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

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

EMPLOYMENT/POSITIONS

•2017-present - Lecturer II, Dept. Earth and Environ. Sci., University of Michigan
•2015-present - Faculty Associate Program in the Environment (PitE), University of Michigan
•2010-present - Associate Research Scientist, Dept. Earth and Environ. Sci., University of Michigan
•2009-2017 - Lecturer I, Dept. Earth and 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
•1995-1999 - Postdoctoral Fellow (Meteoritics), Lunar and Planetary Laboratory, Dept. of Planet. Sci., Univ. Arizona
•1990-1994 - Graduate Research and Teaching Assistant, Department of Geosciences, University of Arizona
•1988-1990 - Research Collections Specialist (Petrology & Meteorites), Smithsonian Institution, Washington, DC
•1987/1988 - Research Intern (Geochronology), USGS Branch of Isotope Geology, Menlo Park, CA
•1986-1988 - Graduate Research and Teaching Assistant, Department of Geology, Vanderbilt University, TN
•1984-1985 - Teaching Assistant, Dept. of Earth and Environmental Sciences, University of Rochester, NY

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; Frontiers in Earth Science; Geochemistry-Geophysics-Geosystems (G-Cubed); Geochim. et Cosmochim. Acta; Geological Society of America Bulletin; Geology; Gondwana Research; International Journal of Earth Science; Journal of Geology; Journal of Geophysical Research (Solid Earth); Journal of Geophysical Research (Oceans); Journal of Sedimentary Research; Meteoritics and Planetary Science; Nature Communications; Paleoceanography; Paleogeography-Paleoclimatology-Paleoecology (P-Cubed); Precambrian Research; Quaternary Science Reviews; Science Advances; 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 Superieure de Lyon, Lyon, France, Geology Seminar Series
1999 - Ecole Normale Superieure 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

COMMUNITY OUTREACH, COMMITTEE WORK AND SERVICE

1999 to present - Annual Public Rock ID days through UM Exhibit Museum of Natural History
2000 to present - Primary contact for public meteorite-related inquiries to University of Michigan
2000 to present - hosted 6 Turner/Smith Lectures for the Department of Geological Sciences/EES
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 UM Perry Meteorite Collection to the Cranbrook Institute of Sciences, Bloomfield Hills, MI 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
2014 to present - Curator in Charge (Stuart Perry Meteorite Collection - EES)
2015 to present - Astronomy/EES liaison with MIRA for meteorite teaching collection 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)
2017 - preconcert panelist for University of Michigan School of Music multi-media presentation of Holst's *The Planets*
2018 - Exhibit development (significant time allocation) for new UMMNH Earth and Space Science exhibits in BSB

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: 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 S. Aciego and L. Soreghan; Gleason PI, $45,000/3yrs)
2020 PI: NSF GEO-NERC: Collaborative Research: Impact of the Plio-Pleistocene Transition on Provenance and Sediment Routing from the Himalaya to the Deep-Sea Bengal Fan; NSF Grant OCE-2026826, $976,468/3yrs collaborative with M. Blum (Kansas), Y. Najman (Lancaster), D. Orme (Montana State), K. Sundell (Arizona); J. Gleason, UM-PI ($96,832/3yrs)

TEACHING GRANTS & DEI ACTIVITY

-2019 Large Course Initiative Grant supporting innovations for teaching large courses UM CRLT ($2,000)
-2019 Participant in LEO Inclusive Teaching Program

COURSES TAUGHT FOR THE DEPARTMENT (Mentored/Co-Mentored >60 GSI's at UM)

Fall 2002 GS 201 Intro to Physical Geography (co-taught w/ B. Kennedy; 4 credits with lab)
Winter 2003 GS 201 Intro to Physical Geography (co-taught w/ B. Kennedy; 4 credits with lab)
Winter 2004 GS 206 How the Earth Works – the Water cycle (2 credits)
Summer 2009 GS 116 (Camp Davis Field Station) Intro to Geology co-taught w/ C. Poulsen and J. Blum; 5 credits)

Fall 2009 GS 201 Intro to Physical Geography (4 credits with lab)
Summer 2010 GS 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ D. Horton and J. Blum; 5 credits)
Fall 2010 GS 201 Intro to Physical Geography (4 credits with lab)
Winter 2012 Earth 114 Mini Course on Global Warming (1 credit)
Summer 2012 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ S. Aciego; 5 credits)
Winter 2013 Earth 114 Mini Course on Global Warming (1 credit)
Summer 2013 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ S. Aciego; 5 credits)
Fall 2013 Earth 113 Mini Course on Planets and Moons (1 credit)
Fall 2013 Earth 171 Global Change (co-taught with G. Kling and C. Badgley; 4 credits)
Winter 2014 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2014 Earth 114 Mini Course on Global Warming (1 credit)
Summer 2014 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ S. Aciego; 5 credits)
Fall 2014 Earth 201 Introduction to Physical Geography and the Environment (4 credits with lab)
Fall 2014 Earth 171 Global Change (co-taught with G. Kling and K. Nadelhoffer; 4 credits)
**Winter 2015 on leave for 2 months scientific drilling in the Indian Ocean with IODP*
Summer 2015 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ S. Aciego; 5 credits)
Fall 2015 Earth 201 Introduction to Physical Geography and the Environment (4 credits with lab)
Fall 2015 Earth 171 Global Change (co-taught with G. Kling and C. Badgley; 4 credits)
Winter 2016 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2016 Earth 114 Mini Course on Global Warming (1 credit)
Winter 2016 Earth 120 Geology of National Parks (4 credits with lab)
Summer 2016 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ J. Ritsema and J. Li; 5 credits)
Fall 2016 Earth 201 Introduction to Physical Geography and the Environment (4 credits with lab)
Fall 2016 Earth 171 Global Change (co-taught with G. Kling and C. Badgley; 4 credits)
Winter 2017 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2017 Earth 114 Mini Course on Global Warming (1 credit)
Winter 2017 Earth 146 1st year seminar in Plate Tectonics (3 credits)
Summer 2017 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ J. Ritsema; 5 credits)
Fall 2017 Earth 201 Introduction to Physical Geography and the Environment (4 credits with lab)
Fall 2017 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2018 Earth 114 Mini Course on Global Warming (1 credit)
Winter 2018 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2018 Earth 153 1st year seminar in Habitable Planets (3 credits)
Spring 2018 Earth 113 Mini Course on Planets and Moons (1 credit)
Summer 2018 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ J. Ritsema; 5 credits)
Fall 2018 Earth 201 Introduction to Physical Geography and the Environment (4 credits with lab)
Fall 2018 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2019 Earth 114 Mini Course on Global Warming (1 credit)
Winter 2019 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2019 Earth 120 Geology of National Parks (4 credits with lab)
Spring 2019 Earth 113 Mini Course on Planets and Moons (1 credit)
Summer 2019 Earth 116 (Camp Davis Field Station) Intro to Geology (co-taught w/ J. Ritsema; 5 credits)
Fall 2019 Earth 201 Introduction to Physical Geography and the Environment (4 credits with lab)
Fall 2019 Earth 114 Mini Course on Global Warming (1 credit)
Fall 2019 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2020 Earth 114 Mini Course on Global Warming (1 credit)
Winter 2020 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2020 Earth 120 Geology of National Parks (4 credits with lab)
Spring 2020 Earth 113 Mini Course on Planets and Moons (1 credit)
Summer 2020 Earth 296 Intro to Topics in Earth and Environmental Science (6 instructors; 5 credits)
Fall 2020 Earth 201 Introduction to Physical Geography and the Environment (4 credits with lab)
Fall 2020 Earth 114 Mini Course on Global Warming (1 credit)
Fall 2020 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2021 Earth 114 Mini Course on Global Warming (1 credit)
Winter 2021 Earth 113 Mini Course on Planets and Moons (1 credit)
Winter 2021 Earth 120 Geology of National Parks (4 credits with lab)

GUEST LECTURES/FIELD TRIPS
EARTH 315: Department Mineralogy Field Trip co-leader with Prof. Jackie Li, class trip to New Mexico (October 2012)
ZOOM 238: A History of Everything - LSA Dean's office - lecture on Age and Origin of Earth (2014-2017)
EARTH 455: Determinative Methods - lectures on mass spectrometry (2014-2017)
EARTH 120: Geology of National Parks (2017, 2018)
EARTH 412: Igneous Petrology (2018, 2019)
EARTH 219: Introduction to Environmental Science (2019)

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 in Paleoceanography (Univ. Michigan; I. Hendy, advisor, 2017)
Thanusha Naidoo, Ph.D. candidate in Sedimentary Basin Evolution (U. Stavanger, Norway; U. Zimmerman, advisor, 2016)

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, 2016-2017)
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 (N = 46)
citation h-index = 30; total citations = 2366 (Google Scholar 6-22-21)

Abadi, M.S., Soreghan, G.S., Hinnov, L., Heavens, N.G., Gleason, J.D. (2021) Atmospheric Dust Flux in Northeastern Gondwana During the Peak of the Late Paleozoic Ice Age. *Geological Society of America Bulletin* (in press)

B.A. Stewart, Y. Zhao, P.J. Mitchell, G. Dewar, J.D. Gleason and J.D. Blum (2020) Ostrich eggshell bead strontium isotopes reveal persistent macroscale social networking across late Quaternary southern Africa. *Proceedings of the National Academy of Sciences* 117 (12) 6453-6462. https://doi.org/10.1073/pnas.1921037117

Meyer, K.W., Petersen, S.V., Lohmann, K.C., Blum, J.D., Washburn, S.J., Johnson, M.W., Gleason, J.D., Kurz, A.Y. and Winkelstern, I.Z. (2019) Biogenic carbonate mercury and marine temperature records reveal global influence of Late Cretaceous Deccan Traps. *Nature Communications 10:5356*. https://doi.org/10.1038/s41467-019-13366-0

M. Blum, K. Rogers, J. Gleason, Y. Najman, J. Cruz, and L. Fox (2018) Allogenic and Autogenic Signals in the Stratigraphic Record of the Deep-Sea Bengal Fan. *Sci Rep* **8,** 7973 (2018). https://doi.org/10.1038/s41598-018-25819-5

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* 45: 55-58. https://doi.org/10.1130/G38487.1

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. https://doi.org/10.1016/j.gca.2016.10.033

France-Lanord, C., Spiess, V., Klaus, A., Schwenk, T., and IODP Expedition 354 Scientists (2016) *Proceedings of the International Ocean Discovery Program*. http://publications.iodp.org/proceedings/354/354title.html

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. *Nature Scientific Reports.* 5:14679 | DOI: 10.1038/srep14679. https://doi.org/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. https://doi.org/10.1139/cjb-2013-0091

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. https://doi.org/10.1016/j.soilbio.2013.10.041

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. https://doi.org/10.1016/j.chemgeo.2013.04.010

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. https://doi.org/10.1016/j.chemgeo.2012.10.045

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. https://doi.org/10.1016/B978-0-08-097760-7.00016-0

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. https://doi.org/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. https://doi.org/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. https://doi.org/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. https://doi.org/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. https://doi.org/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. https://doi.org/10.1016/j.palaeo.2007.12.015

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. https://doi.org/10.2110/jsr.2007.084

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. https://doi.org/10.1111/j.1365-3091.2006.00820.x

Stancin, A.M., 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. https://doi.org/10.1016/j.epsl.2006.06.038

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.

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FIELD EXPERIENCE

2015, IODP Expedition 354 Bengal Fan, participating shipboard scientist on 8-week scientific drilling cruise to Bay of Bengal (Singapore to Sri Lanka) aboard JOIDES Resolution (International Ocean Discovery Program – NSF)

2005, South Pacific Ocean SPLAT Expedition, 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)

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/SUNY Albany/NAU)

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Stewart, B., Zhao, Y., Mitchell, P., Gleason, J., Blum, J., Dewar, G. (2019) Social network mapping in the southern African highlands and drylands using strontium isotopes, 20th International Union for Quaternary Research (INQUA) Congress, Dublin, Ireland.

M Blum, K Rogers, J Gleason, Y Najman, Fingerprints of Climate Change in the Detrital-Zircon U-Pb Record of the Deep-Sea Bengal Fan, AGU Fall Meeting, Washington, DC, December 10-14, 2018.

M Blum, K Rogers, J Gleason, Y Najman, Signal Propagation from the Himalayan-Sourced Ganges-Brahmaputra Rivers to the Deep-Sea Bengal Fan from Detrital Zircons, AAPG Annual Convention & Exhibition, Salt Lake City, Utah, 2018.

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