Taber D. Allison

Director
Research and Evaluation
American Wind Wildlife Institute
1110 Vermont Avenue, NW, Suite 950
Washington, D.C. 20005
office: (202) 330-3191
e-mail: tallison@awwi.org

Dr. Allison received his Ph.D. in Ecology from the University of Minnesota, a Master's in Forest Science from the Yale School of Forestry and Environmental Studies, and a B.A. degree in Biology from Wesleyan University. He is an ecologist with special expertise in wind-wildlife impacts. He joined American Wind Wildlife Institute in December 2010 to direct all research initiatives.

Dr. Allison also serves as a science advisor to the Bats Wind Energy Collaborative. Previously, he was Vice President for Science, Policy and Climate Change at the Massachusetts Audubon Society where he led Mass Audubon's environmental evaluation of wind energy and climate change. He has served as Program Officer at the National Science Foundation, was Director of the Rocky Mountain Biological Laboratory, and taught at Ohio State University and the University of Colorado.

Discipline: Ecology/Biology (Sea birds; Wind-Wildlife Impacts)

Robert J. Diaz

Vice-Chair

Professor Emeritus
Virginia Institute of Marine Science
College of William and Mary
P.O. Box 1346
Gloucester Pt., Virginia 23062
office: (804) 815-2252
e-mail: diaz@vims.edu

Dr. Diaz is Professor Emeritus of Marine Science at the Virginia Institute of Marine Science, College of William and Mary. He received a Ph.D. from the University of Virginia in marine science and a Doctor Honoris Causa from Gothenburg University, Sweden, for his contributions to marine and estuarine ecology. In 2011 he was named Virginia Outstanding Scientist of the year. Professor Diaz has over 40 years of experience working on environmental issues in a variety of marine and freshwater habitats around the globe from the intertidal to the deep-sea. He has served on science advisory and review committees for private foundations, state and federal agencies, and international organizations. He specializes in documenting the effects of both natural and human disturbance to ecosystems, and is an internationally recognize expert on animal-sediment-interactions, the effect of eutrophication (over enrichment of the seas) and hypoxia (low dissolved oxygen dead zones) on ecosystem services and functions.

Discipline: Ecology/Biology (Toxicology/Ecosystem)

Kenneth H. Dunton

Professor
Department of Marine Science
The University of Texas at Austin
750 Channel View Drive
Port Aransas, Texas 78373-5015
office: (361) 749-6744
e-mail: ken.dunton@mail.utexas.edu

Dr. Dunton received his Ph.D. from the University of Alaska-Fairbanks (1986), and is currently a professor in Marine Science at The University of Texas at Austin. He is a biological oceanographer whose research is focused on estuarine and coastal processes. Although his work spans from the Arctic to the Antarctic, his continuous studies of the arctic coastal ecosystem has spanned three decades and over 3000 research dives. Funded by the National Science Foundation's (NSF) Arctic System Science's Shelf-Basins Interactions study from 1999 to 2008, he examined the distribution and biomass of benthic biota and changes in trophic structure based on the application of stable isotopic signatures. He has also performed intensive studies of nearshore shelf arctic benthic communities and kelp beds since 1977 under funding from the Outer Continental Shelf Environmental Assessment Program**,** the Bureau of Ocean Energy Management, Regulation and Enforcement, NSF, Shell Alaska, BP Alaska, and the U.S. Fish and Wildlife Service. He recently received a three-year grant from NSF to examine the linkages between arctic watersheds and coastal lagoons along the eastern Alaskan Beaufort Sea coast, with particular emphasis on the lagoon systems of the Arctic National Wildlife Refuge. His work in the Gulf of Mexico has addressed the productivity of seagrass and marsh systems, and the trophic structure of the Flower Gardens coral reef community.

Discipline: Marine Benthic Communities of the Arctic Basin and Gulf of Mexico

Stephen L. Elgar

Parliamentarian

Senior Scientist
National Security Science & Engineering Faculty Fellow
Applied Ocean Physics & Engineering
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543
office: (508) 289-3614
e-mail: lgar@whoi.edu

Dr. Elgar received his Ph.D. from Scripps Institution of Oceanography in 1985. He worked in an electrical engineering department at Washington State University form 1986 until 1999, when he moved to Woods Hole. At Washington State, his research included developing signal processing techniques to isolate nonlinear interactions important to processes ranging from ocean surface gravity waves to the history of ice ages. His team at Woods Hole Oceanographic specializes in observing waves, currents, sediment transport, and morphological change in surfzones, tidal flats, river mouths, and the inner and outer continental shelves. A long-term goal is to understand wave evolution across the continental shelf to the shoreline, the corresponding breaking-wave-driven circulation, and the subsequent changes to the shoreline. Although the path and landfall of Hurricane Sandy was predicted accurately, the tremendous damage to the shoreline was a surprise. Numerical models have no skill predicting the erosion that collapsed homes in Florida, the breach of a new inlet on Fire Island that resulted in flooding on Long Island at every high tide, and the retreat of 100 m of shoreline on Martha's Vineyard that destroyed structures. Thus, Dr. Elgar's team is investigating the couplings and feedbacks between waves, currents, sediment transport, and morphological evolution that lead to shoreline change (eg, beach erosion).

Discipline: Physical Oceanography (Waves, Currents, Sediments from the Continental Shelf to the Shoreline)

Jerry A. Galt

Chief Oceanographer
Genwest Systems
170 W. Dayton Street, Suite 106A
Edmonds, Washington 98020
office: (425) 771-2700
e-mail: jerryg@genwest.com

Dr. Galt received his Ph.D. from the University of Washington in 1969. Areas of interest include Deep Water Horizon and multi-disciplinary scientific program combining theoretical research and real-time computer applications at accidental spill scenes. He directed the computer modeling component at over one thousand oil and chemical spill responses. He has extensive experience in computerized data systems, oil spill response and oceanographic modeling.

Discipline: Physical Oceanography (Oil Spill Modeling)

Richard A. Gould

Professor (Emeritus)
1 Keahole Place, #1618
Honolulu, Hawaii 96825
e-mail: rgould49@gmail.com

Dr. Gould received his Ph.D. from the University of California, Berkley in 1965. He studied human cultural and behavioral adaptations to stress, risk, and uncertainty. Initially these studies looked at living societies – specifically, in NW California, in Australia's Western Desert, and in subarctic Finland and related the findings to archaeological remains. This interest later extended to the study of shipwrecks and losses at sea, with underwater fieldwork in Bermuda and in the Dry Tortugas, Florida. His areas of interest are forensic archaeology, ethnoarchaeology, and maritime archaeology.

Discipline: Social Sciences (Anthropology)

Mark A. Johnson

Professor of Marine Science
Institute of Marine Science
111 O'Neill
P.O. Box 757220
University of Alaska Fairbanks
Fairbanks, Alaska 99775-7220
office: (907) 474-6933
email: majohnson@alaska.edu

Dr. Johnson is a physical oceanographer currently focusing on high latitude climate change with an emphasis on sea ice variations in the Arctic Ocean. His approach is to use historical and recent measurements to assess and characterize ice thickness and concentration. He is evaluating the performance of numerical models and assessing the accuracy of model forecasts of future ice conditions. This research is especially important along the ocean margins where marine navigation and access to resources are critical.

Discipline: Physical Oceanography (Arctic Region and Sea Ice)

Willett M. Kempton

Professor
Marine Policy
University of Delaware
Newark, Delaware 19716
office: (302) 831-0049
e-mail: willett@udel.edu

Dr. Kempton received his Ph.D. from the University of Texas at Austin, 1977. He is Director of the Center for Carbon-free Power Integration and teaches renewable energy policy at the University of Delaware. Offshore wind is his main research interest. In early April 2010, he published a study in *Proceedings of the National Academy of Sciences* hypothesizing that a chain of offshore wind stations along the Atlantic could provide power to much of the Eastern Seaboard. Other fields of interest include: anthropological studies of policy; environmental and energy policy; offshore wind; vehicle-to grid power; citizens' environmental values and actions; cognitive anthropology; and power systems integration.

Discipline: Social Sciences (Anthropology/alternative Energy)

Gary P. Kofinas

Professor
Department of Humans and Environment and Institute of Arctic Biology
University of Alaska Fairbanks
PO Box 75700
Fairbanks, Alaska 99775-7000
office: (907) 474-7078
e-mail: gary.kofinas@alaska.edu

Dr. Kofinas is Professor of Resource Policy and Management at the University of Alaska Fairbanks. His research has focused on the resilience and adaptation of high latitude social-ecological systems, community-based resource management systems drawing on traditional and local knowledge, subsistence economies of rural indigenous villages of the North, and adaptive co-management institutions. He is co-editor of the text, *Principles of Ecosystem Stewardship: Resilience-Based Resource Management* (Springer 2009) and served as Director of the Resilience and Adaptation Program, a graduate program in sustainability science at the University of Alaska Fairbanks.
Dr. Kofinas received his Ph.D. from the University of British Columbia.

Discipline: Interdisciplinary Social-Ecological System Studies (Resource Policy and Stewardship)

Lisa A. Levin

Professor
Integrative Oceanography Division
Scripps Institution of Oceanography
9500 Gilman Drive
La Jolla, California 92093-0218
office: (858) 534-3579
e-mail: llevin@ucsd.edu

Dr. Levin received her Ph.D. from Scripps Institution of Oceanography, University of California, San Diego, in 1982. Research interests are: larval dispersal, population connectivity and its influence on population dynamics; ecology of deep-sea reducing environments (oxygen minimum zones, methane seeps); population and community ecology of soft-sediment habitats; wetlands ecology, species invasion and restoration; animal-sediment-plant-geochemical interactions; and ecosystem-level consequences of species invasion. She also has more than 30 years' experience working in both shallow and deep-sea marine benthic environments.

Discipline: Physical Oceanography (Biological Oceanography)

Milton S. Love

Research Biologist
Marine Science Institute
University of California, Santa Barbara
Santa Barbara, California 93106
Office: (805) 898-2935
e-mail: love@lifesci.ucsb.edu

Dr. Love is a research biologist at the Marine Science Institute, University of California, Santa Barbara. He has conducted research on the marine fishes of California for over 40 years and is the author of over 90 publications on the fishes of the Pacific Coast. For the past 15 years, and using a manned research submersible, Dr. Love has carried out surveys of the fish populations living around natural reefs and oil/gas platforms throughout the southern California Bight. In 2007 the American Fisheries Society awarded Dr. Love the Carl R. Sullivan Award for Conservation Resources.

Discipline: Ecology/Biology (Fisheries/Deep Sea)

I. Roderick Mather

Professor
Department of History
University of Rhode Island
80 Upper College Road, Suite 3
Kingston, Rhode Island 02881
office: (401) 874-4093
e-mail: roderick@uri.edu

Dr. Mather received his Ph.D. from the University of Oxford (United Kingdom), in 1995. His research interests include: Historical and Archaeological Maritime Landscapes (particularly the Outer Continental Shelf, Southern New England, Virginia and Lake Huron); Underwater Geophysical Survey and Mapping; GIS Applications for Underwater Archaeology; Archaeological Method, Theory and Ethics; The Evolution of Shipbuilding Technology; Revolutionary War Shipwrecks in Narragansett Bay; Development and Change in the Atlantic World (15^{th}–19^{th} centuries); and European Maritime Empires.

Discipline: Social Sciences (Archeology)

Richard J. McLaughlin

Professor and Endowed Chair
Harte Research Institute for Gulf of Mexico Studies
Texas A&M University - Corpus Christi
6300 Ocean Drive, Unit 5869
Corpus Christi, Texas 78412-5869
office: (361) 825-2010
e-mail: richard. mclaughlin@tamucc.edu

Dr. McLaughlin received his J.S.D., Doctorate in Law from the Boalt Hall School of Law, University of California at Berkeley, in 1997, and is the Harte Research Institute's Endowed Chair of Marine Policy and Law. He has been actively involved in a variety of leadership positions in the marine policy field, is a former Fulbright Scholar to Japan and has published over sixty articles and monographs on ocean and coastal policy issues. In the classroom, his instruction has included Admiralty, Coastal Management and Ocean Law, and Environment/Marine Policy. He has superior knowledge of marine policy and legal issues including the international law of the sea, ocean energy policies, ocean governance, and marine ecosystem-based management.

Discipline: Social Sciences (Marine Policy and Law)

Lorrie D. Rea

Chair

Steller Sea Lion Research Program
Division of Wildlife Conservation
Alaska Department of Fish and Game
1300 College Road
Fairbanks, Alaska 99701-1551
office: (907) 459-7367
email: lorrie.rea@Alaska.gov

Dr. Rea received her Ph.D. from the University of Alaska, Fairbanks, in 1995. Her general research interest encompasses the metabolism and nutritional physiology of terrestrial and marine mammals with a recent focus on contaminants exposure and identifying prey species contributing to the diet through stable isotope analysis.

Most of her recent research addresses health, diet, contaminant, and body condition assessment of Steller sea lions in Alaska. She is currently a wildlife physiologist with the Alaska Department of Fish and Game, Division of Wildlife Conservation and serves as a co-Principal Investigator with the Wildlife Toxicology Laboratory at the University of Alaska Fairbanks.

Discipline: Biology (Endangered Species; Arctic Marine Mammal Health)

Sandra R. Werner

Research Scientist
ExxonMobil Upstream Research Company
P.O. Box 2189
Houston, Texas 77252-2189
office: (713) 431-6358
e-mail: sandra.r.werner@exxonmobil.com

Dr. Werner received her Ph.D. from the Joint Program in Oceanography/Applied Ocean Science and Engineering, Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, Cambridge/Woods Hole, Massachusetts in 1999. She has developed metocean criteria for the Gulf of Mexico and operations worldwide and has modeled hurricane-induced currents in the Gulf of Mexico. She has also performed comprehensive studies of inter-annual variations of Arctic sea ice and climate, oversaw shoreline erosion and sediment transport studies including scour protection studies for offshore platforms, and managed environmental monitoring program offshore Sakhalin (Sakhalin Gray Whales) comprising field studies (biology, physical oceanography, marine sound), and presentations to regulatory authorities.

Discipline: Physical Oceanography (Engineering/Ocean Modeling)