

CURRICULUM VITAE R. Damian Nance

PERSONAL INFORMATION

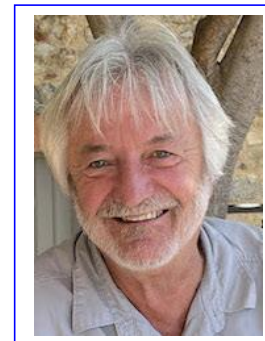
Position: Distinguished Professor Emeritus
Department of Geological Sciences
Ohio University, Athens, Ohio 45701

Visiting Fellow
Department of Geology & Geophysics
Yale University, New Haven, Connecticut 06511

Birth date: October 25, 1951; St. Ives, Cornwall, U.K.

Field of Expertise: Structural Geology and Tectonics

Degrees: B.Sc. (Hons.) Geology, University of Leicester, England 1972
Ph.D. Geology, University of Cambridge, England 1978



EXPERIENCE

Academic:	Visiting EU Professor, Charles University, Prague	2020-2021
	Visiting Fellow, Yale University	2018-
	Distinguished Professor Emeritus, Ohio University	2018-
	Distinguished Professor, Ohio University	2008-2018
	Department Chair	1995-2000
	Professor, Ohio University	1991-2008
	Granted Tenure, Ohio University	1984
	Associate Professor, Ohio University	1982-1991
	Assistant Professor, Ohio University	1980-1982
	Assistant Professor, St. Francis Xavier University, Nova Scotia	1976-1980
Administrative:		
<i>University:</i>	Chair, Ohio University Honorary Degree Committee	2013-2015
	Chair, Ohio University Distinguished Professors	2011-2012
	Honorary Degree Committee	2010-2013
	Arts and Sciences Scholars Program	2006-2015
	Faculty Senate	2001-2004
	University Curriculum Council	2001-2004
	Educational Policy and Student Affairs Committee	2001-2004
	Chair, Unit Review Committee for Academic Assessment	2001-2004
	Arts & Sciences Planning Committee	2001-2003
	New Faculty Initiative Review Committee	2000-2002
	Academic Dean's Review Committee	1999-2002
	Ohio University Honorary Degree Committee	1999-2002
	Chair, Performance Funding Review Committee	1999-2000
	Arts & Sciences Awards Committee	1998-2000
	University Graduate Council	1998-1999
	1804 Proposal Review Committee	1997-2000
	Arts & Sciences Research Advisory Committee	1996-1997
	Arts & Sciences Academic Advisor	1991-2014
	Ohio University Research Council	1991-1993
	Arts & Sciences Staffing Advisory Committee	1990-1992
	Arts & Sciences Promotion and Tenure Committee	1989-2018
	Arts & Sciences Graduate Committee	1987-1992
	University College Academic Advisor	1986-1991
	Arts & Sciences Faculty Development Committee	1986-1989
	Faculty Senate	1986-1987

Department:	Chair, Promotion and Tenure Committee	2000-2014, 2017-18
	Undergraduate Coordinator	2000-2002
	Department Chair	1995-2000
	Acting Chair	1993-1994
	Graduate Chair	1987-1992
	Chair, Curriculum Committee	1985-1987
	Field Camp Director	1981-1988, 2016
Professional:	Research Advisor, Argonne National Laboratories	1984-1988
	Research Consultant, Cominco American Incorporated	1984-1985
	Senior Research Geologist, Exxon Production Research Company	1982-1983
	Visiting Research Scientist, Louisiana State University	1977-1981

PROFESSIONAL RECOGNITION

Visiting EU Professor, Charles University, Prague	2020-2021
Distinguished Scientist Award - Gesner Medal, Atlantic Geoscience Society	2019
Visiting Fellow Yale University	2018-
Named Honorary Member of the Trevithick Society	2018
Elected to the College of Bards of Cornwall, UK (Gorsedh Kernow)	2018
Outstanding Associate Editor <i>Geoscience Frontiers</i>	2018
Outstanding Associate Editor <i>Gondwana Research</i>	2018
Ohio University Keystroke Catalyst Award	2017
Co-Editor, <i>Lithosphere</i> (Geological Society of America)	2016-2020
Named Fellow of the Geological Society of America	2014
Guest Editor, <i>International Journal of Earth Sciences</i> (Springer)	2012-2015
Science Editor, <i>GSA Today</i> (Geological Society of America)	2011-2015
Associate Editor, <i>Geoscience Frontiers</i> (Elsevier)	2011-2020
Associate Editor, <i>Gondwana Research</i> (Elsevier)	2010-2020
Guest Editor, <i>Gondwana Research</i> (Elsevier)	2009
Named Distinguished Professor, Ohio University	2008
Editorial Board, <i>Geologica Saxonica</i>	2004-2020
A to Z of Earth Scientists, Facts On File Notable Scientists Series, 1 st Edition	2002
Visiting Professor, Instituto de Geología, Universidad Nacional Autónoma de México.	2001
Editorial Board, <i>Zeitschrift für Geologische Wissenschaften</i> , (Dresden)	2001-2006
Adjunct Professor, St. Francis Xavier University, Nova Scotia	1999-2020
Project Director, Program for North American Mobility in Higher Education	1996-2000
Who's Who in Science and Engineering	1996-2020
Editorial Board, <i>Geological Magazine</i> (Cambridge University Press)	1995-2006
W.F. James Professor of Pure and Applied Science, St. Francis Xavier University	1994
American Men and Women of Science	1994-2020
College of Arts and Sciences Outstanding Teacher Award, Ohio University	1992, 2006
Distinguished Faculty Award, Department of Geological Sciences, Ohio University	1992, 2003
Distinguished Lecturer, Atlantic Provinces Intercollegiate Council for the Sciences	1989
Peer Review Panelist, DOE Office of Nuclear Waste Isolation	1984-1988
Ohio University Outstanding Graduate Faculty Award Nominee	1984, 1987

MEMBERSHIPS

Geological Society of America (Fellow)	Ussher Society, U.K.
Geological Association of Canada	International Association of Gondwana Research
American Association of Petroleum Geologists	Society for Industrial Archeology
American Geophysical Union	International Stationary Steam Engine Society
Royal Cornwall Geological Society	Dartmoor Tinworking Research Society, U.K.
Sigma Xi	Trevithick Society, U.K. (Honorary Member)
Geological Society of Connecticut	Gorsedh Kernow U.K.
Cornish American Heritage Society	St. Ives Jumbo Association U.K.

PUBLICATIONS

(graduate student advisees underlined, undergraduate student advisees underlined in *italics*)

Refereed Articles

(>10 citations from Google Scholar. Citations = 11,716, H-index = 56, i10-index = 133)

179. Wu, G., Tian, W., Nance, R.D., Zhu, Y., Yang, S. and Yang, P. Northward closure of the Proto-Tethys Ocean: insights from the Tarim Craton, in preparation.
178. Nance, R.D., Strachan, R.A., Quesada, C. and Lin, S. 2023. J. Brendan Murphy: Profile and Recognition. **Geological Society of London Special Publication** 546, in press.
177. Nance, R.D., Strachan, R.A., Quesada, C. and Lin, S. 2023. Supercontinents, Orogenesis and Magmatism: A Tribute to the Career of J. Brendan Murphy. **Geological Society of London Special Publication** 546, in press.
176. Wu, G., Tang, H., Liu, X., Nance, R.D. and Wang, Z. 2023. Overview of the advances and challenges in the geology and hydrocarbon resources of the Tarim Basin (NW China). **Journal of Asian Earth Sciences**, in press.
175. Martin, E., Cawood, P.A., Murphy, J.B., Nance, R.D. and Heron, P. 2023. The tectonics of introversion and extroversion: redefining interior and exterior oceans in the supercontinent cycle, in *Supercontinents, Orogenesis and Magnetism*, edited by R.D. Nance, R.A. Strachan, C. Quesada and S. Lin. **Geological Society of London, Special Publication** 542, in press.
174. Heron, P.J., Gün, E., Shephard, G.E., Dannberg, J., Gassmöller, R., Martin, E., Sharif, A., Pysklywec, R.N., Nance, R.D. and Murphy, J.B. 2023. The role of subduction in the formation of Pangean oceanic large igneous provinces, in *Supercontinents, Orogenesis and Magnetism*, edited by R.D. Nance, R.A. Strachan, C. Quesada and S. Lin. **Geological Society of London, Special Publication** 542, in press.
173. Žák, J., Sláma, J., Syahputra, R. and Nance, R.D. 2023. Dynamics of Cambro–Ordovician rifting of the northern margin of Gondwana as revealed by the timing of subsidence and magmatism in rift-related basins. **International Geology Review**, in press, <https://doi.org/10.1080/00206814.2023.2172619>
172. Tian, W., Wu, G., Wang, Y., Shuai, Y., Nance, R.D., Xiaojun, Z., Suhail, H.A., Liang, H. and Zheng, B. 2023. Neoproterozoic subduction-related active rifting in the South China craton: insights from geochemical and zircon Hf isotopic data. **International Geology Review**, in press, <https://doi.org/10.1080/00206814.2022.2161077>
171. Murphy, J.B., R. Nance, R.D. and Wu, L. 2023. The provenance of Avalonia and its tectonic implications: a critical reappraisal, in *The Consummate Geoscientist: A Celebration of the Career of Maarten de Wit*, edited by A. Hynes and J.B. Murphy. **Geological Society of London, Special Publication** 531, in press, <https://doi.org/10.1144/SP531-2022-176>
170. Wu, L., Murphy, J.B. and Nance, R.D. 2022. Evaluation of paleomagnetic bias in Ediacaran global paleogeographic reconstructions. *Geophysical Research Letters*, <https://doi.org/10.1029/2022GL100405>
169. Nance, R.D., Evans, D.A.D. and Murphy, J.B. 2022. Pannotia: To be or not to be? **Earth Science Reviews**, 232, 104128, <https://doi.org/10.1016/j.earscirev.2022.104128>
168. Kuiper, Y.D., Murphy, J.B., Nance, R.D., Strachan, R.A. and Thompson, M.D. 2022. New developments in the Appalachian-Caledonian-Variscan orogen - Introduction. **Geological Society of America, Special Paper** 554, p. v-vii.
167. Zhou, X., Tian, W., Wu, G., Nance, R.D., Chen, Y., Zhao, Y., Yan W. and Zhang, Y. 2022. Geochemistry and U-Pb-Hf zircon systematics of Cryogenian *syn*-rift magmatic rocks from the subsurface of the Tarim Craton: Implications for subduction-related continental rifting. **Precambrian Geology**, v. 377, 106733, <https://doi.org/10.1016/j.precamres.2022.106733>
166. Ma, B., Tian, W., Wu, G., Nance, R.D., Zhao, Y., Chen, Y. and Huang, S. 2022. The subduction-related the Great

- Unconformity in the Tarim intracraton, NW China. **Global and Planetary Change**, v. 215, 103883
165. Zhou, X., Liu, W., Wu, G., Nance, R.D., Chen, Y., Xiao, Y., Yan, W., Zhao, Y., 2022. The latest Neoproterozoic basaltic and siliciclastic rocks and tectonic implications in the Tarim Craton, NW China **Journal of Asian Earth Sciences**, v. 232, 105148.
164. Syahputra, R., Žák, J. and Nance, R.D. 2022. Cambrian sedimentary basins of northern Gondwana: geodynamic markers of incipient rifting of ribbon continents? **Gondwana Research**, v. 105, 492-513.
163. Nance, R.D., 2022. The supercontinent cycle and Earth's long-term climate. **Annals of the New York Academy of Sciences**, v. 1515, p. 33-49.
162. G. Zhu, W. Liu, G. Wu, B. Ma, R.D. Nance, Z. Wang, Y. Xiao and Z. Chen, 2021. Geochemistry and U-Pb-Hf detrital zircon geochronology of metamorphic rocks in terranes of the West Kunlun Orogen: Protracted subduction in the northernmost Proto-Tethys Ocean. **Precambrian Research**, v. 363, 106344.
161. Murphy, J.B., Nance, R.D., Cawood, P.A., Collins, W.J., Dan, W., Doucet, L., Heron, P.J., Li, Z.-X., Mitchell, R.N., Pisarevsky, S., Pufahl, P., Quesada, C., Spencer, C.J., Strachan, R.A., Wu, L. 2021. Pannotia: In defence of its existence and geodynamic significance, in *Pannotia to Pangaea: Neoproterozoic and Paleozoic Orogenic Cycles in the Circum-Atlantic Region*, edited by J.B. Murphy, R.A. Strachan and C. Quesada. **Geological Society of London, Special Publication 503**, 13-39. (33)
160. Heron, P.J., Murphy, J.B., Nance, R.D., Pysklywec, R.N. 2021. Pannotia's mantle signature: the quest for supercontinent identification, in *Pannotia to Pangaea: Neoproterozoic and Paleozoic Orogenic Cycles in the Circum-Atlantic Region*, edited by J.B. Murphy, R.A. Strachan and C. Quesada. **Geological Society of London, Special Publication 503**, p. 41-61. (10)
159. Nance, R.D., 2020. The supercontinent cycle. in *Encyclopedia of Geology*, 2e, edited by S. Elias and D. Alderton, Academic Press, Cambridge, MA, v. 3, p. 891-902.
158. Wu, G., Yang, S., Nance, R.D., Chen, X., Liu, W., Wang, Z. and Xiao, Y. 2020. Switching from advancing to retreating subduction in the Neoproterozoic Tarim Craton, NW China: implications for Rodinia breakup. **Geoscience Frontiers**, v. 12, p. 161–171. (19)
157. Spencer, C., Roberts, N.M.W. and Nance, R.D. 2019. “Miles wide and miles deep” – Exploring the depth and breadth of geoscience during the first ten years of Geoscience Frontiers, **Geoscience Frontiers**, v. 10, p. 1219-1221.
156. Murphy, J.B., Nance, R.D., Gabler, L.B., Martell, A. and Archibald, D.A. 2019. Age, geochemistry and origin of the Ardara Appinites, NW Ireland. **Geoscience Canada**, v. 46, p. 31-48. (15)
155. Nance, R.D. and Murphy, J.B. 2019. Supercontinents and the case for Pannotia, in *Fifty Years of the Wilson Cycle Concept in Plate Tectonics*, edited by R.W. Wilson, G.A. Houseman, K.J.W. McCaffrey, A.G. Doré and S.J.H. Buiter. **Geological Society of London, Special Publication 470**, p. 65-85. (58)
154. Pastor-Galan, D., Nance, R.D., Murphy, J.B. and Spencer, C. 2019. Supercontinents: myths, mysteries, and milestones, in *Fifty Years of the Wilson Cycle Concept in Plate Tectonics*, edited by R.W. Wilson, G.A. Houseman, K.J.W. McCaffrey, A.G. Doré and S.J.H. Buiter. **Geological Society of London, Special Publication 470**, p. 39-64. (42)
153. Murphy, J.B., Nance, R.D., Keppie, J.D. and Dostal, J. 2019. The role of Avalonia in the development of tectonic paradigms, in *Fifty Years of the Wilson Cycle Concept in Plate Tectonics*, edited by R.W. Wilson, G.A. Houseman, K.J.W. McCaffrey, A.G. Doré and S.J.H. Buiter. **Geological Society of London, Special Publication 470**, p. 265-287. (36)
152. Murphy, J.B., Nance, R.D. and Johnston, S.T., 2016. Tectonic evolution of the Iberian margin of Gondwana and of correlative regions: A celebration of the career of Cecilio Quesada. **Tectonophysics**, v. 681, p. 1-5.

151. Neace, E.R., Nance, R.D., Murphy, J.B., Lancaster, P.J. and Shail, R.K., 2016. Zircon LA-ICPMS geochronology of the Cornubian Batholith, SW England. **Tectonophysics**, v. 681, p. 332-352. (12)
150. Dupuis, N.E., Murphy, J.B., Braid, J.A., Shail, R.K., Nance, R.D., and Scrivener, R.C. 2016. Mantle evolution in the Variscides of SW England: geochemical and isotopic constraints from mafic rocks. **Tectonophysics**, v. 681, p. 353-363.
149. Dupuis, N.E., Braid, J.A. Murphy, J.B., Shail, R.K., Archibald, D.A. and Nance, R.D. 2015. $^{40}\text{Ar}/^{39}\text{Ar}$ phlogopite geochronology of lamprophyre dykes in Cornwall, UK: new age constraints on Early Permian post-collisional magmatism in the Rhenohercynian Zone, SW England. **Journal of the Geological Society**, v. 172, 566-575. (26)
148. Nance, R.D., Neace, E.R., Braid, J.A., Murphy, J.B., Dupuis, N., R.K. Shail, R.K. 2015. Does the Meguma Terrane extend into SW England? **Geoscience Canada**, v. 42, p. 61-76. (25)
147. Nance, R.D., Neace, E.R., Braid, J.A., Murphy, J.D., Dupuis, N. and R.K. Shail, R.K. 2015. Does the Meguma Terrane extend into SW England? in *Reeltime Geological Syntheses: Remembering Harold "Hank" Williams*, edited by J.P. Hibbard, J.C. Pollock, J.B. Murphy, C.R. van Staal and J. Greenough, **GRCS**, v. 10, p. 423-438.
146. Murphy, J.B., Nance, R.D., Dostal, J. and Quesada, C. 2014. Rifts, arcs and orogens in space and time: A volume in honour of J. Duncan Keppie: An introduction. **International Journal of Earth Sciences**, v. 103, p. 1181–1186.
145. Nance, R.D., Murphy, J.B. and Santosh, M. 2014. The Supercontinent cycle: a retrospective essay. **Gondwana Research**, v. 25, p. 4-29. (626)
144. Nance, R.D. and Murphy, J.B. 2013. Origins of the supercontinent cycle. **Geoscience Frontiers**, v. 4, 439-448. (127)
(Republished in **Geoscience Frontiers 10th Anniversary Edition**, January 2019)
143. Murphy, J.B., Pisarevsky, S.A. and Nance, R.D. 2013. Potential geodynamic relationships between the development of peripheral orogens along the northern margin of Gondwana and the amalgamation of West Gondwana. **Mineralogy and Petrology**, v. 107, p. 635–650. (59)
142. Murphy, J.B. and Nance, R.D. 2013. Speculations on the mechanisms for the formation and breakup of supercontinents. **Geoscience Frontiers**, v. 4, p. 185-194. (88)
141. Keppie, J.D., Dostal, J., Murphy, J.B., Galaz-Escanilla, G., Ramos-Arias, M.A. and Nance, R.D. 2012. High pressure rocks of the Acatlán Complex, southern Mexico: Large-scale subducted Ordovician rifted passive margin extruded into the upper plate during the Devonian–Carboniferous. **Tectonophysics**, v. 560-561, p. 1-21. (22)
140. Nance, R.D., Gutiérrez-Alonso, G., Keppie, J.D., Linnemann, U., Murphy, J.B., Quesada, C., Strachan, R.A. and Woodcock, N.H. 2012. A brief history of the Rheic Ocean. **Geoscience Frontiers**, v. 3, p. 125-135. (270)
139. Keppie, J.D., Nance, R.D., Dostal, J., Lee, J.K.W. and Ortega-Rivera, A. 2012. Constraints on the subduction erosion/extrusion cycle in the Paleozoic Acatlán Complex of southern Mexico: geochemistry and geochronology of the type Piaxtla Suite. **Gondwana Research**, v. 21, p.1050-1065. (28)
138. Keppie, J.D. Murphy, J.B., Nance, R.D. and Dostal, J. 2012. Mesoproterozoic Oaxaquia-type basement in peri-Gondwanan terranes of Mexico, the Appalachians and Europe: T_{DM} age constraints on extent and significance. **International Geology Review**, v. 54, p. 313-324. (33)
137. Trainor, R.J., Nance, R.D. and Keppie, J.D. 2011. Tectonothermal history of the Mesoproterozoic Novillo Gneiss of eastern Mexico: support for a coherent Oaxaquia microcontinent. **Revista Mexicana de Ciencias Geológicas**, v. 28, p 580-592. (28)
136. Murphy J.B., Cousens, B.L., Braid, J.A., Strachan, R.A., Dostal, J. Keppie, J.D. and Nance, R.D. 2011. Highly depleted oceanic lithosphere in the Rheic Ocean: Implications for Paleozoic plate reconstructions. **Lithos**, v. 123,

p. 165-175. (53)

135. Keppie, J.D., Nance, R.D., Ramos-Arias, M.A., Lee, J.K.W., Dostal, J., Ortega-Rivera, A. and Murphy, J.B. 2010. Late Paleozoic subduction and exhumation of Cambro-Ordovician passive margin and arc rocks in the northern Acatlán Complex, southern Mexico: geochronological constraints. **Tectonophysics**, v. 495, p. 213-229. (25)
134. Nance, R.D. 2010. Neogene-Recent extension on the eastern flank of Mt. Olympus, Greece. **Tectonophysics**, v. 488, p. 282-292. (18)
133. Nance, R.D., Gutiérrez-Alonso, G., Keppie, J.D., Linnemann, U., Murphy, J.B., Quesada, C., Strachan, R.A. and Woodcock, N.H. 2010. Evolution of the Rheic Ocean. **Gondwana Research**, v. 17, p. 194-222. (617)
132. Keppie, J.D., Nance, R.D., Murphy, J.B., Dostal, J. and Braid, J.A. 2010. The high-pressure Iberian-Czech belt in the Variscan orogen: extrusion into the upper (Gondwanan) plate? **Gondwana Research**, v. 17, p. 306-316. (43)
131. Murphy, J.B., Keppie, J.D., Nance, R.D. and Dostal, J. 2010. Comparative evolution of the Iapetus and Rheic Oceans: A North America perspective. **Gondwana Research**, v. 17, p. 482-499. (105)
130. Nance, R.D. 2010. The Rheic Ocean: Palaeozoic Evolution from Laurentia and Gondwana to Pangaea – Introduction. **Gondwana Research**, v. 17, p. 189-192.
129. Murphy, J.B., Nance, R.D., Gutiérrez-Alonso, G. and Keppie, J.D. 2009. Supercontinent reconstruction from recognition of leading continental edges. **Geology**, v. 37, p. 595-598. (15)
128. Murphy, J.B., Gutiérrez-Alonso, G., Nance, R.D., Fernández-Suárez, J., Keppie, J.D., Quesada, C., Dostal, J. and Braid, J.A. 2009. Rheic Ocean mafic complexes: Overview and synthesis. **Geological Society of London**, Special Publication 327, 343–369. (31)
127. Nance, R.D., Keppie, J.D., Miller, B.V., Murphy, J.B. and Dostal, J. 2009. Palaeozoic palaeogeography of Mexico: Constraints from detrital zircon age data. **Geological Society of London**, Special Publication 327, p. 239–269. (25)
126. Murphy, J.B., Nance, R.D. and Cawood, P.A. 2009. Contrasting modes of supercontinent formation and the conundrum of Pangea. **Gondwana Research**, v. 15, 408-420. (146)
125. Keppie, J.D., Nance, R.D., Murphy, J.B., Miller, B.V., Dostal, J., and Ortega-Rivera, A. 2009. Pressure-temperature-time evolution of high pressure rocks of the Acatlán Complex (southern Mexico): implications for the evolution of the Iapetus and Rheic oceans: Comment. **Geological Society of America Bulletin**, v. 121, p. 1456-1459.
124. Nance, R.D. 2008. East Avalonia (Southern Britain and Ireland), in *The Geology of Central Europe, Volume 1*, edited by T. McCann, Geological Society Publishing House, Bath, UK, p. 43-46.
123. Nance, R.D. and Linnemann, U. 2008. The Rheic Ocean: Origin, evolution and significance. **GSA Today**, v. 18, n. 12, p. 4-12. (195)
122. Murphy, J.B. and Nance, R.D. 2008. The Pangea conundrum. **Geology**, v. 36, p. 703-706. (94)
121. Hinojosa-Prieto, H., Nance, R.D., Keppie, J.D., Dostal, J., Ortega-Rivera, A. and Lee, J.W.K. 2008. Ordovician and Late Paleozoic-Early Mesozoic tectonothermal history of the La Noria area, northern Acatlán Complex, southern Mexico: Record of convergence in the Rheic and paleo-Pacific Oceans. **Tectonophysics**, v. 461, p. 324–342. (16)
120. Gutiérrez-Alonso, G., Fernández-Suárez, J., Weil, A.B., Murphy, J.B., Nance, R.D., Corfú, F. and Johnston, S.T. 2008. Self-subduction of the Pangean plate and the breakup of Panges. **Nature Geoscience**, v. 1, p. 549-553. (154)
119. Keppie, J.D., Dostal, J., Murphy, J.B. and Nance, R.D. 2008. Synthesis and tectonic interpretation of the

- westernmost Paleozoic Variscan orogen in southern Mexico: from rifted Rheic margin to active Pacific margin. **Tectonophysics**, v. 461, p. 277–290. (144)
118. Keppie, J.D., Dostal, J., Miller, B.V., Ramos-Arias, M.A., Morales-Gómez, M., Nance, R.D., Murphy, J.B., Ortega-Rivera, A., Lee, J.W.K., Housh, T. and Cooper, P. 2008. Ordovician-earliest Silurian rift tholeiites in the Acatlán Complex, southern Mexico: evidence of rifting on the southern margin of the Rheic Ocean. **Tectonophysics**, v. 461, p. 130–156. (84)
117. Grodzicki, K.R., Nance, R.D., Keppie, J.D., Dostal, J. and Murphy, J.D., 2008. Structural, geochemical and geochronological analysis of metasedimentary and metavolcanic rocks of the Coatlico area, Acatlán Complex, southern Mexico. **Tectonophysics**, v. 461, p. 311-323. (27)
116. Nance, R.D., Murphy, J.B., Strachan, R.A., Keppie, J.D., Gutiérrez-Alonso, G., Fernández-Suárez, J., Quesada, C., Linnemann, U., D’Lemos, R.S. and Pisarevsky, S.A. 2008. Neoproterozoic-early Paleozoic paleogeography of the peri-Gondwanan terranes: Amazonian versus West African connections, in *The Boundaries of the West African Craton*, edited by N. Ennih and J-P. Liégeois. **Geological Society of London**, Special Publication 297, p. 345-383. (328)
115. Murphy, J.B., Gutiérrez-Alonso, G., Nance, R.D., Fernández-Suárez, J., Keppie, J.D., Quesada, C., Strachan, R.A. and Dostal, J. 2008. Tectonic plates come apart at the seams. **American Scientist**, v. 96, p. 129-137.
- Also in translation: Rotura de las placas tectónicas. **Investigacion y Ciencia**, May 2008, no. 380, p. 31-41.
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LEADERSHIP ROLES IN PROFESSIONAL ORGANIZATIONS

- Symposium Co-organizer:* "Supercontinents, orogenic processes and magmatism: a celebration of the career of Brendan Murphy." Geological Association of America, Annual Meeting, Halifax, NS. May 16-17, 2022.
- Session Co-organizer:* "New developments in the Appalachian-Caledonian-Variscan orogen." Geological Society of America, Annual Meeting, Phoenix, AZ. September 23, 2019.
- Session Co-organizer:* "Peri-Gondwanan Terranes and Their Origins: What Do We Really Know?" Geological Society of America, Northeastern Section Meeting, Portsmouth, NH. March 18, 2019.
- Field Trip Co-Leader:* "Ueberroth and Hartman Zinc Mines." 83rd Annual Field Conference of Pennsylvania Geologists, Center Valley, Pennsylvania. October 4, 2018.
- Organizing Committee:* 11th IAGR International Conference "Gondwana to Asia". International Association for Gondwana Research, Beijing, China, September 20-23, 2014.
- Session Co-organizer:* "IGCP 597 and 574 tribute to Cecilio Qusada." Gondwana 15, Madrid, Spain. July 13-18, 2014.
- Symposium Co-organizer:* "Amalgamation and Breakup of Pangea in the Americas." Geological Society of America, Cordilleran Section Meeting, Querétaro, Mexico. March 29-31, 2012.
- U.S. Representative:* UNESCO International Geological Correlation Programme, Project 597: "Origin and Evolution of Pangea." September 2011-2015.
- Steering Committee:* International Association for Gondwana Research, 2010-2020.

- International Scientific Committee:* International Conference in Basic and Applied Sciences, Faculty of Science at Al Azhar University – Gaza. October 2010.
- Scientific Advisory Committee:* “From Gondwana and Laurussia to Pangaea: Dynamics of Oceans and Supercontinents.” 20th International Senckenberg-Conference and 2nd Geinitz-Conference, Frankfurt, Germany. October 1-3, 2008.
- Scientific Commentator:* “Naked Science: Birth of America,” National Geographic Channel, March 6, 2008.
- Co-Organizer:* “The Western End of the Rheic Ocean.” International Geoscience Programme, IGCP Project 497 Mexican Meeting, Puerto Escondido, Mexico. February 23-March 2, 2008.
- Scientific Commentator:* “Naked Science: Birth of America,” National Geographic Channel, March 6, 2008.
- Field Trip Co-Leader:* “The Western End of the Rheic Ocean.” International Geoscience Programme, IGCP Project 497 Mexican Meeting, Puerto Escondido, Mexico. February 23-March 2, 2008.
- Session Co-organizer:* “Time Slices Across the Appalachians: Role of the Rheic Ocean in the Development of the Appalachian Orogen.” Geological Society of America, Northeastern Section Meeting, Harrisburg, PA. March 20, 2006.
- Symposium Co-organizer:* “Acatlán Complex, southern México: Part of the Iapetus, Rheic or paleo-Pacific ocean?” IV Reunión Nacional de Ciencias de la Tierra, Querétaro, México. November 1, 2004.
- Project Co-leader:* UNESCO International Geological Correlation Program, Project 497: “The Rheic Ocean: its origin, evolution and correlatives.” September 2004-2008.
- Earth Sciences Keynote Lecture Co-author:* Atlantic Provinces Interuniversity Council on the Sciences, St. John’s, NF. February 23, 2004.
- Fieldtrip Co-leader:* Geological Society of America, Cordilleran Section, Field Trip 12: “Paleozoic and Precambrian rocks of southern Mexico – Acatlán and Oaxacan complexes.” Mexico. April 4-10, 2003.
- Project Director:* Program for North American Mobility in Higher Education: “Free trade in the geologic past: an ancient common heritage.” October 1996-2000.
- Organizer:* Annual State Geology Chairs Meeting, Columbus, OH. April 1995-2000.
- U.S. Representative:* UNESCO International Geological Correlation Program, Project 453: “Modern and ancient orogens: uniformitarianism revisited.” September 1999-2004.
- Session Chair:* International Geological Correlations Program, Project 376, Oaxaca, Mexico. October 22.
- U.S. Delegate:* UNESCO International Geological Correlation Program, Project 376: “Laurentian-Gondwanan connections before Pangea.” September 1995-1999.
- Fieldtrip Co-leader:* Program for North American Mobility in Higher Education: “Lithotectonic development of the eastern margin of Laurentia.” June 28-July 12, 1998.
- Fieldtrip Leader:* Program for North American Mobility in Higher Education: “Tectonic development of the eastern margin of Laurentia.” July 14-23, 1997.
- U.S. Delegate:* UNESCO International Geological Correlation Program, Project 288. “Gondwana sutures and fold belts.” 1997.
- Consultant:* Geodynamic Map of Gondwana Assembly, 1:10,000,000. IGCP Project 288. Bureau de Recherches Géologiques et Minières, Orléans, France. 1996.
- U.S. Delegate:* UNESCO International Geological Correlation Program, Project 320. “Neoproterozoic events and resources.” September 1993-1998.
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- Symposium Co-organizer:* “Recent developments in Avalonian tectonics.” Geological Society of America, Northeastern Section, Binghamton, NY. March 28, 1994.
- Symposium Co-organizer:* “Circum-Atlantic correlations.” Geological Association of Canada, Annual Meeting, Wolfville, NS. May 25-26, 1992.
- Fieldtrip Co-leader:* Geological Association of Canada, Field Trip C-2: “Cobequid Highlands, Nova Scotia: the interplay of episodic magmatism, volcanism and ductile/brittle strain.” Wolfville, NS. May 26-27, 1992.
- Fieldtrip Co-leader:* Geological Association of Canada, Field Trip C-12: “The Avalon terrane of Maritime Canada.” Wolfville, NS. May 28-June 4, 1992.
- Session Chair:* Geological Association of Canada, Annual Meeting, Montreal, PQ. May 15, 1989.
- Session Chair:* Special Meeting of the Geological Society of London, Oxford, U.K. April 6-8, 1988.
- Session Co-chair:* Geological Society of America, Northeastern Section Meeting, Klamesha Lake, NY. March 13.
- U.S. Delegate:* UNESCO International Geological Correlation Program, Project 233. “Terranes of the circum-Atlantic Paleozoic orogens.” June 1985-1990.

COURSES TAUGHT

Charles University (Prague):

Global Dynamics and the Supercontinent Cycle (2020-21)

Ohio University:

Geol. 1200: Mobile Earth (1989-2022)
Geol. 291J: Continental Drift (1981-82; 1984)
Geol. 3/5600: Structural Geology (1981; 1983-2017)
Geol. 4/502: International Field School (1997-98)
Geol. 4/520: Petrography (2008)
Geol. 4/561: Advanced Structural Geology (1981; 1984; 1986; 1988; 1990-92)
Geol. 4/564: Regional Tectonics (1982; 1985; 1987; 1990)
Geol. 4/566: Geodynamics (1981-82; 1984-92; 1999; 2002-3)
Geol. 501: Advanced Physical Geology (1983-89)
Geol. 283: Geology for Engineers (1990)
Geol. 320: Petrology (2008)
Geol. 3/587: Field Camp (1981-82; 1984; 1986-88)
Geol. 4/520: General Petrology (1981-82)
Geol. 4/521: Metamorphic Petrology (1984-93)
Geol. 4910: Field Geology (2009-11; 2013-16)
Geol. 495: Senior Thesis (1998-2000)
Geol. 695: Thesis (1981-82; 1984-2017)

Exxon Production Research Company:

Fundamentals of Structural Analysis: EPRCo, Houston, TX (1982-83) and J.T. Stanvac, Jakarta, Indonesia (1983)

St. Francis Xavier University:

Geol. 100: Introductory Geology (1976-1980)
Geol. 205: Crystallography and Mineralogy (1976-1979)
Geol. 275: Geological Mapping (1977-1980)
Geol. 355: Structural Geology (1976-1979)
Geol. 491: Senior Seminar (1977-1980)
Geol. 356: Advanced Structural Geology (1978; 1980)
Geol. 305: Metamorphic Petrology (1977; 1980)

GRADUATE STUDENT THESES

Students Directed:

- Gabler, L., 2018. Petrology, geochemistry and geochronology of the Ardara appinites, County Donegal, NW Ireland. M.S. thesis, Ohio University, 84 p.
- Vanadia, D., 2017. Mapping the Outer Margin of the Serpent Mound Impact Structure to Assess the Outer Limit of Deformation: Adams, Highland, and Pike Counties, Ohio. M.S. thesis, Ohio University, 94 p.
- Neace, E., 2015. Zircon inheritance in the Cornubian batholith: Constraints on Paleozoic paleogeography. M.S. thesis, Ohio University, 79 p.
- Trainor, R.J., 2010. Structural/kinematic and metamorphic analysis of the Novillo Gneiss, Tamaulipas, Mexico. M.S. thesis, Ohio University, 117 p.
- Grodzicki, K. 2006. Structural/kinematic and geochemical analysis of part of the Cosoltepec Formation, Acatlán Complex, southern Mexico. M.S. thesis, Ohio University, 98 p.
- Hinojosa-Prieto, H.R. 2006. Tectonothermal history of the La Noria-Las Calaveras region, Acatlán Complex, southern Mexico: implications for Paleozoic tectonic models. M.S. thesis, Ohio University, 137 p.
- Barley, B.J. 2006. Polyphase deformation in Los Cerros de Las Minas, Acatlán Complex, Mexico. M.S. thesis, Ohio University, 58p.
- Barley, B.J. 2004. Kinematic and geochronologic history of a crystalline basement complex in the Nopah Range, Tecopa, California. B.S. thesis, Ohio University, 38 p.
- Dowe, D.A. 2004. Deformational history of the Granjeno Schist near Ciudad Victoria, Mexico. M.S. thesis, Ohio

- University, 106 p.
- Wessel, Z.R. 2004. Structural analysis of a potential peri-Gondwanan detachment: George River Suite-Bras d'Or Gneiss contact relations in the Creignish Hills, Cape Breton, Nova Scotia. M.S. thesis, Ohio University, 104 p.
- Malone, J.W. 2000. Structural and kinematic history of the Tecamate and Cosoltepec Formations, Acatlan Complex, southern Mexico. M.S. thesis, Ohio University, 103 p.
- Mumma, S.A. 2000. Petrography of the Tultitlan mafic body, Puebla Province, Mexico. B.S. thesis, Ohio University, 39 p.
- Thomas, D.A. 1999. Structural evolution of the Antigonish Basin, Nova Scotia, M.S. thesis, Ohio University, 82 p.
- Syrowski, K.A. 1998. Fracture Patterns in the Pennsylvanian Conemaugh Group in Southeastern Ohio. B.S. thesis, Ohio University, 78 p.
- Yueh-jiun Yang. 1996. Modeling the groundwater flow and extent of trichloroethylene in the Zanesville well field, Zanesville, Ohio. M.S. thesis, Ohio University, 453 p. (Acting Director).
- Schreckengost, K.A. 1995. Kinematic and structural evidence for dextral reactivation of the Kingston complex, southern New Brunswick, Canada. M.S. thesis, Ohio University, 83 p.
- Reed, B.C. 1993. Structural history of the western Cumberland Basin, Nova Scotia, Canada. M.S. thesis, Ohio University, 93 p.
- Yan Ning. 1992. Geology of the Little Dipper Harbour area, southern New Brunswick, Canada. M.S. thesis, Ohio University, 138 p.
- Zain Eldeen, U. 1991. The geology of the Dipper Harbour area, southern New Brunswick, Canada. M.S. thesis, Ohio University, 151 p.
- Clark, D.A. 1990. Subtectospheric heat sources, the shield, and development of intracratonic basins. M.S. thesis, Ohio University, 1193 p.
- Miller, B.V. 1989. Kinematic, structural and tectonic analysis of the Rockland Brook Fault, Cobequid Highlands, Nova Scotia. M.S. thesis, Ohio University, 161 p.
- Caudill, M.R. 1989. Sedimentology of the Balls Lake and Lancaster formations, Saint John Harbour, New Brunswick. M.S. thesis, Ohio University, 219 p.
- Roaza, H.P. 1989. Electron spin resonance dating of natural quartz. M.S. thesis, Ohio University, 127 p.
- Schroeder, K.E. 1987. Structure and stratigraphy related to gold mineralization at the Howie Mine, south-central North Carolina. M.S. thesis, Ohio University, 209 p.
- Warner, J.B. 1985. Variscan fabrics and structural geometry of the Mispic-Cape Spencer region, Saint John, New Brunswick. M.S. thesis, Ohio University, 94 p.
- Bentz, M.G. 1984. Progressive structural and stratigraphic events affecting the Roberts Mountains allochthon in the Devil's Gate area, Nevada. M.S. thesis, Ohio University, 222 p.
- Reddy, C.J. 1984. Landsat lineament analysis and gas production from the Devonian shales of southeastern Ohio. M.S. thesis, Ohio University, 118 p.
- Bebel, D.J. 1982. Depositional environments of the Lower Pottsville Group (Pennsylvanian) in Jackson County, Ohio. M.S. thesis, Ohio University, 102 p.

GRANTS

2023-26:	Detrital zircon geochronology as a tool for interpreting terrane provenance. (co-applicant with PIs J. Žák, Charles University and M. Svojtka, Institute of Geology of the Czech Academy of Sciences) <i>Grantová Agentura České Republiky (Czech Science Foundation)</i>	Czk 7,260,000
2020:	European Union Visiting Professorship in Earth Sciences, Charles University, Prague <i>Czech Operational Programme Research, Development and Education</i>	Czk 415,000
2016:	The World Heritage Mining Landscape of Cornwall, UK: Completing the Record <i>Ohio University Baker Fund</i>	\$10,141
2015-20:	GSA Research Honorarium <i>Geological Society of America</i>	\$45,000
2014:	The 19th Century Mining Landscape of Cornwall: Completing the Record. <i>British Council for Archaeology (with matching OU funds)</i>	\$3000
2013:	Recording the 19 th Century Mining Landscape of Cornwall. <i>British Council for Archaeology (with matching OU funds)</i>	\$3000
2010-11:	Recording the World Heritage Mining Landscape of West Cornwall, UK. <i>Ohio University Research Council</i>	\$6462
2007-09:	The Acatlán Complex, southern Mexico: Record of the closure of one or several major Paleozoic oceans? <i>Ohio University Baker Fund</i>	\$10,563
2004-08:	The Rheic Ocean: its origin, evolution and correlatives (co-PI with U. Linnemann, Museum für Mineralogie und Geologie, Dresden) <i>UNESCO International Geological Correlation Programme, Project 497</i>	\$20,000
2003-06:	Collaborative Research: Tectonothermal history of the Acatlán Complex, southern Mexico: A record of the closure of the Rheic Ocean? (co-PI with B.V. Miller, Texas A&M University). <i>National Science Foundation</i>	\$252,747
2002-03:	Tectonic evolution of the Granjeno Schist, NE Mexico: A combined structural and geochronological investigation. <i>Ohio University 1804 Fund</i>	\$25,970
2002:	Establishing an Ohio University Geology Field Camp. (Co-PI with D.A. Schneider and G.C. Nadon, Ohio University) <i>Ohio University 1804 Fund</i>	\$19,700
2002:	New faculty position in Geoscience Education <i>Ohio University New Faculty Initiative</i>	\$90,000
2001-02:	Paleozoic tectonostratigraphy of the Acatlán Complex, southern Mexico. <i>Ohio University Baker Fund</i>	\$7,909
2001-02:	Tectonic significance of the Acatlán Complex, southern Mexico <i>Ohio Research Challenge</i>	\$6,000
1999:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (renewal). <i>Fund for the Improvement of Postsecondary Education, Program for North American Mobility in Higher Education (U.S. Department of Education)</i>	\$14,032
1998:	Free trade in the geologic past: An ancient common heritage: A student mobility program relating to geology and the environment. (renewal).	

	<i>Fund for the Improvement of Postsecondary Education, Program for North American Mobility in Higher Education</i> (U.S. Department of Education)	\$36,180
1998:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (renewal). (Co-grantee with J. Dostal, St. Mary's University, Nova Scotia) <i>Department of Human Resource Development Canada</i>	Cdn \$42,000
1998:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (renewal). (Co-grantee with J.D. Keppie, Universidad Nacional Autónoma de México) <i>Secretaría de Educación Pública de Mexico</i>	Mex \$160,000
1997:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (renewal). <i>Fund for the Improvement of Postsecondary Education, Program for North American Mobility in Higher Education</i> (U.S. Department of Education)	\$36,180
1997:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (renewal). (Co-grantee with J. Dostal, St. Mary's University, Nova Scotia) <i>Department of Human Resource Development Canada</i>	Cdn \$42,000
1997:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (renewal). (Co-grantee with J.D. Keppie, Universidad Nacional Autónoma de México) <i>Secretaría de Educación Pública de Mexico</i>	Mex \$160,000
1996:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. <i>Fund for the Improvement of Postsecondary Education, Program for North American Mobility in Higher Education</i> (U.S. Department of Education)	\$36,180
1996:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (Co-grantee with J. Dostal, St. Mary's University, Nova Scotia) <i>Department of Human Resource Development Canada</i>	Cdn \$42,000
1996:	Free trade in the geologic past: an ancient common heritage. A student mobility program related to geology and the environment. (Co-grantee with J.D. Keppie, Universidad Nacional Autónoma de México) <i>Secretaría de Educación Pública de Mexico</i>	Mex \$60,000
1996.	A Survey of Engine Houses on the Mines of South Devon <i>Ohio University Research Council</i>	\$2,000
1995.	Second International Symposium on the Protection, Promotion and Development of Olympus. (Co-grantee with A.N. Genes, University of Massachusetts and G.W. Smith, Ohio University) <i>Municipality of Litochoro, Greece</i>	\$13,750
1994:	Pleistocene glacial history of Mt. Olympus, Greece. (Co-PI with A.N. Genes, University of Massachusetts and G.W. Smith, Ohio University) <i>Earthwatch</i>	\$38,240
1993-95:	Glacial history of Mt. Olympus, Greece: Implications for climate change. (Co-PI with G.W. Smith, Ohio University and A.N. Genes, University of Massachusetts) <i>National Geographic Society</i>	\$23,550
1993:	Glacial and Pleistocene geology of Mount Olympus, Greece. (Co-PI with A.N. Genes, University of Massachusetts and G.W. Smith, Ohio University)	

	<i>Earthwatch</i>	\$28,680
1992:	Pleistocene glacial history of Mt. Olympus, Greece. (Co-PI with A.N. Genes, University of Massachusetts and G.W. Smith, Ohio University) <i>Earthwatch</i>	\$19,800
1992-93:	Pleistocene and Recent history of Mount Olympus, Greece. (Co-PI with G.W. Smith, Ohio University) <i>Ohio University Baker Award</i>	\$6400
1991-92.:	Glacial and Pleistocene geology of Mount Olympus, Greece. (Co-PI with G.W. Smith, Ohio University) <i>Ohio University Research Council</i>	\$6000
1991:	Glacial and Pleistocene geology of Mount Olympus, Greece. (Co-PI with A.N. Genes, University of Massachusetts and G.W. Smith, Ohio University) <i>Earthwatch</i>	\$23,346
1990-93:	Collaborative Research: Constraints on the tectonothermal evolution of the Avalon composite terrane in southwestern New Brunswick: A collaborative $^{40}\text{Ar}/^{39}\text{Ar}$ and structural investigation. (Co-PI with R.D. Dallmeyer, University of Georgia) <i>National Science Foundation</i>	\$124,871
1990-91:	Tectonostratigraphic terrane linkages in the Avalonian-Cadomian Belt. <i>National Science Foundation</i>	\$8250
1989-90:	Constraints on the tectonothermal evolution of the Avalon composite terrane in southwestern New Brunswick: A collaborative $^{40}\text{Ar}/^{39}\text{Ar}$ and structural investigation. <i>Ohio Research Challenge Program</i>	\$7200
1988:	Geology of the eastern Cobequid Highlands, Nova Scotia. <i>Geological Survey of Canada</i>	\$6000
1988-98:	Basement-cover relations and tectonothermal evolution of the Avalon terrane, Cobequid Highlands, Nova Scotia. <i>Ohio Research Challenge Program</i>	\$13,000
1986-87:	Age and kinematic history of the Pocologan mylonite zone, southern New Brunswick. <i>Ohio University Research Council</i>	\$4956
1986-87:	Structural-geochronological analysis of pre-Alleghanian, Paleozoic deformation in the Avalon terrane of southern New Brunswick. <i>Ohio Research Challenge Program</i>	\$13,300
1985-86:	Structural analysis and tectonic history of the Avalon terrane, Saint John, New Brunswick. <i>Ohio University Baker Award</i>	\$6500
1984-85:	Deformation of the Mispic Group and the nature of the Alleghenian front in southern New Brunswick. <i>Ohio University Research Council</i>	\$3600
1982:	Research equipment proposal. <i>Ohio University Planning and Advisory Council</i>	\$6500
1982:	Mineral zonation in the Ohio-Sylvan Glen copper belt, Nova Scotia. <i>Nova Scotia Geoscience Research Grant</i>	\$2000
1981-82:	Structural history of the Saint John region, southern New Brunswick. <i>Ohio University Research Council</i>	\$3925

1980-81:	Structural interpretation of the Cape George peninsula, Nova Scotia. <i>Natural Science and Engineering Research Council, Canada</i>	\$3500
1972-75:	The Livadi mafic-ultramafic complex and its metamorphic basement, N.E. Greece. <i>Natural Environment Research Council (U.K.)</i>	\$9000