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**Environmental Science and Assessment for  
Ocean Energy Management Standing Committee**

**Committee Roster**  
*September 21, 2015*

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**Dr. Gary B. Griggs—University of California, Santa Cruz – Committee Chair**

Gary B. Griggs is a Distinguished Professor of Earth and Planetary Sciences and the Director of the Institute of Marine Sciences at the University of California, Santa Cruz. His research is focused on the coastal zone and includes coastal evolution and development, long-term coastal and shoreline change, coastal hazards and coastal engineering, and impacts and responses to sea-level rise along the Pacific Coast. Dr. Griggs is the author or coauthor of eight books, including *Living with the Changing California Coast*, *Introduction to California's Beaches and Coast*, and *California Coast from the Air*. He served as chair of the University of California Marine Council from 1999 to 2009, and is a current member and past chair of the Science Advisory Team to the Governor's Ocean Protection Council. He is a Fellow of the California Academy of Sciences and a member of the California Ocean Sciences Trust. In 1998 he was given the Outstanding Faculty Award at the University of California Santa Cruz, and the University Alumni Association honored him with a Distinguished Teaching Award in 2006. He has served on two National Research Council consensus studies. Dr. Griggs received a B.A. in geological sciences from the University of California, Santa Barbara, and a Ph.D. in oceanography from Oregon State University.

**Dr. Peter J. Auster—University of Connecticut and Mystic Aquarium, Storrs, CT**

Peter Auster is a research professor emeritus of Marine Sciences and Science Director of the Northeast Undersea Research, Technology & Education Center. He also has an appointment as a Senior Research Scientist at Mystic Aquarium. His research focuses on the ecology and conservation of fishes and he has conducted many studies to define how variation across underwater landscapes mediates the distribution and abundance of fishes, with the goal to understand the linkages between habitat level processes and population-community dynamics, and to develop survey methods for fishes living in spatially complex habitats. Dr. Auster has served on a number of panels and committees that are focused on marine resource management and conservation. Notable honors include the National Oceanic and Atmospheric Administration (NOAA) Environmental Hero Award, Fellow of the American Institute of Fishery Research Biologists, Mote Eminent Scholar in Fisheries Ecology at Florida State University, and University of Connecticut at Avery Point Award for Excellence in Teaching. His NRC experience includes serving as a member of the Committee on Evaluating the Effects of Bottom Trawling on the Seafloor Habitats. Dr. Auster received a B.S. in zoology and an M.S. in biological oceanography from the University of Connecticut, and a Ph.D. in zoology from the National University of Ireland, Galway.

**Mr. Deerin Babb-Brott—SeaPlan, Boston, MA**

Deerin Babb-Brott is a Senior Partner at SeaPlan, a non-profit marine science and policy group, where he is currently providing strategic and technical support for ocean planning efforts in the Northeast and Mid-Atlantic regions of the United States. He has extensive experience in government and coastal management and has worked closely with marine constituencies and the public on numerous coastal and ocean issues to develop solutions that successfully balance economic, social, and environmental interests. He served as the first director of the White House National Ocean Council where he advised the Director of the Office of Science and Technology Policy and Chair of the Council on Environmental Quality and led development of the final U.S. National Ocean Policy Implementation Plan and National Marine

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Planning Handbook. As Assistant Secretary for Ocean and Coastal Zone Management in Massachusetts he directed the state coastal program and led teams that developed the first Massachusetts Ocean Management Plan and Department of Interior Wind Energy Areas. Previously, he served as Assistant Secretary for Environmental Impact Review where he managed the review of major projects including Cape Wind, offshore and onshore liquefied natural gas terminals, and other infrastructure. He has received NOAA's Susan Snow Cotter Award for Excellence in Ocean and Coastal Resource Management, the American University William K. Reilly Award for Environmental Leadership, and other recognition. He received a B.A. in Government and Environmental Studies from Bowdoin College and is a member of the Phi Beta Kappa honor society.

**Dr. Keith R. Criddle—University of Alaska, Fairbanks, Juneau, AK**

Keith R. Criddle is the Ted Stevens Distinguished Professor of Marine Policy at the Juneau Center for Fisheries and Ocean Science of the University of Alaska Fairbanks. He has held a variety of appointed positions, including Director of the UAF Fisheries Division, Co-Director of the UAF Kodiak Seafood and Marine Science Center, member, vice-chair, and chair of the North Pacific Fisheries Management Council Scientific & Statistical Committee, head of the Utah State University Economics Department, assistant and associate professor of Economics at UAF, and industry economist at the National Marine Fisheries Service, Northwest and Alaska Fisheries Science Center. His research explores the intersection between the natural sciences, economics, and public policy and is driven by an interest in the sustainable management of living marine resources. He directs graduate projects in bioeconomics, statistical inference, and policy analysis and teaches courses in resource and environmental economics, statistics, operations research and decision theory, fisheries law, policy analysis, and economic development for fisheries dependent communities. Dr. Criddle has served as a member of the NRC Ocean Studies Board, associate editor for *Marine Resource Economics*, associate editor for *Natural Resource Modeling*, editorial board member for *Marine Policy*, past president of the Resource Modeling Association, president elect of the American Fisheries Society Socioeconomics section, and co-chair of the North Pacific Fisheries Organization (PICES) section on Human Dimensions of Marine Systems. He holds a Ph.D. in Agricultural Economics from University of California, Davis.

**Dr. Hajo Eicken—University of Alaska, Fairbanks, Juneau, AK**

Hajo Eicken is Professor of Geophysics at the University of Alaska (UAF), Fairbanks. His research interests include studies of the growth and properties of sea ice and its importance as a social-environmental system. Through work conducted in coastal Alaska over the past decade, he has been working towards establishment of an integrated sea-ice observatory that provides an interface between geophysical and Indigenous knowledge of ice conditions and coastal hazards. Currently he is heading an effort at the University of Alaska to enhance use of scientific data by a range of different stakeholders at the local and international level, building on work conducted during the International Polar Year. In that capacity, and as chair of the Science Steering Committee of the U.S. Study of Environmental Arctic Change (SEARCH) Program, he works towards the establishment of an observing network to help understand and respond to Arctic environmental and socio-economic change. Since March 2015 he has been serving as the interim Director of the International Arctic Research Center at UAF. Dr. Eicken served on two previous NRC study committees. He received his Ph.D. in natural sciences from the University of Bremen.

**Dr. Paul G. Falkowski (NAS)—Rutgers University, New Brunswick, NJ**

Paul G. Falkowski is the Bennett L. Smith Professor of Business and Natural Resources at Rutgers University and Director of the Rutgers Energy Institute. His research interests include biogeochemical cycles, biological oceanography, molecular biology, physiological adaptation, and plant physiology. He

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is also the lead principal investigator in the Environmental Biophysics and Molecular Ecology program, which focuses on molecular biology and biophysics to address key questions in biological oceanography and marine biology. Dr. Falkowski's recent awards include the Rutgers University Board of Trustees Award for Excellence in Research and the European Geosciences Union's Vernadsky Medal. Dr. Falkowski was elected to the National Academy of Sciences in 2007. He has served on many NRC consensus study committees, including most recently the Committee on Geoengineering and Climate: Technical Evaluation and Discussion of Impacts. Dr. Falkowski received his Ph.D. in biology at the University of British Columbia.

**Dr. Mary (Missy) H. Feeley—ExxonMobil (Retired), Houston, TX**

Mary Feeley retired as Chief Geoscientist from ExxonMobil Exploration Company in 2014. Her responsibilities included advising senior ExxonMobil Upstream management on strategic geoscience matters and identifying global geoscience opportunities for ExxonMobil. Dr. Feeley's graduate work was focused on understanding depositional patterns in upper slope salt basins and the Mississippi Fan using seismic stratigraphy techniques. She also spent many years working on lease sales, prospect maturation, and energy development in the Gulf of Mexico. Dr. Feeley is a member of the American Association of Petroleum Geologists, the Society of Exploration Geophysicists, and the American Geophysical Union. Her NRC experience includes membership on the Ocean Studies Board from 2005 to 2010 and serving on several committees, including the recent Committee on Guidance for NSF on National Ocean Science Research Priorities: Decadal Survey of Ocean Sciences. Dr. Feeley earned her Ph.D. in oceanography from Texas A&M University.

**Dr. Mardi C. Hastings—Georgia Institute of Technology (Retired), Atlanta, GA**

Mardi Hastings retired as a professor from Georgia Institute of Technology in 2014, and is now a part-time consultant in acoustics. Her research interests are focused on the generation, propagation, and biological effects of anthropogenic sound in the marine environment. This includes the biological impacts of underwater sound, underwater non-lethal weapons, biosonar, and passive acoustic monitoring of marine mammals. Dr. Hastings has worked in academia, government, and industry posts. Her awards include a National Science Foundation Presidential Young Investigator award, the Federal Highway Administration Environmental Excellence award, and the Per Bruel Gold Medal for Noise Control and Acoustics from American Society of Mechanical Engineers (ASME). Dr. Hastings is a Fellow and past president of the Acoustical Society of America, former member of the Board of Directors of the Institute of Noise Control Engineering, and past chair of the ASME Noise Control and Acoustics Division. She served on the NRC Committee on Potential Impacts of Ambient Noise in the Ocean on Marine Mammals. Dr. Hastings received her B.S. and M.S. in mechanical engineering from the Ohio State University and her Ph.D. in mechanical engineering from Georgia Institute of Technology.

**Dr. Bonnie J. McCay—Rutgers University, New Brunswick, NJ**

Bonnie McCay is Board of Governors Distinguished Service Professor Emerita, Department of Human Ecology, School of Environmental and Biological Sciences, Rutgers University. Her research focuses on policies and challenges for managing common pool resources such as fish and shellfish, with particular attention to intersections of ecology, community, and social institutions of science, law, and property. She has done field research in Newfoundland and Nova Scotia, Canada, in the Middle Atlantic region of the U.S., and in Baja California, Mexico. Dr. McCay's books include *The Question of the Commons*, *Oyster Wars and the Public Trust*, and *Enclosing the Commons*. She serves on numerous editorial boards as well as on the Scientific and Statistical Committee of the Mid-Atlantic Fisheries Management Council. She is a member of the National Academy of Sciences, and her NRC experience includes serving as a member

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of the Ocean Studies Board and participating in many consensus study committees. Dr. McCay received her M.S. and Ph.D. in anthropology from Columbia University.

**Dr. Richard McLaughlin—Harte Research Institute, Corpus Christi, TX**

Richard McLaughlin serves as Endowed Chair for Marine Policy and Law at the Harte Research Institute for Gulf of Mexico Studies at Texas A&M University—Corpus Christi. Prior to joining the Harte Research Institute in 2005, Dr. McLaughlin was Professor of Law and Ray and Louise Stewart Lecturer at the University of Mississippi School of Law where he regularly taught International Law, Property Law, Admiralty Law, Ocean and Coastal Law, International Environmental Law, and other courses. He specializes in marine and coastal policy and legal issues including the international law of the sea, ocean energy policies, transboundary resource management, and marine ecosystem-based management. He has been actively involved in a variety of leadership positions in the marine law and policy field and has served on over two dozen graduate student committees. He is a former Fulbright Scholar to Japan and has published over eighty articles and monographs on marine and coastal policy-related topics. Dr. McLaughlin received an A.B. from Humboldt State University, a J.D. from Tulane University School of Law, an L.L.M. in marine law and policy from University of Washington, and a J.S.D. from the University of California, Berkeley.

**Dr. Jacqueline Michel—Research Planning, Inc., Columbia, SC**

Jacqueline Michel is President of Research Planning, Inc. She is a geochemist specializing in terrestrial and marine pollution studies, coastal geomorphology, and environmental risk assessments. She has extensive international experience responding to oil spills in over 30 countries and has worked in many different coastal and marine environments. Dr. Michel has been a leader in the development of methods and the conduct of Natural Resource Damage Assessments following spills and groundings. She has taken a lead role in many federal and state damage assessments and has conducted over a dozen studies for BOEM (and formerly Minerals Management Service) on marine minerals, alternative energy, and oil and gas production on the Outer Continental Shelf. Dr. Michel has served on the Ocean Studies Board of the NRC as well as on multiple NRC committees, including serving as chair of the Committee on Understanding Oil Spill Dispersants: Efficacy and Effects. Dr. Michel received her B.S., M.S., and Ph.D. in geology from the University of South Carolina, Columbia.

**Dr. Timothy J. Ragen—Marine Mammal Commission (Retired), Anacortes, WA**

Timothy Ragen retired in 2013 from the U.S. Marine Mammal Commission. His interests and expertise are in marine mammal biology, ecology, and conservation. In 1990 Dr. Ragen earned a Ph.D. in oceanography from Scripps Institution of Oceanography at the University of California, San Diego. He then completed a National Research Council Associateship at the U.S. National Marine Mammal Laboratory, where he conducted modeling studies of the northern fur seal. In 1991, he joined the Honolulu Laboratory of the U.S. National Marine Fisheries Service, where he worked in the Hawaiian monk seal recovery program. In 1997, he took a management position as the Steller sea lion recovery coordinator for the Alaska Region, National Marine Fisheries Service. He joined the staff of the Marine Mammal Commission in 2000, serving as its Scientific Program Director until 2006 and then its Executive Director until 2013.

**Dr. Mary Ruckelshaus—Stanford University, Stanford, CA**

Mary Ruckelshaus is a consulting professor at the Stanford Woods Institute for the Environment. She is the Director of the Natural Capital Project partnership, which develops approaches for valuing nature and the services it provides and to integrate these values into decision-making. Her recent work focuses on developing ecological models including estimates of the flow of environmental services under different

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management regimes in marine systems worldwide. Dr. Ruckelshaus previously led the Ecosystem Science Program at NOAA's Northwest Fisheries Science Center. She also serves on the Science Council of The Nature Conservancy and is a trustee on its Washington Board, and is a past chair of the Science Advisory Board of the National Center for Ecological Analysis and Synthesis (NCEAS). She was Chief Scientist for the Puget Sound Partnership, a public-private institution charged with achieving recovery of the Puget Sound terrestrial, freshwater and marine ecosystems. Dr. Ruckelshaus has a B.S. in human biology from Stanford University, an M.S. in fisheries from the University of Washington, and a Ph.D. in botany, also from the University of Washington.

**Dr. William C. Webster (NAE)—University of California, Berkeley (Retired), Kensington, CA**

William Webster is Professor Emeritus at the University of California, Berkeley. His research includes investigations into nonlinear coupled motions of offshore structures, operations research, shallow water fluid mechanics, steep water waves and wave energy. Dr. Webster is currently an advisor to three universities in Asia, to a Chinese shipyard that specializes in semi-submersible oil rigs, to an offshore platform design firm in Texas that specializes in spar platforms, and to the Norwegian highway department, with a focus on floating bridges. Dr. Webster is a member of the National Academy of Engineering and has participated in many NRC committees, including serving on the Marine Board for several terms. Dr. Webster holds an M.S. and Ph.D. in naval architecture from the University of California, Berkeley.

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