

James D. Gleason (Ph.D. '94)
Associate Research Scientist and Lecturer 1
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EDUCATION

1984	B.A., Geology	College of Wooster
1988	M.S., Geology	Vanderbilt University
1994	Ph.D., Isotope Geochemistry	University of Arizona

EMPLOYMENT/POSITIONS

- 2015-present - Faculty Associate, Program in the Environment, University of Michigan
- 2010-present - Associate Research Scientist and Lecturer 1, Dept. Earth & Environ. Sci., University of Michigan
- 2004-2010 - Assistant Research Scientist, Dept. of Geological Sciences, University of Michigan
- 1999-2004 - Postdoctoral Research Fellow (Paleoceanography), Dept. of Geological Sciences, University of Michigan
- 1999 - CNRS Poste Rouge Postdoctoral Research Fellow (Meteoritics), École Normale Supérieure de Lyon, France
- 1995-1998 - Postdoctoral Fellow (Meteoritics), Lunar and Planetary Laboratory, Dept. of Planet. Sci., Univ. Arizona
- 1990-1994 - Graduate Research Assistant and Teaching Assistant, Dept. of Geosciences, University of Arizona
- 1988-1990 - Research Collections Specialist, Petrology and Meteorites, Department of Mineral Sciences, National Museum of Natural History, Smithsonian Institution, Washington, DC
- 1987/1988 - Research Intern (Geochronology), USGS Branch of Isotope Geology, Menlo Park, CA
- 1986-1988 - Graduate Research and Teaching Assistant, Dept. of Geology, Vanderbilt University
- 1984-1985 - Teaching Assistant, Dept. of Earth and Environmental Sciences, University of Rochester

HONORS AND AWARDS

1984 - Rush Rhees Graduate School Fellowship, University of Rochester
1986 - Harold Stirling Vanderbilt Graduate School Fellowship, Vanderbilt University
1990 - University Graduate School Fellowship, University of Arizona
1999 - Poste Rouge CNRS Research Fellow, École Normale Supérieure de Lyon, France
2008 - Fellow of the Geological Society of America

PROFESSIONAL SERVICE: JOURNAL PEER REVIEW

Basin Research; Chemical Geology; Earth and Planetary Science Letters; Geochemistry, Geophysics and Geosystems (G³); Geochimica et Cosmochimica Acta; Geological Society of America Bulletin; Geology; Gondwana Research; International Journal of Earth Science; Journal of Geology; Journal of Geophysical Research; Journal of Sedimentary Research; Meteoritics and Planetary Science; Paleoceanography; Paleogeography, Paleoclimatology and Paleoecology (P³); Precambrian Research; Quaternary Science Reviews; Sedimentary Geology; Sedimentology

PROFESSIONAL SERVICE: GRANT PEER REVIEW

*U.S. National Science Foundation
Petroleum Research Fund (American Chemical Society)
NSERC (Canada)*

INVITED LECTURES

1997 - University of Arizona, Geoscience Colloquium
1997 - Ecole Normale Supérieure de Lyon, Lyon, France, Geology Seminar Series
1999 - Ecole Normale Supérieure de Lyon, Lyon, France, Geology Seminar Series
1999 - Institut Dolomieu, Grenoble, France, Geosciences Colloquium
2000 - University of Michigan, Department of Geological Sciences, Turner Lecture

2001 - Bowling Green State University, Department of Geology, Earth Science Colloquium
2002 - University of Michigan, Exhibit Museum of Natural History, Public Lecture Series
2003 - University of Michigan, Exhibit Museum of Natural History, Public Lecture Series
2004 - College of Wooster, Ohio, Geology Department Geology Club Lecture Series
2017 - University of Oklahoma, School of Geology and Geophysics Spring Colloquium

OUTREACH ACTIVITIES, COMMITTEES AND SERVICE

1999 to present - Rock ID days (annually) through UM Exhibit Museum of Natural History
2000 to present - Primary contact for meteorite-related inquiries to University of Michigan
2000 to present - Speaker host for Turner/Smith Departmental Lecture Series (5 since 2000)
2002 - Development of new meteorite exhibit for Exhibit Museum of Natural History, University of Michigan
2002 - Public lectures promoting Astronomy and Planetary Science through the Exhibit Museum of Natural History
2005 - Arranged for long-term inter-institutional loan of meteorites from University of Michigan Perry Meteorite Collection to the Cranbrook Institute of Sciences, Bloomfield Hills, Michigan for an exhibit that attracts > 50,000 visitors/year from the Detroit Metro area (currently still on exhibit)
2007 - Coordinated (w/ W. Wilcox) the decommissioning of 3001 C.C. Little Oceanography laboratories for renovation of the new Earth System Science laboratory complex
2007 to present - GSA campus representative
2008 - International Polar Year Exhibit Participant, Exhibit Museum of Natural History
2010 - Antarctic/ANDRILL Climate Change Workshop (co-facilitator, w/ UM Exhibit Museum)
2010 - Antarctic/ANDRILL Climate Change Student Summit (guest faculty, w/ UM Exhibit Museum)
2011 - Collaborator on Ancient Rocks exhibit, UM Exhibit Museum of Natural History
2012 - Department Field Trip co-leader with Prof. Jackie Li, Mineralogy 315 class trip to New Mexico, October, 2012
2014 to present – Annual Zoom lecture on the Age and Origin of Earth (History 238 “Zoom: A History of Everything” LSA Dean’s office)
2015 - Successful effort to retain Perry Meteorite Collection at EES while collections were transitioned to Mich. Tech.
2015 to present - Liaison with MIRA for educational meteorite teaching collection (Astronomy/EES classroom support)
2015 to present - Advisor to Museum of Natural History (UMMNH) for new exhibit development
2016 to present - UMMNH Faculty Science Advisory Committee (3-year term)

RESEARCH GRANTS

1996 Co-I: Mineralogical and trace-element studies of meteorites and meteorite impacts (NASA Planetary Materials and Geochemistry grant NAGW3373, W.V. Boynton, PI, \$240,000/3yr)
1997 Co-I: High resolution chemostratigraphy and biostratigraphic correlation of Ordovician sedimentary sequences, Ouachita and Southern Appalachian Mountains (Petroleum Research Fund/American Chemical Society, S.C. Finney, PI, \$47,822/2yr)
2000 Co-I: Ordovician paleogeography of the Argentine Precordillera (Petroleum Research Fund/American Chemical Society, S.C. Finney, PI, \$28,830/1yr)
2002 Co-I: Climate systems in transition: Winds and wind-driven circulation during the mid-Cenozoic global cooling (NSF Grant OCE-0136829, D. Rea, PI; T. Moore and R. Owen, Co-PI’s; \$350,487/4yrs)
2006 Co-PI: Collaborative Research: History and timescale of paleoceanographic change in the Arctic Ocean (NSF Grant OCE-0550702, T. Moore, PI; Co-PI’s J. Gleason, D. Thomas, J. Blum and R. Owen, \$251,559/3yrs)
2009 PI: Arctic Ocean redox history and Hg cycling using redox-sensitive trace metals and Hg isotopes: influence of sea ice (NSF Grant OPP-0909264, J. Gleason, PI; J. Blum, T. Moore, P. Meyers, Co-PI’s; \$191,972/4yrs)
2015 PI: IODP Expedition 354 Bengal Fan: Late Cenozoic sediment record of Himalayan orogeny and climate (International Ocean Drilling Program, Consortium for Ocean Leadership, J. Gleason PI, \$40,000/1yr)
2016 PI: Collaborative Research: Investigating the Biotic and Paleoclimatic Consequences of Dust in the Late Paleozoic (NSF Grant EAR-1337440, collaborative with L. Soreghan, Univ. Oklahoma, \$45,000/2yrs)

COURSES TAUGHT FOR THE DEPARTMENT SINCE 2009

Earth 201 Intro to Physical Geography (4 credits with lab)
Earth 116 Intro to Geology, Camp Davis Field Station, Jackson, Wyoming (5 credits, team taught)
Earth 114 Global Warming mini course (1 credit)
Earth 113 Planets and Moons mini course (1 credit)
Earth 171 Global Change (1 credit, team taught)
Earth 120 Geology of National Parks (4 credits with lab)
Earth 146 1st year seminar in Plate Tectonics (3 credits)

GRADUATE STUDENT THESIS SUPERVISION

Andrea Stancin (Ph.D. thesis supervision; Ph.D., 2007 w/ Bob Owen)
Tina Johnson (Master's thesis supervision; M.S., 2003 w/ Bob Owen)

GRADUATE STUDENT THESIS DEFENSE COMMITTEES

Tiffany Napier (Ph.D. candidate Paleooceanography, Univ. Michigan; I. Hendy, advisor)
Thanusha Naidoo (Ph.D. candidate Sedimentary Basin Evolution, Univ. Stavanger, Norway; U. Zimmerman, advisor)

UNDERGRADUATE STUDENT THESIS SUPERVISION

Sara Worsham (2008 GEOSCI undergraduate thesis supervision w/ J. Blum)
Christine Doman (2010 PITE/GEOSCI undergraduate thesis supervision w/ J. Blum)
Elaina Shope (2010 GEOSCI undergraduate thesis supervision w/ J. Blum)
Sarah North (2011 GEOSCI undergraduate thesis supervision w/ J. Blum)
Kaitlin Ma (2014 EARTH undergraduate thesis supervision w/ J. Blum)
Sophie Harrison (2014 EARTH undergraduate thesis supervision w/ J. Blum)

UNDERGRADUATE LABORATORY TRAINING

Austin Carter (undergraduate research assistant BEIGL, 2016)
Sophia Wensman (undergraduate research assistant BEIGL, 2014)
Ashley Howard (undergraduate research assistant BEIGL, 2014)
Aaron Kurz (undergraduate research assistant BEIGL, 2014)
Renee Varesh (undergraduate research assistant BEIGL, 2014; research assistant BEIGL, 2014-2015)
Sophie Harrison (undergraduate research assistant BEIGL, 2013)
Rachel Ross (undergraduate research assistant BEIGL, 2012)
Kaitlin Ma (undergraduate research assistant BEIGL, 2012)
Nathan Kerns (undergraduate research assistant BEIGL, 2011-2012)
Janie Cooper (undergraduate research assistant BEIGL, 2011-2012)
Sarah North (undergraduate research assistant BEIGL, 2009-2011; research assistant BEIGL, 2011-2012)
Erin Dagg (undergraduate research assistant BEIGL, 2010-2012)
Elaina Shope (undergraduate research assistant BEIGL, 2009-2010)
Christine Doman (undergraduate research assistant BEIGL, 2009-2010)
Erin Lower (undergraduate research assistant BEIGL, 2009-2010)
Jonathon Syrek (undergraduate research assistant BEIGL/RIGL, 2009-2010)
Jess Zinger (undergraduate research assistant BEIGL/RIGL, 2008-2009)
Eric Portenga (undergraduate research assistant BEIGL/RIGL, 2007-2008)
Sara Worsham (undergraduate research assistant BEIGL/RIGL, 2006-2008; research assistant BEIGL, 2008-2009)
Scott Morrison (undergraduate honors student in Oceanography, 2003)
Rebecca George (undergraduate work-study in Oceanography, 2003)

VISITING SCHOLARS HOSTED AT MICHIGAN

2005, Dr. Debbie Thomas, 50% sponsored (w/ Ted Moore), currently Prof. of Oceanography, Texas A&M

PEER-REVIEWED PUBLICATIONS (42)

Grasby, S.E., Shen, W., Yin, R., Gleason, J.D., Blum, J.D., Lepak, R.F., Hurley, J.P. and Beauchamp, B. (2017) Isotopic signatures of mercury contamination in latest Permian oceans. *Geology*, v. 45, p. 55-58.
Gleason, J.D., Blum, J.D., Moore, T.C., Polyak, L., Jakobsson, M., Meyers, P.A., and Biswas, A. (2017) Sources and cycling of mercury in the paleo Arctic Ocean from Hg stable isotope variations in Eocene and Quaternary sediments. *Geochim. et Cosmochim. Acta*, v. 197, p. 245-262.
France-Lanord, C., Spiess, V., Klaus, A., Schwenk, T., and the Expedition 354 Scientists (2016) *Proceedings of the International Ocean Discovery Program*, 354 Bengal Fan: College Station, TX (International Ocean Discovery Program). <http://dx.doi.org/10.14379/iodp.proc.354.2016>
Emslie, S.D., Brasso, R., Patterson, W.P., Valera, A.C., McKenzie, A., Silva, A.M., Gleason, J.D. and Blum, J.D. (2015) Chronic mercury exposure in Late Neolithic/Chalcolithic populations in Portugal from the cultural use of cinnabar. *Scientific Reports* (Nature open source). 5:14679 | DOI: 10.1038/srep14679
Dickie, I.A., Koele, N. Blum, J.D., Gleason, J.D., McGlone, M.S. (2014) Mycorrhizas in changing ecosystems. *Botany*, v. 92, p. 149-160.
Koele, N., Dickie, I.A., Blum, J.D., Gleason, J.D., de Graaf, L. (2014) Ecological Significance of mineral weathering in

- ectomycorrhizal and arbuscular mycorrhizal ecosystems from a field-based comparison, *Soil Biology and Biochemistry*, v. 69, p. 63-70.
- Aarons, S.M., Aciego, S.M., Gleason, J.D. (2013), Variable Hf-Sr-Nd radiogenic isotopic compositions in a Saharan dust storm over the Atlantic: Implications for dust flux to oceans, ice sheets and the terrestrial biosphere, *Chemical Geology*, v. 349-350, p. 18-26.
- Douglas, T.A., Blum, J.D., Guo, L., Keller, K., Gleason, J.D. (2013) Hydrogeochemistry of Seasonal Flow Regimes in the Chena River, a Subarctic Watershed Draining Discontinuous Permafrost in Interior Alaska. *Chemical Geology*, v. 335, p. 48-62.
- J.D. Blum, M.W. Johnson, J.D. Gleason, J.D. Demers, M.S. Landis, and S. Krupa (2012) Mercury Concentration and Isotopic Composition of Epiphytic Tree Lichens in the Athabasca Oil Sands Region. In Kevin E. Percy, editor: *Developments in Environmental Science*, Vol. 11, Amsterdam, The Netherlands, pp. 373-390. ISBN: 978-0-08-097760-7.
- Spencer, J.E., Richard, S.M., Gehrels, G.E., Gleason, J.D. and Dickinson, W.R. (2011) Age and tectonic setting of the Mesozoic McCoy Mountains Formation in western Arizona, USA. *GSA Bulletin*, v. 123; no. 7-8; p. 1258-1274; DOI: 10.1130/B30206.1.
- Lefticariu, L., Blum, J.D., Gleason, J.D. (2011) Hg Isotopic Evidence for Multiple Mercury Sources in Coal from the Illinois Basin. *Environ. Sci. Technol.* 45 (4), pp 1724–1729 DOI: 10.1021/es102875n
- Gleason, J.D., Gutzmer, J., Kesler, S.E, and Zwingmann, H. (2011) 2.05 Ga Isotopic Ages for Transvaal MVT Deposits: Evidence for Large-Scale Hydrothermal Circulation Around the Bushveld Igneous Complex, South Africa. *Journal of Geology*, v. 119, p. 69-80, doi:10.1086/657301
- Gleason, J.D., D.J. Thomas, T.C. Moore Jr., J.D. Blum, R.M. Owen, B.A Haley (2009) Early to middle Eocene history of the Arctic Ocean from Nd-Sr isotopes in fossil fish debris, Lomonosov Ridge. *Paleoceanography*, 24, PA2215, doi:10.1029/2008PA001685.
- Stancin, A. M., J. D. Gleason, R. M. Owen, D. K. Rea, and J. D. Blum (2008) Piston core record of Late Paleogene (31 Ma) to recent seafloor hydrothermal activity in the Southwest Pacific Basin. *Paleoceanography*, v. 23, PA1212, doi:10.1029/2006PA001406.
- Stancin, A.M., Gleason, J. D., Rea, D. K., Owen, R.M., Moore, T.C., Jr., Blum, J.D., Hall, C.M., Hovan, S.A. (2008) Miocene to recent eolian dust record from the Southwest Pacific Ocean at 40° S latitude. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 261, p. 218-233.
- Gleason, J.D., Gehrels, G. E., Dickinson, W.R., Patchett, P.J. (2007) Laurentian sources for detrital zircon grains in turbidite and deltaic sandstones of the lower to middle Pennsylvanian Haymond Formation, Marathon assemblage, West Texas, USA. *Journal of Sedimentary Research*, v. 77, p. 888-900.
- Gleason, J.D., Finney, S.C., Peralta, S., Gehrels, G.E., Marsaglia, K. (2007) Zircon and whole rock Nd-Pb isotopic provenance of Middle and Upper Ordovician siliciclastic rocks, Argentine Precordillera. *Sedimentology*, v. 54, p. 107-136.
- Stancin, A., Gleason, J. D., Rea, D. K., Owen, R.M., Moore, T.C., Jr., Blum, J.D., Hovan, S.A. (2006) Radiogenic isotope mapping of late Cenozoic eolian and hemipelagic sediment distribution in the east-central Pacific. *Earth and Planetary Science Letters*, v. 248, p. 840-850.
- Hassold, N., Rea, D.K., van der Pluijm, B.A., Pares, J., Gleason, J.D., and Ravelo, A.C. (2006) Late Miocene to Pleistocene paleoceanographic records from the Feni and Gardar Drifts: Pliocene reduction in abyssal flow. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 236, p. 290-301.
- Latimer, J.C., Filippelli, G.M., Hendy, I.L., Gleason, J.D. and Blum, J.D. (2006) Glacial/Interglacial terrigenous provenance in the Southeastern Atlantic Ocean: The importance of deep-water sources and surface currents. *Geology*, v. 34, p. 545-548.
- Rea, D.K., Lyle, M.W., Liberty, L.M., Hovan, S.A., Bolyn, M.P., Gleason, J.D., Hendy, I.L., Latimer, J.C., Murphy, B.M., Owen, R.M., Paul, C.F., Rea, C.F., Stancin, A.M., Thomas, D.J. - South Pacific Latitudinal Transect (SPLAT) Survey and Coring Team (2006) Broad region of no sediment in the Southwest Pacific Basin. *Geology*, v. 34, p. 873-876.
- Gleason, J. D., Moore, T. C., Johnson, T. M., Rea, D. K., Blum, J. D., Owen, R. M., J. Pares, and Hovan, S. A. (2004) Age calibration of piston core EW9709-07, equatorial central Pacific, using fish teeth Sr isotope stratigraphy. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 212, p. 355-366.
- Kring, D.A., Gleason, J.D., Swindle, T.D., Nishizumi, K., Caffee, M.W., Hill, D.H., Jull, A.J.T., and Boynton, W.V. (2003) Composition of the first bulk melt sample from a volcanic region of Mars: Queen Alexandra Range 94201. *Meteoritics and Planetary Science*, v. 38, p. 1833-1848.
- Dickinson, W.R., Patchett, P.J., Ferguson, C.A., Suneson, N.H., and Gleason, J.D. (2003) Nd isotopes of Atoka Formation (Pennsylvanian) turbidites displaying anomalous east-flowing paleocurrents in the Frontal Ouachita Belt of Oklahoma: implications for regional sediment dispersal. *Journal of Geology*, v. 111, p. 733-740.
- Finney, S.C., Gleason, J.D., Gehrels, G.E., Peralta, S., and Acenolaza, G. (2003) Early Gondwanan connection for the Argentine Precordillera Terrane. *Earth and Planetary Science Letters*, v. 205, p. 349-359.

- Gleason, J. D., Moore, T. C., Rea, D. K., Johnson, T. M., Owen, R. M., Blum, J. D., Hovan, S. A., Jones, C.E. (2002) Ichthyolith strontium isotope stratigraphy of a Neogene red clay sequence: calibrating eolian dust accumulation rates in the central North Pacific. *Earth and Planetary Science Letters*, v. 202, p. 625-636.
- Gleason, J.D., Finney, S.C., and Gehrels, G.E. (2002) Paleotectonic implications of a mid- to late-Ordovician provenance shift, as recorded in sedimentary strata of the Ouachita and southern Appalachian Mountains. *The Journal of Geology*, v. 110, p. 291-304.
- Joseph, L.H., Rea, D.K., van der Pluijm, B.A., and Gleason, J.D. (2002) Antarctic environmental variability since the late Miocene: ODP Site 745, the East Kerguelen sediment drift. *Earth and Planetary Science Letters*, v. 201, p. 127-142.
- Treiman, A.H., Gleason, J.D., and Bogard, D.D. (2000) The SNC Meteorites are from Mars. *Planetary and Space Sciences*, v. 48, p. 1213-1230.
- Albarede, F., Blichert-Toft, J., Vervoort, J.D., Gleason, J.D., and Rosing, M. (2000) Hf-Nd isotope evidence for a transient dynamic regime in the early terrestrial mantle. *Nature*, v. 404, p. 488-490.
- Gleason, J.D., Barton, M.D., Marikos, M.A., and Johnson, D.A. (2000) Neodymium isotopic study of rare earth element sources and mobility in hydrothermal Fe-oxide (Fe-P-REE) systems. *Geochimica et Cosmochimica Acta*, v. 64, 1059-1068.
- Blichert-Toft, J., Gleason, J.D., Telouk, P., and Albarede, F. (1999) The Lu-Hf geochemistry of shergottites and the evolution of the Martian mantle-crust system. *Earth and Planetary Science Letters*, v. 173, p. 25-39.
- Patchett, P.J., Ross, G.M., and Gleason, J.D. (1999) Continental Drainage in North America during the Phanerozoic from Nd Isotopes. *Science*, v. 283, p. 671-673.
- Kring, D.A., Hill, D.H., Gleason, J.D., Britt, D.T., Consolmagno, G.J., Farmer, M., Wilson, S., and Haag, R. (1999) Portales Valley: A meteoritic sample of the brecciated and metal-veined floor of an impact crater on an H-chondrite asteroid. *Meteoritics and Planetary Science*, v. 34, p. 663-669.
- Kring, D. A., Swindle, T.D., Gleason, J.D., and Grier, J.A. (1998) Formation and relative ages of maskelynite and carbonate in ALH84001. *Geochimica et Cosmochimica Acta*, v. 62, p. 2155-2166.
- Gleason J. D., Kring D. A., Hill, D. H., and Boynton, W. V. (1997) Petrography and bulk chemistry of martian lherzolite LEW88516. *Geochimica et Cosmochimica Acta*, v. 61, p. 4007-4014.
- Gleason J. D., Kring D. A., Hill, D. H., and Boynton, W. V. (1997) Petrography and bulk chemistry of martian orthopyroxenite ALH84001: Implications for the origin of secondary carbonates. *Geochimica et Cosmochimica Acta*, v. 61, p. 3503-3512.
- Gleason J. D., Patchett P. J., Dickinson W. R., and Ruiz, J. (1997) Reply to Alternative Interpretation by W. A. Thomas: "Nd isotopic constraints on sediment sources of the Ouachita-Marathon fold belt". *Geological Society of America Bulletin*, v. 109, p. 779-787.
- Gleason J. D., Patchett P. J., Dickinson W. R., and Ruiz, J. (1995) Nd isotopic constraints on sediment sources of the Ouachita-Marathon fold belt. *Geological Society of America Bulletin*, v. 107, p. 1192-1210.
- Gleason J. D., Patchett P. J., Dickinson W. R., and Ruiz, J. (1995) Reply to Comment by W. A. Thomas: 'Nd isotopes link Ouachita turbidites to Appalachian sources'. *Geology* v. 23, p. 94-95.
- Gleason J. D., Patchett P. J., Dickinson W. R., and Ruiz, J. (1994) Nd isotopes link Ouachita turbidites to Appalachian sources. *Geology*, v. 22, p. 347-350.
- Gleason J. D., Miller C.F., Wooden, J.L., and Bennett, V. C. (1994) Petrogenesis of the highly potassic 1.42 Ga Barrel Spring pluton, southeastern California, with implications for mid-Proterozoic magmatism in the southwestern USA. *Contributions to Mineralogy and Petrology*, v. 118, p. 182-197.

NON PEER-REVIEWED PUBLICATIONS

- France-Lanord, C., Spiess, V., Schwenk, T., Klaus, A., and IODP354 Expedition Scientists (2015) Neogene and late Paleogene record of Himalayan orogeny and climate: A transect across the Middle Bengal Fan. Integrated Ocean Drilling Program: Preliminary Reports. Issue 354, May 2015, pp. 1-46.
- Gleason, J.D., Spencer, J.E., and Richard, S.M. (1999) Geochemistry of mafic dikes and sills from the lower McCoy Mountains Formation, La Paz County, western Arizona: *Arizona Geological Survey Open-File Report 99-1*, 24 pp.

FIELD EXPERIENCE

- 2015, IODP Expedition 354, Indian Ocean, Bay of Bengal, participating shipboard scientist on 8-week scientific drilling cruise (Singapore to Sri Lanka) aboard JOIDES Resolution (International Ocean Discovery Program); sponsored by NSF.
- 2005, South Pacific, participating ship-board scientist on 6-week site survey research cruise (Papeete, Tahiti) aboard R/V Melville (Scripps) in support of ODP; sponsored by NSF grant OCE-0240924 to U of M (D.K. Rea, M. W. Lyle, T.C. Moore, Jr., PI's; J.D. Gleason, post-doctoral investigator)
- 2000, Precordillera Terrane, Argentina, stratigraphy/geochemical sampling (S.C. Finney, PI; ACS-PRF) 2000
- 1997, Ouachita Mountains, Arkansas-Oklahoma, stratigraphy/geochemical sampling (S.C. Finney, PI; ACS-PRF)

- 1991-1994, Ouachita-Marathon foldbelt, Arkansas-Oklahoma-Texas, stratigraphy/geochemical sampling (NSF-sponsored Ph.D. research, P.J. Patchett, W.R. Dickinson, J. Ruiz, PI's, Univ. Arizona)
- 1989, Sierra Nevada, Ritter Range Mesozoic roof pendant, mineral mapping/sampling of pre-batholithic metasomatic/volcaniclastic assemblage (Smithsonian Institution Research Expedition, S. Sorensen, PI)
- 1986-1988, Precambrian basement mapping/geochronology, Old Woman/Piute Mts., eastern Mojave Desert, SE California (NSF-sponsored research; C.F. Miller, J.L. Wooden, T.M. Harrison, PI's, joint USGS/Vanderbilt); 1986-1988

MEETING ABSTRACTS AND PRESENTATIONS (80)

- France-Lanord, C., Spiess, V., Schwenk, T., Klaus, A., and the IODP Expedition 354 Science Party. Expedition 354: Neogene and late Paleogene record of Himalayan orogeny and climate: a transect across the Middle Bengal Fan [Asia Oceania Geosciences Society (AOGS) 12th Annual Meeting, Singapore, 2–7 August 2015].
- Koele N, Dickie IA, Blum J, Gleason J, Lovett G (2012) Phosphorus Cycles under Ectomycorrhizal and Arbuscular Mycorrhizal Ecosystems: Similar or Different? *Eurosoil*, Bari, Italy.
- Koele N, Dickie IA, Blum J, Gleason J, Lovett G, McGlone M (2011) No significant effect of ectomycorrhizal fungi on forest nutrition in 18,000 years of soil development. *Rhizosphere* 3, Perth, Australia.
- Aarons, S., Aciego, S., and Gleason, J., 2011, Variable radiogenic isotopic compositions in Saharan dust across the Atlantic Ocean (21th Annual V.M. Goldschmidt Conference, Prague, Czech Republic).
- Koele, N., Dickie, I., Blum, J., Gleason, J., Lovett, G., and McGlone, M., 2011, No difference in Sr isotope ratios between ectomycorrhizal and arbuscular mycorrhizal ecosystems across a wide range of geological substrates (21th Annual V.M. Goldschmidt Conference, Prague, Czech Republic).
- Gleason, JD, JD Blum, TC Moore, Jr., L Polyak and M Jakobsson, 2011, Mercury Stable Isotopic Variations in Arctic Ocean Pelagic Sediment (21th Annual V.M. Goldschmidt Conference, Prague, Czech Republic).
- Gleason, JD, JD Blum, TC Moore, Jr., L Polyak and M Jakobsson, 2011, Mercury Isotopes as Indicators of Paleoceanographic Change in the Arctic Ocean: 56 Ma to present, *Eos Trans., AGU*.
- Blum, J.D., Johnson, M.W., Gleason, J.D., Demers, J.D., Landis, M.S., and Krupa, S., 2011, Mercury concentration and isotopic composition of epiphytic lichens in the vicinity of Alberta oil sands development (10th International Conference on Mercury as a Global Pollutant, Halifax, Nova Scotia).
- Lefticariu, L., Blum, J.D., and Gleason, J.D., 2010, Mercury Isotopes in Illinois Basin Coal: Organic and Inorganic Constituents, *Geochim. Cosmochim. Acta* 74(12), A577 (20th Annual V.M. Goldschmidt Conference, Knoxville, Tennessee).
- Gleason, JD, JD Blum, TC Moore, Jr., and M Jakobsson, 2009, Mercury Stable Isotopic Variations in the Central Arctic Ocean, *Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abs. PP13A-1377*.
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