laser ablation MC-ICP-MS facility, Amsterdam Netherlands.

Miller, J. S., April 2012, Cordilleran Geological Society of America Meeting.

Miller, J.S., April 2012, Lab Research, UCLA SIMS facility.

Miller, J. S., December 2011, American Geophysical Union Meeting, San Francisco, California.

Miller, R.B., December 2012, American Geophysical Union Fall Meeting, San Francisco, California.

Miller, R.B., November, 2012, Oregon State University (Corvallis, OR); Committee member for thesis defense.

Miller, R.B., September 2012, Co-leader of Geological Society of America Field Forum, Oakhurst, Yosemite, Mammoth, California.

Miller, R.B., July-August 2012, Field research, North Cascades, Washington with 3 M.S. students.

Miller, R.B., August 2012, Field research in Sierra Nevada Mountains with 2 M.S. students.

Miller, R.B., April, 2012, National Science Foundation, GeoPrisms Cascadia Workshop, Portland, OR.

Miller, R.B., December 2011, American Geophysical Union Meeting, San Francisco, CA.

Miller, R.B., December 2011, Ph. D Thesis exam, MIT, Cambridge, MA.

Reed, D.L., December, 2012, American Geophysical Union Meeting, San Francisco, CA

Reed, D.L., April, 2012, COAST Annual Meeting, Office of the Chancellor, Long Beach, CA

Reed, D.L., 2012, One of SJSU representatives to CSU Council on Ocean Affairs, Science and Technology (COAST), 2008-2013.

Reed, D.L., December, 2011, American Geophysical Union Meeting, San Francisco, CA

Reed, D.L., August 2011-January 2012, Sabbatical leave at Romberg-Tiburon Center for Environmental Studies, San Francisco State University, Tiburon, CA

CONSULTING:

Oberdorfer, J.A., Provide investigational approach for study of impact to groundwater from phosphate mining activities, AECOM, Sacramento, California.

Oberdorfer, J.A., Advise on remedial approach to groundwater contamination at two bulk fuel plant sites, Arcadis, Seattle, Washington.

Oberdorfer, J.A., Peer evaluation of aquifer testing and remedial approach at a fuel leak site, Cornerstone, San Jose, California.