

MEMBERS OF THE OCS SCIENTIFIC COMMITTEE

BROWN, Dr. Ralph Browning

Dr. Brown is a Professor with the Department of Sociology at Brigham Young University and his interests include Community satisfaction and attachment, Persistent rural poverty and subsistence lifestyles, and Effects of consumer economy on rural communities.

CASTELLINI, Dr. Michael Angelo

Dr. Castellini is the Associate Dean at the School of Fisheries and Ocean Sciences, University of Alaska Fairbanks. His research focuses on many different aspects of marine mammal biology. Some of these include nutritional physiology of harbor seals and Steller sea lions in Alaska as related to their population declines and to the survival of seal and sea lion pups. Other projects include studies on lipid metabolism in marine mammals, nitrogen and protein requirements, population patterns as seen in blood chemistry profiles and stable isotope patterns in tissues. These programs are both field based from the Arctic to the Antarctic and conducted in collaboration with marine laboratories throughout North America.

COLEMAN, Dr. James M.

James M. Coleman is a Boyd Professor for the Coastal Studies Institute and recently served as Interim Vice-Chancellor for Research and Graduate Studies at Louisiana State University. He started his professional career as a graduate student at Coastal Studies Institute, LSU, and eventually serving as director of CSI, chairman of Geology and Geophysics, head of the School of Geoscience, and interim dean of Basic Sciences before being named Executive Vice-Chancellor in 1989. He has conducted worldwide research on deltaic sedimentation, riverine processes, marine geology, shallow structure of shelf sediments, and muddy coasts. He serves on numerous local, state, and national committees and is presently a member of the Ocean Studies Board, National Research Council, and has recently been appointed to the U.S. Commission on Ocean Policy.

DIAZ, Dr. Robert J.

Dr. Diaz's research interests center around understanding trophic dynamics and the functional importance of production in ecosystems, benthic boundary layer processes, and organism-habitat interactions, and how perturbations of these processes influence energy flow and population dynamics. Recently he has focused on organism-habitat interaction on the inner continental shelf to predict how sand dredging will affect fish and invertebrate communities. He is striving to estimate the relative resource value of various estuarine and marine benthic habitat types for the dual purpose of quantifying energy flow between habitats and for developing environmentally sound management strategies. This research has led him to consider a landscape ecological approach to looking within and between systems around the U.S. for how the physical and biological processes interact. In addition, he is also interested in the application of the statistical and numerical methods to biological data and in the ecology and taxonomy of estuarine and marine invertebrates with specialization in oligochaetes.

FRY, Dr. D. Michael

Michael Fry is the Director of the Pesticides and Birds Program and is an avian toxicologist with research interests in the effects of pollutants and pesticides on ecosystems, with a focus on wild birds. He received his doctorate at the University of California-Davis, where he then went on to be a research physiologist in the Department of Avian/Animal Sciences for 23 years before joining Stratus Consulting in 2003. Dr. Fry has been a panel member for the National Academy of Sciences on hormone active chemicals in the environment and has participated in toxicology reviews and international symposia for the Organization for Economic Cooperation and Development (OECD) and for the United Nations University in Japan. He has been a committee member for EPA and OECD in revising avian toxicity test methods and was a member of the EPA Ecological Committee for Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Risk Assessment Methods (ECOFRAM).

HILDRETH, Dr. Richard

Dr. Hildreth is the author of three casebooks and many other publications on ocean and coastal law. He has consulted frequently with federal and state coastal management agencies in the U.S. and Australia and with Pacific Island governments on environmental legal matters. Dr. Hildreth served as the University of Queensland Law Faculty's 50th Anniversary Visiting Fellow. He has served on the National Research Council's Non-native Oysters and Coastal Ocean Committees, the Pacific Northwest Regional Marine Research Board, and the editorial advisory boards of the journals Coastal Management and Ocean Development and International Law. Dr. Hildreth practiced business law with Steinhart & Falconer in San Francisco before teaching law.

KOSRO, Dr. P. Michael

Dr. Kosro is a coastal physical oceanographer, and an Associate Professor of Oceanography at Oregon State University. His group has installed and operates a large array of HF current mapping systems to continuously measure the time-varying surface circulation over the entire Oregon coast, while also using conventional moored and shipborne tools. Recent studies include interannual variability of the circulation, mesoscale features of the upwelling circulation, California Current and undercurrent, and spatial structure of tidal flows.

PRIEST, Dr. Tyler

Dr. Priest is Clinical Professor and Director of Global Studies at the C.T. Bauer College of Business, University of Houston, and faculty affiliate of the Public History Program at the University of Houston. He is also a member of the Technology Pioneer Committee for the Offshore Energy Center (OEC) in Houston. He received his Ph.D. in history from the University of Wisconsin-Madison. He specializes in the history of offshore oil and gas in the Gulf of Mexico and is currently working on a study of the evolution of offshore exploration technology and leasing. He has served as chief historian on a Shell Oil corporate history project and chief historian for an MMS project to document the history of the offshore oil industry in the Gulf of Mexico (OCS Study MMS 2004-049). He has authored books on the offshore operations of Shell Oil and Brown & Root.

REX, Dr. Michael A.

Dr. Rex's research is centered on the ecology and evolution of deep-sea benthic communities. It includes analyses of bathymetric and global-scale patterns of biodiversity and their causes. We are using satellite imagery to examine the relationship of surface production to community structure in the deep sea at different temporal and spatial scales. Geographic variation in body size of mollusks is being explored to study adaptation to the deep-sea environment. Multivariate analyses of shell architecture and

mitochondrial DNA are being employed to study patterns of population differentiation in deep-sea mollusks. Adaptive radiation and taxon cycles are being investigated by documenting patterns of taxonomic diversity. A major long-term research goal is to synthesize patterns of distribution, geographic variation, taxonomic composition and life histories to formulate a model of evolution in deep-sea invertebrates.

SCHWEITZER, Dr. Peter Paul

Born and raised in Austria, Dr. Schweitzer became fascinated with the mysterious country that no longer exists, the Soviet Union, during the 1980s. A student exchange program enabled him to study in Leningrad for one academic year in 1986/87 and to begin ethnohistoric research about the Chukchi Peninsula in the Russian Far East, which led to Ph.D. degree awarded by the University of Vienna in 1990. Since 1990, he has had several opportunities for longer and shorter field trips to Chukotka and, more recently, to the Republic of Sakha (Yakutia). Since 1992, he has been conducting fieldwork in various communities on the Seward Peninsula in Alaska. He joined the faculty of the Department of Anthropology at UAF in 1991. His topical interests, in addition to the above-mentioned historical inquiries, encompass social organization (kinship, gender, politics), hunter-gatherer studies, the history of anthropology, transnationalism and other forms of interethnic contact, as well as practices and ideologies of colonialism and their local impacts.

SCRANTON, Dr. Mary I.

Dr. Scranton received a BA in Chemistry from Mount Holyoke College and a PhD. in Oceanography from the Woods Hole Oceanographic Institution/MIT Joint Program in Oceanography. Her dissertation was on the marine geochemistry of methane. Following her dissertation work, she spent 2 years as a National Academy of Sciences/National Research Council Postdoctoral Fellow at the Naval Research Lab in Washington, D.C., working on analytical and geochemical aspects of hydrogen gas distributions in the ocean and atmosphere. Since 1979, she has been at the Marine Sciences Research Center of Stony Brook University. In recent years she has been interested in the factors controlling the cycling of organic compounds in sediments and in the water column, primarily as a part of the CARIACO (Carbon Retention in a Colored Ocean) program, a study of carbon cycling in the Cariaco Basin, Venezuela. She also maintained her long-standing interest in methane geochemistry and is investigating the role of seeps and vents, and possibly of destabilizing gas hydrates, in controlling water-column methane concentrations near the US North-East continental shelf.

SHINN, Dr. Eugene A.

Dr. Shinn received a BS in Zoology from the University of Miami in 1957. In 1958 he joined the Shell Development Company Field Station in Coral Gables, Florida, as a laboratory/diving technician which specialized in modern carbonate sedimentation and limestone alteration.

Dr. Shinn has had an extensive career not only with Shell Development Company, but also with Royal Dutch Shell and the Environmental Affairs Department at Shell's Head Office in Houston where he advised the company on environmental issues. In 1974, Dr. Shinn, as a senior geologist, left Shell to set up the 4-person USGS research field station at Fisher Island, Florida, where he led the field station's research for 15 years where the mission was to do research on sedimentation and alteration of modern carbonates, especially coral reefs of the Florida Keys. With funding from USGS conservation division, which later became MMS, Dr. Shinn supported a Texas A&M doctoral dissertation on the effects of drill mud on corals. In 1989, he transferred to St. Petersburg, Florida, where he worked as part of the USGS Coastal Program and initiated a study of sewage contamination and groundwater movement and seepage

in the Florida Keys. After 31 years of service, Dr. Shinn retired as a geologist from the USGS on January 3, 2006, and is now located at the University of South Florida Marine Research Center at St. Petersburg, Florida, where his title is Courtesy Professor.

SMITH, Dr. Joseph Patrick

Dr. Smith is group leader for environmental technology research at ExxonMobil Upstream Research Company. He holds a Ph.D. in physical chemistry from the University of California at Berkeley (1978) and a B.S. in chemistry from the University of Rochester (1972). He joined Exxon Production Research Company in 1981 and has been active in research on the environmental aspects of offshore oil and gas operations since 1990. His research interests include numerical modeling of offshore discharges, the environmental fate and effects of drilling and production discharges, and the environmental effects of seawater usage in liquefied natural gas processing. He is the chairman of the Offshore Operators Committee (OOC) Environmental Sciences Subcommittee and has also served on the steering groups for many joint industry environmental studies sponsored by organizations such as OOC, the American Petroleum Institute, and the International Association of Oil and Gas Producers.

STEPHENSON HAWK, Dr. Denise M.

Denise Stephenson Hawk, Ph.D., is Chairman and CEO of The Stephenson Group, LLC, a consulting firm in Atlanta, Georgia. The Stephenson Group, LLC is engaged in a variety of assignments within government, business and academia which provide strategic, operational and tactical planning in areas of the environment and education. Dr. Stephenson Hawk has served as an atmospheric scientist for the National Aeronautics and Space Administration (NASA); ocean systems analyst in areas of underwater acoustics for AT&T Bell Laboratories; and as provost, department chair and professor within academia. Dr. Stephenson Hawk currently serves on the steering committee for the National Weather and Climate Enterprise of the American Meteorological Society; National Academy of Sciences panel to review the oceans priorities plan of the Joint Subcommittee on Ocean Science and Technology; and advisory board for the Southeast Center for Ocean Science Education Excellence. She is a former member of the science advisory boards for the National Oceanic and Atmospheric Administration, NASA, National Science Foundation, and the Ocean Research Advisory Panel for the National Oceanographic Partnership Program. Dr. Stephenson Hawk earned Ph.D. and M.A. degrees in geophysical fluid dynamics from Princeton University; M.S. degree in environmental modeling from The George Washington University; and B.A. degree in mathematics from Spelman College.

TREFRY, Dr. John H.

Dr. Trefry is a Professor of Marine & Environmental Sciences at Florida Institute of Technology. He holds a Ph.D. in Chemical Oceanography from Texas A&M University. His research activities focus on the concentrations and cycling of trace metals in rivers, estuaries, oceans and deep-sea hydrothermal vents. Trace metals are studied for their natural value and for their potential as pollutants. Dr. Trefry's research activities are carried out in a wide variety of geographical settings including the Pacific and Atlantic Oceans, the Alaskan Arctic, the Gulf of Mexico and the Indian River Lagoon, Florida. He also has been active in studies of environmental issues related to offshore oil exploration and production in the Gulf of Mexico, the Beaufort Sea, the Sea of Okhotsk and other locations. He presently serves as President of the Florida Academy of Sciences.