



CAPITOL HILL  
OCEAN WEEK

— 2007 —

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*The Honorable Mark Pryor*

*The Honorable Jack Reed*

*The Honorable John W. Warner*

*The Honorable Ron Wyden*

### U.S. House of Representatives

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*The Honorable William Delahunt*

*The Honorable Rosa L. DeLauro*

*The Honorable Lincoln Diaz-Balart*

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*The Honorable Lloyd Doggett*

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*The Honorable Paul Gillmor*

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*The Honorable Bart Stupak*

*The Honorable Bennie G. Thompson*

*The Honorable John F. Tierney*

*The Honorable Fred Upton*

*The Honorable Frank Wolf*

*The Honorable Albert R. Wynn*



# Schedule of Events

5th Floor  
Reserve Officers Association  
One Constitution Avenue, NE  
Washington, DC

All sessions will take place at ROA unless otherwise noted.

Panelists are those confirmed through 5/25/07 and are subject to change.

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What an amazing year it has been for us at the National Marine Sanctuary Foundation. It was right on the heels of Capitol Hill Ocean Week 2006, that President George W. Bush issued the proclamation creating the Papahānaumokuākea Marine National Monument, establishing the largest marine protected area in the world.

The National Marine Sanctuary Foundation is proud to once again host Capitol Hill Ocean Week, which, for the past seven years, has brought together a wide-range of stakeholders to discuss current ocean and coastal issues. Each year, the Foundation strives to make the topics relevant to those who work on these issues for government, academia, industry and non-profit organizations. We hope you find the agenda for this year helpful to you and that you come away from the symposium with a renewed commitment to find ways to strengthen and build bridges between the private and public sectors for the betterment of the ocean.

Capitol Hill Ocean Week is the National Marine Sanctuary Foundation's largest effort of the year and it would not be possible without the support of our sponsors and non-profit and federal partners. I would also like to acknowledge the volunteer support we receive from the Office of National Marine Sanctuaries.

Together, we can all help protect, preserve, and promote a healthy and sustainable ocean.



Lori Arguelles  
President & CEO  
National Marine Sanctuary Foundation

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## Tuesday, June 5th

2:30 pm - 3:00 pm

### **Welcome and Keynote Address**

The Honorable Leon E. Panetta, *Leon & Sylvia Panetta Institute for Public Policy*

3:00 pm - 4:30 pm

### **A Legislative Agenda: Charting the Course**

Panelists, including Members of Congress and congressional staff, will discuss the outlook for ocean-related legislation and where they fall on the list of priorities for the 110th Congress.

*Moderator:*

Lori Arguelles, *President & CEO, National Marine Sanctuary Foundation*

*Panelists:*

Amy Carroll, PhD, *Professional Staff, House Committee on Science and Technology*

Jean Flemma, *Majority Professional Staff, House Committee on Natural Resources*

Amy Fraenkel, *Senior Democratic Counsel, US Senate Commerce Committee*

Robert Howarth, *Deputy Director, Office of Congressional and Legislative Affairs, US Department of the Interior*

Christopher Mann, *Senior Officer, Environment, The Pew Charitable Trusts*

Eric Webster, *Director, NOAA Office of Legislative Affairs*

Kevin Wheeler, *Director of External Affairs, Consortium for Oceanographic Research and Education*

**This panel is sponsored by The Pew Charitable Trusts.**

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## Wednesday, June 6th

9:00 am - 10:30 am

### **Hydrography: It's Not Just for Charting Anymore**

Panelists representing various sectors will discuss how hydrography provides essential data for a variety of scientific, environmental, public safety and security needs.

*Moderator:*

John H. Dunnigan, *Assistant Administrator for Ocean Services and Coastal Zone Management, NOAA National Ocean Service*

*Panelists:*

Larry Mayer, PhD, *Director, Center for Coastal and Ocean Mapping, University of New Hampshire*

Scott Rainey, *Chairman, Hydrographic Services Review Panel*

Tom Skinner, *Project Manager, Durand & Anastas Environmental Strategies, Inc.*

Captain Carlos E. Tejada, *Naval Attache, Embassy of Colombia*

Rear Admiral Richard D. West, USN (Ret.), *Consortium for Oceanographic Research and Education*

**This panel is sponsored by NOAA Office of Coast Survey.**

10:30 am - 10:45 am

**Break**



10:45 am - 12:15 pm

***Sounds in the Sea: Acoustics and Marine Mammals***

The possible impacts of ocean acoustics on marine mammals has caused more concern and gained more attention in recent years. Panelists will discuss the latest findings regarding the scope of impact and ways to reduce the negative effects.

*Member of Congress:*

Representative William D. Delahunt, *Massachusetts, 10th District*

*Moderator:*

Brandon Southall, PhD, *Director, Ocean Acoustics Program, NOAA NMFS Office of Science and Technology*

*Panelists:*

Jean-Michel Cousteau, *President, Ocean Futures Society*

Roger L. Gentry, PhD, *Program Manager, Joint Industry Program*

Robert C. (Bob) Gisiner, PhD, *Science Program Director, Marine Mammal Commission*

John Hildebrand, PhD, *Professor, Scripps Institution of Oceanography*

Kathy Metcalf, *Director, Maritime Affairs, Chamber of Shipping of America*

Peter L. Tyack, PhD, *Senior Scientist, Woods Hole Oceanographic Institution*

David Wiley, PhD, *Research Coordinator, Stellwagen Bank National Marine Sanctuary*

***This panel is sponsored by Pacific Life.***

12:15 pm - 12:30 pm

***Break***

12:30 pm - 2:15 pm

***Luncheon***

***Cannon House Office Building***

***(Caucus Room/345)***

***Census of Marine Life:***

***Incorporating Biological Data in Ocean Observatories;***

***CORE Governors' Award Ceremony***

Biological data is essential to understanding the overall health and sustainability of our Nation's ocean ecosystems, as well as the entire global marine ecosystem. Panelists will discuss the importance of incorporating this data in ocean observatories. At the beginning of this luncheon, the Consortium for Oceanographic Research and Education (CORE) will be presenting awards to the Governors of Washington, Oregon and California for their effort to protect the ocean and coast.

*Moderator:*

Paul A. Sandifer, PhD, *Senior Scientist, NOAA National Ocean Service*

*Panelists:*

Steven Bograd, PhD, *Research Oceanographer, NOAA/NMFS Southwest Fisheries Science Center*

Churchill B. Grimes, PhD, *Director, NOAA/NMFS Southwest Fisheries Science Center, Fisheries Ecology Division*

Mark E. Luther, PhD, *Associate Professor, University of South Florida*

***Today's luncheon is sponsored by Alfred P. Sloan Foundation & Consortium for Oceanographic Research and Education.***

2:15 pm - 2:30 pm

***Break***

2:30 pm - 4:30 pm

***The Economics of Coastal Communities***

Coastal economies are the most vibrant in the nation, including fisheries, tourism, recreation, ocean-related employment, retail development, and more. Panelists will discuss the contribution of coastal communities to the nation's economy and the nuances that make them unique from other areas.

*Members of Congress:*

Representative Tom Allen, *Maine, 1st District*

Representative Jay Inslee, *Washington, 1st District*

*Moderator:*

Linwood Pendleton, PhD, *Senior Fellow and Director of Economic Research, The Ocean Foundation*

*Panelists:*

Michael L. Andrews, *Vice President, The Nature Conservancy*

Daniel J. Basta, *Director, NOAA Office of National Marine Sanctuaries*

Marylou Foley, *Public Relations, Outrigger Hotels and Resorts*

Bob Holston, *Owner, Dive Key West, Inc.*

Craig Hooks, *Director of the Office of Wetlands, Oceans, and Watersheds, US Environmental Protection Agency.*

Judith Kildow, PhD, *Director and PI, National Ocean Economics Program, The Monterey Bay Aquarium Research Institute*

***This panel is sponsored by The Ocean Foundation.***

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***Thursday, June 7th***

9:00 am - 11:00 am

***Rayburn House Office Building (Room 2325)***

***Ecosystem-based Management: A Comprehensive Approach***

What is it and how can it be applied? This panel will use case studies to illustrate how ecosystem-based management is being effectively used and developed.

*Member of Congress:*

Representative Wayne Gilchrest, *Maryland, 1st District*

*Moderator:*

Steven Murawski, PhD, *Director of Science Programs, NOAA Fisheries and NOAA Ecosystem Goal Lead*

*Panelists:*

Peter J. Auster, PhD, *Associate Research Professor, University of Connecticut*

Steve Gittings, PhD, *Science Coordinator, NOAA National Marine Sanctuary Program*

Jo-Ann C. Leong, PhD, *Director and Professor, Hawaii Institute of Marine Biology*

Elliott Norse, PhD, *President, Marine Conservation Biology Institute*

Patten D. (Pat) White, *Commercial Fisherman; Commissioner, Atlantic States Marine Fisheries Commission*

***This panel is sponsored by NOAA National Undersea Research Program.***



11:30 am - 12:00 pm

**Break**

12:00 pm - 2:00 pm

**Luncheon****NOAA Past and Present:*****A Conversation with NOAA's Administrators;******NMSF Congressional Staff Leadership Award Presentation***

For more than 30 years, NOAA has provided sound science, strong stewardship, and essential services to the nation. NOAA's administrators, past and present, will discuss the key issues of their terms and provide current perspective on resolution of these issues. Also during this special luncheon, selected current and former congressional staffers will be honored for their hard work and dedication to the benefit of our oceans.

*Member of Congress:*Senator Ted Stevens, *Alaska**Moderator:*Vice Admiral Conrad C. Lautenbacher, Jr., USN (Ret.),  
*Undersecretary of Commerce for Oceans and Atmosphere and NOAA Administrator 2001-present**Panelists:*William E. Evans, PhD, *Professor Emeritus, Texas A&M University, NOAA Administrator 1988*  
Scott Gudes, *Staff Director, Senate Budget Committee; Acting NOAA Administrator 2001*  
Robert White, PhD, *Director, The Washington Advisory Group; NOAA Administrator 1970-1977*

***Today's luncheon is in celebration of NOAA's 200 years of science, service, and stewardship.***

***Presentation of Congressional Staff Awards***

*NMSF would like to show our appreciation to these outstanding current and former congressional staff members for their hard work and dedication in support of the ocean.*

Margaret Cummisky  
Majority Staff Director  
Senate Committee on  
Commerce, Science, and TransportationJim Morhard  
Morhard and Associates LLCScott Gudes  
Minority Staff Director  
Senate Budget CommitteeMatt Paxton  
Special Counsel  
Ball Janik LLPLila Helms  
Deputy Staff Director, Majority  
Senate Committee on  
Commerce, Science, and TransportationMargaret Spring  
The Nature Conservancy  
Former General Counsel  
Senate Committee on  
Commerce, Science, and Transportation

2:00 pm - 2:30 pm

**Break**

2:30 pm - 4:30 pm

***Ocean Management: Planning for the Future***

With the myriad uses of the oceans continually expanding, this panel will explore whether comprehensive, area-based ocean planning and management are the best way forward to ensure sustainable use of our ocean resources for the future.

*Member of Congress:*Representative Madeleine Z. Bordallo, *Guam*  
Representative Sam Farr, *California, 17th District**Moderator:*Kacky Andrews, *Executive Director, Coastal States Organization**Panelists:*Billy D. Causey, PhD, *Regional Director, Southeast Atlantic, Gulf of Mexico, and Caribbean Region, Office of National Marine Sanctuaries*  
Secretary Mike Chrisman, *Secretary of Resources, State of California*  
Tom Fry, *President, National Ocean Industries Association*  
Kameran Onley, *Assistant Deputy Secretary, US Department of the Interior*  
James Sanchirico, PhD, *Senior Fellow, Resources for the Future*  
Vikki Spruill, *President & CEO, The Ocean Conservancy*

***This panel is sponsored by MOTE Marine Laboratory, Inc.***

2007



2007

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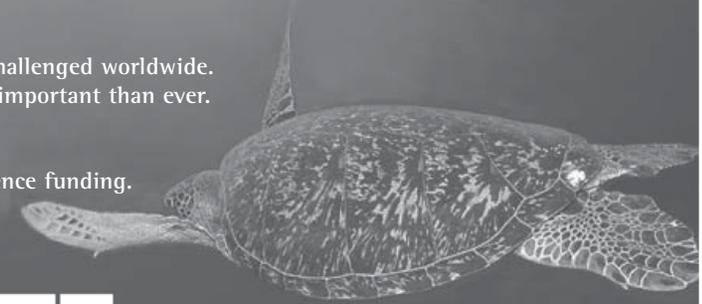
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NOAA Fisheries Service is proud to be a sponsor of Capitol Hill Ocean Week. We value our partnership with the National Marine Sanctuary Foundation, and our contribution to discussions that enhance the understanding and importance of stewardship of the oceans and their living marine resources.

*The Environment Program of The Pew Charitable Trusts is proud to support Capitol Hill Ocean Week*

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# Making Ocean Life Count

The Census of Marine Life is a growing global network of researchers in more than 80 nations engaged in a ten-year initiative to assess and explain the diversity, distribution, and abundance of marine life in the oceans – past, present, and future.

[www.coml.org](http://www.coml.org)

Cliona limacina, courtesy of Kevin Raskoff ©2005

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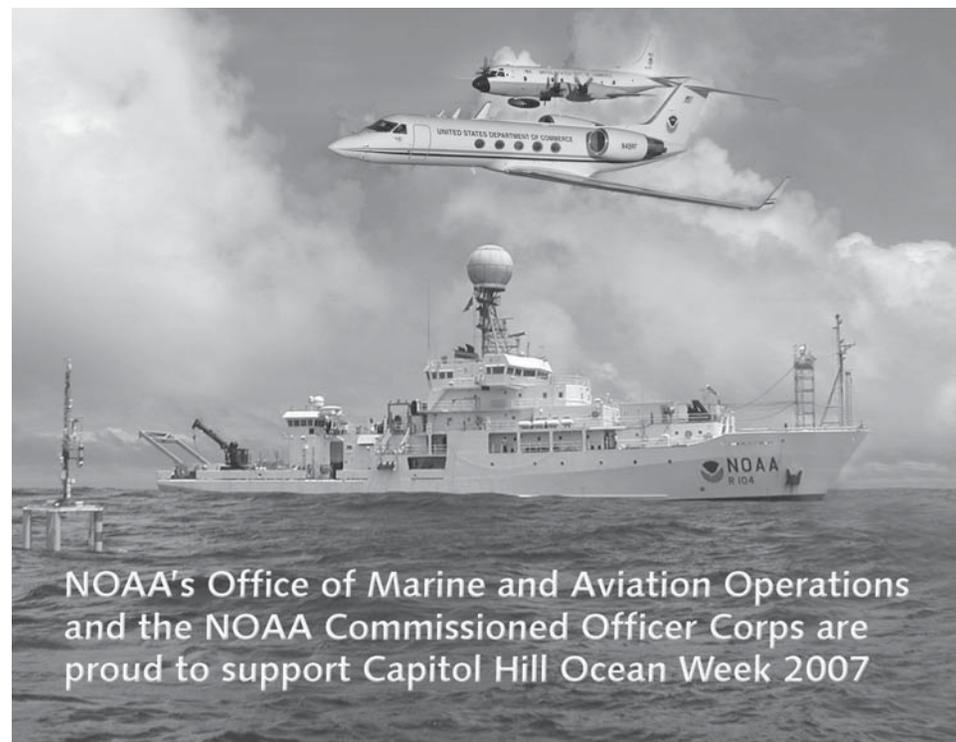
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## ~Speakers~

**Representative Tom Allen** represents Maine's 1st District, and is co-chair of the House Affordable Medicines Task Force and the bipartisan House Oceans Caucus, and serves on the House Budget Committee, and the House Energy and Commerce Committee, promoting his environmental priorities through his seats on the Energy and Air Quality Subcommittee and the Environment and Hazardous Materials Subcommittee. He supports a new national energy policy to decrease reliance on fossil fuels and foreign oil and encourage innovation and conservation. He has introduced bipartisan legislation to provide relief to small businesses, offsetting rising energy costs, and bipartisan legislation to promote energy efficiency across many sectors of our economy. He is an outspoken critic of the proposed New Source Review rule allowing exemptions from Clean Air Act requirements and fought initiatives to exempt the Department of Defense from environmental regulations. He led the effort to protect local governments from paying to clean up Methyl Tertiary Butyl Ether (MTBE), to preserve Clean Air Act ozone regulations, and to defend the rights of communities to participate in hydropower licensing proceedings.

**Kacky Andrews** is Executive Director of the Coastal States Organization, and has extensive experience with coastal issues. She most recently served as the Director of Coastal and Aquatic Managed Areas at the Florida Department of Environmental Protection, where she effectively managed millions of acres of coastal habitats, instituted an effort to engage local communities in the management of Florida's coastal protected areas, and helped launch an alliance of the Gulf States to improve the environmental condition of the Gulf of Mexico. She also worked closely with the Florida State Legislature to pass the Florida Oceans and Coastal Research Council. Prior to joining the state, she was the Director of Government Relations with the Florida Chapter of The Nature Conservancy. She has a degree in economics from Duke University, a law degree from the University of Florida, and a masters degree in natural resources law from the Northwestern School of Law at Lewis & Clark College in Portland.

**Michael L. Andrews** is Vice President of The Nature Conservancy, helping the Conservancy better understand the relationship between conservation and a healthy human population. He began his nearly 25-year-career with the organization as Kentucky State Director, and has since worked his way through several leadership roles with regional and international programs. Prior to joining the Conservancy, Mike was Executive Director of Northern Kentucky Family Health Centers, Inc. He has served on the Board of Trustees of several organizations, including terms as President of the Piedmont Youth Orchestras and Vice Chair of St. Elizabeth Medical Center, Kentucky's largest hospital. Mike currently serves as member of the US National Fish Habitat Board and NatureServe. He studied philosophy at Centre College and Rutgers University, has a Masters degree from Xavier University, and has completed the General Manager Program at Harvard Business School.

**Lori Arguelles** is CEO of the National Marine Sanctuary Foundation, whose mission is to augment the outreach and education efforts of the National Marine Sanctuary System. Prior to joining the Foundation, Lori served as Director of Communications for Girl Scouts of the USA, where she managed a major corporate re-branding effort, and oversaw the media, audio-visual, Internet, and internal communications for the 500-person organization. She also served as Director of Public and Constituent Affairs for NOAA, creating several major outreach and education campaigns, including the Year of the Coral Reef and Year of the Ocean Efforts. As a radio reporter, Lori worked for several local and regional outlets, as well as the NBC/Mutual radio network in Washington, DC, and has served as press secretary for two Members of Congress. Lori received her Master's degree in Public Communication from American University and her B.A. from Northern Arizona University.

**Peter J. Auster, PhD** is the Science Director for the National Undersea Research Center and Associate Research Professor in the Department of Marine Sciences at the University of Connecticut, researching the ecology and conservation of fishes. For 20 years he has worked to define how variation in seafloor habitats mediate the distribution, abundance and diversity of fishes; understand the linkages between habitat-level processes and population-community dynamics; and develop approaches for monitoring the status of habitats and communities. He has focused on the impacts of fishing on the environment and developing the scientific basis for using marine protected areas as a conservation tool, participating in more than 40 major research cruises around the globe. Using a variety of methodologies, his approach to fieldwork is to make direct underwater observations, just as wildlife biologists do on land. He serves on several panels and committees, and is involved in several public outreach initiatives. His accolades include a Pew Marine Conservation Fellowship, the NOAA Environmental Hero Award, and he was named a Fellow of the American Institute of Fishery Research Biologists.

## ~Speakers~

**Daniel J. Basta** is the Director of NOAA's Office of National Marine Sanctuaries, managing 13 national marine sanctuaries and one national marine monument. He has led a system-wide effort to build award-winning educational film products on the importance of sanctuary resources and builds partnerships with public-private organizations, industries, and academia throughout the world. With a background in environmental engineering, his expertise has focused on the integration aspects of complex assessment and management problems. His 30 years of experience with environmental quality and natural resources assessment and management has given him considerable knowledge regarding natural system modeling resource economics, demography, land use planning, systems analysis, living marine resource assessment, and information science and technology. The co-author of more than 50 publications, prior to his work with NOAA, Dan Basta worked with Resources for the Future, the Environmental Studies Board of the National Academy of Sciences, and John Hopkins University. He holds a B.S. in industrial engineering from Hofstra University and an M.S. in engineering and policy sciences from SUNY Stony Brook.

**Steven Bograd, PhD** is a physical oceanographer at NOAA/NMFS Southwest Fisheries Science Center, Environmental Research Division, in Pacific Grove, California. His interests are in physical-biological interactions in the ocean, coastal and upper-ocean processes, eastern boundary current systems, climate variability, marine biogeochemistry, and fisheries oceanography. He is currently a co-Principal Investigator with the CoML's Tagging of Pacific Pelagics (TOPP) program, and is involved in a number of research projects studying interannual to decadal-scale climate variability and its impacts on the marine ecosystems of the North Pacific Ocean. Dr. Bograd received his PhD in Oceanography from the University of British Columbia in 1998, and held a post-doctoral fellowship at Scripps Institution of Oceanography before coming to NOAA in 2001.

**Representative Madeleine Z. Bordallo** is serving her third term as the first woman to represent Guam in the US House of Representatives. She is a member of the House Committee on Natural Resources, Chairwoman of Subcommittee on Fisheries, Wildlife and Oceans, and sits on the Subcommittee on Insular Affairs. She also serves on the House Committee on Armed Services, and in addition to her committee responsibilities, the Congresswoman serves on multiple caucuses, including as Secretary of the Congressional Asian Pacific American Caucus (CAPAC), and also as its Chair of the Healthcare Task Force. Congresswoman Bordallo has a long history of leadership of community organizations, and was introduced to public service through her role as First Lady of Guam. In between her husband's two terms as Governor, she became the first woman from the Democratic Party to serve as a Guam Senator. Following the death of her husband, she ran for Governor herself in 1990, the first woman on Guam to head a gubernatorial ticket. Although she was not successful, she partnered with Senator Carl Gutierrez in 1994, and became the first female Lieutenant Governor of Guam, championing the cause of island beautification to enhance Guam's tourism based economy. Although born in Minnesota, she graduated high school in Guam, and attended St. Mary's College in South Bend, Indiana, and St. Catherine's College in St. Paul, Minnesota, graduating with a degree in music.

**Amy Carroll, PhD** is on the Minority Professional Staff for the House Committee on Science and Technology, Environment, Technology, and Standards Subcommittee, appointed by then-Chairman Vernon Ehlers in 2003, and has served as Staff Director for that Subcommittee. Originally from the Seacoast area of New Hampshire, Amy earned a B.S. in biochemistry and environmental science from the University of Notre Dame, and a Ph.D. from Cornell University in environmental microbiology and environmental engineering, with a focus on bioremediation of groundwater pollution. Upon completion of her degree in August 2002, she worked for the House Committee on Science as a Congressional Fellow sponsored by the American Society for Microbiology through the American Association for the Advancement of Science. Currently, Amy continues her service to the Republican caucus of the House Committee on Science and Technology by covering issues related to the National Oceanic and Atmospheric Administration, the Environmental Protection Agency and the National Institute of Standards and Technology.



## ~Speakers~

**Billy D. Causey, PhD** is the Southeast Regional Director for NOAA's Office of National Marine Sanctuaries. Previously, he spent 23 years managing National Marine Sanctuaries, first as Manager of the Looe Key National Marine Sanctuary, and then as the Superintendent of the Florida Keys National Marine Sanctuary. Billy has been the lead NOAA official in the development of the management plan for the Keys Sanctuary, including development of this nation's first comprehensive marine zoning plan. He led efforts to establish the largest network of fully protected areas in the continental US, and serves as liaison with other agencies responsible for management of natural resources in the Southeast Region. He received a B.A. from the University of Corpus Christi, and an M.S. from Texas A&I University. He was introduced to the Florida Keys coral reef ecosystem during post graduate work at the University of South Florida, and was awarded an Honorary Doctorate from that school in 2006. He has received numerous national and international awards for his work in marine protected areas, and has served on the Governor's Commission for Sustainable South Florida, on the Working Group for the South Florida Ecosystem Restoration Task Force, and was recently appointed to the State of Florida's Ocean and Coastal Resources Council.

**Secretary Mike Chrisman** was appointed California Secretary of Resources in 2003, and is the Governor's chief advisor on issues related to California's natural, historical, and cultural resources. Prior to his appointment, Secretary Chrisman served as the Region Manager for the Southern California Edison Company and has also served as Undersecretary for the California Department of Food and Agriculture, and on California's Fish and Game Commission as Chairman of the Wildlife Conservation Board. He holds a Master of Science in Agricultural Education and a Bachelor's degree in Agronomy and Plant Science from the University of Arizona. He is owner and partner of Visalia's Chrisman Ranches, a family ranching and farming business in Tulare County. He and his wife Barbara have two children and five grandchildren.

**Jean-Michel Cousteau** is the President of the Ocean Futures Society, created to continue the legacy of ocean exploration and conservation first inspired by his late father, Captain Jacques-Yves Cousteau. Jean-Michel travels the globe, meeting with world leaders and policymakers from the grassroots level to the highest echelons of government and business, educating of thousands of students every year, documenting stories of change and hope, and lending his reputation and support to help energize alliances for positive change. He is Executive Producer of "Jean-Michel Cousteau's Ocean Adventures," a film series created in Partnership with KQED, a PBS-affiliate. He has produced more than 70 films and been awarded the Emmy, the Peabody Award, the 7 d'Or (the French equivalent of the Emmy), and the Cable Ace Award. Jean-Michel is also the first recipient of the Ocean Hero Award from Oceana in 2003, was the first person to represent the Environment in the Opening Ceremonies of the 2000 Olympic Games, and received the Environmental Hero Award at the White House National Oceans Conference. He serves on the Board of Trustees of the National Marine Sanctuary Foundation.

**Representative William D. Delahunt** is serving his fifth term for the 10th District of Massachusetts, which includes Cape Cod, Martha's Vineyard, Nantucket, and Boston's South Shore. He is a member of the House Committee on Foreign Affairs, Chairman of the Subcommittee on International Organizations, Human Rights, and Oversight. He is also a member of the House Committee on Foreign Affairs, the Judiciary Committee, and serves on several bipartisan caucuses. He promotes economic development in areas such as renewable energy, bio-fuels and ocean technology, and is a strong advocate of heritage tourism, wetlands restoration, and a defender of the region's ocean sanctuaries and National Parks. Representing a coastal district, he promotes collaboration and consensus between environmental and economic interests, such as creating an innovative whale-safe gear program for local fisherman. A graduate of Middlebury College in Vermont, Mr. Delahunt later went on to earn a law degree from Boston College. He served from 1963 to 1971 in the Coast Guard Reserve, and spent two decades as a prosecutor and District Attorney before his election to Congress.

## ~Speakers~

**John H. Dunnigan** is NOAA's Assistant Administrator for Oceans and Coastal Services, responsible for the overall execution of activities in NOAA's National Ocean Service (NOS). He previously served as NOAA's Ecosystem Goal Team Lead, responsible for planning, programming and overall coordination across NOAA of its nine ecosystem goal programs. He lead NOAA's efforts to move forward in the utilization of ecosystem approaches to management of ocean and coastal resources. Also, he served as Director of NOAA's Office of Sustainable Fisheries, providing national coordination and oversight of the agency's fisheries conservation and management policy and activities. Prior to joining NOAA, he served as the Executive Director of the Atlantic States Marine Fisheries Commission, helping member states to develop and implement mutual conservation programs for shared coastal and marine fishery resources. He has served in a leadership role on the staff of the NOAA Office of General Counsel and the New England Fishery Management Council.

**William E. Evans, PhD** is the editor of American Midland Naturalist and a visiting professor at the University of Notre Dame and Professor Emeritus of Marine Biology, Oceanography, and Wildlife and Fisheries Sciences at Texas A & M University at Galveston. After obtaining a M.Sc. at Ohio State, he spent several years in the defense industry as an acoustician studying the effects of aircraft noises on animals and developing anti-submarine weapons systems. From there he moved to the U.S. Navy, working with dolphins at Pt. Mugu and San Diego. Widely recognized for his early work on marine mammal acoustics and tracking, he obtained his Ph.D. at UCLA in 1975, became the head of the Hubbs-SeaWorld Research Institute, and rose swiftly to a series of high-level positions in marine research and policy: Chairman of the Marine Mammal Commission, Director of NOAA Fisheries, Under Secretary of Commerce (Administrator of NOAA), and U.S. Commissioner to the IWC. In 1989, he moved to Texas A&M University, where he was Dean of the Maritime College, President of the Texas Institute of Oceanography and Professor of Marine Biology and Marine Sciences until his retirement in 1998.

**Representative Sam Farr** represents California's Central Coast, including Monterey County's Big Sur coastline, the Monterey Bay NMS, and the redwoods, mountains and beaches of Santa Cruz County. Known for his passion for ocean issues, the 1998 National Oceans Conference took place in his district. A founding co-chair of the bipartisan House Oceans Caucus, he was the impetus behind legislation that created the U.S. Commission on Ocean Policy which released its final report on the state of the oceans in 2004. Farr and the House Ocean Caucus introduced the first legislative response to the USCOP report, Oceans-21, and have continued to push for enactment of the major recommendations of the commission. He also sits on the House Appropriations Committee, a steadfast proponent of full funding for ocean protection and research initiatives. He holds a Bachelor of Science degree in Biology from Willamette University in Salem, Oregon and attended the Monterey Institute of International Studies and the University of Santa Clara.

**Marylou Foley** leads community outreach and public relations activities for Outrigger Waikiki, Outrigger Reef, and Outrigger Keauhou Beach Resort in Hawaii and Te Tiare Beach Resort on Huahine, French Polynesia, all part of the Outrigger Enterprises Group, one of the largest and fastest-growing hospitality services companies in the Pacific. She also coordinates Outrigger's partnership with NOAA National Ocean Service throughout the islands of Hawaii, Tahiti, Fiji, Guam, Bali and soon to be Palau. Prior to working with Outrigger, she was an Administrator for Hawaii State Department of Business and Economic Development overseeing Industry Promotion of Ocean Resources, Film and Made In Hawaii products. She previously owned a marketing firm representing hotels, transportation companies and airlines in Hawaii, New Zealand, Australia, Fiji, Tahiti and Israel.

**Amy Fraenkel** provides counsel to members of the US Senate Committee on Commerce, Science and Transportation and the Oceans, Atmosphere, Fisheries and Coast Guard Subcommittee, which has jurisdiction over NOAA. She formerly worked as a senior policy advisor in the Office of International Affairs within the US Environmental Protection Agency. Ms. Fraenkel worked on international, corporate, environmental and pipeline safety issues in private law practice for seven years at the law firms Cleary, Gottlieb, Steen and Hamilton in New York, and LeBoeuf, Lamb, Greene and MacRae in San Francisco. She has served as a consultant to the United Nations and to the Organization for Economic Cooperation and Development. Ms. Fraenkel graduated from Harvard Law School in 1990.



## ~Speakers~

**Tom Fry** is President of the National Ocean Industries Association (NOIA), a national trade association representing the offshore energy industry. Before joining NOIA, Tom served at the Department of the Interior, first as Director of the Minerals Management Service, and later as the Director of the Bureau of Lands Management. Tom's experience also includes a posting as Regional Counsel for the US Department of Energy in Dallas, as the Director of the Houston Oil Field Office of the Economic Regulatory Administration, and as Assistant Attorney General of Texas. He served as the Vice President of American Natural Resources, Inc., he practiced law in private practice in Dallas, and he taught business law at the University of Texas at Dallas. Tom serves on the Boards of Directors of Pogo Producing Company, the National Energy Education Development project, and the National Marine Sanctuary Foundation. A long-time Texas resident, Tom earned a law degree from Southern Methodist University Law School, and a bachelor's degree from Trinity University.

**Roger L. Gentry, PhD** is the Program Manager for OGP, a London-based oil industry partnership that sponsors original research on sound produced by the offshore industry, and its effects on marine life, where he produces high quality data called for by international regulators and the scientific community. His past experience includes service as a field biologist at the NOAA National Marine Mammal Laboratory in Seattle, where he conducted field research on whales, penguins and seals, helped pioneer Time-Depth recorders, and published two books on fur seals, as well as work on acoustic issues in the NOAA Office of Protected Resources where he advised regulators on such projects as ATOC, LFA, seismic airguns, explosions, and mid-frequency sonar. He started two expert panels now writing noise exposure criteria for marine mammals, fish and turtles, and held workshops to design a global network for monitoring underwater ambient noise, and laid the groundwork for the first symposium on shipping noise. He holds a Master's degree in marine mammal acoustics and a Ph. D. in animal behavior from the University of California, Santa Cruz, and completed a postdoctoral fellowship on fur seals at the University of Adelaide, South Australia.

**Representative Wayne Gilchrest** is known as an independent voice on Capitol Hill, with legislative priorities including fiscal responsibility and environmental protection, with a particular focus on the Chesapeake Bay region. He is a senior member of the House Natural Resources Committee, serving on the Subcommittee for Fish, Wildlife, and Oceans, and is also a senior member of the House Transportation and Infrastructure Committee, on the Rail, Pipelines and Hazardous Materials Subcommittee, Water Resources and Environment Subcommittee, and the Subcommittee on Coast Guard and Maritime. He is Chairman of the Chesapeake Bay Watershed Task Force, and co-chairs the House Climate Change Caucus, and the House Corps Reform Caucus. A former Marine, Gilchrest served as a Sergeant during the Vietnam conflict, and was awarded the Purple Heart, Bronze Star, and Navy Commendation medal. He holds a Bachelor's degree in History from Delaware State College, and was a high school history, government, and civics teacher before his election to Congress.

**Robert C. (Bob) Gisiner, PhD** is Scientific Program Director of the U.S. Marine Mammal Commission. Previously, he was the Marine Bioacoustics program manager for the Office of Naval Research, where he managed basic and applied research programs in effects of anthropogenic noise on marine mammals, biosonar, biolocomotion, and in marine mammal health & diving physiology. His accolades include the Navy Meritorious Civilian Service Award, several Certificates of Commendation from the Navy, National Marine Fisheries Service, Marine Mammal Commission and others. After completing his Ph.D. in Biology at the University of California at Santa Cruz studying Steller sea lions, he stayed on there as a post-doctoral lecturer and researcher. He became a researcher at the Navy Marine Mammal Lab in Kaneohe Bay, Hawaii, and then, San Diego, California, continuing research on complex learning and bio-acoustics with dolphins, a false killer whale and other animals.

**Steve Gittings, PhD** is Science Program Manager for NOAA's Office of National Marine Sanctuaries, working with scientists to better understand how the ocean controls living and non-living resources in marine sanctuaries, to track changing conditions, and to reduce human impacts that diminish environmental quality. Formerly, he managed the Flower Garden Banks National Marine Sanctuary, and was once Assistant Research Scientist for the Geochemical and Environmental Research Group at Texas A&M University. He specializes in: coral reef biology, ecology, and monitoring, biofouling ecology, and taxonomy and biogeography of barnacles, with research involving characterizations of reefs and banks in the northern Gulf of Mexico; the effects of brine discharges of the Strategic Petroleum Reserve; investigative work for the NTSB; reef damage and recovery after ship groundings and anchoring; and establishing monitoring programs in a variety of ecosystems. His B.S. is in Biology from Westminster College, and his M.S. and Ph.D. in Oceanography is from Texas A&M University.

## ~Speakers~

**Churchill B. Grimes, PhD** is Director of the National Marine Fisheries Service (NMFS), Southwest Fishery Science Center, Fisheries Ecology Division, overseeing the research program providing the scientific basis for conservation and management of California demersal fishery resources and recovery and restoration of ESA listed anadromous species in California, and has also served NMFS as Director and as Leader of Fishery Ecology Investigations, Southeast Fishery Science Center, Panama City Lab. Prior to joining NMFS, he was Associate Professor of Marine Fisheries at Rutgers University, and has published over 100 papers on various marine and anadromous fishery resources. He co-pioneered the use of submersible and acoustic mapping technologies in deepwater fish habitat studies, and made significant research contributions toward understanding the role of ocean environmental features on the success of fish reproduction and recruitment. He has served on numerous scientific advisory bodies, and his accolades include several NOAA Bronze Medals and the Southern Division of the American Fisheries Society's Outstanding Achievement Award. He earned his Bachelors and Masters degrees in biology at East Carolina University and his Ph.D. in Marine Sciences at the University of North Carolina.

**Scott Gudes** is Staff Director of the Senate Budget Committee, which oversees the \$2.8 trillion federal budget, leading the staff that helps the Committee draft and pass the Budget Resolution, and related legislative vehicles. He previously served as Staff Director of the Commerce, Justice, and State, the Judiciary and Related Agencies Subcommittee, and in the House Foreign Operations and Export Financing Appropriations Subcommittee. From 1998 until 2003, he served as Deputy Under Secretary for Oceans and Atmosphere for NOAA, and served as the Acting NOAA Administrator/Under Secretary during the first year of the Bush Administration. He simultaneously attended to duties as the Department of Commerce's Chief Financial Officer/Assistant Secretary for Administration in 1999, and Assistant Secretary for Oceans and Atmosphere in 1999-2000. Before joining NOAA, he served the Senate on the Committee on Appropriations, on both the Defense and Commerce, Justice and State Subcommittees. His early career was highlighted by positions with the Office of Management and Budget in the Executive Office of the President, the Office of the Secretary of Defense, and the City Manager of Costa Mesa, California. He completed undergraduate studies at San Diego State University and the University of Liverpool, United Kingdom, and earned his Master's of Public Administration from California State University Fullerton. Scott has been a guest lecturer at the John F. Kennedy School of Government, Harvard University, and was a 1997/98 John C. Stennis Congressional Fellow. In 2003, he was awarded the Presidential "Distinguished Rank" Senior Executive Service Award, the highest award in the civil service, in recognition of his leadership and management at NOAA. He was recently awarded the American Meteorological Society's Special Award for his leadership in creating environmental education programs.

**John Hildebrand, PhD** is a Professor at the Scripps Institution of Oceanography at the University of California at San Diego and a member of the Committee of Scientific Advisors of the Marine Mammal Commission. He obtained a B. S. degree in Physics and Electrical Engineering at the University of California San Diego, and a Ph.D. degree in Applied Physics from Stanford University. He has been on the research staff of the Scripps Institution of Oceanography since 1983. During this time he has chaired ten graduate Ph.D. thesis committees, and regularly teaches classes on bioacoustics, and experimental laboratory acoustics. He has contributed to more than 100 referred publications, on topics ranging from acoustic wave propagation, to sound production by marine mammals. His recent research has focused on ambient noise, acoustic techniques for marine mammal population census, and the effects of high intensity sound on marine mammals.

**Bob Holston** owns and operates a dive center specializing in instruction, retail and charters in Key West, Florida. He is a certified dive instructor and has been actively teaching for almost 40 years. Bob was a member of a joint US Navy/NASA/NOAA project, the TEKTITE I Team, a team of divers living at 60 feet for 60 days. Bob's primary interest has been in teaching sport diving and the appreciation of the aquatic environment, and testified before Congress on the nomination of the Florida Keys as a National Marine Sanctuary. He has been a member of the FKNMS Advisory Council since its inception, and currently represents Tourism. In 1993, Bob was awarded the PLATINUM PRO 5000 by SSI and SKINDIVER Magazine for his contributions to the diving industry, alongside Jacques and Jean-Michel Cousteau. He has been a leader in the dive industry, involved with multiple diving, tourism, and environmental organizations. Bob and his partner, Cece Roycraft, chaired the fundraising committee for the Florida Keys Eco-Discovery Center, facilitating state of the art exhibitry.



## ~Speakers~

**Craig Hooks** is the Director of the Office of Wetlands, Oceans, and Watersheds (OWOW) at the United States Environmental Protection Agency (EPA) within the Office of Water. OWOW promotes a watershed approach to manage, protect, and restore the water resources and aquatic ecosystems of the nation's marine and fresh waters. He career path has included many leadership positions at the EPA, including Acting Principal Assistant Administrator in the Office of Environmental Information, Deputy Director of OWOW, Director of the Federal Facilities Enforcement Office within the Office of Enforcement within the Office of Enforcement and Compliance Assurance (OECA), and Associate Director of the Administration and Resource Management Support Staff within OECA. He spent two years as Special Assistant to the Assistant Administrator for the Administration and Resources Management and OECA. Before joining EPA, Mr. Hooks worked at the National Oceanic and Atmospheric Administration as a physical scientist. Mr. Hooks holds a Masters degree in Oceanography from Texas A&M University and a Bachelor's degree in Zoology from the University of Florida. He is married and the father of three girls.

**Congressman Jay Inslee** is a native of Washington state, representing the 1st Congressional District. His mission is to protect the environment of Washington state and address the problem of global warming. He was appointed to the Select Committee on Energy Independence and Global Warming in 2006, where he plans to advance his comprehensive energy bill and other measures that would reduce greenhouse-gas emissions. He has helped expand Washington's high-tech economy, promote privacy protections for American consumers, and strengthen programs for seniors like Social Security and Medicare. He has supported increased spending for port security and veterans' services, and is an outspoken critic of the war in Iraq. Before his election to Congress, Jay Inslee was a state legislator and prosecutor in Selah, Washington. He holds a bachelor's degree in economics from the University of Washington and a law degree from Willamette University.

**Judith Kildow, PhD** is the Founder and Director of the National Ocean Economics Program, and was named the first Social Scientist at the Monterey Bay Aquarium Research Institute, where she will carry on her ocean economics program to track changes in human activities along the nation's coasts, and give economic and policy context to the ocean observation research at MBARI. She is an adjunct professor at California State University at Monterey Bay, recently completing her term as the James W. Rote Distinguished Professor of Science and Environmental Policy. She is a visiting Fellow at the Gund Institute for Ecological Economics, spent 26 years on the faculty at the Massachusetts Institute of Technology, and has served on the faculties of several other universities, numerous federal and state commissions, National Academies panels, and boards of directors. She has published and lectured widely on coastal and ocean economics and management. Dr. Kildow received her Ph.D. in International Relations and Science Policy from the Fletcher School at Tufts University, and her undergraduate degree from Grinnell College.

**Vice Admiral Conrad C. Lautenbacher, Jr., USN (Ret.)** is the Undersecretary of Commerce for Oceans and Atmosphere, and the Administrator of NOAA. He spearheaded the First Earth Observation Summit, and subsequently encouraged world scientific and policy leaders to build a sustained Global Earth Observation System of Systems (GEOSS) that would collect and disseminate data, information, and models to stakeholders and decision makers from all nations, culminating in an agreement for a 10-year implementation plan at the Third Observation Summit in Brussels. He has led numerous delegations, including the U.S. delegation to the first and second Asia-Pacific Economic Cooperation Ocean Ministerial Meetings, the annual meetings of the World Meteorological Organization, Intergovernmental Oceanographic Commission, and the U.N. Framework Convention on Climate Change, as well as the Commerce delegation to the 2002 World Summit on Sustainable Development. Before joining NOAA, he formed his own management consultant business, and formerly served as president and CEO of the Consortium for Oceanographic Research and Education. His naval service was highlighted by tours as Commanding Officer of USS HEWITT, Commander Naval Station Norfolk, and as Commander US Naval Forces Central Command Riyadh during Operations Desert Shield and Desert Storm. As Commander US Third Fleet, he introduced joint training to the Pacific with the initiation of the first West Coast Joint Task Force Training Exercises, and culminated his active duty as Deputy Chief of Naval Operations. He graduated from the US Naval Academy, and holds an M.S. and a Ph.D. in applied mathematics from Harvard University.

## ~Speakers~

**Jo-Ann C. Leong, PhD** is Director of the Hawai'i Institute of Marine Biology, School of Ocean & Earth Science and Technology at the University of Hawai'i at Mānoa, and currently serves as President of the Board for the Center for Tropical and Subtropical Aquaculture. Her B.A. is from the University of California at Berkeley and she completed doctoral thesis work at the University of California School of Medicine in San Francisco on retroviruses and reverse transcriptase. She completed postdoctoral training in biochemistry at the Cancer Research Center at UCSF, prior to accepting a position as Assistant Professor in the Department of Microbiology at Oregon State University, where she became chair of the department, with the rank of Distinguished Professor and the Emile F. Pernot Endowed Professorship. She has spent her career studying an infectious hematopoietic necrosis virus in salmon, developing vaccines for salmon, and using molecular tools to understand the immune response in fish. She is now engaged in the study of the coral reef ecosystem and viruses of organisms in tropical marine environments.

**Mark E. Luther, PhD** is an Associate Professor and director of the Ocean Modeling and Prediction Lab in the University of South Florida College of Marine Science, where he co-directs the Coastal Ocean Monitoring and Prediction System. His research combines real-time ocean observations with numerical models of ocean currents and processes to evaluate their application to various problems ranging from water quality in estuaries to variability in large-scale ocean circulation and its relation to climate change. He also provides operation and maintenance support for the NOAA/NOS Tampa Bay Physical Oceanographic Real-Time System. His distinguished service includes: Chairman of the US Global Ocean Observing System Steering Committee, assisting the federal government with the Integrated Ocean Observing System; Chairman of the Marine Technology Society Florida Section; and Chairman of the Board of Directors of the Alliance for Coastal Technologies, a NOAA-funded partnership of research institutions, resource managers, and private sector companies dedicated to fostering the development and adoption of effective and reliable sensors and platforms. Dr. Luther received his doctoral degree in Physical Oceanography from the University of North Carolina at Chapel Hill in 1982.

**Christopher Mann** is a senior officer with the Environment Program of the Pew Charitable Trusts, where he focuses on aquaculture and the management of forage fisheries. Prior to joining Pew, he was executive director of the Marine Aquaculture Task Force, which brought together leaders in aquaculture, conservation, marine science and policy to recommend national standards for sustainable aquaculture in marine waters of the United States. Previously, Chris was Ocean and Coastal Policy Director for the Pew Oceans Commission, where he oversaw the Commission's work on ocean governance and coastal development, and has also directed legislative affairs on international environmental and economic issues at the State Department. Before moving to the State Department, he worked for the House of Representatives on marine resources conservation and management, first for the Committee on Merchant Marine and Fisheries and later for the Committee on Resources. Chris received a Bachelor of Science degree from the University of Illinois and attended the University of Rhode Island's Graduate School of Oceanography.

**Larry Mayer, PhD** conducts research dealing with sonar imaging and remote characterization of the seafloor as well as advanced applications of 3-D visualization to ocean mapping problems. He holds an Honors degree in Geology from the University of Rhode Island and a Ph.D. in Marine Geophysics from the Scripps Institution of Oceanography. His post-Doc at the School of Oceanography at the University of Rhode Island involved the early development of the Chirp Sonar and problems of deep-sea sediment transport and paleoceanography of the equatorial Pacific. He continued this work at Dalhousie University, and in 1991, took the NSERC Industrial Research Chair in Ocean Mapping at the University of New Brunswick. Founding director of the Center for Coastal and Ocean Mapping at the University of New Hampshire and the co-director of the NOAA/UNH Joint Hydrographic Center, he has been chief scientist of numerous expeditions including two legs of the Ocean Drilling Program. His awards and service include the Keen Medal for Marine Geology, an Honorary Doctorate from the University of Stockholm, President's Panel on Ocean Exploration, National Academy of Science Committee chairman on national coastal mapping and charting, co-chair of NOAA's Ocean Exploration Advisory Working Group, and the National Science Foundation's Advisory Committee for the Geosciences.



## ~Speakers~

**Kathy J. Metcalf** was a member of the first co-educational class at the U.S. Merchant Marine Academy, graduating in 1978 with highest honors and a Bachelor of Science degree in Marine Transportation and Nautical Sciences. She then sailed for five years as a deck officer on crude oil and product tankers with Gulf Oil Corporation and Sun Company, while also participating in a shipboard/shoreside management development program with both companies. From 1983 to 1990, Ms. Metcalf served in various shoreside positions for Sun Company's Marine Operations Department while simultaneously attending the Delaware Law School of Widener University, where she received a Juris Doctorate degree with high honors in 1988. In 1997, she accepted her current position as the Director of Maritime Affairs for the Chamber of Shipping of America, a maritime trade association representing US based commercial shipping interests in international, federal and state forums.

**Steven Murawski, PhD** is the Director of Scientific Programs and Chief Science Advisor for NOAA Fisheries Service, and also NOAA Ecosystem Goal Team Lead. He works to move forward ecosystem approaches to management, both at NOAA and in conjunction with other federal agencies and bodies. Prior to this appointment, he served as Director of the National Marine Fisheries Service Office of Science and Technology. His significant experience in applied fisheries biology and quantitative fisheries science began as Chief Stock Assessment Scientist for the Northeast Fisheries Science Center in Woods Hole, Massachusetts. He has published more than 150 reports and articles and is the official US delegate to the International Council for the Exploration of the Sea, a member of the the Global Ocean Ecosystems Dynamics Program Steering Committee, and Project Manager for NOAA Fisheries' Ecosystem Pilot Projects. His many distinguished awards include the David Belding Marine Conservation Award from the Massachusetts Division of Marine Fisheries. Dr. Murawski received his Ph.D. from the University of Massachusetts--Amherst in 1984.

**Elliott Norse, PhD** is President of Marine Conservation Biology Institute (MCBI), a science and conservation advocacy organization focusing on ecosystem-based management and advancing multidisciplinary research to protect, recover and sustainably use the sea. The author of more than 140 publications on marine conservation and biology, he began his career in policy work at the US Environmental Protection Agency, then at the President's Council on Environmental Quality (where he defined biological diversity as conservation's overarching goal), the Ecological Society of America, The Wilderness Society and The Ocean Conservancy before founding MCBI in 1996. Elliot Norse holds a B.S. with Honors in biology, geology, and music from Brooklyn College, and completed his Ph.D. studying the ecology of Caribbean blue crabs at the University of Southern California, and a Postdoctoral Fellowship at the University of Iowa. He is a Pew Fellow in Marine Conservation and recently won NOAA's Nancy Foster Award for Habitat Conservation.

**Kameron Onley** is Assistant Deputy Secretary at the Department of the Interior (DOI), the principal advisor to the Secretary and Deputy Secretary on environmental policy issues, including ocean, coastal, and coral reef matters, Everglades restoration, and the Papahānaumokuākea Marine National Monument. She currently serves as Chair of the South Florida Restoration Task Forces, Co-Chair of the U.S. Coral Reef Task Force, and the principal DOI member of the Interagency Committee on Ocean Science and Resource Management Integration. Ms. Onley previously served as the Associate Director for Environmental Policy at the White House Council on Environmental Quality, as the Associated Director for the Regulatory Studies Program at the Mercatus Center at George Mason University, Manager for Environmental Policy Issues, Philanthropy, for the Public Affairs division of Koch Industries and the Charles G. Koch Charitable Foundation, and as an Economic Research Assistant at the Texas Institute for Applied Environmental Research at Tarleton State University. A native of Seattle, Washington, she received her B.A. from Seattle University in Economics with a minor in Biology and a M.S. in Economics from Clemson University.

## ~Speakers~

**The Honorable Leon E. Panetta** is the Director of the Leon & Sylvia Panetta Institute for Public Policy, California State University at Monterey Bay. He also serves as Distinguished Scholar to the Chancellor of the California State University system, advising the Chancellor on national issues affecting higher education. He served as White House Chief of Staff for President Clinton from 1994-1997, and formerly served as the director of the Office of Management and Budget. Prior to this, he represented California's 16th (now 17th) District in the US House of Representatives, and authored the legislation that created the Monterey Bay National Marine Sanctuary. He also served a six-year term on the Board of Directors of the New York Stock Exchange. Prior to entering politics, Leon served as a First Lieutenant in the U.S. Army and received the Army Commendation Medal. He has served on the boards of numerous organizations, lectures nationally and internationally on the state of the economy, the federal budget, and other issues, and has received numerous commendations, including the Peter Burnett Award for Distinguished Public Service and the Distinguished Public Service Medal from the Center for the Study of the Presidency. He graduated, magna cum laude, from Santa Clara University, and received his J.D. from Santa Clara University Law School, where he was editor of the Law Review. He is a Trustee of the National Marine Sanctuary Foundation.

**Linwood Pendleton, PhD** is the Director of the Coastal Ocean Values Center at the Ocean Foundation, an Associate Professor in the School of Public Health at UCLA, and is the Lead Non-market Economist at the National Ocean Economics Program. Dr. Pendleton's work focuses on the economics of coastal use and restoration, and he is the author of numerous scholarly and applied articles. He has degrees in Biology (the College of William and Mary and Princeton University), a Masters of Public Administration from Harvard's Kennedy School of Government, and a Doctor of Forestry and Environmental Studies in Natural and Environmental Resource Economics from the School of Forestry and Environmental Studies at Yale University.

**Scott Rainey** is the Chairman of the Hydrographic Services Review Panel, the congressionally mandated federal advisory panel to NOAA. He has contributed to national maritime policy issues for more than a decade, actively participating in strategic policy issues related to NOAA's hydrographic services, serving as industry advisor on the US delegation to the IMO's Subcommittee on Navigation. A former Coast Guard officer and merchant mariner, Scott Rainey obtained his Juris Doctorate, and then served as counsel to the House Committee on Merchant Marines and Fisheries during the 103rd Congress. He has also represented the American Association of Port Authorities, and the America Pilots' Association, authoring the APA-NOS Partnership Agreement to Promote Safe Navigation. He recently established his own marine consulting firm, Rainey Harbor Group.

**James Sanchirico, PhD** is a natural resource economist, primarily focusing on the economic analysis of marine policies, especially the effects of individual transferable quotas and marine protected areas. His other research interests include spatial and intertemporal management of biological resources, the interface between land use and biodiversity conservation, and the economics of invasive species management. He is a member of the editorial council at the Journal of Environmental Economics and Management and a past associate editor of Marine Resource Economics. He is an Adjunct Professor in the Department of Economics at Georgetown University and he has served as consultant to international nongovernmental organizations. He is a member of the Association of Environmental and Resource Economists, and the American Agricultural Economics Association. The recipient of several awards, he holds a B.A. in economics and mathematics from Boston University, and a Ph.D. in agricultural and resource economics from the University of California at Davis.

**Paul A. Sandifer, PhD** is Senior Scientist for Coastal Ecology for NOAA's National Ocean Service, with primary responsibility for the NOAA Oceans and Human Health Initiative, operating out of Hollings Marine Laboratory in Charleston, SC. He spent 31 years with the South Carolina Department of Natural Resources, including six years as agency director. He has spent his career involved with marine and natural resource policy and management, and mission-oriented research in aquaculture and coastal ecology. The author of 135 publications on those topics, he is a member of the graduate faculties of the College of Charleston and the Medical University of South Carolina, and an adjunct faculty member at the University of South Carolina. He currently serves on the US National Committee for the Census of Marine Life, Advisory Boards for the Carolinas Coastal Ocean Observing System and the South Carolina Sea Grant Consortium, Co-Chair of the Interagency Working Group on Harmful Algal Blooms, Hypoxia, and Human Health, and on the Institute of Medicine's Roundtable on Environmental Health Science, Research, and Medicine. Dr. Sandifer received his BS in biology from the College of Charleston and Ph.D. in Marine Science from UVA.



## ~Speakers~

**Tom Skinner** focuses on coastal projects, state permitting and licensing, and transportation issues with Durand & Associates Environmental Strategies. From 1999-2004, Tom served as Director of the Massachusetts Office of Coastal Zone Management and Assistant Secretary for Coastal and Marine Resources, responsible for managing the Governor's Ocean Management Initiative, restructuring the state's wetlands restoration program, and reviewing waterfront development plans under the state's public tidelands law. Tom's prior experience was in land conservation, transportation, and education. He has worked in the Maine Governor's office, the US Environmental Protection Agency, the US House of Representatives, and an international consulting firm. Tom received his undergraduate degree from Bowdoin College, and his Master's degree from Brown University. He currently serves on the Executive Committee of the Gulf of Maine Observing System (GoMOOS), the Board of Directors of the Provincetown Center for Coastal Studies, and NOAA's Hydrographic Services Review Panel (HSRP).

**Brandon Southall, PhD** heads NOAA's Ocean Acoustics Program within the National Marine Fisheries Service, Office of Science and Technology, while maintaining a research affiliation conducting bioacoustics research on northern elephant seals through the University of California, Santa Cruz (Long Marine Laboratory). He began his career in marine biology at the New England Aquarium working on sea lion vocalizations, obtaining B.A. degrees in Environmental Biology and English from the University of Montana in 1994, and went on to conduct research on sea lion vocalizations and hearing at the Dolphin Research Center in Florida. Brandon conducted laboratory studies on hearing and the effects of noise on seals and sea lions, as well as field research on northern elephant seal acoustic communication at Dr. Ronald Schusterman's pinniped bioacoustics laboratory at UC Santa Cruz, obtaining his M.S. and Ph.D. from that school. He then joined NOAA's Ocean Acoustics Program Fisheries Acoustics program, where his work has included developing acoustic exposure criteria for marine mammals, fish, and sea turtles; organizing/chairing international symposia on shipping noise; chairing an inter-agency task force on sound and the marine environment; leading the development of a NOAA passive-acoustic network; directing NOAA's science and technology research funding on marine acoustics; and organizing an ongoing series of educational lectures across the nation on marine noise issues.

**Vikki Spruill** is president and CEO of the Ocean Conservancy, the only woman ever to hold that title. Prior to this appointment, she was president and founder of SeaWeb, a non-profit organization that uses strategic communications techniques to advance ocean conservation. She spent 15 years in public relations, including five years as a senior vice president at one of the largest independently held public relations firms in the world. Spruill is a member of the board of directors for Sky Truth and sits on the Aldo Leopold Leadership Program Steering Committee. She is currently a director of COMPASS, the Communications Partnership for Science and the Sea, and serves on the Advisory Committee for the Ocean Hall of the Smithsonian's Natural History Museum and the Conservation Committee of the SeaChange Investment Fund, and was recently appointed member of the Pew Fellows Advisory Committee. Spruill graduated cum laude from Loyola University in New Orleans with a Bachelor's degree in communications and a minor in religious studies. She received her Master's degree from the University of West Florida; also in communications.

**Senator Ted Stevens** is the senior member of Alaska's congressional delegation, the senior Republican in the U.S. Senate, and the longest-serving Senator in the history of the Republican Party. During World War II, he flew support missions for the Flying Tigers of the 14th Air Force, Army Air Corps. Stevens was awarded numerous medals for his service, including the Distinguished Flying Cross. After the war, Stevens completed degrees at UCLA and Harvard Law School. He practiced law in Alaska before moving to Washington, DC to work in President Eisenhower's administration. Stevens returned to Alaska and was elected to the Alaska House of Representatives in 1964, rising to House Majority Leader in his second term. He was appointed to the U.S. Senate in 1968; then, two years later, he was elected to finish his term, and has since been re-elected six times. He serves as the Senate's President Pro Tempore Emeritus; Vice Chairman of the Committee on Commerce, Science, and Transportation; Co-Chairman of the Defense Appropriations Subcommittee; and Ranking Member of the Disaster Recovery Homeland Security and Governmental Affairs Subcommittee.

## ~Speakers~

**Captain Carlos E. Tejada** is the Naval Attaché of the Embassy of Colombia in Washington, the principal naval advisor for the Ambassador, and the Defense Attaché in matters of the Colombian Navy. Born in Bogota, Colombia, he graduated with Honors from the Colombian Navy School in 1982. He holds a Master's Degree in Coastal Management from Cantabria University in Spain, and also has a degree in Hydrography from the US Naval Oceanographic Office, and a degree in Physical Oceanography from the Navy School. He completed a specialization in National Defense at the War College in 1999, receiving the degree of Staff Officer. During his career he has served on board oceanographic and hydrographic ships, as head of the Colombian Hydrographic Service, as Dean of the faculty of Oceanography at the Navy School, and most recently, as Deputy Director of the Colombian Maritime Authority. As a hydrographer, he has worked closely with the MesoAmerican-Caribbean Sea Hydrographic Commission. Captain Tejada was twice decorated with both the Navy Distinguished Service Medal and the Colombian Armed Forces Service Medal. He was named "Exemplar Colombian" by a national newspaper for his work on tsunamis, and coastal pollution of the Pacific Coast of Colombia.

**Peter L. Tyack, PhD** is a behavioral ecologist studying acoustic communication and social behavior in marine mammals, including extensive study in reproductive advertisement in baleen whales, individually distinct contact calls, and echolocation in deep diving toothed whales. He developed new methodology for marine mammal continuous behavior sampling, including sound-and-orientation recording tags, to study echolocation and communication and responses to anthropogenic sounds. Currently with Woods Hole Oceanographic Institution, Tyack graduated summa cum laude in Biology from Harvard College and received his PhD in Animal Behavior from Rockefeller University. He has authored more than 100 peer reviewed scientific publications, three reports published by National Academy Press, and edited two books on animal behavior. He has served on three National Research Council Committees on the effects of sound of marine mammals, and the US Federal Advisory Committee on Acoustic Impacts on Marine Mammals, and has testified before Congress on the issue.

**Eric Webster** was appointed by President Bush as the Director of Legislative Affairs for NOAA in 2005, and serves as the agency's chief legislative officer, with a specialization in weather satellite issues. Prior to joining NOAA, Eric Webster served as staff director of the House Subcommittee on Environment, Technology, and Standards, which has legislative jurisdiction and oversight responsibility for science at the EPA, surface transportation research at the DOT, and the DOC agencies of NOAA, NIST, the Technology Administration, and the National Technical Information Service. His early career encompassed positions as a legislative assistant and legislative director for House members on Capitol Hill. He holds a B.A. in European History from Hobart and William Smith Colleges in Geneva, New York, and an M.A. in European Studies from Washington University in St. Louis, Missouri, and graduated from the Senior Managers in Government Executive Program at The John F. Kennedy School of Government at Harvard University.

**Rear Admiral Richard D. West, USN (Ret.)** is the President and CEO of the Consortium for Oceanographic Research and Education (CORE), managing this association of nearly 100 of the country's leading oceanographic research institutions, universities, laboratory, and aquaria, whose mission is to develop and promote ocean research and education policies. Prior to his work with CORE, he served in the Department of the Navy, where he served as an Oceanographer and Navigator of the Navy, providing oceanographic, meteorological, geospatial information and navigation support to the Navy's global operations. He was designated the 'first' Navigator of the Navy, and led the Navy's transition from paper to electronic navigation, introducing the first 4-D Cube concept of precise positioning. His distinguished military career included commanding three ships and serving with the riverine forces during the Vietnam conflict. His shore specialty was weapon systems acquisition management, and he is a federally certified large program manager. He served as Program Manager and then Deputy Director of the Ballistic Missile Defense Organization. As Commanding Officer of the Navy's Surface Warfare Officers School in Newport, Rhode Island, he directed an advanced studies academic institution, which provided a continuum of professional education and training to prepare naval officers to serve at sea.



## ~Speakers~

**Kevin R. Wheeler** is the Director of External Affairs for the Consortium for Oceanographic Research and Education (CORE), where he plans and manages public policy activities, including relationships with Congress, the Executive Branch, federal agencies, and other organizations. He has previously served as the Director of Federal Affairs for Brown University, as Special Assistant to the Director of the National Institute of Environmental Health Sciences. As Congressional Detailee for the House Committee on Science, he reviewed legislation, developed policy, and advised the Chairman on environmental, health, and biomedical research issues. He was the Bipartisan Program Coordinator for the League of Conservation Voters, where he advocated the environmental community's legislative positions to Congressional Members and staff. He also served as Press Secretary and Legislative Assistant to Congressman Sherwood Boehlert. Kevin Wheeler holds two Master's degrees, receiving an M.A. in Environmental Management from Duke University, and an M.A. in Public Policy Analysis and Administration from SUNY Binghamton. He received his B.A. from SUNY Cortland, and has also completed additional coursework at Duke University in Biochemistry, Cell Biology, and Genetics.

**Patten D. (Pat) White** is a commercial fisherman and a commissioner on the Atlantic States Marine Fisheries Commission. He is the founder and president of the Gulf of Maine Lobster Foundation, an organization dedicated to developing cooperative research projects among fishermen, scientists, and other industry stakeholders in order to improve management decisions and to ensure healthy fisheries and sustainable resources. Pat also supports cooperative research and monitoring through his work on the advisory board of the Northeast Consortium. He is a former CEO of the Maine Lobstermen's Association and has served on numerous fisheries advisory groups at the state, regional, and national levels. From 2000-2003 Pat was a member of the Pew Oceans Commission and is now an active participant in the Joint Ocean Commission Initiative.

**Robert M. White, PhD** is a Director with the Washington Advisory Group, a consulting group that specializes in environment, energy, and climate change. He has been a central figure in environmental issues throughout his career, holding scientific leadership positions under five presidents. Appointed the first Administrator of NOAA by President Richard Nixon in 1970, he revolutionized the U.S. Weather Warning System through the use of satellite observations and computer technology. He has also served as the President of the National Academy of Engineering, President of the University Corporation for Atmospheric Research (UCAR), Chief of the Weather Bureau, U.S. Commissioner to the International Whaling Commission, and U.S. Permanent Representative to the World Meteorological Organization, and was the Karl T. Compton Lecturer at M.I.T. He is a Senior Fellow with UCAR and at the H. John Heinz III Center for Science, Economics, and the Environment. He has been bestowed many prestigious awards, including the Vannevar Bush Award, the Tyler Prize for Environmental Achievement, and the Charles A. Lindbergh Award. He is a member of the French Legion of Honor and the Academies of Engineering in Great Britain, Japan, and Australia. Dr. White conducted his undergraduate studies at Harvard University and received Master of Science and Doctoral degrees from Massachusetts Institute of Technology, and holds many honorary degrees.

**David Wiley, PhD** is the Research Coordinator for the Stellwagen Bank National Marine Sanctuary, and has been investigating the marine environment for over 20 years. He received his PhD in Environmental Studies from Antioch University with a focus on environmental decision-making and conservation biology. Dr. Wiley's research has ranged from studying the reproductive and foraging ecology of baleen whales, to mapping marine toxic/hazardous dumpsites. He has worked with fishermen to redesign fishing gear to reduce the risk of whale entanglement and pioneered methods to successfully rescue mass stranded whales and dolphins. Most recently, his research led to the shifting of shipping lanes into the port of Boston, Massachusetts, an international effort to reduce the risk of ship strike to endangered whales. Currently, he is leading a multi-organizational study of sound and noise in the Stellwagen Bank sanctuary. His results have appeared in numerous scientific journals such as *Animal Behavior*, *Fishery Bulletin*, *Marine Technology*, and *Marine Mammal Science*. He is the past recipient of a Switzer Environmental Leadership Award and a Gulf of Maine Visionary Award.

## National Marine Sanctuary Foundation

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The National Marine Sanctuary Foundation is the private, non-profit partner to the federally managed National Marine Sanctuary System; and was created to inspire all people to preserve, protect and promote our nationwide network of marine sanctuaries. These 14 marine protected areas encompass over 150,000 square miles of marine and Great Lakes waters stretching from the Florida Keys to the Hawaiian Islands, from Lake Huron to the Gulf of Mexico. Through public and private sector partnerships, the Foundation creates conservation-based research, education, and outreach programs designed to connect the public with these special ocean and coastal resources.





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