

Biographical Sketch – August 2013

Michael R. Sandy

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a. Professional Preparation

- 1985-1986 Post-Doctoral Research Fellow, University of Aberdeen, Scotland
- 1984 Queen Mary College, University of London, England; PhD Geology
- 1980 Queen Mary College, University of London, England; BSc (Hons) Geology

b. Appointments

- 1998-present Full Professor, University of Dayton
- 1994-2002 Chair, Geology Department, University of Dayton
- 1992 Associate Professor, University of Dayton
- 1987 Assistant Professor, University of Dayton

c. Publications

5 recent publications

- Peckmann, J., Sandy, M. R., Taylor, D. G., Gier, S., Bach, W. *In press*. An Early Jurassic brachiopod-dominated seep deposit enclosed by serpentinite, eastern Oregon, USA. *Palaeogeography, Palaeoecology, Palaeoclimatology*.
- Sandy, M. R., Lazar, I., Peckmann, J., Birgel, D., Stoica, M., Roban, R. D. 2012. Methane-seep brachiopod fauna within turbidites of the Sinaia Formation, Eastern Carpathian Mountains, Romania. *Palaeogeography, Palaeoecology, Palaeoclimatology*, 323-325, 42-59.
- Peckmann, J., Kiel, S., Sandy, M. R., Taylor, D., and Goedert, J. 2011. Mass occurrences of the brachiopod *Halorella* in Late Triassic methane-seep deposits, Eastern Oregon. *Journal of Geology*, Vol. 119, pp. 207 – 220.
- Hammer, O., Nakrem, H. A., Little, C. T. S., Hryniewicz, K., Sandy, M. R., Hurum, J. H., Druckenmiller, P., Knutsen, E. M., and Hoyberget, M. 2011. Hydrocarbon seeps from close to the Jurassic-Cretaceous boundary, Svalbard. *Palaeogeography, Palaeoecology, Palaeoclimatology*, Vol. 306 (June), pp. 15-26.
- Sandy, M. R. 2010. Brachiopods from ancient hydrocarbon seeps and hydrothermal vents, Chapter 9, pp. 279-314 + Appendix 1, pp. 468-470, plates 18, 19. In Kiel, S. (ed.), *Topics in Geobiology: The Vent and Seep Biota*. Springer, Berlin.

5 other significant publications

- Sandy, M. R., Goldman, D. (Editors). 2012. On and around the Cincinnati Arch and Niagara Escarpment: Geological Field Trips in Ohio and Kentucky for the GSA North-Central Section Meeting, Dayton, Ohio, 2012, vol. 27, pp. 130 p. Boulder, Colorado: *Geological Society of America*.
- Lazar, I., Panaiotu, C. E., Grigore, D., Sandy, M. R., and Peckmann, J. 2011. An unusual brachiopod assemblage in a Late Jurassic (Kimmeridgian) stromatactis mud-mound of the Eastern Carpathians (Haghimas Mountains), Romania. *Facies*, 67(4), p. 627 – 647.
- Yu-Gan, J., Lee, D. E., Dong-Li, S., Smirnova, T. N., Dagys, A. S., and Sandy, M. R. 2006. Chapter on Dielasmatoidea. Kaesler, R. (ed.), *Treatise on Invertebrate Paleontology. Brachiopoda Revised, Volume 5*, pp. 2029-2053. University of Kansas and The Geological

Society of America.

Gischler, E., Sandy, M. R., and Peckmann, J. 2003. *Ibergirhynchia contraria* (F. A. Roemer), an Early Carboniferous seep-related brachiopod from the Harz Mountains, Germany – a possible successor to *Dzieduszyckia*. *Journal of Paleontology*. Vol. 77, pp. 293-303.

Sandy, M. R. 2001. Life beyond the Permian – Mesozoic-Cenozoic brachiopod paleobiogeography, paleoecology, and evolution. In S. J. Carlson and M. R. Sandy (eds.), *Brachiopods Ancient and Modern – A Tribute to G. Arthur Cooper*. *The Paleontological Society Papers*, Volume 7, pp. 223-247.

d. Synergistic Activities

Involved in various STEM-based educational initiatives for teachers including:

Dayton Regional STEM Center – appointed Higher Education Fellow (2012-2013); WeEXCEL academies for teachers (2007-2009); WOSAT (2005-2006); Integrated Living Learning Communities, University of Dayton (2007-present); appointed Ohio Board of Regents' Teaching Fellow; recipient of "Friend of Science Award", Science Educators' Council of Ohio.

Appointed Geological Society of America field trip chair and guidebook co-editor for sectional meeting in Dayton, Ohio; Co-convenor of Paleontological Society Short Course "Brachiopods – Ancient and Modern" for the Paleontological Society, co-editor of short course volume.

University of Dayton Alumni Award in Scholarship; George B. Noland Award for Research, University of Dayton Chapter of Sigma Xi; Outstanding Scholarship Award, College of Arts and Sciences, University of Dayton.

Visiting Research Professor, Technische Hochschule Darmstadt, Germany;

Visiting Research Professor, University of Montana.

e. Research Grants

Over \$5,000,000 as PI, Co-PI, Senior or Support Personnel, including grants from regional, national and international funding agencies: American Chemical Society - Petroleum Research Fund; Alexander von Humboldt Foundation, Germany; National Geographic Society; NSF Research Opportunity Award; NSF ILI; NASA - Project NOVA educational initiative; Title II Teacher Quality Enhancement Grant, Ohio Board of Regents; WOSAT and WeEXCEL Academies for Teachers and Project SOAR, Ohio Department of Education; Royal Society of London Travel Grant; Natural Environment Research Council Studentship, UK.

Recent significant grants

2011-2014 Brachiopod shell-beds as indicators and predictors of ancient hydrocarbon seeps: assessing their geological, paleoecological, evolutionary and biostratigraphical significance. American Chemical Society – Petroleum Research Fund. Michael Sandy P.I.

2007-2009 WeEXCEL Academies for Teachers. STEM Educational Center, Mathematics and Science Partnerships Program Grants, Ohio Department of Education. Collaboration between Wright State University, University of Dayton, Sinclair Community College, Dayton Public Schools, Springfield City and Darke County Educational Services Center. Co-PIs: Basista, Tomlin, Boyd, Krakowski, Sandy.