



2012 Public Policy Forum

DISCOVERY • UNDERSTANDING • ACTION

**THE SCIENCE OF OCEAN, COASTAL
AND GREAT LAKES RESTORATION**



March 7, 2012

Capitol Visitors Center SVC 210/212
8:30am-5:30pm

Welcome to the Consortium for Ocean Leadership's Public Policy Forum



I would like to welcome all of you to the Consortium for Ocean Leadership's 2012 Public Policy Forum. This year we will be focusing on the science of ocean, coastal and Great Lakes restoration. High quality data, extensive observations and the efforts of innovative researchers, practitioners and policymakers is essential for effective restoration projects. Science is therefore crucial to managing the successful restoration of our oceans, coasts and the Great Lakes – and to the progress of ocean policy at large. Many restoration efforts around the country have successfully redressed major challenges to local ecosystem health. Our challenge now lies in incorporating science into the restoration process to better inform future efforts. At today's Public Policy Forum, our speakers will discuss the scientific components of restoration, present examples of current restoration projects and provide an update on restoring the Gulf of Mexico after 2010's oil spill tragedy. I am hopeful that today's forum will foster a robust dialogue on the importance of science to support successful and comprehensive restoration planning around the country.

Ocean Leadership will post much of the valuable information that we discuss today on our website, www.oceanleadership.org. If you have any questions about the Public Policy Forum or the U.S. Capitol Visitor Center, please ask an Ocean Leadership staff member. I hope you find the Forum informative and interesting.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert B. Gagosian". The signature is fluid and cursive.

Robert B. Gagosian, Ph.D.
President & CEO
Consortium for Ocean Leadership



The Science of Ocean, Coastal, and Great Lakes Restoration **Public Policy Forum Agenda**

U.S. Capitol Visitor Center (Room 212/210) • Wednesday, March 7, 2012

8:30 *Breakfast*

8:40 Opening Remarks

Robert Gagosian – Consortium for Ocean Leadership

8:45 Congressional Speaker – Representative Castor, FL-11

9:00 Congressional Speaker – Representative Cassidy, LA- 6

9:15 Panel 1: The Role of Science in Restoration Planning

- Moderator: Nancy Rabalais – Louisiana Universities Marine Consortium
- Baseline: Steve Murawski – University of South Florida
- Assessments: Bob Haddad – NOAA's Office of Response and Restoration
- Monitoring: Bill Boicourt – University of Maryland
- Ecosystem services and role in economic recovery: Anne Guerry – Stanford University

10:45 *Break*

11:15 BOEM's Restoration Activities

Alan Thornhill – Bureau of Ocean Energy Management

11:45 Congressional Speaker – Senator Murkowski, AK

12:00 *Lunch*

1:15 Congressional Speaker – Senator Begich, AK

1:30 Panel 2: Lessons Learned and Challenges facing other National Restoration Efforts

- Moderator and Great Lakes Panelist: Marie Colton – NOAA’s Great Lakes Environmental Research Laboratory
- Chesapeake Bay: Rich Batiuk – EPA Chesapeake Program Office
- Puget Sound: Curtis Tanner – Puget Sound Nearshore Ecosystem Restoration Project
- Arctic: Fran Ulmer – Arctic Commission

2:45 *Break*

3:15 Update on the Gulf of Mexico Research Initiative

Margaret Leinen – Florida Atlantic University

3:45 Congressional Speaker – Senator Whitehouse, RI

4:00 Panel 3: The Future of Restoration: Gulf of Mexico Case Study

- Moderator: Don Boesch – University of Maryland Center for Environmental Science
- NRDA update: David Kennedy – NOAA’s National Ocean Service
- Executive Branch activities: John Hankinson – Gulf Coast Ecosystem Restoration Task Force
- Extramural Gulf restoration research: R. Eugene Turner – Louisiana State University
- Legislative update: Catherine Barrett – Senate Commerce, Science, and Transportation Committee

5:15 Robert Detrick – NOAA’s Office of Oceanic & Atmospheric Research Assistant Administrator

5:45 Closing Remarks

Robert Gagosian – Consortium for Ocean Leadership

6:00 Reception – Dirksen Senate Office Building, Room 50

Senator Lisa Murkowski (R-AK) 5
Senator Sheldon Whitehouse (D-RI) 6
Senator Mark Begich (D-AK) 7
Representative Bill Cassidy (R-LA 6th) 8
Representative Kathy Castor (D-FL 11th) 9
Dr. Alan Thornhill 10
Dr. Margaret Leinen 11
Dr. Robert Detrick 12
Dr. Nancy Rabalais 13
Dr. Steven Murawski. 14
Dr. Bob Haddad 15
Dr. Bill Boicourt 16
Dr. Anne Guerry 17
Dr. Marie Colton 18
Rich Batiuk 19
Curtis Tanner 20
Fran Ulmer. 21
Dr. Don Boesch 22
David M. Kennedy 23
John H. Hankinson, Jr. 24
Dr. R. Eugene Turner 25
Catherine Hazlewood Barrett 26

FEATURED SPEAKERS

Senator Lisa Murkowski (R-AK)



Senator Lisa Murkowski (R-AK) is a third-generation Alaskan who has served in the U.S. Senate since 2002. Murkowski is the Ranking Member on the Senate Committee on Energy and Natural Resources, and also serves on the Committee on Appropriations. Within the Committee on Appropriations, she is the Ranking Member of the Subcommittee on Interior, Environment and Related Agencies. Murkowski earned her B.A. in Economics from Georgetown University in 1980, and her J.D. from Willamette University in 1985. Prior to serving in the Senate, she practiced commercial law in Anchorage and served for four years in the Alaska State House of Representatives. While Murkowski is a strong supporter and sponsor of energy efficiency efforts and the development of alternative energy technologies, she also believes in developing the nation's traditional energy resources. She has introduced legislation to promote development of oil and natural gas in the coastal plain of the Arctic National Wildlife Refuge (ANWR) as well as America's outer continental shelf.

Senator Sheldon Whitehouse (D-RI)



Senator Sheldon Whitehouse (D-RI), a member of the Senate Environment and Public Works (EPW) and Budget Committees, and a sailor and diver, has been active in addressing global climate change and its threat to ocean and coastal ecosystems. He authored an amendment to support investments in America's oceans and coasts as part of the Senate's FY09 and FY10 budget resolutions, and fought successfully to make sure climate change legislation passed by the EPW committee in 2008 and 2009 included protections for coastal communities, wildlife, and land and marine ecosystems. Whitehouse, who traveled to Greenland in the summer of 2007 to see firsthand the effects of climate change on its massive ice cap, has worked closely with Rhode Island's environmental community to raise awareness of the potential impact of global warming on the Ocean State. In August 2008, he held an official field briefing of the EPW Committee at the University of Rhode Island's Bay Campus to examine global warming's impacts on Narragansett Bay, including sea level rise, warming waters and ocean acidification. Whitehouse has also been a champion for coastal and estuarine habitats, successfully fighting to reauthorize the Estuary Restoration Act (ERA) in 2007 and leading the effort to secure annual funding for Environmental Protection Agency's National Estuaries Program.

Senator Mark Begich (D-AK)



Senator Mark Begich (D-AK) was elected to the U.S. Senate in November 2008 after serving as the Mayor of Anchorage since April 2003. This is his third year representing Alaska in the U.S. Senate. Born and raised in Anchorage, Senator Begich's priorities include focusing on a national energy policy that includes Alaska's oil and gas resources, an Alaska natural gas pipeline and the many renewable resources in Alaska. He was recently named chairman of the Subcommittee on Oceans, Fisheries and the Coast Guard, under the Senate Committee on Science, Commerce and Transportation, which has broad jurisdiction over important Alaska issues. With Alaska at "ground-zero" of global climate change, he has introduced the Inuvikput Package, seven pieces of legislation designed to help Alaska and the nation adapt to new challenges and opportunities due to the diminishing polar ice pack. A businessman for more than 20 years, Senator Begich is bringing his business acumen to the work in the Senate. His extensive experience in public office, along with service to dozens of non-profits and community groups, all add to his know-how and ability to get things done.

Representative Bill Cassidy (R-LA 6th)



Representative Bill Cassidy is a lifelong public servant and physician. As an associate professor of medicine with Louisiana State University, he has provided care for uninsured patients and taught doctors in training at Earl K. Long Hospital in Baton Rouge for the last 20 years. In the wake of Hurricane Katrina, Cassidy led a group of health care volunteers to convert an abandoned Kmart building into an emergency health care facility, providing basic health care to hurricane evacuees.

In the U.S. House, Cassidy serves on the Energy & Commerce Committee and its subcommittees on Health, Commerce, Manufacturing and Trade; and Environment and the Economy. He also serves as an Assistant Whip for the House Republican Conference. His legislative focus is health care and energy. Before his election to serve Louisiana's Sixth District in the House of Representatives, Cassidy served in the Louisiana State Senate.

He received a B.A. from Louisiana State University and his M.D. from Louisiana State University Medical School. Representative Cassidy is married to Dr. Laura Cassidy, who is a retired general surgeon specializing in breast cancer, and they have three children.

Representative Kathy Castor (D-FL 11th)



Representative Kathy Castor is a third-term representative for Florida's 11th Congressional district, which includes parts of the Tampa Bay area along Florida's Gulf Coast. Castor is a member of the House Budget Committee and the Committee on Armed Services. Castor has introduced "H.R. 480, Gulf of Mexico Economic and Environmental Restoration Act of 2011" to provide for restoration of environment and economy of the Gulf Coast after the BP Deepwater Horizon disaster. She is also opposed to new drilling off of Florida's coast, as it can pose a threat to the economy, jobs and the environment of the state. Castor received her B.A. from Emory University and her J.D. from Florida State University College of Law. Prior to election to Congress, Castor served as a Hillsborough County Commissioner, and was chair of the Hillsborough County Environmental Protection Commission. She was named as the 2005 "Woman of the Year" in government by the Tampa Bay Business Journal.

Dr. Alan Thornhill

Chief Environmental Officer, Bureau of Ocean Energy Management



Dr. Alan Thornhill is the Chief Environmental Officer for the Bureau of Ocean Energy Management (BOEM), a position that was established in BOEM as part of the Interior Department's structural reform of offshore energy oversight and is designed to advance applied science in offshore energy and to ensure decision-making is based on sound research and information. In this position, he is responsible for directing BOEM's programs for studying the offshore environmental issues necessary to support responsible decision-making about resource development, managing the National Environmental Policy Act (NEPA) review process, and developing national priorities for scientific research relating to the oceans.

Dr. Thornhill joined BOEM in March 2010 to serve as science advisor to the director and was the leading author of the Department of the Interior's Scientific Integrity Policy. Previously, from 2001-2010, Dr. Thornhill was the first Executive Director of the Society for Conservation Biology, where he launched the executive office, oversaw the development of a professional staff, and initiated programs that saw the global membership triple in seven years.

Other experience includes, the Director of Learning and Communications for the Science Division at The Nature Conservancy, and Professor of Ecology and Evolutionary Biology at Rice University in Houston, Texas. For the past six years, Dr. Thornhill has taught in the Masters Program in the College of Natural Resources at Virginia Polytechnic Institute and State University. Dr. Thornhill earned his B.A. and Ph.D. degrees in Ecology from the University of California, Irvine.

Dr. Margaret Leinen

**Associate Provost of Florida Atlantic University and
Executive Director of Harbor Branch Oceanographic Institute**



Dr. Margaret Leinen is the Associate Provost of Florida Atlantic University and Executive Director of Harbor Branch Oceanographic Institute. She is also the Founder and President of the Climate Response Fund, a non-profit organization that works to foster discussion of climate engineering research to increase awareness and efficiency. Previously, she spent two years as the Chief

Science Officer of Climos, Inc. Prior to working in the non-profit and private sectors, Dr. Leinen served at the National Science Foundation (NSF) as Assistant Director for Geosciences and Coordinator of Environmental Research and Education. She provided executive leadership for one of the seven units of the NSF, oversaw a budget of \$700 million, led government-wide planning for climate research and co-led government planning for ocean research. Much of her work at the NSF involved identifying major new research infrastructure needs, advancing those needs and successfully defending \$1 billion in initiatives to the National Science Board for subsequent funding by Congress.

Dr. Leinen has also been in academic leadership positions at the University of Rhode Island, serving as Vice Provost for Marine and Environmental Programs and as Dean of the Graduate School of Oceanography. She received her Ph.D. in oceanography from the University of Rhode Island, her M.A. degree in geological oceanography from Oregon State University and her B.A. degree in geology from the University of Illinois.

Dr. Robert Detrick

Assistant Administrator, NOAA'S Office of Oceanic and Atmospheric Research



Dr. Robert Detrick, a marine geophysicist, is the new Assistant Administrator of the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR). Before coming to NOAA, Dr. Detrick had been director of the National Science Foundation's Division of Earth Sciences since November 2008, while on leave from Woods Hole Oceanographic Institution (WHOI). At WHOI, he was a senior scientist for more than 20 years and vice president for Marine Facilities and Operations.

Dr. Detrick's research focused on aspects of marine geology. He lists more than 100 scientific publications on the seismic structure of mid-ocean ridges and oceanic crust, properties of ridge crest magma chambers; and the nature of mantle flow beneath mid-ocean ridges. As a Fellow of the American Geophysical Union, Dr. Detrick received the A.G. Huntsman Medal in 1996. He was co-principal investigator for WHOI's ocean bottom seismic instrumentation laboratory.

Dr. Detrick has served on and chaired committees and panels for various international and national organizations including the RIDGE Steering Committee (chair from 1992-1995), the Joint Oceanographic Institutions for Deep Earth Sampling Executive Committee of the Ocean Drilling Program (chair from 1996-1998) and the NSF Geosciences Advisory Committee (chair 2004-2005). He was a member of the Board of Governors of Joint Oceanographic Institutions (JOI) (1995-2007) and chaired the JOI Board from 2002-2004. He is a past president of AGU's Tectonophysics Section and is chair of the International Continental Drilling Program Assembly of Governors.

Dr. Detrick holds a B.A. from Lehigh University, a M.A. from the University of California, San Diego, and a Ph.D. from the Massachusetts Institute of Technology/WHOI.

PANEL 1: THE ROLE OF SCIENCE IN RESTORATION PLANNING

Moderator: Dr. Nancy Rabalais

Executive Director of Louisiana Universities Marine Consortium



Dr. Nancy Rabalais is a Professor and Executive Director at the Louisiana Universities Marine Consortium in Cocodrie LA. Dr. Rabalais' research interests include the dynamics of hypoxic environments, interactions of large rivers with the coastal ocean, estuarine and coastal eutrophication, and science policy. Dr. Rabalais is currently serving as a Member of the National Research

Council (NRC) Committee on the Mississippi River and the Clean Water Act, the Committee on the Effects of the Deepwater Horizon Mississippi Canyon-252 Oil Spill on Ecosystem Services in the Gulf of Mexico, the Committee on the Evolution of the National Oceanographic Research Fleet and the Committee on the Review of Water and Environmental Research Systems (WATERS) Network. She is an elected member of the Board of Trustees for the Consortium on Ocean Leadership, the Council for the University National-Oceanographic Laboratory System, Chair of the National Sea Grant Advisory Board, President of the Southern Association of Marine Labs, Vice President of the National Association of Marine Labs, and Member of the Board of Directors for GCOOS the Gulf of Mexico Coastal Ocean Observing System. Dr. Rabalais received her Ph.D. in Zoology from The University of Texas at Austin in 1983.

PANELISTS (IN ORDER OF APPEARANCE)

Dr. Steven Murawski

Professor and Downtown-Peter Betzer Endowed Chair,
University of South Florida



Dr. Steven Murawski is a Population Dynamics/Marine Ecosystem Analysis Professor and the St. Petersburg Downtown - Peter Betzer Endowed Chair in Biological Oceanography at the University of South Florida's College of Marine Science. Dr. Murawski is currently engaged in research contributing to improved understanding of the impacts of human activities on the sustainability of ocean ecosystems. He serves as Director and Principal Investigator of the Center for Integrated Modeling and Analysis of Gulf Ecosystems (C-IMAGE), a consortium investigating the Gulf oil spill impacts. His current specific research includes understanding the prevalence of fish diseases in relation to the Deepwater Horizon spill, and work on new assessment techniques for Gulf reef fishes.

From 2005 to 2010, Dr. Murawski served as the Director of Scientific Programs and Chief Science Advisor for National Oceanic and Atmospheric Administration (NOAA) Fisheries Service. In addition to these duties, he was also the NOAA Ecosystem Goal Team Lead. As Goal Team Lead, he was responsible for out-year strategic planning and budget development for all of NOAA's ecosystem activities which amount to \$1.2 billion in 2008. Prior to this, he was the Director of the NOAA Fisheries Office of Science and Technology and served as Chief Stock Assessment Scientist for the Northeast Fisheries Science Center in Woods Hole, Massachusetts (1990-2004).

During his career, Dr. Murawski has been a key representative on several national and international committees and councils. He received his Ph.D. from the University of Massachusetts-Amherst in 1984.

Dr. Bob Haddad

Division Chief, NOAA's Office of Response and Restoration



Dr. Bob Haddad earned his Ph.D. in Chemical Oceanography at UNC, Chapel Hill with a focus on sedimentary organic geochemistry. Following post-doctoral fellowships at National Aeronautics and Space Administration (NASA) and at Stanford University, he joined Unocal's Petroleum Geochemistry Research Group and provided in-house company-wide consultation

on petroleum exploration and environmental liability issues. While at Unocal, Dr. Haddad also provided expert witness support in Forensic Geochemistry and technical leadership for Natural Resource Damage Assessment (NRDA) in Unocal's worldwide emergency response organization. After leaving Unocal, he was responsible for strategic and technical leadership on NRDA cases under the Oil Pollution Act (OPA) and Clean Water Act (CWA) as West Coast Regional Risk Manager for ENTRIX, Inc. and then as a Vice President for ARCADIS-JSA. Prior to joining NOAA, Dr. Haddad was President and Principal Scientist for Applied Geochemical Strategies, Inc. In this role, he provided strategic and technical liability consulting for clients (OPA, NRDA and non-NRDA issues) and expert witness testimony in various aspects of forensic geochemistry.

For the past five years, Dr. Haddad has been the Chief of the Assessment & Restoration Division within NOAA's Office of Response and Restoration (OR&R). In this position, he also co-leads NOAA's Damage Assessment Remediation & Restoration Program (DARRP). As part of his current responsibilities at NOAA, Dr. Haddad is leading NOAA's injury assessment efforts as part of the Natural Resource Damage Assessment currently being conducted for the Deepwater Horizon Oil Spill.

Dr. Bill Boicourt

Professor, University of Maryland Center for Environmental Sciences



Dr. Bill Boicourt is a professor at the University of Maryland Center for Environmental Sciences Horn Point Laboratories. His areas of research expertise include physical oceanographic processes, continental shelf and estuarine circulation. He received his B.A. Degree in Physics from Amherst College in 1966 and in 1968 he was a Summer Student Fellow at Woods Hole Oceanographic Institution (WHOI). He later earned a M.A degree in 1969 and a Ph.D. in 1973 in Physical Oceanography from Johns Hopkins University. Dr. Boicourt is author and co-author of numerous papers, articles and books that focus primarily on estuaries and the continental shelf. He is also the distinguished recipient of the Bostwick H. Ketchum Award, an endowed lectureship administered by the WHOI Coastal Research Center.

He is a member of the Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS) Board of Directors, and started the Chesapeake Bay Observing System (CBOS). CBOS makes data collected from instrumented buoys in the Bay available in real-time via the internet. Data and information from all of these remote sensing programs assist managers in gauging progress in improving water quality of the Bay and continental shelf. He has also been a member of other advisory boards, including the Environmental Protection Agency's Ocean Disposal Program Review Committee and the U.S. Congress' Task Committee on Chesapeake Bay.

Dr. Anne Guerry

Natural Capital Project, Lead Scientist



Dr. Anne Guerry is Lead Scientist for the Natural Capital Project (NatCap). NatCap aims to align economic forces with conservation and is a joint venture among Stanford University, The Nature Conservancy, World Wildlife Fund and the University of Minnesota. At NatCap, Dr. Guerry is overseeing the development and application of marine InVEST, a software tool for modeling, mapping

and valuing nature's benefits. She and her team are working closely with decision-makers on the ground and in the water to inform a wide array of management decisions (e.g. marine spatial planning, climate adaptation planning) on the West Coast of Vancouver Island, Canada; in Belize; and in a number of US locations (Monterey Bay, Galveston Bay, Puget Sound). Prior to joining NatCap, Dr. Guerry was a National Research Council post-doctoral research associate at the National Oceanographic and Atmospheric Administration (NOAA) Northwest Fisheries Science Center in Seattle. She received her Ph.D. in Zoology from Oregon State University, an M.S. in Wildlife Ecology from the University of Maine, and a B.A. in Environmental Studies and English from Yale University. She has a lifelong love of the sea and believes that making explicit connections between human activities and their impacts on the full suite of nature's benefits can inform management decisions and yield better outcomes for the environment and for society.

PANEL 2: LESSONS LEARNED AND CHALLENGES FACING OTHERNATIONAL RESTORATION EFFORTS

Moderator: Dr. Marie Colton

Director, NOAA's Great Lakes Environmental Research
Laboratory



Dr. Marie Colton is currently the Director of National Oceanographic and Atmospheric Administration's (NOAA) Office of Atmospheric Research's Great Lakes Environmental Research Laboratory (GLERL). In this capacity, she oversees and directs nearly 100 employees who conduct research in fresh water resources, ecosystems and modeling of the Great Lakes region from their Ann Arbor, MI location. GLERL also operates several large research vessels based in Muskegon, MI, which support long-term ecosystem observations of the Great Lakes and serve as platforms for new technologies.

In her career with the federal government, Dr. Colton has held a variety of positions serving multiple agencies, including NOAA's National Ocean Service and National Environmental Satellite, Data, and Information Service; the Navy at the Office of Naval Research and the Naval Research Laboratory; and National Aeronautics and Space Administration (NASA) at NASA headquarters, the Kennedy Space Center and the Goddard Space Flight Center.

A native of Illinois, Dr. Colton attended Northwestern University and received the B.A. and M.S. degrees in physical oceanography from Florida Institute of Technology, Melbourne. Dr. Colton received her Ph.D. degree in physical oceanography from the Naval Postgraduate School, Monterey, CA, completing a study in which she used tower-mounted radars in Lake Ontario to examine the influence of surface wave and atmospheric effects on remotely-sensed radar measurements of wind velocity.

PANELISTS (IN ORDER OF APPEARANCE)

Rich Batiuk

Associate Director of Science, EPA Chesapeake Program Office



Mr. Rich Batiuk is the Associate Director for Science at the U.S. Environmental Protection Agency's (EPA) Chesapeake Bay Program Office located in Annapolis, Maryland. In his 27 years with EPA and the Chesapeake Bay Program partnership, he has led the integration of science into multi-partner decision-making.

On a daily basis, Mr. Batiuk is responsible for providing basinwide monitoring network coordination; model simulation and analysis; information technology and data sharing; web-based and geographical communication; programmatic implementation effectiveness and efficiency evaluation; and watershed implementation plan programmatic and technical support to the Bay Program partners and stakeholders. This work is accomplished through multiple teams of very talented and extremely dedicated colleagues at the Bay Program Office.

He is now focused on helping lead efforts to use EPA's December 2010 publication of the watershed-wide Bay TMDL pollution diet to help state and local partners accelerate on-the-ground implementation of the nutrient and sediment reduction actions to restore local waterways and the Bay.

Mr. Batiuk received his B.S. in Environmental Science from the University of New Hampshire in 1984 and his M.S. in Environmental Toxicology from American University in Washington D.C. in 1985.

Curtis Tanner

Project Manager, Puget Sound Nearshore Ecosystem Restoration Project



Mr. Curtis Tanner is with the U.S. Fish and Wildlife Service Coastal Program in Olympia, Washington. He has spent over 20 years working on coastal habitat restoration and protection issues in Puget Sound. He is currently on assignment to the Washington Department of Fish and Wildlife, where he is serving as the Local Project Manager for the Puget Sound Nearshore

Ecosystem Restoration Project (PSNERP) General Investigation study. PSNERP is a partnership between federal, state, local and tribal governments, as well as non-governmental organizations, academia and others. PSNERP partners are working to deliver a comprehensive understanding of the nearshore ecosystem restoration and protection priorities for Puget Sound, and the capacity to deliver solutions to the region. Curtis has a B.S. in Aquatic Science from Cornell University, and a M.A. of Marine Affairs from the University of Washington.

Fran Ulmer

Chair of the U.S. Arctic Research Commission (USARC)



Ms. Fran Ulmer is chair of the U.S. Arctic Research Commission, where she has served since being appointed by President Obama in March 2011. In June 2010, President Obama appointed her to the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling. From 2007 to 2011, Ms. Ulmer was chancellor of Alaska's largest public university, the University of Alaska Anchorage (UAA). Before that, she was a Distinguished Visiting Professor of Public Policy and Director of the Institute of Social and Economic Research at UAA. She is currently serving as Resident Scholar on Arctic Research at the University of Alaska. She is a member of the Global Board of the Nature Conservancy and on the Board of the National Parks Conservation Association.

Ms. Ulmer served as an elected official for 18 years as the mayor of Juneau, a state representative and as Lieutenant Governor of Alaska. She previously worked as legal counsel to the Alaska Legislature, legislative assistant to Governor Jay Hammond and Director of Policy Development for the state. In addition, she was the first Chair of the Alaska Coastal Policy Council and served for more than 10 years on the North Pacific Anadromous Fish Commission. She has served on numerous local, state and federal advisory committees and boards. Ulmer earned a J.D. cum laude from the University of Wisconsin Law School, and has been a Fellow at the Institute of Politics at the Kennedy School of Government.

PANEL 3: THE FUTURE OF RESTORATION: GULF OF MEXICO CASE STUDY

Moderator: Dr. Don Boesch

President, University of Maryland Center for Environmental Science



Dr. Don Boesch is the current President of the University of Maryland Center for Environmental Science (CEES), where he is also a Professor of Marine Science and Vice Chancellor for Environmental Sustainability for the University System of Maryland. Dr. Boesch is also a member to the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling, appointed by President Obama. Additionally, he is the present Chair of the National Research Council's Ocean Studies Board.

Dr. Boesch is active in extending knowledge to environmental and resource management at regional, national and international level, and has served as a science advisor to many state and federal agencies and programs. He is internationally known as a marine ecologist who has conducted research in coastal and continental shelf environments along the Atlantic Coast, in the Gulf of Mexico, eastern Australia and the East China Sea. He has published two books and more than 50 papers on a variety of marine science and policy topics including oil pollution, estuaries and wetlands. Presently, his research focuses on the use of science in ecosystem management.

In 2010, Dr. Boesch received the Outdoors Maryland Award for Stewardship of the Environment from Maryland Public Television. A native of New Orleans, Dr. Boesch received his B.S. from Tulane University and Ph.D. from the College of William & Mary. In 1980, he became the first Executive Director of the Louisiana Universities Marine Consortium while a Professor at Louisiana State University.

PANELISTS (IN ORDER OF APPEARANCE)

David M. Kennedy

Assistant Administrator, NOAA's National Ocean Service



Mr. David M. Kennedy is the Assistant Administrator for National Oceanographic and Atmospheric Administration's (NOAA) National Ocean Service appointed by Undersecretary of Commerce and NOAA Administrator Dr. Jane Lubchenco. Previously, Mr. Kennedy served as the Director of NOAA's Office of Ocean and Coastal Resource Management (OCRM).

In this position, Mr. Kennedy directed a multi-disciplinary program to provide national leadership, strategic direction and guidance to state and territory coastal programs and estuarine research reserves. He oversaw efforts to develop a scientifically-based, comprehensive, national system of marine protected areas (MPAs) in conjunction with state and territory coastal resource managers.

Prior to OCRM, Mr. Kennedy served as Director of NOAA's Office of Response and Restoration, where he directed a multi-disciplinary program to reduce risks to coastal and marine resources from environmental threats. He has more than 20 years of experience leading hazardous materials management and response efforts, including coordinating federal scientific response to more than 100 oil and chemical spill incidents.

In October 2009, Mr. Kennedy's leadership, innovation and vision were recognized with a prestigious Presidential Rank Award. In November 2009, Mr. Kennedy was recognized in a group award for strong leadership and innovation leading to the completion of the environmental cleanup and historical preservation of the Pribilof Islands.

Mr. Kennedy was a U.S. delegate to the International Maritime Organization's Conference on Oil Pollution Preparation and Response chaired the Washington State Legislative Committee on Oil Spill Response, and was a member of the 1990 Program Committee of the National Oil Spill Conference. He founded the Islands Oil Spill Association, a non-profit oil spill response cooperative. He is a graduate of the University of Northern Colorado (1969).

John H. Hankinson, Jr.

Executive Director, Gulf Coast Ecosystem Restoration Task Force



Mr. John H. Hankinson, Jr. is the Executive Director of the Gulf Coast Ecosystem Restoration Task Force, a state/federal entity established by President Obama to pursue ecosystem restoration of the Gulf of Mexico. Offices for the task force are located in Washington, D.C. and Mississippi. As the Executive Director of the Gulf Coast Ecosystem Restoration Task Force, Hankinson, who reports directly to Environmental Protection Agency (EPA) Administrator Lisa P. Jackson, coordinates interagency efforts, oversees staff and outreach efforts in developing and implementing a science based regional ecosystem restoration strategy.

Mr. Hankinson is a Florida native trained in environmental law who has worked for 30 years on environmental issues in the private, public and non-profit sectors. He has brought together industry, government and stakeholder groups to form partnerships to restore ecosystems across the southeast. He has worked with the national estuary program offices in the Gulf of Mexico, and provided leadership in the restoration of the St. Johns River system and the Florida Everglades. He also directed development and implementation of a water quality protection plan for the Florida Keys National Marine, from Sanctuary. Mr. Hankinson also served as a Regional Administrator of EPA Region IV in Atlanta from 1994-2001; and prior to EPA, ten years as Director of Planning and Acquisition for the St. Johns River Water Management District in Palatka, FL.

Dr. R. Eugene Turner

Professor, Louisiana State University



Dr. R. Eugene Turner is a professor and Distinguished Research Master of Louisiana State University (LSU). His current research interests include: biological oceanography, conservation, environmental management, fisheries ecology and wetlands. Dr. Turner has published numerous books and scholarly articles and has been the recipient of a number of research grants, including studying the effects of the Macondo Oil Spill on coastal ecosystems, Northern Gulf of Mexico hypoxia, and the effects of stressors on coastal wetlands. Among his many accolades, Dr. Turner was awarded the Distinguished Faculty Award from LSU in 2010. Prior to this he was honored with the Environmental Science & Technology Top Paper Award in 2009, the Blasker Award for Environmental Science and Engineering, shared with N.N. Rabalais, in 1999, and the National Wetlands Award - Science Research in 1998. Dr. Turner received his B.A. in Zoology from Monmouth College, an M.S. from Drake University, and his Ph.D. from the University of Georgia.

Catherine Hazlewood Barrett

Oceans Counsel, Senate Committee on Commerce,
Science, and Transportation



Mrs. Catherine Hazlewood Barrett is the Oceans Counsel for the Majority Staff of the Senate Committee on Commerce, Science, and Transportation, chaired by John D. Rockefeller (D-WV). In her service, Mrs. Barrett is responsible for the Committee's portfolio relating to ocean policy and governance, coastal management, ecosystems and habitat, water quality, offshore development and impacts, weather and atmospheric issues and oversight of the National Oceanic and Atmospheric Administration. Prior to coming to the Hill, she served as Senior Policy Advisor at The Nature Conservancy, the largest environmental charitable organization in the world, and directed several legislative and regulatory campaigns. She has also worked at The Ocean Conservancy, the United Nations and the Commission on Environmental Law of the IUCN (World Conservation Union). Mrs. Barrett has previously been appointed to international, federal and state advisory bodies, and has served as a lecturer on ocean policy and law for the American Law Institute and the American Bar Association. She received her B.A. degree from the University of Wisconsin - Madison, and her J.D. from Pace University School of Law in New York, where she served as the Editor-in-Chief of the Environmental Law Review.

Consortium for Ocean Leadership Members

Alabama

Dauphin Island Sea Lab

Alaska

Alaska Ocean Observing System
North Pacific Research Board
University of Alaska Fairbanks

California

Aquarium of the Pacific
Bodega Marine Laboratory
Hubbs-SeaWorld Research Institute
Liquid Robotics, Inc.
L-3 MariPro, Inc.
Marine Advanced Technology
Education Center
Monterey Bay Aquarium
Research Institute
Moss Landing Marine Labs
Naval Postgraduate School
Romberg Tiburon Center for
Environmental Studies
Stanford University
Teledyne RD Instruments
University of California, San Diego
(Scripps)
University of California, Santa Cruz
University of California, Santa Barbara
University of Southern California

Colorado

Cooperative Institute for Research in
Environmental Sciences

Connecticut

Mystic Aquarium
University of Connecticut

Delaware

University of Delaware

Florida

Earth₂Ocean, Inc.
Florida Atlantic University
Florida State University
Harbor Branch Oceanographic Institution
International SeaKeepers Society
Nova Southeastern University
University of Florida
University of Miami
University of South Florida

Georgia

Savannah State University
Skidaway Institute of Oceanography

Hawaii

University of Hawaii

Illinois

John G. Shedd Aquarium

Louisiana

Louisiana Universities Marine Consortium
Louisiana State University

Maine

Bigelow Laboratory for Ocean Sciences
National Federation of Regional
Associations for Coastal and Ocean
Observing (NFRA)
University of Maine, Orono

Maryland

Johns Hopkins University
Lockheed Martin
Marine Technology Society
Mid-Atlantic Regional Association for
Coastal and Ocean Observing System
(MARACOOS)
National Aquarium in Baltimore
NOAA Fisheries Service
NOAA National Centers for Coastal
Ocean Science
NOAA National Sea Grant College
Program
UMD Center for Environmental Science

Massachusetts

Massachusetts Institute of Technology
New England Aquarium
University of Massachusetts, Dartmouth
University of Massachusetts, Lowell
Woods Hole Oceanographic Institution

Michigan

NOAA Great Lakes Environmental
Research Lab
University of Michigan

Mississippi

Mississippi State University
University of Mississippi
University of Southern Mississippi

Nebraska

University of Nebraska, Lincoln

New Hampshire

University of New Hampshire

New Jersey

Rutgers University

New York

Columbia University (LDEO)
Stony Brook University

North Carolina

Duke University
East Carolina University
North Carolina State University
University of North Carolina, Chapel Hill
University of North Carolina, Wilmington

Oregon

Oregon State University

Pennsylvania

Pennsylvania State University

Rhode Island

University of Rhode Island

South Carolina

Grice Marine Laboratory
Medical University of South Carolina
South Carolina Sea Grant
South Carolina Dept. of Natural
Resources
University of South Carolina

Texas

Fugro
Harte Research Institute
Sonardyne, Inc.
Texas A&M University
University of Texas, Austin

Virginia

CARIS, USA
CNA
College of William and Mary (VIMS)
Institute for Global Environmental
Strategies
Noblis, Inc.
Old Dominion University
Research Centers of the USGS
SAIC
U.S. Arctic Research Commission

Washington

Sea-Bird Scientific
University of Washington

Washington, DC

Battelle
SURA

Wisconsin

University of Wisconsin-Milwaukee
Great Lakes WATER Institute

Australia

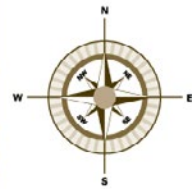
Institute for Marine and Antarctic Studies
at the University of Tasmania

Bermuda

Bermuda Institute of Ocean Sciences

Canada

Dalhousie University
University of Victoria



Reception – 6:00 to 8:00

Public Policy Forum

Areas of Interest

- 1 Russell Senate Office Building
- 2 Dirksen Senate Office Building
- 3 Hart Senate Office Building
- 4 U.S. Supreme Court
- 5 Jefferson Building, Library of Congress
- 6 Madison Building, Library of Congress
- 7 Cannon House Office Building
- 8 Longworth House Office Building
- 9 Rayburn House Office Building
- 10 Ford House Office Building
- 11 U.S. Botanic Garden & the National Garden



1201 New York Avenue, NW, 4th Floor
Washington, DC 20005

P. 202.232.3900 • F. 202.332.8887

www.OceanLeadership.org