

**U.S. Integrated Ocean Observing System (IOOS®) Advisory Committee**  
**Committee Member Bios**  
**August 2012**

**Dr. Richard Spinrad (Chair):** Dr. Spinrad is an internationally recognized ocean science leader with over 30 years of multi-sector experience in leading large organizations through change. Presently he oversees research at a Carnegie Tier 1 research institution, Oregon State University. During his career, he has defined environmental research priorities for a team including Nobel laureates in environmental science, led the development of Nation's first ever ocean research priorities, and established U.S. Navy environmental research strategy. Dr. Spinrad directed over \$4B of federal research programs, co-wrote legislation for new federal environmental programs, and has testified more than a dozen times before U.S. Congress on budgetary and environmental issues. He has supervised thousands of employees nationwide, led the successful reorganization of seven federal laboratories, and been recognized with highest level national awards and commendation from peers and supervisors. Dr. Spinrad holds Master of Science and Doctorate degrees in Oceanography from Oregon State University.

**Dr. CJ Beegle-Kraus:** Dr. Beegle-Kraus is the President of Environmental Research for Decision, Inc., a research non-profit dedicated to bringing the best in science to decision makers. She is currently on contract providing oceanography and oil spill modeling support for NOAA's Office of Response and Restoration for the Deepwater Horizon MC 252 incident. She has extensive experience in both biological and physical ocean modeling through her previous work at Applied Sciences Associates, Inc. Dr. Beegle-Kraus has received numerous awards and citations for her trajectory modeling work, as well as multiple "Special Act of Service" awards from within NOAA. She holds a Master of Science in Physical Oceanography from the University of Alaska Fairbanks, and a Doctorate in Physical Oceanography from the University of Washington.

**Mr. Terence Browne:** Mr. Browne currently serves as the Director of Underwater Technologies and as the International Division Manager for Collins Engineers, Inc., an underwater and water resource engineering consultancy. Mr. Browne is a registered Professional Engineer in several states across the nation and he has been diving for over 27 years in U.S. Territory Waters including the Atlantic Ocean, North Pacific Ocean, South Pacific Ocean, Gulf of Mexico, and Caribbean Sea. Furthermore, his international experience includes ocean, coastal, underwater, and marine engineering activities in North America, South America, Europe, Asia, Africa, and the Middle East. Mr. Browne obtained his Master's Degree and Bachelor's Degree in Civil Engineering from Marquette University, as well as his Surface-Supplied-Air Commercial Diver Certification by the Association of Diving Contractors International.

**Mr. Thomas Gulbransen:** Mr. Gulbransen serves as Senior Scientist in Battelle Memorial Institute's Stony Brook, NY office. He has over 28 years of experience serving federal, state, local and industrial clientele. His primary responsibility is to lead environmental projects by assembling hybrid teams who develop structured, manageable investigations by translating clients' needs into data quality objectives that can be fulfilled through fieldwork or defensible mining of legacy information systems. Previously, Mr. Gulbransen served as Product Manager

and Senior Analyst for Battelle's Environmental Management Information Systems group where he combined his environmental science training with state-of-the-art decision support system expertise. He holds a Master of Science in Marine Environmental Science from State University of New York, and a Certificate of Special Studies in Management and Administration from Harvard University.

**Dr. Ann Jochens:** Dr. Jochens is presently Regional Coordinator for the Gulf of Mexico Coastal Ocean Observing System (GCOOS) and is a research scientist focusing on the development of coastal ocean observing systems, including processes at the boundary of coastal and open oceans in the Gulf of Mexico. She is a member of numerous professional societies and has served as a member of groups such as: NOAA's Coastal and Marine Spatial Planning Gulf of Mexico Team; NOAA's Gulf of Mexico Hypoxia Monitoring Implementation Plan Steering Committee; NOAA's Gulf Hypoxia Stakeholder Committee; Harmful Algal Bloom Working Group, Water Quality Priority Issue Team, Gulf of Mexico Alliance; and has chaired multiple sessions at MTS-IEEE conferences. She has extensive experience in maintenance and enhancement of the Gulf of Mexico Coastal Ocean Observing System Regional Association, as well as work to enhance the Gulf of Mexico Coastal Ocean Observing System Data Portal, building it toward a Regional Operations Center. Dr. Jochens has a Juris Doctor with background specialty in Ocean Law from the University of Oregon, and a Master of Science and doctorate in oceanography from Texas A&M University.

**Dr. J. Val Klump:** Dr. Klump is currently the Director of the Great Lakes WATER Institute at the University of Wisconsin-Milwaukee. He is an active participant in the Great Lakes Observing System, whose research focuses on implementation of Great Lakes Observing System Real-time Buoy and Vessel of Opportunity Underway Observing Systems. Dr. Klump has experience on numerous professional societies and committees, including serving on the Science and Technology Advisory Committee of the Green Bay Remedial Action Plan (Vice Chair) and as a member of the U.S.-Canadian International Joint Commission, Council of Great Lakes Research Managers. He is also a board member of the University of Toledo, Lake Erie Center Advisory Board, sits on the NOAA Great Lakes Observing System (GLOS) planning group, and was a past member of the Great Lakes Observing System Enterprise Architecture Expert Advisory Panel. Dr. Klump holds a Juris Doctor from Georgetown University Law Center and a doctorate in Chemical Oceanography from the University of North Carolina..

**Dr. Lynn Leonard:** Dr. Leonard is presently the Chair of the Department of Geography and Geology, University of North Carolina Wilmington (UNCW). Prior to becoming Chair, she was Director of the Coastal Ocean Research and Monitoring Program (UNCW). Her area of interest focuses on sediment dynamics and surficial hydrodynamics in an open marine marsh. She has extensive experience implementing the observing and data management subsystems in support of the Southeast Coastal Ocean Observing Regional Association (SECOORA). She is a member of multiple professional associations, and has received numerous awards and honors in her field. Several of Dr. Leonard's other relevant activities include participating on the NOAA IOOS Metrics Development working team, chairing the UNCW Climate Change Working Group, sitting on the SECOORA Board of Directors and acting as SECOORA Board Liaison to their Stakeholder

Council. Dr. Leonard holds a Master of Science in Geology from Duke University and a Doctorate in Marine Science from the University of South Florida.

**Mr. Anthony Macdonald:** Mr. Macdonald is currently Director of the Urban Coast Institute at Monmouth University. The Institute is a University-based think tank that serves as a forum for addressing key coastal and ocean policy challenges at the state, regional and national level; supporting interdisciplinary science and research that supports coastal and ocean decision-making and a better informed public; and, builds on the University's emerging strengths in environmental, and watershed management and socio-economic studies related to coasts and oceans. Previously, he was the Executive Director of the Coastal States Organization, where he influenced Congressional consideration of and funding for important coastal and marine legislation and regulations, as well as influenced national policy through coordination of state comments on the report of the U.S. Commission on Ocean Policy and the President's U.S. Ocean Action Plan. Mr. Macdonald also represented state interests on the Department of Transportation's Interagency Task Force on the Future of the Marine Transportation System, and worked to develop a policy framework for offshore marine aquaculture. Mr. Macdonald also worked as Special Counsel and Director of Environmental Affairs for the American Association of Port Authorities. Mr. Macdonald holds a Juris Doctor from Fordham University School of Law.

**Mr. Justin Manley:** Mr. Manley is presently the Senior Director of Business Development for Teledyne Benthos. He is responsible for managing and advancing a diverse product line including deep ocean floatation and instrument housings, geophysical survey systems, remotely operated vehicles, undersea locators, acoustic releases and the industry leading telesonar acoustic modems. Prior to joining Teledyne, he worked for Liquid Robotics where he was Senior Director of Scientific and Commercial Business. He was responsible for developing new commercial and scientific programs based around their patented Wave Glider. Between 2002 and 2009 Mr. Manley provided marine technology consulting services, primarily to the Federal Government. As Lead Ocean Engineer at Mitretek Systems and subsequently Senior Research Scientist and Research Leader at Battelle, he supported NOAA, particularly its Office of Ocean Exploration and Research. He was the founding Chair of the NOAA-wide AUV Working Group and led that team in its efforts to increase awareness and application of AUVs in the agency. Mr. Manley is a Senior Member of IEEE and co-chairs the Unmanned Maritime Vehicles (UMV) committee of the Institute of Electrical and Electronics Engineers (IEEE) Oceanic Engineering Society. Mr. Manley has served as the Editor of the Marine Technology Society (MTS) *Journal*. He is currently the Vice President of Government and Public Affairs for MTS. Mr. Manley holds a Master of Science in Ocean Engineering from the Massachusetts Institute of Technology.

**Mr. Chris Ostrander:** Mr. Ostrander is currently the Director of the Pacific Islands Ocean Observing System, where he has extensive experience developing the Hawaii-Pacific Ocean Observing and Information System. He has served on several advisory committees and councils, including the Hawaiian Regional Ecosystem Advisory Council, Western Pacific Regional Fisheries Management Council, and the Advisory Committee for the Alliance for Coastal Technologies. Mr. Ostrander serves on multiple NOAA teams, including the NOAA Regional Collaboration

Team for the Pacific Islands, and the National Leadership Team, NOAA Coastal Storms Program. He has also a member of the Board of Directors for the National Federation of Regional Associations. His current research focuses on developing the Hawaii-Pacific Ocean Observing and Information System, and recent research has focused on impacts of coastal zone productivity driven by land derived inputs on carbon dioxide exchange between Kaneohe Bay and the atmosphere. Mr. Ostrander holds a Master of Science in Physical Oceanography from University of Hawaii at Manoa.

**Dr. Emily Pidgeon:** Dr. Pidgeon is currently the Director of the Marine Climate Change Program for Conservation International (CI). During her tenure with CI she has lead development, implementation and management of a marine climate change conservation program for a large non-governmental organization. She was responsible for institutional policy on ocean and climate change which provides a foundation for organizational advising and support of national governments in their in-country adaptation policy and in their policy approaches to the United Nations Framework Convention on Climate Change and other multi-lateral negotiations. Dr. Pidgeon was the technical advisor for a diverse international marine conservation team, providing technical expertise and consultation on a broad spectrum of ocean science and engineering to conservation field programs and partners globally including the tourism, oil and gas, and cruise line industries. She has also lead and supported diverse fundraising efforts from sources including international development agencies (Global Environment Fund, U.S. Agency for International Development), government, foundations and individuals. Prior to CI, Dr. Pidgeon worked at Scripps Institution of Oceanography, where her research focused on internal tides in the ocean, integrated into a long term field study of the coastal shelf environments on the Pacific coast of North America. She is a member of several professional societies. Dr. Pidgeon holds a Master of Science in Civil Engineering and Water Resources and a Doctorate in Civil & Environmental Engineering both from Stanford University.

**Dr. LaVerne Ragster:** Dr. Ragster currently serves the University of the Virgin Islands as Professor of Marine Biology in the Eastern Caribbean Center. Her areas of professional focus are impacts of climate change on public health issues and assisting institutions and governments to identify and implement appropriate natural resource management responses to climate variability and change in tropical communities. Dr. Ragster served as President of the University of the Virgin Islands from August 2002 through July 2009. During her tenure as President, Dr. Ragster's leadership and commitment to excellence was recognized by those both at home and abroad, including being named Person of the Year by Rotary in the Virgin Islands and being honored by the Thurgood Marshall Scholarship Fund with an Award of Excellence. Dr. Ragster has served as a member of the U.S. delegation to the United Nations Environment Program, and as a member of the National Marine Fisheries Advisory Committee. During her career, she has focused on the role of natural resources in resource management and development, produced programs for the training of faculty and resource managers, and developed curriculum materials to teach natural resource management at the university level in the Caribbean. Dr. Ragster holds a Master of Science degree in Biology from San Diego State University, and a Doctorate in Biology from the University of California, San Diego.

**Dr. Eric Terrill:** Dr. Terrill is the Director of the Coastal Observing Research and Development Center at Scripps Institution of Oceanography. His areas of interest are on applied ocean sciences and technology development, air-sea interaction processes, and acoustical oceanography. In addition to his role as Director, Dr. Terrill has served as a member on the National Science Foundation Ocean Research Interactive Observatory Networks workshop steering committee and the State of California Coastal Ocean Currents Monitoring Program, executive committee. He was the technical director for the Southern California Coastal Ocean Observing System (SCCOOS). He was co-principal investigator for federal and state funding for the Southern California Coastal Ocean Observing System, and scientific liaison to local agencies and conservancies in assisting with local coastal environmental issues. Dr. Terrill has been a member of the Acoustical Oceanography Technical committee for the Acoustical Society of America, and grant reviewer for ocean energy related proposals to the California Energy Small Grant Program. Dr. Terrill has a doctorate in physical oceanography and applied ocean sciences from Scripps Institution of Oceanography, University of California, San Diego.