

# GEOLOGY DEPARTMENT FACULTY ACTIVITY FOR THE YEAR SEPTEMBER 2004-AUGUST 2005

## PAPERS PUBLISHED

**Metzger, E. P.**, Ernst, W.G., and Sorg, D., 2005, Aluminous xenoliths in Miocene andesite, Central California: magma-crust interaction in a subduction-transform transitional setting: *International Geology Review*, v. 47, p. 573-590.

**Miller, J. S.** and Wooden, J.L., (2004). Residence, resorption and recycling of zircons in Devils Kitchen rhyolite, Coso Volcanic Field, California. *Journal of Petrology*. 45, 2155-2170.

Miller, C. F., **Miller, J. S.**, and Faulds, J. E., Miocene volcano-plutonic systems, southern Nevada: A window into upper crustal magmatic processes—Fieldtrip 9 in Stevens, C. and Cooper, J., eds., *Western Great Basin Geology Fieldtrip Guidebook and Volume—GSA and Pacific Section AAPG April 29-May 1 2005*, San José, CA, Pacific Section SEPM Publishers, p. 37-66.

Matzel, J.P., Bowring, S.A., and **Miller, R. B.**, 2004, Protolith age of the Swakane Gneiss, North Cascades, Washington: Evidence of rapid underthrusting of sediments beneath an arc: *Tectonics*, v. 23, TC6009, doi.10.1029/2003TC001577

Stone, P., Dunne, G.C., Conrad, J.E., Swanson, B.J., **Stevens, C. H.**, and Valin, Z.C. 2004, Geologic map of the Ceno Gordo Peak 7.5' Quadrangle, Inyo County, California: U.S. Geological Survey Scientific Investigations Map 2851, scale 1:24,000 with Pamphlet, 16p.

**Williams, J. W.**, Warner, J. L., and Warner, S. P., 2004, Subject area knowledge measured by scores on the National Association of State Boards of Geology (ASBOG) Fundamentals Examination and the implications for academic programs: *Bulletin of the National Association of Geoscience Teachers*, v. 52, no. 4, p. 374-378.

## BOOKS PUBLISHED

**Reed, D. L.**, 2005, *Manual for Online Oceanography*, 250 p.

**Sedlock, R. L.**, 2005, *Planet Earth: The Lab — Lab manual for Geology 4L*, 110 p.

## MEDIA PUBLICATIONS

**Reed, D. L.**, 2005, *Oceanography Online*, <http://oceansjsu.com>

\*Underlined names are students at SJSU

## **ABSTRACTS PUBLISHED WITH PROFESSIONAL PRESENTATIONS**

Albert, K. A., Holland, P.J., and **Andersen, D. W.**, 2005, The geologic and tectonic significance of Pleistocene gravels and related deposits, southeast Bay area foothills, California: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 92.

**Andersen, D. W.**, **Metzger, E. P.**, Ramstetter, N.P., and Shostak, N.C., 2005, Composition of sediment from deep wells in Quaternary alluvium, Santa Clara Valley, California: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 91.

Jachens, R.C., Wentworth, C.M., Graymer, R.W., Stanley, R.G., McLaughlin, R.J., Simpson, R.W., **Andersen, D. W.**, Williams, R.A., Ponce, D.A., and Langenheim, V.E., 2005, Late Cenozoic tectonic history of the Santa Clara Valley, California: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 59.

Wentworth, C.M., Tinsley, J.C., **Andersen, D. W.**, Graham, D.W., Jachens, R.C., Mankinen, E.A., and Williams, R.A., 2005, Quaternary Deposits of the Santa Clara Valley, California: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 58.

**Messina, P.**, and **Metzger, E. P.**, 2004, Reaching beyond the geoscience stigma: Strategies for success: Eos Trans. American Geophysical Union 85(47), Fall Meeting Supplement, Abstract ED21B-0065.

**Messina, P.** and **Metzger, E. P.**, 2004, Reaching beyond the geoscience stigma: strategies for success: EOS Transactions of the American Geophysical Union, v. 85.

**Metzger, E. P.**, **Sedlock, R. L.**, and Cruz, W., 2005, Incorporating earth science concepts into introductory physics and chemistry classes: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 82.

**Metzger, E. P.**, **Sedlock, R. L.**, Pearson, C., McCullough, S., and Gutierrez, M., 2005, Preparing a visitor's guide to the geology of California's Henry Coe State Park: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 99.

**Metzger, E. P.** and **Sedlock, R. L.**, 2004, The South Bay Geo-Diversity Project: Bringing earth science to all students: Geological Society of America Abstracts with Programs, v.36, no. 5.

Dodge, M C., **Miller, J. S.**, Faulds, J. E., and Miller, C. F. 2005, An erupted record from the Miocene Searchlight pluton, Nevada: Geological Society of America Abstracts with Programs, v. 37, p. 66.

Bleick, H. A., Miller, C. F., Furbish, D. J., Koteas, C., Ericksen, S. M., **Miller, J. S.**, Gaulda, G., and Walker, B. A., 2005, Production and distribution of hybridized magma in a replenished, open-system magma chamber: Aztec Wash pluton, Eldorado Mountains, Nevada: Geological Society of America Abstracts with Programs, v. 37, p. 66.

Burgess, S. D., and **Miller, J. S.**, 2005, Field, geochemical, and geochronologic evidence for recharging in a mushy magma reservoir: Cathedral Peak granodiorite, Tuolumne Intrusive Suite, Sierra Nevada batholith, California: Geological Society of America Abstracts with Programs, v. 37, p. 71.

**Miller, J. S.**, Burgess, S. D., Miller, C. F., **Miller, R. B.**, and Bergantz, G. B. 2005, Zircon saturation and the viability of magma bodies during intrusion of the Tuolumne Intrusive Series, Sierra Nevada Batholith, California, Eos Trans. AGU, 86(18), Jt. Assem. Suppl., Abstract V21A-02.

Walker, B. A., Miller, C. F., George, B. E., Ludington, S., Wooden, J. L., Bleick, H. A., and **Miller, J. S.**, 2005, The Spirit Mountain batholith: Documenting magma storage in the crust one pulse at a time: Eos Trans. AGU, 86(18), Jt. Assem. Suppl., Abstract V21A-03.

**Miller, R.B.**, **Miller, J. S.**, and Paterson, S.R., 2005, Pluton emplacement and magma chamber processes – insights from the Tuolumne Intrusive Suite: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 38.

**Miller, J. S.**, Burgess, S., **Miller, R. B.**, and Teruya, L., 2005, Fossil magma systems in arc crust: The geochronology, geochemistry, and field petrology of the Tuolumne Intrusive Series, Sierra Nevada batholith: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 38.

Paterson, S.R., Zak, J., and **Miller, R. B.**, 2005, Magmatic fabrics in plutons: What do they really represent?: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 38-39.

Matzel, J.P., **Miller, R. B.**, Paterson, S.R., and Bowring, S.A., 2005, Implications for tectonic and magmatic processes from the ~ 5 to 40 km North Cascades crustal section: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 51-52.

Memeti, V., Economos, R.C., Erdmann, S., Paterson, S., and **Miller, R. B.**, 2005, Regional and emplacement-related tectonism during intrusion of the Tuolumne batholith: Results from the Benson Lake and May Lake pendants, Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 70.

Petsche, J. M., **Miller, R. B.**, and Burgess, S. D., 2005, The Sentinel Granodiorite: Structure, emplacement, and relation to the Tuolumne Intrusive Suite, central Sierra Nevada batholith, California: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 70.

Economos R. C., Erdmann, S., Memeti, V., Paterson, S.R., and **Miller, R. B.**, 2005, Enigmatic east-west fabrics in the Tuolumne batholith: Is there a tectonic significance?: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 71.

McFarlan, R. M., and **Miller, R. B.**, 2005, Structure and emplacement of the Buena Vista Crest Intrusive Suite, Sierra Nevada batholith, California: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 71.

Matzel, J. P., Bowring, S., and **Miller, R. B.**, 2005, Spatial and temporal variations in Nd isotopic signatures across the crystalline core of the North Cascades: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 101-102.

Schultz, C. E., **Miller, R. B.**, **Miller, J. S.**, and MacDonald, J. H., 2005, Mantle peridotites in the Ingalls Ophiolite: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 85.

MacDonald, J.H., Harper, G.D., **Miller, R. B.**, **Miller, J. S.**, Mlinarevic, A. N., and Schultz, C. E., 2005, The polygenetic Ingalls Ophiolite Complex and its relationship to the Josephine and Coast Range Ophiolites: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 85.

MacDonald, J. H., Mlinarevic, A., Harper, G. D., **Miller, R. B.**, **Miller, J. S.**, and Schultz, C. E., 2005, Sedimentary serpentinites of the Ingalls Ophiolite Complex: Further evidence of a fracture-zone setting: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 86.

**Miller, R. B.**, Paterson, S. R., Lebit, H., and Mlinarevic, A. N., 2004, Structures at the termination of a major contractional belt: North Cascades, Washington: Geological Society of America Abstracts with Programs, v. 36, no. 5, p. 209.

MacDonald, J. H., Harper, G., **Miller, R. B.**, **Miller, J. S.**, and Mlinarevic, A.N., 2004, Geochemistry and possible tectonic setting of the Esmeralda Peaks unit, and related rocks, Ingalls Ophiolite Complex, Washington, Geological Society of America Abstracts with Programs, v. 36, no. 5, p. 23.

Lebit, H.D., Luneburg, C., **Miller, R. B.**, Paterson, S., and Matthias, W., 2004, Origin and significance of structural morphologies in mountain belts: Examples from the North Cascades crystalline core and other terrains: Geological Society of America Abstracts with Programs, v. 36, no. 5, p. 410.

Matzel, J., Bowring, S., **Miller, R. B.**, and Paterson, S., 2004, Temporal evolution of mid-crustal sheeted intrusions: Evidence from U-Pb geochronology of the Tenpeak, Entiat and Seven-Fingered Jack Intrusive Suites, North Cascades, WA: Geological Society of America Abstracts with Programs, v. 36, no. 5, p. 342-343.

\*Underlined names are students at SJSU

Steiglitz, T., Burnett, W. C., Bukuniewicz, H., Cable, J., Charette, M., Kontar, E., Krupa, S., Moore, W., **Oberdorfer, J.**, Povinec, P., & Taniguchi, M., August 2005, The Quantification of Submarine Groundwater Discharge in the Coastal Zone via Multiple Methods; a UNESCO/IAEA Initiative, IAG/IAPSO/IABO Joint Assembly, Cairns, Australia.

**Sedlock, R. L.**, and **Metzger, E. P.**, 2005, The South Bay Geo-Diversity Project: Earth science for all students: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 82.

**Sedlock, R. L.**, 2005, Recent results from Mesozoic rocks in the Puerto Nuevo region, Vizcaíno Peninsula, Baja California: Peninsular Geological Society, VII International Meeting, Abstract with Program, p. 28.

Amaya-Martinez, R., Poole, F.G., and **Stevens, C. H.**, 2004, Sedimentology and tectonic significance of Permian flysch in the Mina Mexico foredeep, central and east-central Sonora, Mexico: Geological Society of America Abstracts with Programs, Annual Meeting, p. 318.

**Williams, J. W.**, May 2005, Update on activities of the National Association of State Boards of Geology (ASBOG) and the licensing of geologists in the United States Geological Society of Nevada Annual Meeting, Reno, Nevada.

**Williams, J. W.**, Warner, J. L., and Warner, S. P., 2005, Professional ethics in the geological profession: Geological Society of America Abstracts with Programs, v. 37, no. 4, p. 59.

**Williams, J. W.**, 2005, Evaluating the Pipeline: supply and demand issues of having adequate numbers of well-educated engineering geologists prepared to enter the workforce: Association of Engineering Geologists Abstracts and Program Annual Meeting Dearborn, Michigan.

## **TECHNICAL AND ORAL PRESENTATIONS**

**Metzger, E. P.**, September 2004, "Tertiary volcanic rocks and enclosed xenoliths from the Diablo Range, West-central California", SJSU Geology Club.

**Miller, J. S.**, Burgess, S.D., **Miller, R. B.** and Teruya, L., April 2005 Fossil magma systems in arc crust: the geochronology, geochemistry, and field petrology of the Tuolumne Intrusive Series, Sierra Nevada batholith: Cordilleran Section Geological Society of America, annual meeting, San José, CA (invited presentation).

\*Underlined names are students at SJSU

**Miller, J. S.**, Burgess, S. D., Miller, C. F., **Miller, R. B.**, and Bergantz, G. B. May 2005, Zircon saturation and the viability of magma bodies during intrusion of the Tuolumne Intrusive Series, Sierra Nevada Batholith, California, American Geophysical Union Spring Meeting (Joint Assembly), New Orleans, LA (invited presentation).

**Reed, D. L.**, July 2005, Creating virtual experiences in oceanography, Teaching About the Ocean System Using New Research Techniques: Data, Models and Visualization Workshop, University of Washington, Seattle, Washington.

**Reed, D. L.**, April 2005, Oceanography online: Transforming the university experience: Romberg-Tiburon Center for Environmental Studies, San Francisco State University, Tiburon, California.

**Reed, D. L.**, April 2005, Sumatra-Andaman earthquake: Indian Ocean tsunami 2004: Coastal Ecology High School Science Educator Workshop, Romberg-Tiburon Center, San Francisco State University, Tiburon, California.

**Reed, D. L.**, September 2004, Plagiarism and Turnitin.com: Cure or panacea? Center for Faculty Development and Support, San Jose State University, San José, California.

**Reed, D. L.**, September 2004, The ocean system: The Headlands Institute, Sausalito, California.

**Williams, J. W.**, October 2004, The Role of Ethics in the National Association of State Boards of Geology (ASBOG), annual meeting, Boise, Idaho.

## TRAVEL

**Harden, D. R.**, Cordilleran Section Geological Society of America, annual meeting, San José: student volunteer coordinator.

**Messina, P.**, July, 2005: Earth Systems Research Institute Educators' Conference/ESRI Users Conference, San Diego, California.

**Messina, P.**, May, 2005: NASA Earth Science Education "Roadmap for the Future" Planning Meeting, Kennedy Space Center, Florida.

**Messina, P.**, October, 2004: NASA Earth Science Education "Roadmap for the Future" Planning Meeting, Asilomar, California.

**Metzger, E. P.**, October 2004, Geological Society of America, annual meeting, Denver, CO.

**Metzger, E. P.**, August 2004, National Science Foundation panel review, Washington, D.C.

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**Miller, J. S.**, June-July 2005: Lab work in University of North Carolina Isotope Geochemistry Laboratory

**Miller, J. S.**, June 2005: USGS Microprobe Lab

**Miller, J. S.**, May 2005, Eldorado Mountains, southern Nevada, Cordilleran Section Geological Society of America, annual meeting, field trip leader.

**Miller, J. S.**, April 2005: Cordilleran Section Geological Society of America, annual meeting, San José, CA.

**Miller, J. S.**, January and March 2005: Eldorado Mountains, southern Nevada. Geological Field Research

**Miller, J. S.**, February 2005: UC Davis Microprobe Lab

**Miller, J. S.**, December 2004: American Geophysical Union, annual meeting, San Francisco, CA.

**Miller, R. B.**, May, July-August 2005, North Cascades, Washington. Geological field research focusing on the structure of the Cascades crystalline core; supervised field research of a SJSU M.S. student.

**Miller, R. B.**, August 2005, Yosemite National Park, California. Geological field research focusing on structure of the Sierra Nevada batholith; supervised field research of a SJSU M.S. student.

**Miller, R. B.**, March 2005, Earthscope National Meeting, Albuquerque, NM.

**Miller, R. B.**, December 2004, American Geophysical Union Meeting, San Francisco.

**Miller, R. B.**, April-May 2005, Cordilleran Section Geological Society of America, annual meeting, San José, CA.

**Miller, R. B.**, November 2004, Geological Society of America National Meeting, Denver, CO.

**Miller, R. B.**, September-October 2004, Yosemite National Park, California. Geological field research with SJSU M.S. students and colleague J.S. Miller; work focused on structure of the Sierra Nevada batholith.

**Oberdorfer, J. A.**, March 2005, UNESCO/IAEA Submarine Groundwater Intercomparison Experiment, Mauritius.

**Reed, D. L.**, August, 2005, EarthEd Advisory Committee Meeting, Hood River, OR.

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**Reed, D. L.**, July, 2005, Teaching About the Ocean System Using New Research Techniques: Data, Models and Visualization Workshop, University of Washington, Seattle, WA.

**Reed, D. L.**, April, 2005, NSF MARGINS Steering Committee Meeting, National Science Foundation, Arlington, VA.

**Reed, D. L.**, April, 2005, NSF MARGINS Steering Committee Meeting, National Science Foundation, Washington, D. C.

**Reed, D. L.**, April-May, 2005, Cordilleran Section Geological Society of America, San José, CA.

**Reed, D. L.**, February, 2005, CSU Tenure-Track Faculty Focus Group Forum, CSU Office of the Chancellor, Long Beach, CA.

**Reed, D. L.**, December, 2004, NSF MARGINS Steering Committee Meeting, San Francisco, CA.

**Reed, D. L.**, December, 2004, Centers for Ocean Science Education Excellence Workshop, San Francisco, CA.

**Reed, D. L.**, December, 2004, American Geophysical Union Fall Meeting, San Francisco, CA.

**Reed, D. L.**, October, 2004, NSF MARGINS Steering Committee Meeting, Lamont Doherty Earth Observatory, Columbia University, Palisades, NY.

**Sedlock, R. L.**, April 2005, Peninsular Geological Society, VII International Meeting, Ensenada, Baja, CA, Mexico.

**Stevens, C. H.**, Several visits to field areas in east-central and southeastern California.

**Williams, J. W.**, May 2005, Nevada Geological Society Annual Meeting Reno, NV.

**Williams, J. W.**, April 2005, Geological Society of America Cordilleran Section Meeting, San José, CA.

**Williams, J. W.**, October 2004, National Association of State Boards of Geology Annual Meeting, Boise, ID.

**Williams, J. W.**, September 2004, Association of Engineering Geologists Annual Meeting, Dearborn, MI.

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## **SPECIAL STUDIES**

**Andersen, D. W.**, July-August, 2005, participated in excavation of fossil mammoth from Guadalupe River in San José, CA.

**Messina, P.**, March, 2005: Structures, surface processes, and landscape development in Guadalupe and Big Bend National Parks, TX.

**Messina, P.**, March, 2005: Survey of selected Mojave localities after the flood of 8/04, and above-average annual rainfall, Death Valley National Park, CA.

**Oberdorfer, J. A.**, October 2004, Taught short-course on Groundwater Modeling at Environmental Protection Agency, San Francisco, CA.

**Oberdorfer, J. A.**, December 2004, Taught short-course on Vadose Zone Processes at Environmental Protection Agency, San Francisco, CA.

**Reed, D. L.**, 2005, Facilitator and Focus Group Discussion Leader: CSU Tenure-Track Faculty Focus Group Forum, CSU Office of the Chancellor, Long Beach, CA.

**Reed, D. L.**, 2004-2005, Member of Steering Committee for MARGINS Program, National Science Foundation.

**Reed, D. L.**, 2004-2005, Member of Selections Committee for Digital Library for Earth System Education.

**Reed, D. L.**, Member of EarthEd Advisory Committee, University of California, Santa Barbara, CA.

**Sedlock, R. L.** (with **Metzger, E.P.**), Co-Director of the Bay Area Earth Science Institute (BAESI), a professional development program for teachers of grades 6-12.

**Sedlock, R. L.** (with **Metzger, E.P.**), July 2005-present, co-presenter of science content for 6<sup>th</sup>-grade teacher workshops, Ravenswood school district, East Palo Alto, CA; funded by California Math Science Partnership.

**Sedlock, R. L.**, June 2005, Science presenter at week-long summer workshop for 6<sup>th</sup>-grade teachers, San Mateo, CA; funded by Partnership for Student Success in Science.

**Sedlock, R. L.**, April 2005, led field trip to Hayward fault in Fremont, CA (110 participants, mostly students in grades 6-9).

**Williams, J. W.**, September 2004-July 2005, Strategic Plan Development for National Association of State Boards of Geology (ASBOG).

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## CONSULTING

**Harden, D.**, 2005, Proposed extension of the San Francisco Bay Viticultural Area, with R. Bornstein, SJSU and D. Howell, Stanford University.

**Harden, D.**, 2005, California geology, Holt Science and Technology, for Holt, Rinehart, and Winston, publishers.

**Messina, P.**, November, 2004: PBS “Nature” television series, Death Valley National Park program planning, logistics, and on-site interview, Gianna Savoie (WNET), producer; Mike Single (Natural History New Zealand), cinematographer. Tentative broadcast date: January 2006.

**Metzger, E. P.**, 2005-2006, Earth science content reviewer for the California edition of Delta Education's Full Option Science System (FOSS) curriculum.

**Oberdorfer, J. A.**, Sept. 2004 – June 2005, Developed conceptual hydrogeologic site model for groundwater remediation at a North Bay refinery, Earth Tech, San José, CA.

**Sedlock, R. L.**, January-May 2005, External review of forthcoming Physical Geology textbook, McGraw-Hill.

## GRANTS

**Messina, P.**, “General Education Online Curriculum Development”, San José State University E-campus, (\$5,000, 5/05).

**Metzger, E. P.** (with Cindy Schmidt), NASA Earth Science for Teachers, NASA (\$187,677, 8/15/05-8/14/06)

**Miller, J. S.**, (with C. F. Miller—Vanderbilt University and J. Faulds—UN-Reno) Collaborative Research: Processing magma and constructing plutons in the upper crust: Insights from magma chambers from top-to-bottom views of plutons and associated volcanic sequences National Science Foundation (\$84,214 08/01/01-07/31/05)

**Miller, J. S.** (with C. F. Miller, D. Furbish—Vanderbilt Univ. and J. Faulds—UN-Reno) Elucidating Physical Processes in Upper Crustal Magma Systems—Evidence from Miocene Intrusive and Extrusive Sequences in Southern Nevada (with Calvin Miller, Vanderbilt University) National Science Foundation (\$138, 892) 07/01/04-06/30/08.

**Miller, R. B.**, “Linking Deep and Shallow Crustal Processes, North Cascades, Washington”, National Science Foundation (\$94,926, 7/05-6/30/08).

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**Miller, R. B.**, “The Tuolumne Intrusive Complex, A Natural Laboratory for Studying Magma Chamber Processes, Fabrics, and Rates of Processes During Emplacement”, National Science Foundation (\$136,514, 7/2000-6/2005)

**Miller, R. B.**, “Structure of the Sentinel Granodiorite and Adjacent Rocks, Yosemite National Park, California”, U.S. Geological Survey (EDMAP): (\$7,706, 6/2005-5/2006)

**Reed, D. L.**, 2005, Virtual Voyage, National Science Foundation (\$100,000, 5/1/2000-10/31/2005).

**Sedlock, R. L.** (with **Metzger, E.P.**), “South Bay Geo-Diversity Project,” National Science Foundation, Opportunities for Enhancing Diversity in the Geosciences (\$70,800, 7/15/03-12/31/05).

**Sedlock, R. L.** (with **Metzger, E.P.**), “CAMSP: Ravenswood School District, Palo Alto,” California Department of Education, \$77,167, 5/1/05-9/30/06.

## **MISCELLANEOUS**

**Andersen, D. W.**, 2005, Finance Chair for Cordilleran Section Geological Society of America annual meeting , San José, CA..

**Andersen, D. W.**, April, 2005, received Distinguished Educator Award from the Pacific Section of the American Association of Petroleum Geologists.

**Messina, P.**, 2004, Peer review of NASA Earth Science Education grant proposals (3).

**Metzger, E. P.**, Panelist for the National Science Foundation.

**Metzger, E. P.**, selected as a 2005-2006 National Association of Geology Teachers Distinguished Speaker.

**Metzger, E. P.** August 2005, Invited presentation on rocks and minerals to 24 fourth grade teachers in UC Berkeley's Bay Area Science Project.

**Metzger, E. P.**, July 2005, co-led (with **Joan Carter**) a one-week workshop for fourteen 6th grade teachers in San José's Franklin McKinley-School District.

**Metzger, E. P.** (with **Richard Sedlock**), May 2005, convened an oral session at the Cordilleran Section Geological Society of America annual meeting in San José: "Diverse student populations - recruiting techniques for attracting them, curricular and extracurricular strategies for retaining them".

\*Underlined names are students at SJSU

**Metzger, E. P.**, April 2005,( with **Richard Sedlock**) led a half-day field trip to explore the effects of the Hayward fault on downtown Fremont for about 50 middle and high school teachers and students and introductory geoscience students and instructors from San José City College and the National Hispanic University.

**Metzger, E. P.** (with **Richard Sedlock**), April 2005, led a half-day field trip to Santa Teresa Hills County Park for about 20 teachers in conjunction with the Cordilleran Section meeting of the Geological Society of America in San José, CA.

**Metzger, E. P.**, March 2005 (with three SJSU geology students), made a 50-minute hands-on presentation on rocks and minerals to about 150 middle and high school students as part of MESA Day at SJSU.

**Metzger, E. P.**, 2004-2005, teamed with SJSU geology students to make presentations at San José City College and National Hispanic University about geoscience careers and field trip, internship and scholarship opportunities.

**Metzger, E. P.**, 2004-2005, led or co-led four full-day Bay Area Earth Science Institute workshops for teachers.

**Metzger, E. P.**, 2004-2005, supervised a student intern from Evergreen Valley College and two SJSU geology student mentors in preparation of a geology trail guide for distribution to visitors at Henry W. Coe State Park.

**Metzger, E. P.**, October 2004 (with **Richard Sedlock**), led a full-day field trip explore coastal geology for about 100 middle and high school teachers and students and introductory geoscience.

**Miller, J. S.**, Editorial Review: Geological Society of America Bulletin

**Miller, J. S.**, Editorial Review: Geology

**Miller, J. S.**, Editorial Board: Geology, serving 3-year term which began Spring 2005.

**Miller, J. S.**, Peer review: National Science Foundation

**Miller, J. S.**, Chair, Cordilleran Section Geological Society of America and Pacific Section of the American Association of Petroleum Geologists 2005 annual meeting (through May 2005)

**Miller, R. B.**, Associate Editor for the international journal *Tectonics*; 10 manuscripts.

**Miller, R. B.**, Peer review of National Science Foundation proposals.

**Miller, R. B.**, Peer review for Journal of Structural Geology

**Miller, R. B.**, Peer review for Geological Society of America Special Paper.

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**Miller, R. B.**, Peer review for Canadian Journal of Earth Sciences.

**Miller, R. B.**, External Thesis Committee Member –  
MIT (Ph.D. thesis, 2002-2004)  
SUNY-Albany (Ph.D. thesis – 2001- present)  
Univ. of Alabama (M.S. thesis – 2002-present)

**Miller, R. B.**, Referee for Ph.D. dissertation, Charles University (Prague, Czech Republic)

**Miller, R. B.**, Technical Program Chair for Cordilleran Section Geological Society of America annual meeting, San José, CA.

**Oberdorfer, J. A.**, April 2005, Peer review of Division of Ocean Science (NSF) proposal.

**Oberdorfer, J. A.**, April 2005, Organized and chaired session on “Hydrogeology of Alluvial Aquifers in the Western U.S.” at Geological Society of America Cordilleran Conference, San José.

**Reed, D. L.**, Member of organizing committee for 2004 SJSU Academic Integrity Week.

**Reed, D. L.**, Judge, MARGINS Student Best Research Paper Award, Fall 2004 American Geophysical Meeting.

**Reed, D. L.**, Peer review, National Science Foundation, Division of Ocean Sciences.

**Reed, D. L.**, Peer review, Tectonics Journal, American Geophysical Union.

**Sedlock, R. L.**, May 2005, A/V Chair, Cordilleran Section Geological Society of America, annual meeting, San José, CA.

**Sedlock, R. L.**, May 2005, led half-day field trip to Santa Teresa Hills for Geological Society of America teacher workshop.

**Sedlock, R. L.**, 2005, Peer review of manuscript for the journal Geology.

**Sedlock, R. L.**, 2005, secretary-treasurer of Peninsular Geological Society (Baja California Geology).

**Stevens, C. H.**, 2005, Field trip coordinator for Cordilleran Section of the Geological Society of America annual meeting in San José. Co-editor for field trip guidebooks associated with the meeting.

**Williams, J. W.**, 2005, Member, Geoscience Workforce Advisory Committee American Geological Institute.

\*Underlined names are students at SJSU

**Williams, J. W.**, 2005, Organizer, Technical Section on Ethics, Cordilleran Section Geological Society of America, annual meeting, San José, CA.

**Williams, J. W.**, 2004-2005, Chair, Ethics Committee, National Association of State Boards of Geology (ASBOG)

**Williams, J. W.**, 2004-2005, Chair, Council of Examiners National Association of State Boards of Geology (ASBOG).

**Williams, J. W.**, 2004-2005, Member, International Relations Committee, National Association of State Boards of Geology (ASBOG).

**Williams, J. W.**, 2004 Reviewer, Environmental and Engineering Geoscience Journal Association Engineering Geologists and Geological Society of America.

**Williams, J. W.**, Coordinator, AEG Annual Student Night, San Francisco Section of Association of Geologists.