

MICHAEL J. O'BRIEN

Office of the Provost
Texas A&M University–San Antonio
San Antonio, TX 78224
(210) 784-1202 (office)

EDUCATION: B.A., Rice University (1972)
Ph.D., University of Texas at Austin (1977)

PRESENT POSITIONS: Provost and Professor of History
Texas A&M University–San Antonio

PROFESSIONAL EXPERIENCE:

2006–2016	Dean College of Arts and Science University of Missouri
1986–2006	Associate Dean College of Arts and Science University of Missouri
1989–2016	Professor of Anthropology Director, Museum of Anthropology Department of Anthropology University of Missouri
1989–1993	Research Collaborator Department of Anthropology Smithsonian Institution
1985–1989	Associate Professor Department of Anthropology University of Missouri
1980–1984	Assistant Professor Department of Anthropology University of Missouri
1977–1980	Research Associate Department of Anthropology University of Nebraska

PROFESSIONAL OFFICES:

1986–1989	Associate Editor, <i>American Antiquity</i>
1985–1989	Editor, <i>American Archeology</i>
1983–2006	Editor, <i>Missouri Archaeological Society Quarterly</i>
1993–1997	Board of Directors, Missouri Museums Association
1980–1986	Board of Directors, Missouri Association of Professional Archaeologists
1983–1986	President, Missouri Association of Professional Archaeologists
1980–2006	Secretary, Missouri Archaeological Society
1997–2012	Editorial Board, <i>The Review of Archaeology</i>

PUBLICATIONS:

- 2018 *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren. Cambridge, Mass.: MIT Press. (in press)
- Issues in archaeological studies of convergence. In *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren. Cambridge, Mass.: MIT Press. (M. J. O'Brien, B. Buchanan, and M. I. Eren) (in press)
 - Why convergence should be a potential hypothesis for the emergence and occurrence of stone-tool form and production processes: An illustration using replication. In *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren. Cambridge, Mass.: MIT Press. (M. I. Eren, B. Buchanan, and M. J. O'Brien) (in press)
 - Assessing the likelihood of convergence among North American projectile-point types. In *Convergent Evolution in Stone-Tool Technology*, edited by M. J. O'Brien, B. Buchanan, and M. I. Eren. Cambridge, Mass.: MIT Press. (B. Buchanan, M. I. Eren, and M. J. O'Brien) (in press)
 - Mapping multiple drivers of human obesity. *Behavioral and Brain Sciences*. (R. A. Bentley and M. J. O'Brien) (in press)

- Dual inheritance, cultural transmission, and niche construction. In *The Handbook of Culture and Biology: Bridging Evolutionary Adaptation and Development*, edited by J. M. Causadias, E. H. Telzer, and N. A. Gonzales. New York: Wiley (M. J. O'Brien and R. A. Bentley) (in press)
 - Paleo Crossing (33ME274): A Clovis site in northeastern Ohio. In *The Eastern Fluted Point Tradition* (Vol. 2), edited by J. A. M. Gingerich. Salt Lake City: University of Utah Press (M. I. Eren, B. G. Redmond, G. L. Miller, B. Buchanan, M. T. Boulanger, B. M. Morgan, and M. J. O'Brien) (in press)
 - Obesity, metabolism and aging: a multi-scalar approach. In *Metabolic Aspects of Aging*, edited by M. A. Ottinger. New York: Elsevier. (R. A. Bentley, C. N. Ross, and M. J. O'Brien) (in press)
 - Chronological systems, establishment of. In *Encyclopedia of Global Archaeology* (rev. ed.), edited by C. Smith. New York: Springer. (in press)
- 2017 *The Acceleration of Cultural Change: From Ancestors to Algorithms*. Cambridge, Mass.: MIT Press. (R. A. Bentley and M. J. O'Brien)
- Explaining the origin of fluting in North American Pleistocene weaponry. *Journal of Archaeological Science* 81: 23–30. (K. A. Thomas, B. A. Story, M. I. Eren, B. Buchanan, B. N. Andrews, M. J. O'Brien, and D. J. Meltzer)
 - Environment-induced changes in selective constraints on social learning during the peopling of the Americas. *Scientific Reports* 7: 44431. (B. Buchanan, A. Chao, C.-H. Chiu, R. K. Colwell, M. J. O'Brien, A. Werner, and M. I. Eren)
 - A geometric morphometrics-based assessment of the number of point types on the Southern Plains during Plainview times. In *Plainview: The Enigmatic Paleoindian Artifact Style of the Great Plains*, edited by V. Holliday, E. Johnson, and R. Knudson, pp. 274–284. Salt Lake City: University of Utah Press (B. Buchanan, M. J. O'Brien, and M. Collard)
- 2016 Evaluating reproductive decisions as discrete choices under social influence. *Philosophical Transactions of the Royal Society B* 371:20150154. (R. A. Bentley, W. A. Brock, C. C. S. Caiado, and M. J. O'Brien)
- Fitness landscapes among many options under social influence. *Journal of Theoretical Biology* 405:5–16. (C. Caiado, W. A. Brock, R. A. Bentley, and M. J. O'Brien)

- Validating niche-construction theory through path analysis. *Archaeological and Anthropological Sciences* 8:819–837. (W. A. Brock, M. J. O’Brien, and R. A. Bentley)
- Statistical analysis of paradigmatic class richness supports greater Paleoindian projectile-point diversity in the Southeast. *American Antiquity* 81:174–192. (M. I. Eren, A. Chao, C.-H. Chiu, R. K. Colwell, B. Buchanan, M. T. Boulanger, J. Darwent, and M. J. O’Brien)
- Design space and cultural transmission: Case studies from Paleoindian eastern North America. *Journal of Archaeological Method and Theory* 23:692–740. (M. J. O’Brien, M. T. Boulanger, B. Buchanan, R. A. Bentley, R. L. Lyman, C. P. Lipo, M. E. Madsen, and M. I. Eren)
- Drivers of technological richness in prehistoric Texas: An archaeological test of the population size and environmental risk hypotheses. *Archaeological and Anthropological Sciences* 8:625–634. (B. Buchanan, M. J. O’Brien, and M. Collard)
- Clovis colonization of eastern North America: A phylogenetic approach. *Science and Technology of Archaeological Research* 2:67–89. (M. J. O’Brien, B. Buchanan, and M. I. Eren)
- Test, model, and method validation: The role of experimental stone replication in hypothesis-driven archaeology. *Ethnoarchaeology* 8:103–136. (M. I. Eren, S. J. Lycett, R. J. Patten, B. Buchanan, J. Pargeter, and M. J. O’Brien)
- More (and more) on Clovis. *Antiquity* 90:525–527.
- The role of food storage in human niche construction: An example from Neolithic Europe. *Environmental Archaeology* 20:364–378. (M. J. O’Brien and R. A. Bentley)
- A review of Late Pleistocene North American bone and ivory tools. In *Osseous Projectile Weaponry: Toward an Understanding of Pleistocene Cultural Variability*, edited by M. Langley, pp. 221–238. New York: Springer (M. J. O’Brien, R. L. Lyman, B. Buchanan, and M. Collard)
- Comment on “The evolution of cultural complexity: not by the treadmill alone,” by C. Andersson and D. Read. *Current Anthropology* 57:277–278. (M. J. O’Brien and R. A. Bentley)
- 2015 Niche construction and the evolution of leadership. *Academy of Management Review* 40:291–306. (B. R. Spisak, M. J. O’Brien, N. Nicholson, and M. van Vugt)
- Collective behaviour, uncertainty and environmental change. *Philosophical Transactions of the Royal Society A* 373:20140461 (R. A. Bentley and M. J. O’Brien)

- Social learning and technological evolution during the Clovis colonization of the New World. *Journal of Human Evolution* 80:159–170. (M. I. Eren, B. Buchanan, and M. J. O’Brien)
 - On the relevance of the European Neolithic. *Antiquity* 89:1203–1210. (R. A. Bentley, M. J. O’Brien, K. Manning, and S. Shennan)
 - The Cinmar discovery and the proposed pre-Late Glacial Maximum occupation of North America. *Journal of Archaeological Science: Reports* 2:708–713. (M. I. Eren, M. T. Boulanger, and M. J. O’Brien)
 - Neutron activation analysis of 12,900-year-old stone artifacts confirms 450–510+ kilometer Clovis tool-stone acquisition at Paleo Crossing (33ME274), northeast Ohio, U.S.A. *Journal of Archaeological Science* 53:550–558. (M. T. Boulanger, B. Buchanan, M. J. O’Brien, B. G. Redmond, M. D. Glascock, and M. I. Eren)
 - AMS radiocarbon dates for Pleistocene fauna from the American Northeast. *Radiocarbon* 57:1–4. (M. T. Boulanger, G. D. Lattanzi, D. C. Parris, M. J. O’Brien, and R. L. Lyman)
 - Transmission of cultural variants in the North American Paleolithic. In *Learning Strategies and Cultural Evolution during the Paleolithic*, edited by K. Aoki and A. Mesoudi, pp. 121–143. New York: Springer. (M. J. O’Brien, B. Buchanan, M. T. Boulanger, A. Mesoudi, M. Collard, M. I. Eren, R. A. Bentley, and R. L. Lyman)
 - Phylogenetic systematics. In *Mathematics and Archaeology*, edited by J. A. Barceló and I. Bogdanovic, pp. 232–246. Boca Raton, FL: CRC Press. (M. J. O’Brien, M. T. Boulanger, R. L. Lyman, and B. Buchanan)
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- 2014 Mapping collective behavior in the big-data era. *Behavioral and Brain Sciences* 37:63–119 [target article]. (R. A. Bentley, M. J. O’Brien, and W. A. Brock)
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 - More on the rumor of “intentional overshot flaking” and the purported “Ice-Age” Atlantic crossing. *Lithic Technology* 39:55–63. (M. I. Eren, R. J. Patten, M. J. O’Brien, and D. J. Meltzer)
 - Advances in documentation, digital curation, virtual exhibition, and a test of 3D morphometrics: A case study of the Vanderpool vessels from the ancestral Caddo territory. *Advances in Archaeological Practice* 2:69–75. (R. Z. Selden, Jr., T. K. Perttula, and M. J. O’Brien)
 - On the cutting edge: New methods and theory for analyzing stone tools. *Evolutionary Anthropology* 23:128–129. (M. J. O’Brien, M. Collard, and B. Buchanan)
 - Chronological systems, establishment of. In *Encyclopedia of Global Archaeology*, edited by C. Smith, pp. 1460–1471. New York: Springer.
 - Estimating a path through a map of decision making. *PLOS ONE* 9(11):e111022. (W. A. Brock, R. A. Bentley, M. J. O’Brien, and C. C. S. Caido)
 - Niche construction is an important component of a science of intentional change. *Behavioral and Brain Sciences* 37:432–434.
 - Comment on “An evolutionary developmental approach to cultural evolution” by C. Andersson, A. Törnberg, and P. Törnberg. *Current Anthropology* 55:167. (M. J. O’Brien and S. J. Lycett)
- 2013
- Sociopolitical complexity and the bow and arrow in the American Southwest. *Evolutionary Anthropology* 22:111–117. (T. L. VanPool and M. J. O’Brien)
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 - Exactly what is behind social acceptance? *International Water Power & Dam Construction* (May), pp. 43–45. (M. J. O'Brien and R. A. Bentley)
 - *Early arrivals: Native Americans*. In *Missouri River Country: 100 Miles of Stories and Scenery from Hermann to the Confluence*, edited by D. A. Burkhardt and C. Burkhardt, pp. 14–18. Boonville, Mo.: Missouri Life.
- 2012
- Genes, culture, and agriculture: An example of human niche construction [with CA* comment]. *Current Anthropology* 53:434–470. (M. J. O'Brien and K. N. Laland)
 - Cultural evolutionary tipping points in the storage and transmission of information. *Frontiers in Psychology* 3:1–14. (R. A. Bentley and M. J. O'Brien)
 - Statistical analysis cannot be divorced from archaeological theory: A reply to Potter. *American Antiquity* 77:372–375. (A. Mesoudi and M. J. O'Brien)
 - Beveled projectile points and ballistics technology. *American Antiquity* 77:774–788. (C. P. Lipo, R. C. Dunnell, M. J. O'Brien, V. Harper, and J. Dudgeon)
 - The buzzwords of the crowds. *New York Times* (Sunday Review) (Dec. 1), p. 4. (R. A. Bentley and M. J. O'Brien)
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 - An assessment of the impact of hafting on Paleoindian projectile-point variability. *PLoS ONE* 7(5):e36364. (B. Buchanan, M. J. O'Brien, J. D. Kilby, B. B. Huckell, and M. Collard)
 - A morphometric assessment of the intended function of cached Clovis points. *PLoS ONE* 7(2):e30530. (B. Buchanan, J. D. Kilby, B. B. Huckell, M. J. O'Brien, and M. Collard)
 - Tipping points among social learners: Tools from varied disciplines. *Current Zoology* 58:298–306. (R. A. Bentley and M. J. O'Brien)
 - Risk of resource failure and toolkit variation in small-scale farmers and herders. *PLoS ONE* 7:e40975. (M. Collard, B. Buchanan, A. Ruttle, and M. J. O'Brien)
 - The 1974–75 excavations at Mound Bottom, a palisaded Mississippian center in Cheatham County, Tennessee. *Southeastern Archaeology* 31:70–86. (M. J. O'Brien and C. Kuttruff)
 - Cultural cladistics and the early prehistory of North America. In *Evolutionary Biology: Mechanisms and Trends*, edited by P. Pontarotti, pp. 23–42. New York: Springer. (M. J. O'Brien, B. Buchanan, M. Collard, and M. T. Boulanger)
 - Mapping human behavior for business. *European Business Journal* May–June:23–26 (A. Bentley, M. Earls, and M. J. O'Brien)
 - Fish. In *Encyclopedia of Consumption and Waste: The Social Science of Garbage*, edited by C. A. Zimring, pp. 257–259. Thousand Oaks, Calif.: Sage.
- 2011 *I'll Have What She's Having: Mapping Social Behavior*. Cambridge, Mass.: MIT Press. (R. A. Bentley, M. Earls, and M. J. O'Brien)
- Cultural niche construction: An introduction. *Biological Theory* 6:191–202. (K. N. Laland and M. J. O'Brien)
 - Niche construction and the toolkits of hunter-gatherers and food producers. *Biological Theory* 6:251–259. (M. Collard, B. Buchanan, A. Ruttle, and M. J. O'Brien)
 - Stimulated variation and cascades: Two processes in the evolution of complex technological systems. *Journal of Archaeological Method and*

Theory 18:309–335. (M. J. O'Brien and R. A. Bentley)

- The selectivity of cultural learning and the tempo of cultural evolution. *Journal of Evolutionary Psychology* 9:125–141. (R. A. Bentley and M. J. O'Brien)
 - Points and prey: A quantitative test of the hypothesis that prey size influences early Paleoindian projectile point form. *Journal of Archaeological Science* 38:852–864. (B. Buchanan, M. Collard, M. J. Hamilton, and M. J. O'Brien)
 - A comment on Steele's (2010) "Radiocarbon dates as data: quantitative strategies for estimating colonization front speeds and event densities." *Journal of Archaeological Science* 38:2116–2122. (B. Buchanan, M. Hamilton, K. Edinborough, M. J. O'Brien, and M. Collard)
 - Quality versus mere popularity: A conceptual map for understanding human behavior. *Mind and Society* 10:181–191. (R. A. Bentley, M. J. O'Brien, and P. Ormerod)
 - Cultural innovation from an Americanist perspective. In *Investigating Archaeological Cultures: Material Culture, Variability, and Transmission*, edited by B. W. Roberts and M. Vander Linden, pp. 61–75. New York: Springer.
 - Robert C. Dunnell, 1942–2010. *SAA Archaeological Record* 11(4):54. (D. J. Meltzer and M. J. O'Brien)
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- 2009
- Placing archaeology within a unified science of cultural evolution. In *Pattern and Process in Cultural Evolution*, edited by S. J. Shennan. Berkeley: University of California Press, pp. 21–32. (A. Mesoudi and M. J. O'Brien)
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 - Darwinism and historical archaeology. In *The International Handbook of Historical Archaeology*, edited by T. Majewski and D. Gaimster, 227–252. New York: Springer. (M. J. O'Brien and R. L. Lyman)
- 2008
- Editor. *Cultural Transmission and Archaeology: Issues and Case Studies*. Washington, D.C.: Society for American Archaeology Press.
- Phylogenetics and the evolution of cultural diversity. In *Cultural Transmission and Archaeology: Issues and Case Studies*, edited by M. J. O'Brien, pp. 39–58. Washington, D.C.: Society for American Archaeology Press. (M. J. O'Brien, R. L. Lyman, M. Collard, C. J. Holden, R. D. Gray, and S. J. Shennan)
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- “The Prehistory of Dickson Mounds: The Dickson Excavations” by A. D. Harn, and “Dickson Camp and Pond: Two Early Havana Tradition Sites in the Central Illinois Valley” by A. M. Cantwell (Springfield: Illinois State Museum). *American Antiquity* 47:468–470.

REPORTS:

- 1994 Curation of Archaeological Materials: Goals Accomplished and Work in

- Progress, 1991–1994. Report submitted to the St. Louis District, U. S. Army Corps of Engineers. (M. J. O'Brien and J. W. Cogswell).
- 1993 Testing and Evaluation of Sites in the Cedar Creek District, Mark Twain National Forest. Report submitted to the U.S. Forest Service, Rolla, Missouri. (M. J. O'Brien and J. W. Cogswell).
- 1992 Report on the Completion of Curation of Archaeological Materials from Southeastern Missouri. Report submitted to the National Science Foundation. (M. J. O'Brien, D. M. Pearsall, and R. J. Hoard).
- 1979 An Archaeological and Historical Survey of a Section of Pike County, Missouri, to be Affected by Proposed Modification of Cuivre River Electric Cooperative Utility Lines. Report submitted to the Cuivre River Electric Cooperative, Troy. (M. J. O'Brien and J. E. Saunders).
- An Archaeological and Historical Survey of the Area to be Affected by Proposed Improvements to the Industrial Park, City of Mexico, Audrain County, Missouri. Report submitted to the City of Mexico.
- 1977 Intrasite Variability in a Middle Mississippian Community: The Mound Bottom Archaeological Project. Report submitted to the Division of Archaeology, Department of Conservation, State of Tennessee.
- 1976 Excavation of a Dallas Component Platform Mound, Anderson County, Tennessee. Report submitted to the Division of Archaeology, Department of Conservation, State of Tennessee.
- Excavations at Yucuita, Oaxaca, Mexico. Preliminary report submitted to the Institute for Latin American Studies, The University of Texas at Austin and the Instituto Nacional de Antropología e Historia, Mexico, D.F.
- 1975 Archaeological Fieldwork in Mexico Undertaken by the Department of Anthropology, 1972–1975. Report submitted to the Institute for Latin American Studies, The University of Texas at Austin.
- 1972 An Archaeological Assessment of Cultural Resources in the Proposed Allen's Creek Nuclear Power Plant Site. Report submitted to Dames and Moore, Inc., Houston. (T. Dillehay and M. J. O'Brien).
- An Assessment of Cultural Resources along Taylor Bayou, Harris County, Texas. Report submitted to Friendswood Development Co., Clear Lake City. (F. Hole and M. J. O'Brien).
 - Cultural Resources along Chocolate Bayou, Galveston County, Texas. Report submitted to Monsanto Chemical Co., Houston. (F. Hole and M. J. O'Brien).
- 1971 An Analysis of Site Location in Southern Harris County, Texas. Report

submitted to Friendswood Development Co., Clear Lake City.

PAPERS—INVITED/PROFESSIONAL MEETINGS:

- 2006 Constructing and using cultural phylogenies. Presented at the University of Vienna, January.
- Epistemological issues involved in cultural phylogenetics. Roundtable presentation at the Konrad Lorenz Institute, Altenberg, Austria, January.
- 2005 Archaeological phylogenetics: Issues and prospects. Presented at the University of British Columbia, October.
- Cultural transmission is not a unidimensional, monolithic entity. Presented at the conference “Pattern and Process in Cultural Evolution,” University College London, September.
 - “Archaeology as a Process: Processualism and Its Progeny.” Forum held at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, March–April. (M. J. O’Brien, R. L. Lyman, M. B. Schiffer, and J. Grathwohl)
- 2004 Archaeological systematics on the Great Plains. Presented at the 69th Annual Meeting of the Society for American Archaeology, Montreal, April. (M. J. O’Brien and R. L. Lyman)
- 2003 Some issues in the creation of cultural phylogenies. Presented at the 51st International Congress of Americanists, Santiago, Chile, July.
- The promise and challenges of phylogenetic methods for measuring relatedness in the archaeological record. Presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin, April. (C. P. Lipo and M. J. O’Brien)
 - Using cladistics to reconstruct lineages of Archaic projectile points in northeastern Missouri. Presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin, April. (J. A. Darwent and M. J. O’Brien)
 - Seriated artifacts as phylogenetic tests of the applicability of cladistics. Presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, April. (R. L. Lyman and M. J. O’Brien)
- 2001 Constructing phylogenetic hypotheses in archaeology: The case for cladistics. Presented at the annual meeting of the Human Behavior and Evolution Society, London, June.
- History of archaeological research in the lower Mississippi Valley. Presented at the 66th Annual Meeting of the Society for American

Archaeology, New Orleans, April.

- A historical sequence for southeastern Paleoindian points. Presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans, April. (J. Darwent, M. J. O'Brien, and R. L. Lyman)
- 2000 Cladistics and archaeological phylogeny. Presented at the 2do Reunion Internacional de Teoria Arqueologica en America del Sur, Olavarria, Argentina, October.
- Nels Nelson and the continuous measure of time. Presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia, April.
 - Southeastern fluted-point lineages. Presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia, April. (M. J. O'Brien, J. Darwent and R. L. Lyman)
- 1999 Classification, systematics, typology: The critical step in evolutionary archaeology. Presented at the 64th Annual Meeting of the Society for American Archaeology, Chicago, April. (M. J. O'Brien and R. L. Lyman)
- Studying complexity in the archaeological record: A matter of scale and units. Presented at the 64th Annual Meeting of the Society for American Archaeology, Chicago, April. (M. J. O'Brien, K. Y. Smith, R. D. Leonard, and R. L. Lyman)
 - Methodological challenges of an evolutionary archaeology. Presented at the 64th Annual Meeting of the Society for American Archaeology, Chicago, April. (M. J. O'Brien and R. L. Lyman)
 - Dating the Miami mastodon. Presented at the 64th Annual Meeting of the Society for American Archaeology, Chicago, April. (A. Earley, J. Feathers, R. C. Dunnell, and M. J. O'Brien)
 - The applicability of paleobiological systematics to the archaeological record. Presented at the 64th Annual Meeting of the Society for American Archaeology, Chicago, April. (M. J. O'Brien, R. L. Lyman, and S. Wolverton)
- 1998 Variation in stone tools from Turner and Snodgrass, southeastern Missouri. Presented at the 63rd Annual Meeting of the Society for American Archaeology, Seattle, March. (E. Gilliland and M. J. O'Brien)
- Turner and Snodgrass ceramics: Intrasite distributions and comparison between sites. Presented at the 63rd Annual Meeting of the Society for American Archaeology, Seattle, March. (M. K. Strode and M. J. O'Brien)

- Prehistoric footwear of North America. Presented at the 15th Annual Visiting Scholar's Conference, Southern Illinois University at Carbondale, April. (J. T. Kuttruff, G. DeHart, and M. J. O'Brien)
- 1997 The 1933 excavations at the Marksville site by Frank M. Setzler and James A. Ford. Presented at the Southeastern Archaeological Conference, Baton Rouge, Louisiana, November. (L. C. Kuttruff, M. J. O'Brien, and R. L. Lyman)
- Fiber, fabric, and footwear from Arnold Research Cave, Missouri. Presented at the Southeastern Archaeological Conference, Baton Rouge, Louisiana, November. (J. T. Kuttruff, G. DeHart, and M. J. O'Brien)
 - The Bureau of American Ethnology and its legacy to Southeastern Archaeology. Presented at the 62nd Annual Meeting of the Society for American Archaeology, Nashville, Tennessee, April. (M. J. O'Brien and R. L. Lyman)
 - Technological and compositional analysis of sand-tempered pottery from southeastern Missouri. Presented at the 62nd Annual Meeting of the Society for American Archaeology, Nashville, Tennessee, April. (J. W. Cogswell, H. Neff, M. D. Glascock, and M. J. O'Brien)
- 1996 Postmanufacture effects on the chemical characterization of prehistoric pottery: Evidence from the central Mississippi River valley. Presented at the 30th International Symposium on Archaeometry, Urbana, Illinois, May. (J. W. Cogswell, L. M. Ross, Jr., H. Neff, M. D. Glascock, and M. J. O'Brien)
- Neutron-activation analysis of pottery from Pinson Mounds and nearby sites in western Tennessee: Local production vs. long-distance importation. Presented at the 61st Annual Meeting of the Society for American Archaeology, New Orleans, April. (J. W. Cogswell, R. C. Mainfort, Jr., H. Neff, M. D. Glascock, and M. J. O'Brien)
- 1995 Analysis of postdepositional effects on prehistoric ceramics from southeastern Missouri: Implications for provenance studies. Presented at the 60th Annual Meeting of the Society for American Archaeology, Minneapolis, April. (J. W. Cogswell, L. M. Ross, Jr., H. Neff, M. D. Glascock, and M. J. O'Brien)
- 1994 The historical development of an evolutionary archaeology. Presented at the 59th Annual Meeting of the Society for American Archaeology, Anaheim, California, April.
- Neutron activation analysis of Campbell appliquéd pottery from southeastern Missouri and western Tennessee: Implications for late Mississippian intersite relations. Presented at the 59th Annual Meeting of the Society for American Archaeology, Anaheim, California, April. (J. W. Cogswell, M. J. O'Brien, R. C. Mainfort, Jr., H. Neff, and M. D.

Glascok)

- 1993 Late-period phases and assemblage variation in southeastern Missouri. Presented at the 58th Annual Meeting of the Society for American Archaeology, St. Louis, April.
- 1992 Behavioral archaeology and the extended phenotype. Presented at the 57th Annual Meeting of the Society for American Archaeology, Pittsburgh, April. (M. J. O'Brien and T. D. Holland)
- 1991 Evolutionary selectionism and the role of archaeometry. Presented at the 56th Annual Meeting of the Society for American Archaeology, New Orleans, April. (M. J. O'Brien and T. D. Holland)
- The role of adaptation in archaeological explanation. Presented at the 56th Annual Meeting of the Society for American Archaeology, New Orleans, April. (M. J. O'Brien and T. D. Holland)
- 1986 Specialized domestication and Middle Woodland groups in the riverine Midwest. Presented at the 3rd Annual Visiting Scholar's Conference, Southern Illinois University at Carbondale, March.
- 1985 The impact of federal archaeology in the American Midwest. Presented at the 50th Annual Meeting of the Society for American Archaeology, Denver, May. (M. J. O'Brien and W. R. Wood)
- Intensive surface collection and sample excavation of a Middle Woodland Havana community. Presented at the 50th Annual Meeting of the Society for American Archaeology, Denver, May.
- 1983 Geoarchaeological investigations in the Western Lowlands of Missouri. Presented at the annual Midwest Archaeological Conference, Iowa City, Iowa, October.
- 1982 A model of frontier settlement dynamics. Presented at the Annual Meeting of the Missouri Anthropological Association, Warrensburg, October.
- Digital enhancement of aerial photographs: An example from the central Mississippi River valley. Presented at the spring meeting of the Missouri Association of Professional Archaeologists, Eminence, March.
- 1981 Internal variation in a Mississippian site: The Ste. Genevieve Project. Presented at the 46th Annual Meeting of the Society for American Archaeology, San Diego, April–May.
- 1980 An Archaic projectile point sequence from the southern Prairie Peninsula. Presented at the annual Midwest Archaeological Conference, Chicago, October.

- 1979 Systematic determination of historical site eligibility to the National Register of Historic Places. Presented at the spring meeting of the Missouri Association of Professional Archaeologists, St. Louis, March.
- Regional perspectives in historical archeology: A case example from northeast Missouri. Presented at the 89th Annual Meeting of the Nebraska Academy of Science, Lincoln, April.
- 1978 Research design of the Cannon Reservoir Human Ecology Project. Presented at the 36th annual Plains Conference, Denver, November.
- An analysis of radiocarbon dates from Cannon Reservoir. Presented at the 36th annual Plains Conference, Denver, November.
- 1977 Theoretical considerations concerning the study of hunter-gatherer societies. Presented at the 35th annual Plains Conference, Lincoln, Nebraska, November.
- Analysis of household composition in a Mississippian community. Presented at the 42nd Annual Meeting of the Society for American Archaeology, New Orleans, May.
- 1976 An analysis of intrahouse variability in a large Mississippian community. Presented at the annual meeting of the Texas Archaeological Society, Houston, October.
- 1975 Political evolution in the Central Highlands of Mesoamerica. Houston Museum of Natural History Symposium on Mesoamerican Prehistory, Houston, April.
- 1973 Irrigation and settlement nucleation at Monte Alban: A test of models. Presented at the 38th Annual Meeting of the Society for American Archaeology, San Francisco, May. (M. J. O'Brien and J. A. Neely)
- 1972 Settlement patterns on the Upper Texas Gulf Coast. Presented at the annual meeting of the Texas Archeological Society, Austin, October.

FUNDING SOURCES (Funded):

- 2007 U.S. Army Corps of Engineers, \$19,000, "Curation of Archaeological Materials from Kansas City District Sites"
- 2006 U.S. Army Corps of Engineers, \$26,000, "Analysis of Archaeological Materials from St. Louis District Sites"
- 2005 National Science Foundation, \$339,635, "Archaeometry" (with M. D. Glascock and R. J. Speakman)
- U.S. Army Corps of Engineers, \$34,000, "Analysis of Archaeological

Materials from St. Louis District Sites”

- 2003 U.S. Army Corps of Engineers, \$31,000, “Analysis of Archaeological Materials from St. Louis District Sites”
- 2002 National Science Foundation, \$329,982, “Archaeometry” (with M. D. Glascock and H. Neff)
- 2000 National Archives and Records Administration, \$19,524, “Rehabilitating the Carl H. Chapman Archaeological Records”
- 1999 Missouri Department of Natural Resources, \$22,529, “Resurvey of Missouri Archaeology Project-ReMAP”
- Burns & McDonnell, \$17,401, “Survey of Municipal Waterlines in and around the City of Jackson, Missouri”
- 1998 University of Missouri Research Board, \$13,692, “Dating of Loess and Mastodon Bone, Saline County, Missouri”
- 1997 U.S. Army Corps of Engineers, \$121,000, “Cataloging of Archaeological Materials from Kansas City District Sites”
- U.S. Army Corps of Engineers, Waterways Experiment Station, \$132,000, “Examination of Archaeological Properties at Fort Leonard Wood, Missouri”
 - U.S. Army Corps of Engineers, \$136,000, “Cataloging of Archaeological Materials from St. Louis District Sites”
- 1996 U.S. Army Corps of Engineers, \$138,000, “Cataloging of Archaeological Materials from Kansas City District Sites”
- U.S. Army Corps of Engineers, Waterways Experiment Station, \$123,000, “Examination of Archaeological Properties at Fort Leonard Wood, Missouri”
- 1995 National Science Foundation, \$775,000, “Renovation of Chemistry Research Space, University of Missouri” (with J. Bauman and J. Atwood)
- U.S. Army Corps of Engineers, \$164,000, “Descriptive Analysis of Archaeological Materials from St. Louis District Sites”
 - National Park Service, \$22,000, “Archaeological Investigations at the U. S. Grant House”
- 1994 City of Columbia, Missouri, \$3,000, “Special Museum Projects”
- U.S. Army Corps of Engineers, \$10,000, “Cultural-Resource Inventory,

Mark Twain Lake”

- 1993 University of Missouri Office of the Vice Provost for Research, \$93,000, “Scientific Equipment for Archaeology”
- Missouri Department of Natural Resources, \$48,000, “Archaeological Survey of Missouri”
- 1992 U.S. Army Corps of Engineers, \$15,000, “Review of Cultural Resources, Mark Twain Lake”
- National Park Service, \$14,000, “Additional Archaeological Investigations at Alley Springs”
 - U.S. Forest Service, \$31,000, “Curation of Archaeological Properties and Assessment of Six Sites”
- 1991 U.S. Army Corps of Engineers, \$48,000, “The Archaeology of Missouri” (preparation of a book-length manuscript) (with W. R. Wood)
- National Park Service, \$35,000, “Archaeological Investigations at Alley Springs”
 - University of Missouri Office of the Vice Chancellor for Administrative Services, \$500,000, “Construction of the Museum of Anthropology Museum Support Center”
- 1990 U.S. Army Corps of Engineers, \$1,043,000, “Curation of Federal Archaeological Properties”
- 1989 National Science Foundation, \$113,000, “Curation of Archaeological Collections from Southeastern Missouri”
- State of Missouri Office of Administration, \$115,000, “Archaeological Research at Towosahgy”
 - Smithsonian Institution, \$770, “Short-Term Visitor Grant”
 - U.S. Army Corps of Engineers, \$8,000, “Curation of Archaeological Properties”
 - University of Missouri Office of the Vice President for Academic Affairs, \$20,000, “Development of a Natural-History-Collections Management Plan”
 - National Park Service, \$10,000, “Archaeological Survey and Testing in Ozark National Scenic Riverways”
 - Wenner Gren Foundation, \$6,000, “Analysis of Archaeological Materials from Ste. Genevieve, Missouri”

- University of Missouri Weldon Spring Fund, \$10,000, “Inter-campus Humanities Scholars Seminar”
- 1988 Center for Field Research, \$16,000, “Archaeological Excavations at Saline Creek”
- Missouri Department of Natural Resources, \$16,000, “Archaeological Survey of Missouri, Maintenance and Upgrade”
 - Missouri Historical Society, \$3,000, “Saline Creek Archival Work”
 - University of Missouri-Columbia Office of the Chancellor, \$10,000, “Archaeological Excavation of Francis Quadrangle”
 - University of Missouri Weldon Spring Fund, \$16,000, “Application of a Geographic Information System for Environmental-Impact Assessment” (with J. Asquith)
 - University of Missouri Weldon Spring Fund, \$26,000, “Inter-campus Humanities Scholars Seminar”
- 1987 U.S. Army Corps of Engineers, \$93,000, “Development of a Middle Mississippi River Historic-Properties Project”
- National Endowment for the Humanities, \$43,000, “Archaeology of the Saline Creek Valley, Missouri”
 - Weyerheuser Corporation, \$5,000, “Analysis of Ste. Genevieve Archival Materials”
 - Missouri Historical Society, \$6,000, “Translation of Spanish Archival Materials Related to Ste. Genevieve”
- 1986 The Center for Field Research, \$11,000, “Archaeological Excavations at Saline Creek, Missouri”
- National Park Service, \$9,000, “Archaeological Testing of Site 23DE7”
- 1985 Missouri Highway and Transportation Department, \$240,000, “Archaeological Excavation at Old Monroe, Missouri”
- University of Missouri Weldon Spring Fund, \$30,000, “An Analysis of Prehistoric Resource-Selection Strategies in the Central Mississippi River Valley”
 - University of Missouri Weldon Spring Fund, \$28,000, “Studies in the Natural and Cultural History of Ste. Genevieve through Tree-Ring Analysis” (with R. Guyette)

- U.S. Army Corps of Engineers, \$30,000, “Analysis of Archaeological Materials from the Cannon Reservoir Human Ecology Project”
 - North Dakota Humanities Council, \$2,000, “Remote Sensing of the Ft. Clark Historic Site” (with W. R. Wood)
 - The Center for Field Research, \$16,000, “The Archaeology of Early Ste. Genevieve: The Saline Creek Project”
- 1983 U.S. Army Corps of Engineers, \$10,000, “Excavation of the Bauman Site, Ste. Genevieve, Missouri”
- 1982 Missouri Highway and Transportation Department, \$30,000, “Archaeological Excavations in Butler County, Missouri”
- Missouri Highway and Transportation Department, \$12,000, “Testing of Archaeological Sites to Be Affected by the Route 63 Relocation”
- 1980 U.S. Army Corps of Engineers, \$59,000, “Analysis of Archaeological Materials from the Cannon Reservoir Human Ecology Project”
- Environmental Protection Agency and the City of Columbia, Missouri, \$183,000, “Excavation of Archaeological Sites to Be Affected by the Perche Creek Outfall Lines”