

BIOGRAPHICAL SKETCH -- Ann F. Budd

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PROFESSIONAL PREPARATION:

- 1973 B.A., cum laude, Geology, Lawrence University, Appleton, WI
- 1975 M.A., Earth & Planetary Science, Johns Hopkins University, Baltimore, MD
- 1978 Ph.D., Earth & Planetary Science, Johns Hopkins University, Baltimore, MD
- 1982 Postdoctoral Fellow, US/France Cooperative Science Program (National Science Foundation), Muséum National d'Histoire Naturelle, Institut de Paléontologie, Paris
- 1984 Postdoctoral Fellow, Swiss National Science Foundation, Naturhistorisches Museum Basel

APPOINTMENTS:

- 1995-present Professor of Geoscience, The University of Iowa.
- 2005-present Research Associate, National Museum of Natural History, Smithsonian Institution, Washington, DC.
- 1998-2004 Chair, Department of Geoscience, The University of Iowa.
- 1989-95 Associate Professor of Geology, The University of Iowa.
- 1984-89 Assistant Professor of Geology, The University of Iowa.
- 1978-83 Adjunct Assistant Professor, The University of Iowa.
- 1978-79 Instructor, Augustana College, Rock Island, Illinois.

FIVE PUBLICATIONS MOST CLOSELY RELATED TO THIS PROPOSAL:

- Fukami, H., A.F. Budd, G. Paulay, A. Solé-Cava, C.A. Chen, K. Iwao, and N. Knowlton. 2004. Conventional Taxonomy Obscures Deep Divergence between Pacific and Atlantic Corals. *Nature* 427: 832-835.
- Budd, A.F. and N.D. Smith, 2005. Diversification of a new Atlantic clade of scleractinian reef corals: insights from phylogenetic analysis of morphologic and molecular data. *Paleontological Society Papers* 11: 103-128.
- Budd, A.F. and K.G. Johnson 1999. Neogene Paleontology in the Northern Dominican Republic. The Family Faviidae (Anthozoa: Scleractinia). Part II. The Genera *Caulastraea*, *Favia*, *Diploria*, *Manicina*, *Hadrophyllia*, *Thysanus*, and *Colpophyllia*. *Bulletins of American Paleontology* 109 (356): 5-83, pls. 1-21.
- Fukami, H., A.F. Budd, D.R. Levitan, J. Jara, R. Kersanach, and N. Knowlton. 2004. Geographic differences in species boundaries among members of the *Montastraea annularis* complex based on molecular and morphological markers. *Evolution* 58: 324-337.
- Budd, A.F. and J.M. Pandolfi. 2004. Overlapping species boundaries and hybridization within the *Montastraea "annularis"* reef coral complex in the Pleistocene of the Bahama Islands. *Paleobiology* 30: 396-425.

FIVE OTHER PUBLICATIONS:

- Johnson, K. G., J. B. C. Jackson, and A. F. Budd, 2008. Caribbean reef development was independent of coral diversity over 28 million years. *Science* 319(5869): 1521-1523.
- Budd, A.F. 2000. Diversity and extinction in the Cenozoic history of Caribbean reefs. *Coral Reefs* (invited review) 19: 25-35.
- Budd, A.F. and K.G. Johnson 1999. Origination preceding extinction during Late Cenozoic turnover of Caribbean reefs. *Paleobiology* 25: 188-200.
- Budd, A.F., R.A. Petersen, and D.F. McNeill. 1998. Stepwise faunal change during evolutionary turnover: a case study from the Neogene of Curaçao, Netherlands Antilles. *Palaios* 13: 167-185.
- Budd, A.F. and J.S. Klaus. 2001. The origin and early evolution of the *Montastraea* "annularis" species complex (Anthozoa: Scleractinia). *J. Paleontology* 75(3): 527-545.

SYNERGISTIC ACTIVITIES (five examples):

- 1996-present Coordinator, the NMITA (Neogene Marine Biota of Tropical America) World-Wide Web Taxonomy Database, <http://nmita.geology.uiowa.edu>
- 2005- present Coordinating Author (with J. Stolarksi, S. Cairns, and G. Stanley), Treatise of Invertebrate Paleontology, Coelenterate volume F, Scleractinia.
- 1998-2006 Co-Editor, *Journal of Paleontology*
- 2006-2007 Educational workshop co-organizer (with D.F. McNeill, J.S. Klaus), Universidad Autónoma de Santo Domingo, Dominican Republic: (1) "Paleoecology and Sedimentology of Ancient Coral Reefs in the Dominican Republic", Marzo 16-17, 2006, (2) "Paleoecology of fossil coral reefs and sample collection", Enero 9-11, 2007.
- 2004 Symposium co-organizer: Coral Taxonomy and Phylogeny: Integrating Molecular and Morphological Approaches (N. Knowlton, A.F. Budd, H. Fukami), 10th Intern. Coral Reef Symp., Okinawa, Japan.

EXTERNAL GRANTSMANSHIP (active grants since 2003):

- 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. Carlson (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 and molecular analyses of members of the suborder Faviina". (Lead PI= A.F. Budd)
- National Science Foundation Grant DEB-0102544 (2 yrs., 8/1/01-7/31/04, \$104,161); "NMITA (Phase II): Integrating interactive identification keys, distribution maps, and stratigraphic columns with the Neogene Marine Biota of Tropical America WWW Database". (PI= A.F. Budd; co-PI = C.T. Foster, Jr.)