

MATTHEW E. BRUESEKE

CURRICULUM VITAE

Department of Geology
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EDUCATION

2006: Ph.D. (Geology), Miami University, Oxford, OH

Dissertation: Mid-Miocene magmatic system development in the northwestern United States.

Ph.D. Advisor: Dr. William K. Hart

1997: A.B. (Geology, minor in Physical Geography), Miami University, Oxford, OH

Senior project: Chronostratigraphy and volcanic stratigraphy of Hagerman Fossil Beds National Monument, ID.

TEACHING

Positions Held

Assistant Professor & CO-Graduate Program Director:

July 2007 - present: Kansas State University. Courses taught include Earth in Action (on campus and via distance education), Natural Disasters First-Year Seminar, Mineralogy, Petrology (Igneous/Metamorphic/Sedimentary), Structural Geology, and Advanced Igneous Petrology. Mineralogy, Petrology, and Structural Geology include lab sections, in which I also am the primary instructor. Also, I have supervised undergrad/grad. teaching assistants for Min., Pet., and Struc. Geol.

Instructor:

August 2005 - May 2007: Eastern Illinois University. Courses taught include introductory Weather and Climate, a Senior Seminar covering local/global environmental issues (Spaceship Earth), introductory Earth Science (physical geology), Mineralogy, Igneous/Metamorphic Petrology, Tectonics, and Honors Spaceship Earth. Weather and Climate, Earth Science, Mineralogy, and Igneous/Metamorphic Petrology are all lecture-based and each has at least one additional laboratory section that I taught. I also supervised undergraduate teaching assistants for Mineralogy, Igneous/Metamorphic Petrology, Earth Science, and Weather and Climate.

Instructor:

2001 - 2006: Miami University Geology Field Station (www.muohio.edu/fieldgeology). Primary duties included day-to-day teaching, supervision of graduate student teaching assistants, and assisting with the organization and planning (pre- and during course logistics and content), and pedagogy of Miami University's five-week geology field course. Course emphasis is placed on understanding the geologic history of western North America through the description, interpretation, and mapping of local/regional units, structures, and other geologic phenomena throughout the Snake River Plain-Yellowstone volcanic province, the northern Rocky Mountains of the United States and Canada, and the greater Yellowstone region/Wind River Basin, WY.

Teaching Assistant:

March 2003: Geology of the Rio Grande Rift (Field-based in New Mexico)

March 2002: Geology of Big Bend National Park (Field-based in Texas)

1998 - 2000: Courses taught were: Miami University Geology Field Station (field camp), Mineralogy, Igneous and Metamorphic Petrology, Geology of U.S. National Parks, Understanding the Earth (introductory geology laboratory), and the Dynamic Earth (introductory physical geology)

1998: Carbonate Depositional Systems (Field-based in San Salvador, Bahamas and Florida)

Undergraduate Teaching Assistant:

1997: Understanding the Earth (physical geology laboratory)

Professional Development

2008: Attended NSF/NAGT sponsored "On the Cutting Edge - Teaching introductory geoscience courses in the 21st century" workshop (July, 2008).

2008: Attended and was a primary presenter at NSF/NAGT/GSA sponsored "On the Cutting Edge - Teaching petrology and structural geology in the 21st century" workshop (October, 2008).

2007-08: Graduate, K-State New Faculty Institute

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RESEARCH

Interests

My primary interests lie in the broad fields of igneous petrology and volcanology. I use field, geochemical, chronologic, and isotopic data to better understand past volcanotectonic processes and the generation/evolution of magma. Other research interests include using tephrostratigraphy to solve chronologic and stratigraphic problems, the evolution of mountain belts, extensional tectonics, and mixed lacustrine-fluvial sedimentary systems.

Positions Held

Research Associate:

2004 - 2005: Department of Geology, Miami University. Primary duties included the field and laboratory investigation of western United States volcanic terrains. I worked closely with graduate and undergraduate students and other support staff to help prepare and perform chemical and Sr-Nd-Pb isotopic analyses of geologic materials by thermal ionization mass spectrometry (TIMS). I also prepared geologic materials for major (DCP-AES) and trace (DCP-AES, XRF, and ICP-MS) element geochemical analyses, helped maintain departmental equipment, and ordered supplies.

Research Assistant:

2000 - 2004: Department of Geology, Miami University. Principal duties included sample preparation of whole rock and purified glass separates for major and trace element geochemical analyses. This included the initial collection in the field and the subsequent rock crushing, thin section blank cutting, clean laboratory work necessary for analyses, and data collection. I also prepared whole rock samples for $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology, performed electron microprobe analyses on select phases (at the University of Kentucky), performed petrographic analysis of igneous materials, purchased laboratory supplies, and organized/purchased supplies for fieldwork and the laboratory.

Research Assistant:

1997 - 1998: Department of Geology, Miami University. Responsibilities included sample preparation of basalt and unconsolidated tephra for major and trace element analyses (DCP-AES). This involved concentrating/purifying bulk glass separates by magnetic/heavy liquid separation techniques, and clean laboratory techniques prior to analyses.

Grants Received and Applied (amount received in bold)

- 2009: U.S. Geological Survey Mineral Resources External Research Program, Collaborative Research with Auburn University and Kansas State University: Geology and mineral resource potential of a "porphyry" PGE occurrence, La Plata Mountains, Colorado.). PI: J. Saunders (Auburn Univ), CO-PI: Brueseke, \$55,653, PENDING.
- 2009: National Science Foundation, Acquisition of a micro-XRF analyzer for microanalyses of earth materials at Kansas State University. PI: Brueseke, CO-PI: S. Datta (KSU), 1/1/2010 – 12/31/2010 \$118,176, PENDING.
- 2009: NASA Kansas Space Grant Consortium, Voluminous mafic volcanism on Earth: Field, geochronologic, and geochemical constraints on the temporal and spatial extent of mid-Miocene flood basalt volcanism on the Oregon Plateau (USA). PI: Brueseke, 1/31/09-12/31/09, **\$12,118**.
- 2008: National Science Foundation, Collaborative Research: Testing Mesozoic accretionary tectonic models of the northern Cordillera: Integrated geochronologic, geochemical, and paleomagnetic analyses. PI: Brueseke, CO-PI's: W. Hart (Miami Univ) & J. Trop (Bucknell, Univ), \$149,513.
- 2008: National Science Foundation, Collaborative Research: Magmatism and mineralization in the Owyhee Mountains, ID: A case study of mid-Miocene Au-Ag ores and the emergence of the Yellowstone Hotspot. PI: Brueseke, CO-PI's: J. Saunders & W. Hames (Auburn Univ.). 9/15/09-8/31/12, **\$162,082**.
- 2007: Kansas State University Small Research Grant, Magmatism and mineralization in the Owyhee Mountains, ID: A case study of mid-Miocene Au-Ag ores and Pacific Northwest (U.S.A.) flood basalt volcanism. PI: Brueseke, 2007-2008, **\$2500.0**.
- 2007: National Science Foundation, Collaborative Research: Magmatism and mineralization in the Owyhee Mountains, ID: A case study of mid-Miocene Au-Ag ores and the emergence of the Yellowstone Hotspot PI: Brueseke, CO-PI's: J. Saunders & W. Hames (Auburn Univ.). 6/1/08-5/31/11, \$152,356.

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- 2004: Geological Society of America, Cordilleran section student travel grant (**\$500.00**)
2004: Miami University DUOS (Doctoral-Undergraduate Opportunities in Scholarship;
<http://www.users.muohio.edu/shorec/DUOS/duos.htm>) program with Jacob Knight (**\$1000.00**)
2003: Geological Society of America, Cordilleran section student travel grant (**\$185.00**)
2002: Geological Society of America, Cordilleran section student travel grant (**\$475.00**)
2001: Geological Society of America, Student Research Grant (**\$1875.00**)
1999: Geological Society of America, Rocky Mt. section student travel grant (**\$350.00**)
1999: Miami University Graduate Student Association Travel Assistance Award (**\$150.00**)
1998: Geological Society of America, Student Research Grant (**\$1500.00**)

Advising of Student Research

- Jeffery Callicoat*, Graduate Student, Department of Geology, Kansas State University, 2008-present
Topic: Mid-Miocene silicic magmatism in northern Nevada: The Jarbidge Rhyolite (KSU)
Chris Cook, Undergraduate Student, Department of Geology, Kansas State University, 2009- present
Topic: Petrology of Oligocene (?) ash flow tuffs in the vicinity of Jarbidge, NV (KSU)
Josh Foster, Undergraduate Student, Department of Geology, Kansas State University, 2009- present
Topic: Mid-Miocene volcanism in the Silver City District, ID (KSU)
Mason Burgess, Undergraduate Student, Department of Geology, Kansas State University, 2009- present
Topic: Geochemical correlation of mid-Miocene mafic units, NV (KSU)
Kendra Risen, Undergraduate Student, Department of Geology, Kansas State University, 2007- present
Topic: Mafic(?) intrusive magmatism in the Oregon-Idaho graben, OR (KSU)
Jacob Knight, Undergraduate Student, Department of Geology, Miami University, 2003-2005
Topic: Characterization of ash flow volcanism in the Santa Rosa-Calico volcanic field, NV (MU)
Lauren Gilbert, Undergraduate Student, Department of Geology, Miami University, 2001-2002
Topic: Tephrostratigraphy of the Santa Rosa-Calico volcanic field, NV (MU)
Amy Maloy, Undergraduate Student, Department of Geology, Miami University, 2001-2002
Topic: Generation of intermediate magma in the Santa Rosa-Calico volcanic field, NV (MU)
Becki Witherow, Undergraduate Student, Department of Geology, Miami University, 2001
Topic: Sr isotopic analyses of late Cenozoic basalts from the Owyhee Plateau, OR/NV (MU)

Research Presentations

- 2009: Geological Society of America Penrose conference on Low $\delta^{18}\text{O}$ rhyolites and crustal melting:
Growth and redistribution of the continental crust (KSU)
2009: University of Kansas, Department of Geology (KSU)
2008: Southern Methodist University, Dept. of Earth Sciences (KSU)
2007: Fort Hays State University Department of Geology (KSU)
2006: Illinois State University Department of Geography-Geology (EIU)

ACADEMIC SERVICE

Referee for the Following Funding Agencies/Journals

National Science Foundation (Petrology/Geochemistry), Nature Geoscience, Journal of Geoscience Education, Journal of Volcanology and Geothermal Research, Geosphere

Other Professional Service

- 2009: Organizing departmental activities for majors fair (KSU)
2009: GPS program faculty mentor (KSU)
2009: Organized departmental activities for University-wide open house (KSU)
2008 - present: Faculty Advisor, Williston Geology Club (KSU)
2008 - present: Chair, Departmental Recruitment Committee (KSU)
2008: Dept. representative at University-wide open house (KSU)
2007 - present: Geological Society of America campus representative (KSU)

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2007 - present: Faculty Academic Advisor (KSU)
2007 - present: Mineral/rock identification for general public (KSU)
2007 - present: Dept. Rep. at Geol. Society of America graduate student recruitment booth (KSU)
2007 - present: Dept. representative at academic majors fair (KSU)
2007 - 2008: Faculty Mentor, Campus Internship Program (KSU)
2007 - 2008: Coordinator, Structural Geology/Tectonics search (KSU)
2007 - 2008: Coordinator, K-State Geology Department seminar series (KSU)
2005-06: Guest lecturer, Department of Geology and Geography (EIU)
2005: Keynote Speaker, Earth Science Week 2005 (EIU)
2005: Member, Peer institutions and competitors committee (EIU)
2004 - 2005: Department representative at accepted student open houses (Miami University; MU)
1997 - 2005: Host, for prospective graduate students (MU)
1997 - 2005: Substitute lecturer for Dr. William K. Hart (MU)
1997 - 2005: Guide, local geological field trips for public outreach (MU)
2004: Graduate student member, Geophysics Assistant Professor search committee (MU)
2004: Judge, Miami University Science Fair (MU)
1998 - 2003: Dept. Representative at Geol. Society of America graduate student recruitment booth (MU)
2001: Judge, Miami University Science Fair (MU)
2000 - 2001: Graduate student representative to the faculty (MU)
1997 - 1998: Graduate student representative to the faculty (MU)
1996 - 1997: President, Miami University Geological Society (MU)

HONORS

2008: Elected member of the Graduate Faculty, Kansas State University
2002: Brunton Award, Miami University Department of Geology. For outstanding contribution to field geology education
2000: Elected member of Phi Kappa Phi, academic honor society
1999: Elected member of Sigma Xi, scientific research society
1999: Certificate of merit for research achievements, Miami University Department of Geology
1997: Dean's List, Miami University, fall and spring semesters
1996: H. Van der Veer Hilker Memorial Scholarship Recipient, Miami University Department of Geology
Awarded to a junior geology major on basis of academic achievement and potential contribution to the community

OTHER SKILLS

Proficiency/experience with MS-Office Suite, CorelDraw/Photo-Paint & related graphics software, ESRI ArcView 3.1, Grass 4.1 (UNIX based GIS), MapInfo (MS-Windows based GIS), WebCT course maintenance software, image reduction and interpretation via remote sensing software and aerial imagery, worldwide web page creation and maintenance, and college Spanish coursework equivalent to two years of study. I have also received the ESRI ArcGIS I Certification for ArcGIS software use. In addition to the analytical skills and instrumentation used during my graduate studies and time spent as a Research Associate, I have experience with powder X-ray diffraction and thin section making.

APPLICABLE EMPLOYMENT

1995 - 1996: Geotechnical Lab Technician: Shilts, Graves, and Associates, South Bend, IN. Hired for field soil sampling of Quaternary glacial sediment & other geologic material by split spoon-hollow stem drilling and hand auguring methods. I also characterized and tested sediment, concrete, asphalt, and other materials for regional engineering and environmental work, by both laboratory and field-based methods.

PROFESSIONAL ORGANIZATIONS

Member: Geological Society of America (1994 - present); American Geophysical Union (1998 - present); Sigma Xi (1999 - present); The Geochemical Society (2005 - present); National Association of Geoscience

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Teachers (2005 - present); International Association of Volcanology and Chemistry of the Earth's Interior (2006 - present); Society of Economic Geologists (2008 - present); Mineralogical Society of America (2009 - present).

PUBLICATIONS (published, accepted, and in press)

- Brueseke, M.E., and Hart, W.K. (in press) Intermediate composition magma production in an intracontinental setting: Unusual andesites and dacites of the mid-Miocene Santa Rosa-Calico volcanic field, northern Nevada: *Journal of Volcanology and Geothermal Research* Special Volume on the Yellowstone Hotspot.
- Brueseke, M.E. and Hart, W.K., 2008, Geology and petrology of the mid-Miocene Santa Rosa-Calico volcanic field, northern Nevada. Nevada Bureau of Mines and Geology Bulletin #113.
- Brueseke, M.E., Hart, W.K., and M.T. Heizler, 2008, Chemical and physical diversity of mid-Miocene silicic volcanism in northern Nevada: *Bulletin of Volcanology*, v. 70, p. 343-360
- Brueseke, M.E., Heizler, M.T., Hart, W.K., and S.A. Mertzman, 2007, Distribution and geochronology of Oregon Plateau (U.S.A.) flood basalt volcanism: The Steens Basalt revisited: *Journal of Volcanology and Geothermal Research*, v. 161, p. 187-214.
- Hughes, J.M., Cureton, F.E., Marty, J., Gault, R.A., Gunter, M.E., Campana, C.F., Rakovan, J., Sommer, A., and M.E. Brueseke, 2001, Dickthomssenite, $Mg(V_2O_6) \cdot 7H_2O$, a new mineral species from the Firefly-Pigmy mine, Utah: Descriptive mineralogy and arrangement of atoms: *The Canadian Mineralogist*, 39, 1691-1700.
- Hart, W.K. and M.E. Brueseke, 1999, Analysis and Dating of Volcanic Horizons from Hagerman Fossil Beds National Monument and a Revised Interpretation of Eastern Glenns Ferry Formation Chronostratigraphy, A Report of Work Accomplished and Scientific Results: Hagerman Fossil Beds National Monument, National Park Service, 37p. NPS Report No.: 1443-PX9608-97-003.

ABSTRACTS (*=student mentee)

- Brueseke, M.E., accepted, Magmatism and mineralization in the northern Great Basin: mid-Miocene volcanism related to the inception of the Yellowstone hotspot and its relationship to regional bonanza ore deposits, *Geological Society of Nevada 2010 Symposium*. THIS WILL BE ACCOMPANYIED BY A PEER-REVIEWED PAPER THAT I'M CURRENTLY WRITING.
- Brueseke, M.E., Saunders, J, and W. Hames, 2009, Mid-Miocene magmatism and mineralization in the northern Great Basin and Oregon Plateau: the link between bonanza epithermal ore deposits and the Yellowstone hotspot, *Geological Society of America Abstracts with Programs*, V.41, p. 415. (INVITED- KEYNOTE)
- Brueseke, M. E. and W.K. Hart, 2009, Geology and geochemistry of early Miocene intermediate composition volcanism in northern Nevada and its relationship to regional tectonomagmatic processes, *Geological Society of America Abstracts with Programs*, V.41, p. 337.
- *Calliccoat, J. and M.E. Brueseke, 2009, Mid-Miocene Volcanism in Northeast Nevada: Spatial, Chemical, and Chronologic Significance of the Jarbidge Rhyolite, *Geological Society of America Abstracts with Programs*, V.41, p. 298.
- Brueseke, M.E., 2009, Regional implications of silicic magmatism in the mid-Miocene Santa Rosa-Calico volcanic field (NV), Geology, *Geological Society of America Penrose conference on Low $\delta^{18}O$ rhyolites and crustal melting: Growth and redistribution of the continental crust*, 9/9/09-9/13/09.
- *Calliccoat, J. and M.E. Brueseke, 2009, Mid-Miocene Volcanism in Northeast Nevada: Spatial, Chemical, and Chronologic Significance of the Jarbidge Rhyolite, *Geological Society of America Penrose conference on Low $\delta^{18}O$ rhyolites and crustal melting: Growth and redistribution of the continental crust*, 9/9/09-9/13/09.
- Oviatt, C.G., Spencer, J.Q.G., McLauchlan, K.K., Verosub, K.L., and M. Brueseke, 2008, Sediments of Kaw Lake, a Glacier-Dammed Lake in Kansas, *Geol. Society of America Abstracts with Programs*, V. 40, p. 148.
- Hart, W.K., Shoemaker, K.S., Brueseke, M.E., and N.R. Bondre, 2008, Basalt source evolution at the intersection of the Snake River Plain-Yellowstone and High Lava Plains-Newberry magmatic provinces, *Geological Society of America Abstracts with Programs*, V.40, p. 34.
- Brueseke, M.E., 2007, More than just McDermitt and Steens Mountain: temporal-spatial relationships of mid-Miocene magmatism on the Oregon Plateau, *Geological Society of America Abstracts with Programs*, V.39, p. 291.
- Brueseke M.E. and W.K. Hart, 2006, The production of intermediate composition magmas in an intracontinental

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setting: *Geological Society of America Abstracts with Programs*, V.38, p. 446.

- Brueseke, M.E., Haley, J.C., and W.K. Hart, 2006, The use of a mapping assessment rubric to help students improve the creation and comprehension of geologic maps: *Geological Society of America Abstracts with Programs*, V. 38, p. 220.
- Brueseke, M.E. and W.K. Hart, 2005, Mid-Miocene basalt driven volcanic field development in the Pacific Northwest, USA: *Geochimica et Cosmochimica Acta, Goldschmidt Conference Abstracts 2005*, V. 69, Issue 10, p. A144.
- Hart, W.K., Brueseke, M.E., Shoemaker, K.A., and N.R. Bondre, 2005, Revisiting the tectonomagmatic implications of Oregon Plateau basaltic volcanism: *Geochimica et Cosmochimica Acta, Goldschmidt Conference Abstracts 2005*, V. 69, Issue 10, p. A140.
- Brueseke M.E. and W.K. Hart, 2004, The physical and petrologic evolution of a multi-vent volcanic field associated with Yellowstone-Newberry volcanism: *EOS, Transactions, American Geophysical Union*, 85 (47), Suppl. Abstract V53A-0605.
- *Knight, J. E., Brueseke, M.E., and W.K. Hart, 2004, Physical, petrographic, and geochemical characterization of ash flow volcanism: the mid-Miocene Cold Springs Tuff of the Santa Rosa Calico Volcanic Field, Nevada: *Geological Society of America Abstracts with Programs*, v. 36, p. 77.
- Brueseke, M.E., Hart, W.K., and K.A. Shoemaker, 2004, Re-evaluating the “Owyhee-Humboldt” eruptive center: Relationships between voluminous middle Miocene silicic volcanism and the Owyhee Plateau: *Geological Society of America Abstracts with Programs*, v. 36, p. 97. (INVITED)
- Hart, W.K., and M.E. Brueseke, 2004, Eruptive diversity and styles of silicic volcanism in the mid-Miocene Santa Rosa-Calico volcanic field, northern Nevada: *Geological Society of America Abstracts with Programs*, v. 36, p. 11. (INVITED)
- *Knight, J. and M. Brueseke, 2004, Geochemical and petrographic characterization of ash flow volcanism: The Cold Springs tuff and its significance to the evolution of the Santa Rosa-Calico volcanic field, Nevada: *Miami University Undergraduate Research Forum*.
- Brueseke, M.E., and W.K. Hart, 2003, Compositional diversity in mid-Miocene mafic lavas from the southeastern Oregon Plateau: *Geological Society of America Abstracts with Programs: Geological Society of America Abstracts with Programs*, v. 35, p 549.
- Brueseke, M.E., Hart, W.K., Wallace, A.R., Heizler, M.T., and R.J. Fleck, 2003, Mid-Miocene volcanic field development in northern Nevada: New age constraints on the timing of Santa Rosa-Calico volcanism: *Geological Society of America Abstracts with Programs*, v. 35, p. 63.
- *Gilbert, L.Y., Brueseke, M.E., Snyder, D.C., and W.K. Hart, 2003, A record of mid-Miocene explosive volcanism and rift basin development in the Santa Rosa-Calico volcanic field, Nevada: *Geological Society of America Abstracts with Programs*, v. 35, p. 7.
- *Gilbert, L.Y., Brueseke, M.E., Snyder, D.C., and W.K. Hart, 2003, A record of mid-Miocene explosive volcanism and rift basin development in the Santa Rosa-Calico volcanic field, Nevada: *Miami University Undergraduate Research Forum*.
- *Maloy, A.K., Brueseke, M.E., Minturn, C.B., and W.K. Hart, 2003, The generation of intermediate composition magmas in a bimodal setting: evidence from the Santa Rosa-Calico volcanic field, Nevada: *Geological Society of America Abstracts with Programs*, v. 35, p. 5.
- *Maloy, A.K., Brueseke, M.E., Minturn, C.B., and W.K. Hart, 2003, The generation of intermediate composition magmas in a bimodal setting: evidence from the Santa Rosa-Calico volcanic field, Nevada: *Miami University Undergraduate Research Forum*.
- Brueseke, M.E. and W.K. Hart, 2002, Mid-Miocene flood basalt volcanism in southeastern Oregon: New insights on an old problem: *Geological Society of America Abstracts with Programs* v. 34, p. 364.
- Brueseke, M.E., Shoemaker, K.A., and W.K. Hart, 2002, New tectonic implications derived from southern Oregon Plateau basaltic volcanism: defining the Owyhee Block; *Geological Society of America Abstracts with Programs*, v. 34, p 38.
- Brueseke, M.E. and W.K. Hart, 2001, Complex magma system development in northern Nevada and the role of episodic basalt injection into the crust: *Geological Society of America Abstracts with Programs*, v. 33, p 302.
- Brueseke, M.E., and W.K. Hart, 2000, Re-evaluation and new age constraints on the eruptive history of the mid-Miocene Steens Basalt, southeastern Oregon; *Geological Society of America Abstracts with Programs*, v. 32, p 147.

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- Brueseke, M.E. and Hart, W.K., 1999, Stratigraphy and whole-rock chemistry of mid-Miocene lava flows in the vicinity of Steens MT, Southeastern Oregon: *Geological Society of America Abstracts with Programs, Rocky Mountain Section*, v. 31, p. 5. (INVITED)
- Hart, W.K., and Brueseke, M.E., Renne, P.R., and H.G. McDonald, 1999, Chronostratigraphy of the Pliocene Glens Ferry Formation, Hagerman Fossil Beds National Monument, ID: *Geological Society of America Abstracts with Programs, Rocky Mountain Section*, v. 31, p. 15. (INVITED)
- Brueseke, M. and K. Cooper, 1997, Benthic community classification of the Arnheim Formation based on limestone petrography. *Ninth Annual Undergraduate Research Conference, Butler University, Program and Abstracts*, p. 15.