

BIOSKETCH (Ann F. Budd)

Business Address: Department of Earth & Environmental Sciences; The University of Iowa, Iowa City, Iowa 52242; Telephone: 319-335-1818; Fax: 319-335-1821; E-mail: ann-budd@uiowa.edu

EDUCATIONAL AND PROFESSIONAL HISTORY

Higher Education

- 1978 Ph.D., Earth & Planetary Science, Johns Hopkins University, Baltimore, MD
- 1975 M.A., Earth & Planetary Science, Johns Hopkins University, Baltimore, MD
- 1973 B.A., cum laude, Geology, Lawrence University, Appleton, WI

Professional and Academic Positions

- 2015-present Professor Emeritus, Department of Earth & Environmental Sciences, University of Iowa.
- 2011-2015 F. Wendell Miller Professor, University of Iowa.
- 1995-present Professor of Geoscience, University of Iowa.
- 2005-present Research Associate, National Museum of Natural History, Smithsonian Institution, Washington, DC.
- 2016-present Research Associate, Paleontological Research Institution, Ithaca, NY.
- 1998-2004 Chair, Department of Geoscience, University of Iowa.
- 1989-95 Associate Professor of Geology, University of Iowa.
- 1984-89 Assistant Professor of Geology, University of Iowa.
- 1984 Postdoctoral Fellow, Swiss National Science Foundation, Naturhistorisches Museum Basel.
- 1982 Postdoctoral Fellow, US/France Cooperative Science Program (National Science Foundation), Muséum National d'Histoire Naturelle, Paris.

Honors and Awards

- 2015 SEPM (Society for Sedimentary Geology) Raymond C. Moore Medal for “Excellence in Paleontology”
- 2011 Regents Award for Faculty Excellence, University of Iowa
- 2006 Elected Fellow of the Paleontological Society
- 2004 *PALAIOS* Outstanding Journal Paper of the Year, Honorable Mention
- 1998 *PALAIOS* Outstanding Journal Paper of the Year, Honorable Mention
- 1998 Gilbert Harris Award for Excellence in Systematic Paleontology (Paleontological Research Institution)

SCHOLARSHIP

Selected Refereed Publications (since 2010)

- Budd, A.F. and F.R. Bosellini (2016). Revision of Oligocene Mediterranean meandroid corals in the scleractinian families Mussidae, Merulinidae, and Lobophylliidae. *Journal of Systematic Palaeontology* 14:9, 771-798, DOI:10.1080/14772019.2015.1102171.
- Budd, A.F. and J.M. Pandolfi (2016). Contrasting patterns of speciation in reef corals and their relationship to population connectivity, pp.217-237. In: Allmon, W and M. Yacobucci (editors), 2014. *Species and speciation in the fossil record*. University of Chicago Press, Chicago, 384pp.
- Schwartz, S.A., A.F. Budd, and D.B. Carlon, 2012. Molecules and fossils reveal punctuated diversification in Caribbean “faviid” corals. *BMC Evolutionary Biology* 12, 123, doi: 10.1186/1471-2148-12-123.
- Budd, A. F., Fukami H., Smith N. D., Knowlton N, 2012. Taxonomic classification of the reef coral family Mussidae (Cnidaria: Anthozoa: Scleractinia). *Zoological Journal of the Linnean Society* 166: 465-529, doi: 10.1111/j.1096-3642.2012.00855.x.
- van Woesik, R., E.C. Franklin, J. O’Leary, T.R. McClanahan, J.S. Klaus, and A.F. Budd, 2012. Hosts of the Plio-Pleistocene past reflect modern-day coral vulnerability. *Proceedings of the Royal Society B* 279:2448-2456, doi: 10.1098/rspb.2011.2621.
- Budd, A.F., F. L. D. Nunes, E. Weil, and J. M. Pandolfi, 2012. Polymorphism in a common Atlantic reef coral (*Montastraea cavernosa*) and its long-term evolutionary implications. *Evolutionary Ecology* 26:265-290, doi: 10.1007/s10682-010-9460-8.

- Klaus, J.S., D.M. McNeill, A.F. Budd, and A.G. Coates, 2012. Neogene reef coral assemblages of the Bocas del Toro region, Panama: the rise of *Acropora palmata*. *Coral Reefs* 31:191-203, doi: 10.1007/s00338-011-0835-2.
- McNeill, D.F., J.S. Klaus, A.F. Budd, B. Lutz, and S. Ishman, 2012. Late Neogene Chronology and Sequence Stratigraphy of Mixed Carbonate-Siliciclastic Deposits of the Cibao Basin, Dominican Republic. *Geological Society of America Bulletin* 124: 35-58, doi: 10.1130/B30391.1.
- Budd, A.F., J.S. Klaus, and K.G. Johnson, 2011. Cenozoic diversification and extinction patterns in Caribbean reef corals: A review. *Paleontological Society Papers* 17: 79-94.
- Budd, A.F. and J. Stolarski. 2011. Corallite wall and septal microstructure in scleractinian reef corals: Comparison of molecular clades within the family Faviidae. *Journal of Morphology* 272: 66-88, doi:10.1002/jmor.10899.
- Budd, A.F. 2010. Tracing the long-term evolution of a species complex and its relationship to environmental change: Examples from the *Montastraea "annularis"* complex. *Paleoworld* 19: 348-356, doi:10.1016/j.palwor.2010.09.001.
- Budd A.F., S.L. Romano, N.D. Smith, and M.S. Barbeitos. 2010. Rethinking the phylogeny of scleractinian corals: A review of morphologic and molecular data. *Integrative and Comparative Biology* 50: 411-427, doi:10.1093/icb/icq062.
- Budd, A.F. and J.M. Pandolfi. 2010. Evolutionary novelty is concentrated at the edge of species distributions. *Science* 328:1558-1561, doi:10.1126/science.1188947.

External Grants (active since 2007)

- National Science Foundation Grant DBI-1349322 (3 yrs., 6/1/14-5/31/17, \$196,751); "CSBR: Natural History Collections: Critical renovation and revitalization of the University of Iowa Fossil Plant Collection" [PI= A.F. Budd; co-PI's= T.Adrain, J.Adrain, H.Sims]
- National Science Foundation Grant DEB-1145043 (4 yrs., 7/1/12-6/30/16, \$282,987); "Collaborative Proposal: ARTS: Revisionary systematics of fossil and living Caribbean faviid and mussid reef corals (Cnidaria, Anthozoa, Scleractinia)". [Lead PI = A.F. Budd]
- Encyclopedia of Life: Biodiversity Synthesis meeting, "Systematics and evolution of scleractinian corals", National Museum of Natural History, Smithsonian Institution, June 15-19, 2009, \$54,604 [PI= A.F. Budd; co-PI's= S.D. Cairns, N.Knowlton].
- National Science Foundation Grant DBI-0544235 (3 yrs., 4/15/06-4/14/09, \$284,724); "Computerization of the University of Iowa Paleontology Repository". [PI = A.F. Budd; co-PI's = J. Adrain, T. Adrain, C. Brochu]
- National Science Foundation Grant DEB-0543661 (3 yrs., 4/1/06-3/31/09, \$449,920; UI subcontract= \$85,261K); "A multidisciplinary approach to species boundaries in tropical reef corals ". [PI = D. Carlton (U. Hawaii); co-PI = A.F. Budd]
- National Science Foundation Grant EAR-0445789 (2 yrs., 5/01/05-4/30/07, \$102,421); "Collaborative Research: A Depositional and Paleoecological model of Neogene Reef Development in the Dominican Republic: Integrating Taxonomic and Chronostratigraphic Databases". (Lead PI = A.F. Budd)
- National Science Foundation Grant DEB-0343208 (3 yrs., 2/1/04-1/31/07, \$192,147); "Collaborative research: Biogeographic isolation and morphological convergence in scleractinian corals: morphological & molecular analyses of members of the suborder Faviina". (Lead PI = A.F. Budd)

PROFESSIONAL SERVICE (selected examples since 2007)

- | | |
|---------------|---|
| 1997-2006 | Editor, <i>Journal of Paleontology</i> (term 1, with B.Witzke and J.Golden, 1997-2000; term 2, with B.Witzke, J.Golden & J. Adrain, 2000-03; term 3, with J. Adrain & C. Brochu, 2003-06) |
| 2005- present | Coordinating Author (with J. Stolarski, S. Cairns, and G. Stanley), Treatise of Invertebrate Paleontology, Coelenterate volume F, Scleractinia. |
| 1996-present | Coordinator, Neogene Marine Biota of Tropical America (NMITA) Database |
| 2014 | NSF advisory panel for the Advancing Digitization of Biodiversity Collections program |
| 2008 | NSF advisory panel for the Sedimentary Geology and Paleobiology program |