

Heidi Crevison Souder, PhD
University of Colorado at Boulder
Baker Residential Academic Program
176 UCB Boulder, CO 80309-0176
303.735.3533

PROFESSIONAL PROFILE

- Interdisciplinary background in biology, geology and chemistry with emphasis on estuarine dynamics, coral reef ecology and ocean acidification related to climate change, environmental stewardship, wildlife conservation and renewable energy
- Experienced researcher with extensive training in water, sediment, and biological specimen collection and processing, light and scanning electron microscopy, and data analysis
- Experienced and award-winning teacher, in both outreach and academic arenas
- Dedicated scientist with exceptional technical, organizational and troubleshooting skills

EDUCATION

- University of South Florida, St. Petersburg, Florida, Ph.D., May 2009
- University of South Florida, St. Petersburg, Florida, M.S., May 2001
- The Ohio State University, Columbus, Ohio, Continuing education in geology, biology and mathematics, 1992-1997
- Ohio Dominican College, Columbus, Ohio, B.A., 1990

PROFESSIONAL EXPERIENCE AND CERTIFICATIONS

- Renewable Energy Wildlife Consultant: National Renewable Energy Laboratory, 2012-present
- Jefferson County Department of Natural Resources: Nest Watch Program volunteer, 2014-present
- National Renewable Energy Laboratory: postdoctoral researcher, 2010-2012
- University of South Florida Center for Ocean Technology: marine scientist and ocean technologist, 2001-2002 and 2003-2009
- University of South Florida College of Marine Science: publication consultant, 2009
- Janicki Environmental: marine scientist, 2002-2003
- University of South Florida College of Marine Science: research technician, 2001
- AAUS-certified scientific diver, DAN Oxygen Provider, PADI First Aid, and Nitrox.

TEACHING AND OUTREACH EXPERIENCE

- University of Colorado at Boulder: Instructor-2012-present
- University of South Florida College of Marine Science: senior science mentor for Oceanography Camp for Girls and Office of Educational Outreach, 1998-2006 , 2017
- University of Colorado at Boulder: lecturer, 2012
- Colorado Mountain Club: youth education instructor, 2009-2010

- University of South Florida College of Marine Science: National Ocean Science Bowl volunteer and tournament question writer, 2006-2012
- University of South Florida College of Marine Science and Department of Environmental Science and Policy: graduate teaching associate, 1998-2001, 2004-2007
- Suncoast Seabird Sanctuary, volunteer, 2004-2006
- University of South Florida College of Marine Science: NSF GK-12 OCEANS Fellow, 2005-2006
- Capital University: Residence Hall Director, 1991-1997

PUBLICATIONS

- Souder, H.C., Hallock, P. and Byrne, R., accepted, Shell strength and ultrastructure in deformed *Archaias angulatus* from the Florida Keys (USA): implications for survival and coastal sedimentation. *Journal of Foraminiferal Research*.
- Walston, Jr.L.J., Rollins, K.E., Smith, K.P., LaGory, K.E., Sinclair, K., Turchi, C., Wendelin, T., and Souder, H., 2015, A Review of Avian Monitoring and Mitigation Information at Existing Utility-Scale Solar Facilities. Prepared for the U.S. Department of Energy, SunShot Initiative and Office of Energy Efficiency & Renewable Energy. ANL/EVS-15/2, 82 pps.
- Souder, H. C., 2014, The use of deterrents to reduce bat fatalities with wind turbines: a review. National Renewable Energy Laboratory Management Report NREL/MP5000-XXXX, 14 pps.
- Souder, H.C. and Sinclair, K., 2013, An Assessment of Wildlife Impacts to Future Land Availability for Wind Development. National Renewable Energy Laboratory Management Report NREL/MP5000-55788, 92 pps.
- Ramesh, B., Benjamin, T. G. Butler, Carlin, P. W., Eyer, J., Fortuna, R., Kamath, H., Kopasz, J. P. Canteli, M. M., Milligan, M. R., Morely, N. B., Podolski, W. F., Shevenell, L. A., Sinclair, K., Souder, H. C., Thresher, R., Tillack, M. S., Walawalker, R., Wan, H., Weaver, R. D., Zobaa, A. F., 2013, Alternate Sources of Power in Standard Handbook for Electrical Engineers (16th Edition), Beaty and Fink (eds.).
- Souder, H., Hand, M., Musial, W. and Smith, A., 2012, U.S. port infrastructure for offshore wind in Analysis to Support DOE Offshore Wind National Deployment Goals. 17 pp.
- Souder, H., Hand, M., Musial, W. and Smith, A., 2012, Siting considerations for United States offshore wind deployment goals in Analysis to Support DOE Offshore Wind National Deployment Goals. 22 pp.
- Souder, H.C., Li, Y. and Thresher, R., 2010, Marine hydrokinetic turbine technology and the environment: device-biota interactions. OCEANS 2010-MTS/IEEE Conference Proceedings, Seattle, Washington.
- Souder, H.C., McCloskey, B., Hallock, P., and Byrne, R., 2010, Shell anomalies observed in a population of *Archaias angulatus* (Foraminifera) from the Florida Keys (USA) sampled in 1982-83 and 2006-07. *Marine Micropaleontology*, v. 77, p. 71-81.
- Crevison H.L. and Hallock, P., 2007, Anomalous features observed on tests of live Archaiasine foraminifers from the Florida Keys, USA. *Journal of Foraminiferal Research*, v. 37, no. 3, p. 223-233.
- Crevison, H.L. and Hallock, P., and McRae, G., 2006, Sediment cores from the Florida Keys (USA): is resolution sufficient for environmental applications? *Journal of Environmental Micropaleontology, Microbiology, and Meiobenthology*, v. 3, p. 61-82.

- Crevison, H.L., Pribble, R., Winowitch, M., Janicki, A. and Morrison, G., 2003, An ecological characterization of aquatic and wetland habitats in the Anclote River estuary and adjacent inshore and offshore waters of West-Central Florida, Tampa Bay Water Technical Publication, St. Petersburg, Florida, 135 p.
- Crevison, H.L. and Janicki, A., 2003, The ecological importance of first order streams, Janicki Environmental Technical Publication, St. Petersburg, Florida, 28 p.
- Crevison, H.L., Janicki, A., Pribble, R., Wade, D., Fraser, T., Lindeman, D. and Hoke, D., 2003, Salinity tolerances for the major biotic components within the Anclote River and anchorage and nearby coastal waters, Tampa Bay Water Technical Publication, St. Petersburg, Florida, 158 p.
- Crevison, H.L. and Janicki, A., 2003, A description of essential fish habitat requirements for the Gulf of Mexico, Janicki Environmental Technical Publication, St. Petersburg, Florida, 20 p.
- Crevison, H.L. and Hallock, P., 2001, Foraminifera as Bioindicators: Key Subtropical Western Atlantic and Caribbean Taxa, cd ROM, University of South Florida, St. Petersburg, Florida.

HONORS AND AWARDS

- Marinus Smith Award, 2013, 2015
- Baker RAP Outstanding Performance Award, 2013
- Cushman Foundation for Foraminiferal Research Student Research Award, 2007
- Society for Underwater Technology-Houston Graduate Scholarship, 2006-2007
- National Science Foundation GK-12 OCEANS Fellowship, 2005-2006
- USGS Center for Coastal Science Cooperative Fellowship, 1999-2001
- College of Marine Science Tampa Bay Parrot Head Fellowship, 1999
- Sister Eugene DeCleene award for outstanding senior artist, 1990
- Ohio Dominican College award of merit for drawing, 1990
- Ohio Dominican College scholarship, 1986-1990

PROFESSIONAL AFFILIATIONS

- Cushman Foundation
- Geological Society of America
- National Science Teachers Association
- North American Micropaleontology Section of Society for Sedimentary Geology (NAMS)
- Waterbird Society
- American Wind and Wildlife Institute
- National Wind Coordinating Collaborative