Ryan Albert  
**Environmental Scientist, Water Permits Division, U.S. Environmental Protection Agency**

Ryan Albert is an Environmental Scientist in the U.S. Environmental Protection Agency’s Water Permits Division. He is the technical lead for EPA’s NPDES vessels program, including the Vessel General Permit. In addition to being one of the prime authors on both the 2008 and 2013 vessel permits and supporting documentation, Ryan has led several other large scale policy development and technical efforts at EPA, including EPA’s Vessels Report to Congress, the proposed Small Vessel General Permit, successful Endangered Species Act consultations, and numerous other technical supporting documents. His other experience includes stormwater analyses and permitting, calculating total maximum daily loads, and analyses related to the regulation of water transfers. Ryan received his bachelor’s degree from Emory University in Atlanta, Georgia and Ph.D. from George Mason University in Fairfax, Virginia.

Holly Bamford  
**Assistant Administrator for Ocean Services and Coastal Zone Management; Director, National Ocean Service, U.S. NOAA**

Dr. Bamford is the National Oceanic and Atmospheric Administration’s (NOAA) Assistant Administrator for the National Ocean Service (NOS), providing leadership and strategic direction for NOS, which serves as the primary federal agency providing science-based solutions to address evolving economic, environmental, and social pressures on our oceans and coasts. Before becoming the Assistant Administrator for NOS, Dr. Bamford served as the agency’s Deputy Assistant Administrator (DAA). In this position, her many responsibilities recently included that of NOAA Incident Coordinator during the aftermath of Hurricane Sandy where she executed emergency response efforts including navigation surveys of the New York port area to quickly restore the region’s maritime commerce. Previously as the first Director of NOAA’s Marine Debris Program in 2005, Dr. Bamford brought national recognition to issues related to marine debris and to the program.

Dr. Bamford has a number of widely referenced publications in the field of environmental chemistry and water quality, including papers in Environmental Science & Technology, and Environmental Toxicology & Chemistry. She has received a number of awards for her exceptional leadership and partnership skills including a NOAA Bronze Medal and two Coastal America Presidential Partnership Awards.

Dr. Bamford has served on a number of science and advisory committees, including Chairperson on the Federal Interagency Marine Debris Coordinating Committee, and at the 2007 Ocean Policy Forum in South Korea. She has presented at a number of international meetings and academic institutions, and given interviews to national media outlets including CNN, Rolling Stone Magazine, and The Wall Street Journal.

Allen Barbieri  
**CEO, Biosynthetic Technologies**

Allen is the Chairman and CEO of BIOSYNTHETIC TECHNOLOGIES (BT). Prior to BT, Allen was the CEO of a medical products company headquartered in San Diego, with manufacturing operations in Mexico. Prior to this, Allen was the President and CFO at BUY.COM, where he managed the financial and day to day operations, managed the selection of investment bankers, the creation of the S-1, and the implementation of policies and procedures necessary for the company’s IPO. While Allen was at BUY.COM, the company received over $200 million in venture funding. Prior to this, Allen was the CEO of PACIFIC NATIONAL BANK (PNB), one of the top 3% performing national banks in 1997 and 1998. Allen sold PNB in 1999 to USBank. While at PNB, Allen co-founded and served as CEO of ALTA Residential Mortgage Trust, an “A” quality mortgage REIT. ALTA was funded by Lehman Brothers’ proprietary private equity Group. This company was eventually sold to Washington Mutual, a national banking institution. Before this, Allen served as president of CAPITAL BANCORP, which he sold to BancOne, and before that as CFO of FIRST FEDERAL BANK, where he managed the merger and consolidation of four separate banking organizations. Allen began his professional career as an Investment Banker with MERRILL LYNCH in New York.

Allen holds an MBA degree from the Sloan School of Management, at M.I.T., and a B/S degree from Brigham Young University.
Aaron Becker  
**Lead Author, “Climate Change Impacts on International Seaports”, Stanford University**

Austin is a social scientist in Stanford University’s “Emmet Interdisciplinary Program in Environment and Resources” working across the disciplines of policy, engineering, and climate-change science. Austin’s research contributes to untangling complex problems involving uncertainty, large-scale shifts in climate over long time horizons, and the resulting challenges in policy and planning. He focuses on the consequences of disasters for the stakeholders that depend upon the long-term functioning of critical infrastructure like seaports. His work is recognized globally and he has been an invited speaker at expert meetings of the United Nations Conference on Trade and Development (UNCTAD), the United Nations Economic Commission for Europe (UNECE), and the Joint Research Center of the European Commission, as well as numerous conferences in the United States. He also serves as a contributing author to the National Climate Assessment and the American Society of Civil Engineers manual on sea level rise considerations for marine civil works.

Before coming to Stanford, Austin worked for Rhode Island Seagrant and the University of Rhode Island’s Coastal Resources Center on policy for planning waterfronts and ports, marine-based tourism, and coastal-environmental concerns. Austin earned a Master of Marine Affairs and a Master of Environmental Science and Management at the University of Rhode Island and holds a B.A. from Hampshire College. His previous career was as a captain of educational sailing ships and he maintains a 500-Ton U.S. Coast Guard captain’s license for ocean-going vessels.

John Bickham  
**Principal Scientist, Battelle Memorial Institute [WOC]**

John W. Bickham is Principal Scientist, Environment, at the Houston Office of Battelle Memorial Institute. He received a B.S. and M.S. in Biology from the University of Dayton, and a Ph.D. in Zoology from Texas Tech University. Prior to coming to Battelle in 2012 he was Professor of Wildlife and Fisheries Sciences at Texas A&M University from 1976 to 2006 and Director of the Center for the Environment and Professor of Forestry and Natural Resources at Purdue University from 2006 to 2012. Bickham has published over 220 papers in peer-reviewed scientific journals on topics including the genetics, evolution, biodiversity and conservation of marine mammals including Steller’s sea lions and bowhead whales; molecular systematics of bats; and genetic stock structure and evolution of coregonid and salmonid fish. In studies at contaminated sites in Alaska, Azerbaijan, DOE facilities, and Superfund Sites, Dr. Bickham uses a combination of genetic and molecular analyses to elucidate the processes by which genotoxic effects are transmitted through individuals, populations and species. Dr. Bickham is co-author of the book Bats of Jamaica and co-editor of the book Molecular Approaches in Natural Resource Conservation and Management. He serves on the Editorial Board of the journal Ecotoxicology, is past president of the Texas Society of Mammalogists and the Southwestern Association of Naturalists, and since 2003 has served as a member of the U.S. delegation to the Scientific Committee of the International Whaling Commission. Among his recognitions is included Bickham’s little yellow bat (Rhogeessa bickhami), a species named in his honor.

Joe Bouchard, (Ret.)  
**Former Commander, Norfolk Naval Station**

Dr. Bouchard is Director of Government Sales at Cox Communications. In 2008 Dr. Bouchard served on the Governor’s Commission on Climate Change and chaired its Adaptation Working Group. He speaks frequently on adapting to sea level rise and the national security implications of climate change, and has supported local and regional adaptation planning efforts in Virginia. Dr. Bouchard retired from the US Navy in 2003 as a Captain after 27 years active duty service. He graduated from the U.S. Naval Academy, earned a Master of Arts degree from the Naval Postgraduate School and a Doctor of Philosophy from Stanford University. While on active duty he commanded a Navy destroyer and Naval Station Norfolk. He was a specialist in strategic and operational planning, homeland security and port security. His assignments included Branch Head, Strategy and Concepts Branch, Office of the Chief of Naval Operations; Deputy Senior Director for Defense Policy and Arms Control, National Security Council, The White House; and Deputy Director, Navy Operations Group (Deep Blue), which was responsible for planning the Navy’s role in the war on terror. Dr. Bouchard chairs the Hampton Roads Partnership’s Innovation Task Force, which promotes technology-based economic development. He serves on the Secure Commonwealth Panel, which advises the governor on homeland security and emergency preparedness; the Boards of the Virginia Maritime Association, Hampton Roads Military and Federal Facilities Alliance and the Tidewater Community College Educational Foundation; and on the Advisory Committee for the Maritime Institute at Old Dominion University.
Henri Boulet  
Executive Director, LA 1 Coalition

Henri Boulet is Executive Director of the Louisiana Highway 1 (LA 1) Coalition. The LA 1 Coalition organizes efforts within the local, state, and federal governments as well as the business community of Lafourche Parish to secure access to America’s busiest intermodal energy port, Fourchon, Louisiana. It partners with the State of Louisiana in project planning, environmental studies and economic analysis to forward the securing of the storm-vulnerable coastal highway. LA 1 is the nation’s sole congressionally-designated HIGH PRIORITY CORRIDOR for its role as “critical energy infrastructure,” servicing over 90% of all deep-water drilling operations in the U.S. Gulf of Mexico. $373 million in project funding to date has funded half of the needed 19 mile elevated highway which runs through wetlands south of the last levee-protected communities to Port Fourchon. The Coalition partnered with NOAA to document the vulnerability of the road to future tidal inundation brought on by continued subsidence and sea level rise. Utilizing this data, the Coalition partnered with the University of Louisiana’s NIMSAT Institute and the United States Department of Homeland Security’s NISAC Laboratory in a consequence analysis to project cascading economic impacts the nation would suffer with a loss of existing, unimproved LA 1. The DHS Consequence Analysis estimates upwards of $7.8 billion in loss GDP should the remaining section of at-grade LA 1 be washed out. The studies have been essential in educating policy makers on the degree of vulnerability which the nation’s poster child for critical, at-risk energy infrastructure faces.

Kelly Burks-Copes  
Environmental Laboratory, US Army Engineer Research and Development Center

Ms. Burks-Copes is a Research Ecologist in the US Army Engineer Research and Development Center’s Environmental Lab located in Vicksburg, MS. Over the course of her 18-year career, she has focused primarily on the development of tools to assess the restoration of habitats, communities and landscapes nationwide. She is the Project Manager for a ground-breaking study addressing risks to coastal military installations in the face of sea level rise and storm impacts that she will present today, but she is also involved in a second climate change study focused on the impacts of permafrost melt in interior Alaska, and is currently working on more than 5 large-river studies across the US focused on characterizing ecosystem response to management and goods and services returns on investments for dredging and operations. She earned a BS from the University of New Mexico in 1991, an MS from NM State University in 1993, and is currently pursuing a PhD from the Univ. of Florida (in her spare time!).

Steve Carmel  
Senior Vice President, Maersk Line Limited [WOC]

Stephen M. Carmel is Senior Vice President, Maritime Services at Maersk Line, Limited (MLL), responsible for all technical and operating activities.

He previously held positions in operations and finance for U.S. Marine Management, Inc. and Maersk Line, Limited. Steve began his career sailing as a deck officer and Master primarily on tankers. Mr. Carmel graduated from the U.S. Merchant Marine Academy in 1979. He also holds an M.A. in Economics and a M.B.A. from Old Dominion University. Steve is currently a PhD Candidate in International Studies with an emphasis in International Political Economy and second emphasis in Conflict. He is a Certified Management Accountant (CMA) and is certified in Financial Management (CFM). Steve’s research and publishing interests are in maritime security, trade and conflict, and arctic regional issues.

Mr. Carmel is a member of the Chief of Naval Operations Executive Panel (N00k), a 2009 Senior Fellow at the Homeland Security Policy Institute at The George Washington University, on the Board of Trustees of the Old Dominion University Research Foundation, a member of the Marine Board of the National Research Council and a member of the Hydrographic Services Review Panel for NOAA. He is also a member of the CSR Science and Education Advisory Committee at Stevens Institute, the North American Committee for Det Norske Veritas, the North American Committee, American Bureau of Shipping, on the Board of Directors of the Virginia Maritime Association and the Advisory Council of the International Maritime, Ports and Logistics Management Institute, at Old Dominion University.

Mr. Carmel is also a member of various industry and academic associations including the Transportation Research Board of the National Academies, World Affairs Council of Hampton Roads, and the American Economic Association. Steve, his wife, Alison, and son, John live in Norfolk, Virginia.
Joel Clement  
**Director, Office of Policy Analysis, U.S. Department of Interior**

Joel Clement is the Director of the US Department of the Interior's Office of Policy Analysis, which provides economic, scientific, and program analysis to support and promote effective decision-making and policies across the Department. Mr. Clement has a background in conservation science and environmental policy and serves as the United States co-Head of Delegation to the Arctic Council's Ecosystem-Based Management Expert Group, U.S. Government representative to the Arctic Council's Arctic Resilience Report, and Interior's Principal to the U.S. Global Change Research Program. In 2012 he was appointed by the DOI Deputy Secretary to co-direct a federal interagency initiative to develop an Arctic management framework that more effectively integrates cultural, ecological, and economic objectives in the face of rapid climate change.

David Condino  
**MARPOL Compliance Programs, Facility Safety Branch, U.S. Coast Guard**

CAPTAIN DAVID A. CONDINO, USMM, CIV, Maritime Transportation Specialist, works on regulatory, policy and program matters relating to marine environmental protection and facility safety for the USCG. From 2007 to 2009 he chaired IMO's FSI Subcommittee correspondence group on port reception facilities, and since 2009 he has chaired the ISO work group (ISO/TC8/SC2/WG4) on developing international standards on management of wastes from ships and protection of the marine environment. As Deputy Safety Branch Chief, CG-FAC-2, at USCG HQ, Captain Condino provides subject matter expertise on a wide range of environmental protection, marine safety and security issues relating to ports and facilities, including marine transfer facilities for oil, chemical, containerized, and bulk cargos. He currently serves as a member of the US delegation to the Arctic Council’s subcommittee on the Protection of the Arctic Marine Environment. He has represented the Coast Guard on numerous interagency committees and served as a panelist on the National Research Council’s Ocean Studies Board on the Effectiveness of International and National Measures to reduce and prevent marine pollution from ships.

Captain Condino has authored and assisted in the publication of numerous papers, briefing documents, congressional reports and has been an invited speaker, panelist and presenter at international forums on maritime safety, marine pollution prevention, and national and international regulatory policy. His work has supported successful efforts to bring enhanced pollution prevention measures into effect around the world. When not on travel, he divides his time between Washington DC and his seaside home in New England.

Paul Cooper  
**Vice President, Caris USA [WOC]**

Ben Davies  
**Manager, Materials Stewardship, International Council on Mining and Metals**

Ben Davies has worked with ICMM since 2004 and has a background in physical science having obtained his PhD for research in metallurgy and materials science. The International Council on Mining and Metals (ICMM) was founded in 2001 to improve sustainable development performance in the mining and metals industry. Today, it brings together 22 mining and metals companies as well as 34 national and regional mining associations and global commodity associations to address core sustainable development challenges. Working within ICMM’s Materials Stewardship work program, Ben’s primary responsibilities are in the fields of chemicals management and sustainable consumption and production. This work seeks to address the issue of the ‘sustainability footprint’ of materials throughout the supply chain. The aim is to foster efficient industry practice, responsible application of materials and external regulation that is based on sound science.

Ben is actively involved within the industry developing guidance to ensure that companies have the necessary resources to meet their commitments as ICMM members. It also requires engagement in the international policy arena where Ben regularly represents the sector at the United Nations and OECD as well as with national governments, IGOs and NGOs.

Steve Emmett-Mattox  
**Senior Director, Strategic Planning and Programs, Restore America's Estuaries**

Steve Emmett-Mattox is Senior Director for Strategic Planning and Programs with Restore America’s Estuaries, where he has led the development of new programs since 2000. He currently leads the U.S. coastal blue carbon initiative, developing tools, policies, and projects around the greenhouse gas benefits of coastal restoration and conservation. He has more than twenty years of experience in environmental protection and conservation, leading program efforts for the Environmental Law Institute, the Institute for Conservation Leadership, and Rails-to-Trails Conservancy.
John Englander
Author, "High Tide on Main Street: Rising Sea Level and the Coming Coastal Crisis"

John Englander is an oceanographer and global ocean explorer with personal experiences in Greenland and Antarctica, and as expedition leader diving under the polar ice cap. High Tide On Main Street: Rising Sea Level and the Coming Coastal Crisis, his new book, has received wide praise as an easily understood, yet revolutionary perspective about long term sea level rise. As President of the Sea Level Institute, he works with private and public sector to understand how severe storms and SLR will pose increasing challenges throughout this century. He advocates “Intelligent Adaptation” for a better ROI.
For over 30 years, Englander has been a leader in both the private and non-profit arenas, serving as CEO for such noteworthy organizations as The Cousteau Society and The International SeaKeepers Society. He is a Fellow of the Institute of Marine, Engineering, Science and Technology, and The Explorers Club and a member of the American Geophysical Union and other scientific societies.

Richard Everett
Environmental Protection Specialist, Environmental Standards Division, U.S. Coast Guard

Rich Everett is an Environmental Protection Specialist in the US Coast Guard’s Environmental Standards Division at Coast Guard headquarters in Washington, DC. He provides scientific and technical assistance in developing regulations and policy on prevention of ship-mediated biological invasions, coordinates the USCG’s research activities on the prevention of biological invasions via the operations of ships, and is technical advisor regarding biological invasions, ballast water management, and biofouling management on the U.S. delegation to the International Maritime Organization. Rich holds a BA in Biology from the University of California, Santa Cruz, and a Ph. D. in Zoology from the University of California, Berkeley. Prior to taking his current position with the Coast Guard in 1999, he held post-doctoral positions at the Smithsonian Environmental Research Center and the Oregon Institute of Marine Biology, and was a Senior Staff Biologist with the U. S. Fish and Wildlife Service.

John Farrell
Executive Director of the U.S. Arctic Research Commission

Dr. John Farrell is the Executive Director of the U.S. Arctic Research Commission, an independent federal agency of Presidential appointees that advises the White House and Congress on Arctic research matters and works with executive branch agencies to establish and execute a national Arctic research plan. The Commission also facilitates cooperation with local and state governments and recommends means for developing international scientific cooperation in the Arctic.

Farrell previously served as the Associate Dean of Research and Administration at the Graduate School of Oceanography at the University of Rhode Island. Before that, he was Director of the international Ocean Drilling Program that involved over 20 nations and had an annual budget of approximately $65M/yr. The program was dedicated to advancing scientific understanding of the Earth.

Farrell helped organized and conduct the first successful international scientific ocean drilling expedition to the high Arctic in 2004. He also participated in a US ocean mapping effort aboard the icebreaker US Coast Guard Cutter Healy in 2012.

He obtained a Ph.D. and Sc.M. in geological sciences from Brown University, and a B.A. in geology from Franklin and Marshall College. He was a NSF-funded Post-Doctoral Fellow at Brown University and an NSERC-funded Senior Research Associate at the University of British Columbia, in Vancouver, Canada.

Jose Maria Figueres
Former President, Costa Rica; Global Ocean Commissioner, Global Ocean Commission

José María Figueres was President of Costa Rica from 1994 to 1998, under a one-term constitutional mandate. Since leaving government, Mr Figueres has served on numerous other boards. He was chairman of LEAD (Leadership for Environment and Development) as well as the small business agency FUNDES Internacional. In 2000, he was appointed Managing Director of the World Economic Forum, and served as the organisation’s first Chief Executive between 2003 and 2004. He has also been a Director of the World Resources Institute (WRI), the Stockholm Environment Institute and WWF. Since 2010 he has been President of the Carbon War Room.
From 2009 until 2011, when its mandate was completed, Mr. Figueres served on UN Secretary General Ban Ki-moon’s Advisory Group on Climate Change and Energy.
Mr Figueres graduated in engineering from the United States Military Academy (West Point). He also holds a master’s degree in public administration from Harvard University.
Ginger Garte
Environmental Business Development Manager, Lloyd's Register North America [WOC]

Ginger has been active in the marine industry for over 19 years. She obtained her Geology degree from Virginia Polytechnic Institute and in 1994 was selected to serve as a U.S. Commissioned Officer with the National Oceanic & Atmospheric Administration (NOAA). Upon completion of Officer Training School, Ginger served for five years onboard NOAA’s research vessels and at shore side laboratories. She worked as superintendent for seven years at Carnival Cruise Line's in the Environmental Health and Safety Department and as the senior analyst for five years at Royal Caribbean Cruises Limited, within the Environmental Stewardship Department. Now at Lloyd’s Register, North America, Inc., Ginger is primarily responsible for meeting clients’ environmental needs throughout the industry.

Jason Gedamke
Director, Ocean Acoustics Program, National Marine Fisheries Service, U.S. NOAA

Jason Gedamke obtained his PhD in 2004 from the Ocean Sciences Program at the University of California-Santa Cruz. His dissertation research focused on on minke whale acoustic behavior and remote acoustic tracking of singer movements on the Great Barrier Reef. After completing his degree, Jason began working for the Australian Antarctic Division based in Hobart, Tasmania. His position there centered on providing scientific advice for Australia’s policy positions at the International Whaling Commission; conducting acoustic research on cetaceans in the Southern Ocean; and providing scientific advice regarding the potential impact of man-made sound on marine mammals. Currently, Jason manages the Ocean Acoustics Program within the National Marine Fisheries Service-Office of Science and Technology at NOAA Headquarters in Silver Spring, MD. The Ocean Acoustics Program supports and conducts research examining the potential impacts of anthropogenic sound on marine animals. The primary goals are to increase understanding of: animals’ use of sound, how underwater acoustics can be used to assess marine animal populations, the degree to which anthropogenic activities are changing the underwater soundscape, how these changes may potentially impact marine animals, and what measures can be taken to mitigate these potential impacts. The Ocean Acoustics Program funds research directly, leverages research funds with other government agencies and industry, conducts primary research utilizing passive acoustics, provides technical support and advice to regulators, encourages education and capacity building in marine acoustics, and coordinates on intra- and inter-governmental bodies and panels to address and highlight underwater noise issues.

Roger Gentry
Special Advisor, Sound and Marine Life, Oil and Gas Producers Association

Dr. Gentry completed a Master’s degree in marine mammal acoustics in 1966, and a Ph. D. in animal behavior at the University of California, Santa Cruz in 1970. From then until 1998 he conducted field research on whales, penguins, seals and sea lions, mostly at the National Marine Mammal Laboratory in Seattle. In these years he helped pioneer Time-Depth recorders, published papers and books on fur seals, and convened an international symposium on fur seal biology. From 1995 through 2005 he created an acoustics program for NOAA in Silver Spring, Maryland that advised regulators on marine acoustic issues including ATOC, low- and mid-frequency sonar, seismic air guns, and explosions. There he convened expert panels to write noise exposure criteria for marine mammals (published as Southall et al., 2007) and for fish and turtles (being written). He led workshops on acoustic resonance, rectified diffusion, shipping noise, and monitoring underwater ambient noise. He has also worked on acoustics from legal (Department of Justice) and treaty (Department of State) standpoints. From 2006 to 2009 he was Program Manager for the Joint Industry Program (JIP), a London-based consortium of oil companies funding research on the effects of industry noise on marine life. Since 2009 he has been special advisor to the JIP, coordinating its panel of outside advisors, liaising with regulators and funding partners, and informing the JIP of recent scientific findings that may affect their future funding decisions.

Robert Griffiths
Director of Technical and Regulatory Affairs, Design and Engineering, Cruise Lines International Association (CLIA)

Rob Griffiths is Director of Technical and Regulatory Affairs, Design and Engineering at Cruise Lines International Association (CLIA) in Washington DC, where he develops, presents, negotiates, and implements industry positions on legislative, regulatory, and policy matters involving shipboard design and engineering matters. He is accredited to the International Maritime Organization where he represents the global cruise industry during international treaty negotiations and other matters. He is also the designated Secretary to the CLIA Committee on Maritime Safety Matters as well as the Cruise Ship Safety Forum and its Steering Committee.

Rob has diverse expertise in maritime safety and marine environmental protection. Having retired from the U.S. Coast Guard with over 25 years of service, he has held various technical and operational positions including as program manager in Washington DC, where he oversaw the independent testing labs and related equipment approvals for shipboard pollution prevention equipment, as well as chief of waterways management in Los Angeles/Long Beach, flag State and port State
inspector, migrant interdiction officer in Miami, search and rescue controller in San Diego, operations officer and law enforcement boarding officer on a patrol boat in Miami, and as a quartermaster on a medium endurance cutter in St. Petersburg, Fla. He has over 6 years at-sea experience.

He is a 2007 graduate of the Naval Postgraduate School in Monterey, Calif., where he received his Master of Science degree in mechanical engineering, and a 1999 graduate of San Diego State University, where he received his Bachelor of Science degree in criminal justice.

Jeffrey Grybowski
CEO, Deepwater Wind

Program Note: Jeffrey Grybowski is unavailable to attend. See biography for Clint Plummer, Vice President, Development, Deepwater Wind who will present in Jeffrey Grybowski’s stead.

Mark Hall
President, Kongsberg Oil & Gas Technologies

Mark Hall is President of Kongsberg Oil & Gas Technologies, Inc. with operational and strategic responsibilities for the Americas geo-market. Mark has 30 years of experience in the energy / industrial / chemical / petroleum industries for world class global research, industrial, manufacturing, and technology organizations including Hess Corporation, IBM, Chevron, Shell, Dow Chemical, and US Department of Energy.

Mark received his MS degree in Chemical Engineering from Rice University and BS in Chemical Engineering from University of Houston, both located in Houston, Texas USA.

Kongsberg Oil & Gas Technologies is an independent supplier of technology, software solutions and services to customers in the oil and gas industry. Our deliveries include subsea systems, real-time decision support solutions for drilling, environmental monitoring, well surveillance and production and integrity management tools. In addition to head office in Norway, the company has a presence in many of the major oil and gas markets including USA, Middle East, Asia, Brazil, UK, Australia and India and is a subsidiary of Kongberg Gruppen, headquartered in Kongsberg, Norway.

Kongsberg Gruppen (KONGSBERG) is an international technology corporation that delivers advanced and reliable solutions that improve safety, security, performance in complex operations and during extreme conditions. KONGSBERG works with demanding customers in the global defense, maritime, oil and gas and aerospace industries.

David Hedgeland
Sound & Marine Life Technical Authority, BP [WOC]

David Hedgeland joined BP in 2012 as the Sound and Marine Life Technical Authority, where he provides advice and guidance related to the potential interaction between underwater sound and marine life. He also manages related knowledge management studies and represents BP on various related industry workgroups.

David has over twenty years of experience in the geophysical exploration industry, including fifteen years’ experience in the underwater sound and marine life subject.

He previously held the position of Environment Manager with Petroleum Geo-Services with responsibility for worldwide activities related to developing and implementing environment policy, strategies and procedures at both a corporate and operational level.

He spent two years on full-time loan from PGS to the international geophysical industry trade association (IAGC) as Vice President, Marine Environment, where he provided a dedicated technical and managerial resource for geophysical industry activities related to the underwater sound and marine subject. After which he continued to represent both his company and the geophysical industry in activities such as engagement with regulatory authorities and supporting research efforts.

After several years working offshore, he joined PGS Research in 1998 as part of the Geophysical Support group responsible for seismic survey design and planning. He was responsible for coordinating environment research/support activities related to seismic operations and the marine environment.

David holds a Bachelor of Engineering degree in electronic engineering from the University of Sussex. He earned his first Master’s degree in exploration geophysics from Imperial College and his second Master’s degree in Environment and Earth Resource Management from the University of Kingston. He completed his MBA in Strategic Carbon Management from the Norwich Business School, University of East Anglia in 2012.
Peter Hinchliffe
Secretary General, International Chamber of Shipping [WOC]

Peter Hinchliffe is the Secretary General of the International Chamber of Shipping (ICS) and its sister organisation, the International Shipping Federation (ISF). The combined membership of ICS and ISF comprises 36 national shipowners’ associations and represents around 80% of the world’s merchant tonnage. One of the principal roles of the organizations is to co-ordinate the representation of the international maritime industry at the International Maritime Organization, the International Labour Organization, and at other intergovernmental fora which impact on the interests, well-being and sustainability of international shipping. He joined ICS and ISF in 2001 after a first career in the Royal Navy that included three seagoing commands. For many years, as the ICS Marine Director, he led ICS representation on safety and environmental issues at the IMO. He was closely engaged in the development of maritime security regulation, including the ISPS Code and in international governmental and intergovernmental discussion on counter-piracy matters over several years. He has been instrumental in the development of environmental regulation on, inter alia, air emissions, CO2 emission reduction, ballast water management and ship recycling. He is deeply interested in ocean governance issues and the UN Convention on the Law of the Sea.

Paul Holthus
CEO, World Ocean Council [WOC]

Paul Holthus is the founding CEO of the World Ocean Council (WOC) - the international business leadership alliance on Corporate Ocean Responsibility. The WOC brings together oil and gas, shipping, fisheries, aquaculture, tourism, offshore renewables and other ocean industries - creating unprecedented ocean business community leadership and collaboration in addressing marine sustainability challenges.

Mr Holthus has held senior positions with the United Nations Environment Programme (UNEP) and international environmental organisations, including as Deputy Director for the IUCN Global Marine Programme. Since 1998, Mr Holthus has worked primarily with the private sector to develop practical solutions for the sustainable use of the marine environment. He has worked in over 30 countries with companies, communities, industry associations, U.N. agencies, international non-governmental organisations and foundations.

Gary Isaksen
Manager, Global Ocean Science & Policy, ExxonMobil [WOC]

Isaksen is the Manager for the Global Ocean Science & Policy Program at ExxonMobil. He holds Masters and Dr. Philos degrees in geochemistry and geology from the University of Bergen, Norway. He is also an Adjunct Professor at Duke University, The Nicholas School of the Environment.
Since joining Exxon in 1985, the major themes of his technical work have been integration of geosciences for oil and gas production, enhanced field development and production worldwide. A recent focus area has been environmentally safe marine operations. In his current role he manages ExxonMobil’s programs in marine spatial planning, and marine ecosystem management – including marine ecosystem services. He is also responsible for programs to mitigate the impact of exploration and production operations sound on marine life. One of the programs in his portfolio aims to develop next-generation subsurface imaging technologies with a small environmental footprint. He also coordinates numerous research programs with academic institutions worldwide. Isaksen is Chairman of the Board of the World Ocean Council and a Board member for the Bermuda Institute of Ocean Sciences. He has also served as a delegate to the International Whaling Commission to help ensure that appropriate international standards are implemented to safeguard marine mammals during oil and gas operations. Isaksen has published over 40 manuscripts in peer-reviewed scientific journals.

Gudrun Janssens
Policy Advisor, Public Waste Agency of Flanders

Gudrun Janssens studied Chemistry with a specialization in environmental sciences in the city of Ghent in Belgium. She graduated in 1998 with honors, after completing her thesis on cyanobacteria toxins from blue-green algae at the University of the Orange Free State in the Republic of South Africa.

After a two-year working period at the environmental department of Belgium’s main electricity supplier, she started working at OVAM, the Public Waste Agency of Flanders.

She has been outlining the policy on ships’ waste management and ship recycling for over ten years now. Her main assignments are:
• Following-up the implementation and the effect of the port reception facilities (PRFs) directive 2000/59/EC for ship-generated waste and cargo residues and preparing the revision of this directive;
• Implementing MARPOL requirements related to ship generated waste & PRFs;
• Preparing and implementing the Rhine Treaty on ship generated waste from inland navigation;
• Outlining the Belgian policy regarding IMO’s Hong Kong Convention on ship recycling and the European Ship Recycling Regulation, taking into account other international obligations and treaties such as the Basel Convention.

Vladimír Jareš
Deputy Director, United Nations Division for Law of the Sea and Ocean Affairs

Mr. Vladimir Jares, Deputy Director, Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs of the United Nations Secretariat, has been a staff member of the Organization since 1992.

He has dealt with many issues concerning the law of the sea, in particular those related to the implementation of the 1982 United Nations Convention on the Law of the Sea and related Agreements. Since 1997, he has been involved in providing services to the Commission on the Limits of the Continental Shelf and, currently, serves as its Secretary. He has also been involved in capacity-building activities of the Division, delivering many of its training courses, including on UNCLOS article 76 implementation.

In the early 1990s, he dealt with fisheries issues in the context of the United Nations Conference on Straddling Fish Stocks and Highly Migratory Fish Stocks. He has been involved in the preparation of many publications issued by the Division and was responsible for the Law of the Sea Bulletin.

Prior to his career as an international civil servant, he served as Second Secretary at the then Permanent Mission of Czechoslovakia to the United Nations in New York. He had also served as Special Assistant to a Deputy Foreign Minister of Czechoslovakia. He started his professional career as a Legal Officer in the International Law Department of the Czechoslovak Federal Ministry of Foreign Affairs.

He has master’s degrees in international law from the MGIMO-University in Moscow and in law from Charles University in Prague.

Carolyn Junemann
Environmental Protection Specialist, Office of Environment, Maritime Administration, U.S. Department of Transport

Dr. Carolyn Junemann is an Environmental Protection Specialist with the Maritime Administration's Office of Environment. She has a Bachelor of Science Degree in Meteorology and Oceanography as well as a merchant mariner's license from the State University of New York Maritime College. She has a Master of Science in Public Health and a Doctor of Science from the Tulane University School of Public Health and Tropical Medicine. Her area of specialization is environmental science. Dr. Junemann is responsible for managing the Maritime Administration's ballast water initiative, which includes facilitating the testing of ballast water management systems. Part of this initiative is the establishment and support of three U.S.-based test facilities located in the Chesapeake Bay, Great lakes, and the San Francisco Bay area. Her other focus has been on management of hull biofouling and the development of in-water hull cleaning technology capable of capturing the material being removed. She serves as a member of the U.S. delegation to the International Maritime Organization and is the Secretary of the ISO Subcommittee for Marine Environment Protection.

Kalle Kägi
Co-Founder, Marinexplore [WOC]

Kalle Kägi co-founded Marinexplore in early 2012. He is the lead operations and data manager. With his partners and a growing team of 15 professionals, Marinexplore is building the world’s first big data platform for ocean data, helping businesses reduce risk, to make informed decisions faster by dramatically cutting data processing time. Kalle is also the Co-chair of WOC Smart Ocean/Smart Industries Working Group. Prior to Marinexplore, Kalle was a partner at Flydog Design, an engineering design company, he co-founded together with Rainer Sternfeld, the founder and CEO at Marinexplore. At Flydog Design, he was working on a profiling data buoy while leading the research for a buoy operating system. Kalle also worked several years in law and finance before turning to product engineering, his long-term passion. Kalle holds a degree in Law from University of Tartu, Estonia.
Josh Kohut
Assistant Professor, Marine and Coastal Sciences, Rutgers State University of New Jersey

Josh Kohut is currently an assistant professor of oceanography at Rutgers University. He has a Ph.D in physical oceanography from Rutgers, and B.S in Physics from the College of Charleston. His research interests include bio-physical interactions in the world’s oceans, circulation processes on continental shelves, and the impact of these processes on marine resource management. His research career at Rutgers has its foundation in the application of advanced ocean observing technologies to coastal research. He works to quantify the variability in the physical ocean as it relates to coupled physical/biological processes that differentiate keystone habitats within a given ecosystem. The physical habitat characteristics of the coastal ocean are highly variable in space and time and play a critical role in coupled biological and chemical processes that define the ecosystem itself. Through these projects, he provides measures of ocean temperature, salinity, circulation and analysis as part of large multi-disciplinary projects that focus on complex processes. How should dynamic water masses in the Mid-Atlantic Bight be linked with fish distributions and hypoxia/anoxia in coupled bio-physical models? Continuous ocean observations capture both the episodic events and long-term trends that drive these coupled processes. Most recently he is involved on local and international projects that range from sending an underwater robot across an ocean basin to habitat mapping in the waters off the coasts of New Jersey and Antarctica.

Han-Christian Krarup
Danish Country Director, Golder Associates [WOC]

Hans Christian Krarup is a Golder Associate and Country Director for Golder in Denmark, and is responsible for Golder’s activities in Greenland. He was born in Greenland and has substantial Greenlandic experience. Hans Christian has a technical background in environmental and civil engineering. He is currently involved in Oil & Gas and mining projects in Greenland as well as other projects in Greenland and the Arctic. A major part of his career has been focused on capacity building of local communities and responsible development of natural resources.

Anissa Lawrence
Director, TierraMar [WOC]

As the Director and Founder of TierraMar Consulting, Anissa provides strategic assistance and program design, management, implementation and evaluation expertise to build and strengthen the capacity of organizations engaged in managing natural resource and conservation issues across Asia Pacific, particularly relating to coastal, marine, fisheries and island ecosystems. With more than 24 years experience, a core driver for Anissa is to develop, implement and communicate sustainable, workable solutions to environmental challenges. As an experienced environmental communicator and strategist she strives to facilitate government, corporate, industry and community action to understand and manage business, social and environmental risks to achieve sustainable outcomes. Anissa has held senior positions in a number of leading international engineering and professional services firms and with conservation organisations and has worked across nearly every industry sector and with all types of organisations from blue chip companies to the not for profit sector both nationally and internationally. She is currently assisting a number of organisations to develop and deliver Blue Carbon programs across Asia Pacific and Australia.

Eric Lindstrom
Physical Oceanography Program Scientist; Co-Chair, UNESCO/IOC Global Ocean Observing System (GOOS), U.S. NASA

Dr. Eric Lindstrom is the Physical Oceanography Program Scientist in the Science Mission Directorate at NASA Headquarters in Washington D.C. He is Program Scientist for the QuikSCAT, Jason, Jason-2, Jason-3, SWOT and Aquarius satellite missions and is the leader for Earth Science Division Climate Focus Area. He has degrees in Earth and Planetary Sciences from Massachusetts Institute of Technology (1977) and Physical Oceanography from University of Washington (1983). His scientific interests include the circulation of the ocean and air-sea exchange processes. With 15 years experience as a sea-going scientist and 15 years working on ocean remote sensing, Dr. Lindstrom has been deeply involved in all aspects of observing the global ocean. He is now serving as Co-chair of the international Global Ocean Observing System Steering Committee and Co-chair of the US Interagency Ocean Observations Committee (IOOC). Recently, as Chair of the Ocean Observation Panel for Climate he help establish a web site of ocean climate indices (http://ioc-goos-oopc.org/state_of_the_ocean/) and as co-chair of the Task Team for an Integrated Framework for Sustained Ocean Observations completed guidelines system development entitled “The Framework for Ocean Observing (http://www.oceanobs09.net/foo/).
Tim Lunel
Support & Development Director, International Tanker Owners Pollution Federation [WOC]

Dr Tim Lunel is an organic chemist with a PhD in Oceanography from Cambridge who worked on research in marine oil & chemical spills between 1990 and 2003. This included working alongside ITOPF at the BRAER and SEA EMPRESS spills. He joined ITOPF in December 2012 bringing the skills he has acquired from his MBA and his experience of director roles in the private, public and not-for-profit sectors.

David Lyons
Founding Partner and President, Capital Partners Worldwide

Bernice Malione
Assistant Director, Environmental & Energy Programs, Port Authority of NY & NJ

Bernice R. Malione is the Assistant Director of the Office of Environmental and Energy Programs at the Port Authority of New York and New Jersey. In that role, she is responsible for all matters related to environmental compliance and sustainability. Since coming to the Port Authority in 1988, Ms. Malione has held positions of increasing responsibility as: Supervisor, Permits & Governmental Approvals and Manager, Environmental Compliance. Throughout her career at the Port Authority, she has been a critical contributor for environmental permitting and wetland mitigation plans.

Ms. Malione represents the Port of New York and New Jersey on the New York City Climate Change Adaptation Task Force and she chaired the Transportation Research Board’s Airport Cooperative Research Program on Best Management Practices for Airport Deicing Runoff. Ms. Malione holds a B.S. degree in environmental biology from Millersville University and an M.S. degree in Marine Environmental Science from State University of New York at Stony Brook.

Justin Manley
Senior Director, Business Development, Teledyne Benthos

Justin Manley has been working with marine technology since 1990. He was a principal in the development of unmanned marine vehicles at the Massachusetts Institute of Technology from 1993 to 2002. Between 2002 and 2009 Mr. Manley provided marine technology consulting services, primarily to the National Oceanic and Atmospheric Administration (NOAA where he was the founding Chair of the NOAA-wide AUV Working Group.

In 2009 Mr. Manley transitioned to the private sector, joining Liquid Robotics during its startup phase. There he was responsible for developing new commercial and scientific programs based on the Wave Glider. In July 2011 Mr. Manley joined Teledyne Benthos as Senior Director of Business Development. He is responsible for managing and advancing a diverse product portfolio and leads the development of a networked systems approach across Teledyne Marine Systems, which is made up of Benthos, Webb Research and Gavia. Mr. Manley is a Senior Member of IEEE, Vice President of Government and Public Affairs for the Marine Technology Society and a member of the U.S. Integrated Ocean Observing System (IOOS) Advisory Committee.

Trevor Manuel
Cabinet Member, South Africa; Global Ocean Commissioner, Global Ocean Commission

Trevor Manuel was one of South Africa’s longest serving Ministers of Finance, and is now Minister in the Presidency and head of the National Planning Commission.

Following South Africa’s first democratic elections in 1994, Mr Manuel was appointed Minister for Trade and Industry. Two years later he became Minister of Finance. He remained in the post until 2009, steering the economy through a period of significant political change.

Before entering parliament, Trevor Manuel actively opposed apartheid policies for many years, and became head of the African National Congress’s Department of Economic Planning prior to the 1994 election. He was a member of the ANC’s National Executive Committee from 1991 to 2012.

Among many international posts, he has chaired the International Monetary Fund’s Development Committee, served as Special Envoy for Development Finance for UN Secretaries-General Kofi Annan and Ban Ki-Moon, and served on the Commission for Africa and the task team on Global Public Goods. In 2011 he became a Co-chair of the Transitional Committee of the Green Climate Fund, a UN fund to help poorer nations combat and adapt to climate change.

Mr Manuel has received numerous honorary doctorates and awards, being named Africa Finance Minister of the Year in 2007.
Paul Martin
Former Prime Minister of Canada; Global Ocean Commissioner, Global Ocean Commission

The Rt Hon Paul Martin was Prime Minister of Canada from 2003 to 2006 and Minister of Finance from 1993 to 2002. He was named the inaugural chair of the Finance Ministers’ G20 in 1999.


In Canada, he is responsible for the Martin Aboriginal Education Initiative, and he founded, with his son David, the Capital for Aboriginal Prosperity and Entrepreneurship Fund.

Before entering politics, Mr Martin had a distinguished career in the private sector as a business executive at Power Corporation of Canada and as Chairman and Chief Executive Officer of The CSL Group Inc.

Mr Martin studied philosophy and history at St Michael’s College at the University of Toronto, and is a graduate of the University of Toronto Law School. He was called to the Ontario Bar in 1966.

Dan McClary
Environmental Manager, Gardline International

Program Note: Dan McClary is unavailable to attend.

Dr. McClary is Principal Scientist and General Manager (Environment) of Gardline Marine Sciences in Perth, Western Australia. Dan has over 20 years of experience in marine science research and consulting and has been listed by the United Nations Environment Programme as an expert on biosecurity, biodiversity and coastal and marine inventory. He has specific and extensive experience in environmental effects assessment and has been involved in a wide variety of marine fisheries and biosecurity (invasive marine species) projects for governmental and commercial clients. Dan is currently on the list of ‘Approved’ marine pest inspectors for the Western Australian Department of Fisheries, is a past-President of the New Zealand Marine Sciences Society and was Editorial board chair for the NZ Journal of Marine & Freshwater Research for 5 years.

Dan’s recent project work has included marine biosecurity vessel inspections and management (Indonesia, Singapore, South Korea, Australia, New Zealand), the design and implementation of large scale baseline biodiversity/ biosecurity surveys of ports and harbours (Australia, New Zealand), integrated coastal zone management (Jordanian Red Sea), marine environmental assessments at the Philippine island of Mindoro and South Australia’s Spencer Gulf, environmental monitoring in Port Moresby Harbour (Papua New Guinea) and monitoring the effects (discharge quality, ecotoxicology, benthic ecology, fisheries resources) of cooling water discharges on urban estuaries.

Leslie-Ann McGee
Director, Ocean and Coastal Solutions, Battelle Memorial Institute [WOC]

Leslie-Ann McGee is the Director of Ocean and Coastal Solutions at Battelle Memorial Institute, the world’s largest non-profit, independent, research and development organization that specializes in innovating solutions to the world’s most pressing needs. Ms. McGee has over 18 years of professional experience in ocean and coastal work. Appointed by the Commonwealth of Massachusetts Governor Patrick to lead the MA Office of Coastal Zone Management, Ms. McGee directed policy, strategic planning and implementation and served as legislative liaison for multiple initiatives including: ocean management, climate change adaptation, coastal resource use, waterfront project planning and review. Ms. McGee also supervised federal consistency regulatory reviews and environmental policy impact determinations for coastal projects ranging from coastal development and dredging to siting of offshore wind turbines and deepwater liquefied natural gas ports. Ms. McGee served the New England Fishery Management Council for eight years focused on arbitrating controversial and scientifically complex issues such as ground fish management and ecosystem protection pursuant to the Magnuson-Stevens Fishery Management and Conservation Act while successfully employing the tools of marine protected areas and ecosystem-based management. Ms. McGee served as an expert on the UNESCO Ecosystem-Based Marine Spatial Planning Panel and is a founding member of the Collaborative Institute for Oceans, Climate and Security at the University of Massachusetts Boston and an active member of the World Ocean Council. She holds a B.A. in Geography and Biology from the University of Colorado at Boulder and a Masters of Environmental Management from the Duke University’s Nicholas School of the Environment.
Craig McLean  
**Deputy Assistant Administrator, U.S. NOAA**

Craig McLean is the deputy for NOAA’s Oceanic and Atmospheric Research programs and administration. He is responsible for daily operations and administration of NOAA’s research enterprise, and the execution of NOAA programs including the Climate Program Office, the National Sea Grant Program, Ocean Exploration and Research, and Weather and Air Quality research.

He has previously served in NOAA as Executive Officer of the National Ocean Service, and was the founding Director of NOAA’s Office of Ocean Exploration. McLean served in uniform for nearly 25 years, retiring from NOAA’s Commissioned Corps in the grade of Captain after service at sea, underwater, and in operational, legal, and marine resource management positions. McLean served aboard hydrographic, oceanographic, and fisheries research ships and was the first commanding officer of NOAA’s largest fisheries research vessel, the 224-foot Gordon Gunter. He led NOAA’s innovation and planning for the Smithsonian Institution’s Ocean Hall, and achieved a National Ocean Action Plan goal of securing a permanent dedicated ship for the national ocean exploration program, the NOAA Ship Okeanos Explorer.

A life-long diver, he began exploring deep shipwrecks through decompression diving while in junior high school. These experiences have taken him to the Amazon River searching for freshwater dolphins, and to the USS MONITOR and RMS TITANIC searching for solutions in historic shipwreck management.

Craig McLean is also an attorney and has practiced marine resource law for NOAA. He has been awarded the Departmental Silver and Bronze Medals, the NOAA Corps Commendation Medal, and Special Achievement Medal. He is a frequent speaker on ocean related subjects, rooted in his diverse NOAA career experience in fisheries, coastal and marine area management, directing research, law, and both surface and submerged marine operations. He is a Fellow of the Explorers Club, and of the Marine Technology Society, and a Past-President and Chairman of the Sea-Space Symposium.

Jacques Miné  
**Head of Service, Exploration and Production, TOTAL [WOC]**

Jacques Miné is an engineer, graduated from the Ecole Nationale Supérieure de Géologie (Nancy) and the Ecole Nationale Supérieure du Pétrole et des Moteurs (Rueil-Malmaison). After spending 16 years as a geoscientist in Elf Aquitaine then in TOTAL, he joined the TOTAL E&P HSE team where he was in charge of leading environmental studies for new projects concerning North Africa, Central Asia and Angola. He is currently Head of Service within the Environment Department, in charge of the environmental matters for new projects worldwide. In addition, he is strongly involved in R&D programs dedicated to biodiversity and specifically on deep offshore (in partnership with Ifremer, the French Research Institute for Exploitation of the Sea). He is also the TOTAL representative within the IPIECA/OGP Biodiversity Working Group.

Peter Moore  
**Stakeholder Liaison, Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS)**

Peter Moore joined MARACOOS in 2012 as the first Stakeholder Liaison, a position which places him at the interface between the diverse user community and the technical capabilities of the MARACOOS Ocean Observatory. Peter serves a feedback role with the development of real-time useable products as the main outcome. MARACOOS serves a huge geographic area – stretching from Cape Hatteras to Georges Bank and encompassing 10 states (plus Washington, DC), 111 Congressional Districts and 71 million people. MARACOOS is comprised of 35 Co-PIs from 25 institutions. Prior to MARACOOS, Peter was a partner in Northern Pelagic Group, LLC, New Bedford, MA, one of the largest vertically-integrated seafood companies on the US eastern seaboard. Peter served as Vice President for Scientific and Governmental Affairs and was the company representative to all federal and state management bodies and scientific panels. He established industry-led fisheries research programs in partnership with academia and state government partners, worked on behalf of industry on US-Canadian transboundary fisheries issues, and still serves in an Advisory capacity to the region’s fishery management councils as well as the ASMFC. Prior to his east coast career, Peter worked as a commercial fisherman in Alaska during the 1970s-1990s through “Americanization” of the Alaska fisheries. Peter holds a Bachelors degree from Bowdoin College in Maine, and a Masters degree from the University of Rhode Island.
Rolando Morillo
Senior Analyst, Rockefeller Ocean Strategy

Rolando Morillo has over 13 years of experience within the investment department of Rockefeller & Co. and is currently an Equity Analyst. He is responsible for identifying and supporting the management of public equity investments for the Rockefeller Ocean Strategy and Latin America equity research within the Viva Americas equity team.

During the past seven years, his responsibility shifted to become engaged in the research and identification of renewable energy and small cap public equity investments. More recently, he has led the effort to identify companies that promote sustainability and good corporate responsibility and deepen the firm’s research capability in tandem with the sustainability and impact investment team. He is a member of the stock selection committee and the sustainability and impact investment replacement committee at Rockefeller & Co.

In his previous role at Rockefeller & Co., he developed screening strategies and risk assessment profiles under an extensive set of environmental, social and governance criteria and measurements for the sustainability and impact team as a portfolio analyst. During this period, he also participated in the formation of a nascent portfolio analytics group that successfully scaled a growing business in terms of assets, number of accounts and complexity.

Prior to joining Rockefeller & Co. in 2000, Rolando was a portfolio analyst at UBS private banking Latin America division. He obtained his B.A. in Environmental Economics and Geography from Rutgers University. He has also completed studies in the University of Sevilla in Seville, Spain.

Brian Murray
Director for Economic Analysis, Nicholas Institute, Duke University, Duke University

Dr. Murray is Director for Economic Analysis at the Nicholas Institute for Environmental Policy Solutions and Research Professor at the Nicholas School of the Environment at Duke University. He is widely recognized for his work on the economics of climate change policy, including the design of cap-and-trade policy elements to address cost containment and inclusion of offsets from traditionally uncapped sectors such as forestry, agriculture, and coastal ecosystems. Members of the United States Congress and their staff have sought the counsel of Dr. Murray and Nicholas Institute colleagues as they have developed climate change legislative proposals. Dr. Murray has been invited as a co-author of several national and international assessments of natural resources, especially related to climate change. Of particular note, he serves on a National Academy of Sciences panel on greenhouse gases and the tax code. He was a convening lead author of the Intergovernmental Panel on Climate Change’s Special Report on Land Use, Land Use Change, and Forestry. His research has examined the economic effects of traditional command-based regulatory strategies for pollution control and more market-oriented approaches such as cap-and-trade programs and emission taxes. He has been a consultant to a wide range of clientele in the public and private sector, including numerous federal government agencies, members of Congress and their staff, state regulatory agencies, CEOs and senior staff from Fortune 500 companies, trade groups, nongovernmental organizations, and other academic institutions. His work has been published extensively in professional journals, books, edited volumes, and compiled reports.

Carl Nettleton
Founder and President, Open Oceans Global

Carl Nettleton is the founder of OpenOceans Global, a non-profit dedicated to the goal of archiving, aggregating and creatively presenting the world’s ocean data. OpenOceans Global intent is to link people to the world’s oceans by sharing information that will lead to more informed decisions and by doing so, create a cross-sector, international ocean community with the common interest of better understanding the ocean, its processes, and the inter-relationship with the water cycle and climate change. Carl is also the president of Nettleton Strategies LLC, a San Diego, California, public policy consulting firm. Nettleton Strategies specializes in forming complex community collaborations and handling high profile issues involving government, media, businesses and communities. A key strategy implemented in this work is facilitated mapping, the use of advanced geographic information systems (GIS) technology to create location-based consensus and create opportunities for collaboration and conflict resolution. Carl also serves on the national advisory council and is the co-director of the San Diego Chapter of Environmental Entrepreneurs (E2), a national group of business leaders who promote sound environmental policy that builds economic prosperity. For more than 25 years, Carl has played a major role in addressing large infrastructure-related regional issues including the airport, water, waste water, and storm water. He has also served as the chief executive of two ocean environmental organizations and has held multiple executive positions in public, non-profit, and for-profit sectors and has served on numerous of local, state, and national committees and boards for various organizations and agencies.
Robert Orr  
**CEO, Cuna del Mar**

Robert Orr is the CEO and Managing Director of a Cuna del Mar; a family office, private equity fund, that specializes in making investments in environmentally sustainable aquaculture. The fund’s primary objective is to invest in technologies and platforms capable of bringing about a paradigm shift in existing aquaculture practices. Cuna del Mar currently has investments in the USA, Canada, Mexico and Panama.

Orr’s management career spans over 30 years at the senior management level in the marine biotech, nutritional ingredient, food retailing, food wholesaling and retail advertising industries. His breadth of experience ranges from creation and management of several startup companies to responsibility for large multi-national corporate division operations with annual revenues in excess of $1 billion.

From 1996 to 2011, Robert Orr was the co-founder, CEO and Chairman of Ocean Nutrition Canada Limited (ONC) the world’s largest ingredient supplier of Omega 3s, made from fish oil, to the Dietary Supplement and Functional Food Industry. By focusing its efforts on science based products, innovative marketing approaches and developing new technologies ONC produced 9 consecutive years of greater than 35% CAGR and grew from 3 employees to over 500, with customers in over 40 countries. The company received numerous awards, national and international, for its innovations and rapid growth. ONC was sold to the Dutch company Royal DSM N.V., for $540 million in the spring of 2012 Robert also serves on the following:

- Board of Directors of Genome Canada; Canadian Government (DFAIT) – Life Science Advisory Board; Board of Directors of Nova Scotia Research and Innovation Trust. (NSRIT); Chair of the Board, TruLeaf Sustainable Agriculture Vice-chair, Board of Directors Community Foundation of Nova Scotia; Other Notes of Interest: 2006 – Nova Scotia Exporter of the Year; 2010 – Life Time Achievement Award, Contributions to the Nutritional Industry; 2011 – Business Person of the year – Halifax Chamber of Commerce

**Vinay Patwardhan**  
**General Manager, Group Tanker Operations and Director, Group Planning & Development, TCC Steamship Co Hong Kong [WOC]**

Capt. Vinay S. Patwardhan Director, General Manager, TCC(HK) Tanker Fleet Director. TCC Group Planning & Development Capt. Patwardhan is a graduate of the Training Ship Dufferin with over 50 years in the maritime industry Corporate Management including 22 years on ships of various types, sizes and denominations on Global Ocean Trade in some of the most environmentally sensitive waters in the world. Currently, as General Manager, he successfully modernized and transformed the management into principle based fleet operations of the TCC Group pledging transparency and safety as a corporate commitment rather than a department responsibility. Formerly, as President of Teekay Shipping (Canada) Ltd, he founded numerous operational and environmental safety standards, policies and procedures to promote operational, technical and environmental excellence throughout the then largest Aframax Tanker Fleet in the world. Professional Affiliations:USCG Towing Safety Advisory Committee; Board of Directors- Bergen Hull Club-Bermuda; Chairman-Bahamas Executive Committee (Tanker Group); Chairman- Intertanko Tanker Safety Panel; Liberian Ship-owners’ Council task force for Malacca Straits traffic regulations; DNV Pacific Technical Committee; Research Papers: “Safety of Oil Tankers- Mapping of Risks in its Operation”; “Safety in shallow waters (Under keel Clearance)”; Nautical Institute/London- “Factors when implementing Safety Systems in a Mixed Manning Fleet”; “Feasibility Study of Integrated Export Process for offshore (major) oil terminal on the coast of West Africa”; “Underwriters’ Safety Audit of Corporate Resource Management” for a leading (Scandinavian) underwriter beset by marine casualties. Speaker at numerous industry forums: The Lloyds List-Maritime Safety and Security Conference; The British Chamber of Shipping/ London; LSM Philippines Manning & Training Conference; 16th International Sustainable Development Research Conference-Hong Kong; Piracy and Maritime Security at the City University of Hong Kong; Chaired “TCC/USC Research Presentation on Emission Control” at China Maritime Seminar 2012-Hong Kong; Offshore Vessels World Forum 2012 at Shanghai.
Alice Penfold  
**Sustainability Manager, Sanford Fisheries** [WOC]

Alice Penfold, Ngati Porou/Ngati Kuri, is the Environmental and Sustainability Manager at Sanford Limited, New Zealand’s largest fishing company. She has a degree in psychology from the University of Auckland. Alice began working with Sanford in 2003. She is a passionate advocate for sustainable fishing and works across the company’s operations. Alice manages the health, safety and environmental management systems for Sanford and produces their annual Sustainable Development Report. The Company’s 2011 report was recognised as the best by a top 50 listed company in New Zealand, as well as being the supreme winner. Alice is committed to a company culture of transparency and continual improvement with a strong focus on collaboration. Alice comes to SOS2013 keen to share Sanford’s sustainability story and to strengthen its relationships with others working in our global oceans. She is excited to be part of an international discussion that will take company collected data, auditing and reporting and build this into a global oceans’ narrative.

Don Pickering  
**CEO, OneOcean** [WOC]

Don has been a longtime leader and pioneer in the technology community. His core expertise lies in applying emerging Internet technology and progressive business processes to transform and streamline large, antiquated industries. Prior to OneOcean, Don architected some of the industry’s most successful companies, including early Internet innovator Cosmix (acquired by USWeb in 1997), online outdoor retailer Altrec.com, and multivariate optimization company Widemile (acquired by Webtrends in 2009). Now with OneOcean, he merges that wealth of experience with a lifelong fascination with the ocean that began during his childhood growing up on beautiful San Juan Island in Washington State. Don’s vision has brought together a unique team capable of transforming how marine data is leveraged for optimal, sustainable use of the ocean. Core to this goal is the challenge of unlocking valuable ocean data from its silos, and getting it into the hands of people who need it — quickly, securely, and effectively — regardless of proprietary formats or political borders. OneOcean’s cloud-based service, the ClipCard platform, makes this possible with a common medium for managing, accessing, and exchanging ocean data. OneOcean’s mission is to help government, industry, and researchers alike take command of their information.

Clint Plummer  
**Vice President, Development, Deepwater Wind**

Clint Plummer serves as Vice President of Development for Deepwater Wind, where he manages the company’s project origination, feasibility assessment and pre-construction development activities.

Prior to joining Deepwater Wind, Clint served as Vice President of Asset Development and Underwriting for Endurant Energy, and before that, as founder and President of Redwood Power Company, which he sold to Endurant. Clint’s career includes experience in sales, project development, financial structuring and underwriting for a variety of energy asset development projects.

Clint earned a Bachelor’s Degree in Business Administration from The Ohio State University, a Master’s Degree in Engineering from Massachusetts Institute of Technology and is currently working towards an Executive Master’s in Public Administration from NYU’s Wagner School of Public Service.

Rich Pruitt  
**Associate Vice President, Safety & Environmental Stewardship, Royal Caribbean Cruises**

Rich Pruitt has served in a senior environmental compliance role with Royal Caribbean since May 2003. In May of 2011, he assumed additional duties related to Maritime Safety, Injury Prevention, and Management Systems. He currently is responsible for new technologies, developing corporate vision and strategic initiatives and setting policy for all environmental and maritime safety stewardship, compliance and continual improvement activities for the corporation. Royal Caribbean Cruises Ltd. is a global cruise vacation company that operates Azamara Club Cruises, CDF Croisières de France, Celebrity Cruises, Pullmantur, and Royal Caribbean International, and is in a joint venture to operate TUI Cruises. The company has a combined total of 41 ships in service and 5 under construction. It also offers land- and rail-based cruisetour vacations in Alaska, Asia, Africa, Middle East, Australia, Canada, Europe, Latin and South America and New Zealand. Prior to joining Royal Caribbean Cruises Ltd., Rich served in the United States Air Force and United States Coast Guard. From 1980 to 1990, Rich was an Air Force airborne Russian linguist and Airborne Mission Supervisor, assigned to various units and the National Security Agency. He also served in various national security and marine safety roles with the United States Coast Guard from 1990 to 2003.

He holds a Master of Business Administration degree in Environmental Studies from Florida Atlantic University. He also earned a Bachelor of Arts degree in Management from National Louis University and an Associate’s degree in Russian Interpreting from the Community College of the United States Air Force.
Steve Raaymakers
Director, EcoStrategic Consultants [WOC]

Steve Raaymakers is the founder and principal of EcoStrategic Consultants. He has over 22 years experience in coastal and oceans management, with specialist expertise in environmental issues relating to the ports, shipping and related industries. His experience includes five years as Chief Technical Advisor / Technical Adviser in the Marine Environment Division of the International Maritime Organization (IMO) and two years as Marine Adviser at the South Pacific Regional Environment Programme (SPREP), as well as time as an environmental adviser to the ports industry in Australia and with the Great Barrier Reef Authority.

Steve has been a Consultant since 2005 and advises industry and governments on many marine-industry issues, including IMO affairs, environmental assessment and management of major port developments, including major dredging projects, prevention and control of marine pollution and marine bio-invasions, marine pollution preparedness and response, environmental response to shipping incidents, as well as maritime law and legislative drafting. Steve has worked in over 55 countries. He has a Bachelor of Science in marine biology and natural resource management and is a Lieutenant in the Royal Australian Navy Reserve, where his interests include the use of naval power as a force for ocean protection.

One of Steve’s main drivers is to see optimum benefits to humankind from our global ocean resources, while ensuring a better planet for future generations. Further info: www.eco-strategic.com

John Ridley
Managing Director, Ocean Nourishment [WOC]

John is an environmental scientist and sustainability professional with 24 years practical experience in environmental management across three continents. He specializes in biological systems, sustainable resource management, carbon sequestration and environmental assessment and planning. After 15 years working in environmental management for major engineering infrastructure projects John was appointed Managing Director of Ocean Nourishment Corporation (ONC) in 2007. Ocean Nourishment mimics the effects of natural nutrient upwelling and is a potential means of catalyzing ocean ecosystem recovery with significant benefits in terms of enhanced carbon sequestration and marine productivity. John is leading the ONC charge to get oceans more broadly considered in international climate and food security policy deliberations. He has participated in major international climate meetings including the UNFCCC Conference of the Parties meeting in Poznan in 2008 (COP 14) and a series of lead up meetings to the COP15 meeting in Copenhagen including:

- Climate Change – Global Risks, Challenges & Decisions, March 2009
- World Business Summit on Climate Change, Copenhagen, May 2009
- World Science Congress, June 2009
- Oceans Day at COP15, December 14th 2009

John continues to lead a global research program exploring the merits and co-benefits of deep ocean carbon sequestration. However, he advocates that carbon solutions must be broadened to encompass broader ecological management goals such as food and water security and achievement of the Millennium Development Goals. After many years living in South East Asia, John and his wife Yoshiko now reside in Sydney, Australia which has been their home for the last 13 years.

Stephanie Roe
Land Use and Climate Consultant, Climate Focus

Stephanie Roe is a land use and climate change specialist at Climate Focus with a background in natural resource management, environmental markets and policy, and tropical forestry and ecology. She has broad experience in policy analysis, project development, and field implementation addressing climate change, biodiversity and land use challenges. Stephanie previously worked on piloting REDD+ projects with the United Nations in Indonesia, international climate policy as a Delegate for the Philippine Delegation to the UNFCCC, and natural resource valuation with the Brazilian Government. Prior to that, Stephanie consulted Fortune 500 companies on sustainability initiatives and climate policies with The Climate Group in New York. Stephanie holds a Master of Environmental Management from Duke University and a Bachelor of Arts in International Business Administration from San Diego State University.
Renée Sauvé
Director, Global Marine and Northern Affairs, Fisheries and Oceans, Canada

Renée Sauvé was born in Saint Boniface, Manitoba, Canada. She obtained her degree in natural sciences at the University of Manitoba (1985) and began her career as a Biologist with Fisheries and Oceans Canada. The early part of her career entailed research in the Canadian arctic, principally related to oil and gas development. She continued her work in various locations on the west coast of Canada. As a Habitat Biologist she was responsible for conducting impact assessments related to foreshore and forestry development. In 1995 Ms Sauvé obtained a position with the Department of Foreign Affairs as a Foreign Service Officer and was responsible for international environmental policy related to freshwater, marine and wildlife management files. She was briefly seconded to the provincial Government of British Columbia to advise on the issue of the international export of bulk freshwater. As a Foreign Service Officer she was responsible for representing Canada at a number of international venues, including those associated with the UN and the Convention on Biological Diversity. After 6 years with Foreign Affairs, Ms Sauvé returned to Fisheries and Oceans Canada as a Senior Officer. She was responsible for providing international policy advice and was the lead Canadian negotiator for the marine component of the World Summit of Sustainable Development. Ms Sauvé is now a Director with the International Affairs Directorate of Fisheries and Oceans Canada in Ottawa. She has chaired numerous international multilateral negotiations related to high seas marine biodiversity and ocean governance. Currently, Ms Sauvé is leading the Canadian delegation to the marine Working Group of the Arctic Council, and the delegation to the UN Regular Process for Global Marine Assessment. Ms Sauvé resides in Ottawa, Canada and is married with one child.

Apar Sidhu
Deputy Director, Office of Ocean and Polar Affairs, U.S. Department of State

Eskild Sorensen
Environmental Specialist, Corporate HSE, Maersk Drilling, A.P. Moeller-Maersk [WOC]

Eskild Lund Sorensen – has been working on establishing the Smart Oceans/Smart industries from the beginning in 2011 and is the co-chair of the group. He holds a masters degree in aquatic eco-toxicology and have worked with environmental protection in 10 years. He spend two years working for the Greenland Government on protection of the arctic marine environment and is currently environmental specialist in Maersk Drilling.

Brandon Southall
President, Southall Environmental Associates [WOC]

Dr. Brandon Southall is President and Senior Scientist for Southall Environmental Associates (SEA), Inc., a Research Associate with the University of California, Santa Cruz (UCSC), and an Adjunct Assistant Professor at Duke University. He obtained Masters and Ph.D. degrees from UCSC, studying marine mammal communication and hearing. From 2004-09, Dr. Southall directed the U.S. National Oceanic and Atmospheric Administration (NOAA) Ocean Acoustics Program. In 2009, Dr. Southall founded SEA, a research and consulting firm conducting science to support management and environmentally-responsible development (www.sea-inc.net). Brandon has extensive technical expertise in leading laboratory and field research programs (www.socalbrs.org) and applying science in national and international policies. He serves as a technical advisor to international corporations and environmental organizations regarding offshore energy development and commercial shipping. He has published nearly 50 peer-reviewed scientific papers and technical reports, and has given hundreds of presentations to scientific, regulatory, Congressional, and general audiences around the world.

Mark Spalding
Executive Director, The Ocean Foundation

Mark J. Spalding is the President of The Ocean Foundation and is an authority on international ocean policy and law. He is the former Director of the Environmental Law and Civil Society Program, and Editor of the Journal of Environment and Development, at the Graduate School of International Relations & Pacific Studies (IR/PS), UC-San Diego. Spalding has also taught at Scripps Institution of Oceanography, UCSD's Muir College, UC Berkeley's Goldman School of Public Policy, and University of San Diego's School of Law. He was a research fellow at UCSD's Center for U.S.-Mexican Studies, a Sustainability Institute – Donella Meadows Leadership Fellow and a SeaWeb Senior Fellow. He is chair emeritus of the National Board of Directors of the Surfrider Foundation, and was the chair of the environmental law section of the California State Bar Association from 1998-1999. He holds a B.A. in history with Honors from Claremont McKenna College, a J.D. from Loyola Law School, and a Master in Pacific International Affairs (MPIA) from IR/PS.
Captain John Spaner  
**Director Emerging Policy, U.S. Coast Guard**

Captain Spaner is director of the Coast Guard’s office of emerging policy in Washington, DC. He is responsible for development of strategy on major issues including the Arctic, Western Hemisphere affairs, defeating networks and others.

Previously, he served as Commanding Officer of Air Station Traverse City, Michigan where his unit conducted helicopter operations in the Great Lakes and Caribbean. Captain Spaner has held ratings as a senior pilot in the C-130 and HH-60 aircraft during tours in Oregon, Florida and California. He also served as Strategic Policy Advisor to the Four Star General commanding war efforts in Iraq and Afghanistan.

Captain Spaner holds an MBA from the Massachusetts Institute of Technology (MIT) and is a distinguished graduate from U.S. Navy Pilot Training. He holds the “Key to the City” from Traverse City, Michigan, is a former fellow at the Council on Foreign Relations and is a former White House Fellow.

Rainer Sternfeld  
**CEO and Founder, Marinexplore [WOC]**

Rainer is leading Marinexplore’s product vision, strategy and business development efforts. With his partners and a growing team of 15 professionals, they are building the world’s first big data platform for ocean data, helping businesses reduce risk and make informed decisions faster by dramatically cutting data processing time.

Prior to Marinexplore, Rainer led ABB’s business development initiatives and operations in the Baltic region, supervising enterprise IT, ERP and Operational Excellence activities. He initiated and led 20 special projects, including establishing the world’s first fast-charging infrastructure for electric vehicles, a 30-acre innovation campus, and growth strategies for business units.

Rainer has co-founded 3 companies and 2 organizations in the fields of robotics, industrial engineering, and manufacturing. He got his epiphany for Marinexplore while working on a profiling buoy at Flydog Design, an engineering design company he co-founded together with Kalle Kägi, now also a co-founder at Marinexplore.

Rainer holds a Master’s Degree in Mechatronics (cum laude) and BS in Industrial Engineering from Tallinn University of Technology, Estonia. As a student he worked at the Institute of Mechatronics, where he and his team members developed and built a 700-pound Explosive Ordinance Disposal robot with climbing abilities and a collapsible manipulator.

Fun fact: He is the co-creator of the Statue of Liberty of Estonia, a 80-foot tall glass monument with 200,000 LEDs inside, located in Freedom Square in Tallinn’s Old Town.

Mikael Thinghuus  
**CEO, Royal Greenland [WOC]**

Mikael Thinghuus, aged 50 and a Danish national, is the CEO of Royal Greenland, one of Europe’s largest seafood companies. The company is owned by the Greenlandic government and operates trawlers and factories in Greenland and Europe. Mr. Thinghuus joined Royal Greenland in 2011. He previously held a number of CEO and CFO positions in Europe and Asia.

Fran Ulmer  
**Chair, U.S. Arctic Research Commission**

(Program Note: Fran Ulmer unavailable to attend. See biography for John Farrell, Executive Director, Arctic Research Commission who will present in Fran Ulmer’s stead.)
Robert van de Ketterij  
Manager Knowledge Development, IHC Merwede

Education: M.Sc. Naval Architecture 1993 – Delft University of Technology - Faculty of Mechanics and Naval Architecture  
PhD Rock Mechanics 2001 – Delft University of Technology – Centre for Technical Geosciences – Faculty of Applied Geo Sciences  

Robert van de Ketterij started his career as PhD student at the centre for technical geosciences (Delft University of Technology). In 1997 he started to work besides his PhD study as project leader at an engineering office active in naval architecture and offshore engineering. Early 1999 he returned temporarily to Delft University of Technology, holding a post doc position to numerically study 3D fracture propagation. From mid 1999 to 2001, he worked as naval architect for DAMEN Shipyards in Gorinchem, where he designed hopper dredgers, standard type cutter dredgers and general cargo vessels. In 2001 Van de Ketterij joined IHC, working until 2005 as designer of large hopper dredgers at IHC Holland Dredgers.  

In 2005 he joined the Royal Netherlands Navy, where he worked as assistant professor at the Netherlands Defence Academy until 2007. He was involved in the development of the new curriculum and supervised MSc and PhD students, and in research to new methods of ship design and propulsion control. He also developed the project education in his institute. Furthermore, he educated officers of the Royal Netherlands Navy on naval architectural subjects.  

Robert returned to IHC in October 2007 as manager knowledge development at MTI Holland (IHC Merwede’s R&D Institute). He is now responsible for R&D subjects in the field of fluid mechanics, dredging technology, dynamics, emissions, naval architecture and deep sea mining. In addition, he is responsible for the Industrial Properties and the IHC Merwede wide knowledge centre.

Peter Van den dries  
Technical Manager, Environment, Antwerp Port Authority

Peter Van den dries is a biochemist, with postgraduate degrees in Environmental Sciences and Port Management. He started his professional career in 1991 in the chemical and pharmaceutical industry, but in 1994 he joined the Flemish Environmental Administration (Waste Agency) as senior policy advisor for maritime and port related issues.

In 2009 he joined the European Maritime Safety Agency (EMSA) in Lisbon, as Project Officer responsible for port reception facilities for ship-generated waste and cargo residues, and ship recycling. He participated in the EMSA audit teams inspecting the implementation of the Port Reception Facilities Directive (2000/59/EC) in EU Member States, and as a ship recycling expert he was a member of the European Commission’s delegation to IMO (MEPC).

In July 2011 he joined the Antwerp Port Authority, where he currently works as Technical Environmental Manager. His main responsibilities are within the field of both maritime shipping (reception facilities for ship-generated waste, ballast water, bunker fuel quality, air emissions, onshore power supply, etc.) as well as inland navigation (ship’s waste and cargo residues, onshore power supply, air emissions, etc.).

Boud Van Rompay  
CEO, Hydrex [WOC]

Boud Van Rompay is the founder and CEO of Hydrex, a world leader in underwater repair and maintenance technology since 1973. As a pioneer in underwater repair technology, Boud Van Rompay developed and patented many advanced procedures now in general use. Seeing the degree of marine pollution and the rough hull conditions which accompany conventional underwater hull coatings and antifouling systems, Boud Van Rompay developed Ecospeed, a non-toxic, non-polluting ship hull coating system now in use in major shipping companies. Hydrex is in the process of developing new technology to help clean up ocean pollution and contamination worldwide.

Kyle VanderLugt  
Director, Program Development, Liquid Robotics [WOC]

Kyle VanderLugt is the Director of Program Development at Liquid Robotics, Inc. He is responsible for working within government and private institutions to identify unique solutions towards cost reduction and mission improvement using autonomous ocean going platforms. Specifically, he is responsible for building collaborations and identifying methods for utilizing the Wave Glider®, the flagship product of Liquid Robotics, to provide Data as a Service (DaaS) cloud to governments and scientists, as well various commercial industries. Kyle serves as an industry representative on a number of regional associations in the integrated ocean observing system (IOOS), the ocean observatories initiative (OOI), and the Consortium for Ocean Leadership (COL). Prior to Liquid Robotics, Kyle served in the National Oceanic & Atmospheric Administration’s (NOAA’s) Line Office of Oceanic & Atmospheric Research (OAR) where he was involved in strategic planning of the research portfolio and the development of the inter-agency National Ocean Policy implementation plan. Before that, he was a research scientist at the
University of Arizona and focused on environmental engineering and the implementation of novel agriculture practices in the U.S. and internationally. He received an M.B.A. as well as Ph.D. in Environmental Sciences, from the University of Arizona.

**Kathy Vigness-Raposa**  
**Senior Scientist, Marine Acoustics [WOC]**

Kathy Vigness-Raposa has a broad background in marine ecology and extensive experience with applied research related to ecological risk management and marine spatial planning. As senior scientist at Marine Acoustics, Inc., Kathy primarily focuses on assessing the potential risk from anthropogenic activities on marine mammals, sea turtles, and fishes using MAI’s Acoustic Integration Model©, a state of the art real-time virtual model for assessing the net impact from a variety of activities (moving or stationary) on a dynamic population of marine wildlife. The results of these studies are then placed within the context of marine environmental legislation, including U.S. regulations such as the National Environmental Policy Act, the Marine Mammal Protection Act, and the Endangered Species Act, and the E.U. Marine Strategy Framework Directive. Kathy has also conducted visual and passive acoustic field surveys, and individual animal focal follows to detail the behavioral and acoustic response of whales to anthropogenic activity. Her dissertation research coupled marine mammal biology with advanced spatial statistical analyses to inform conservation actions for a marine protected species. As co-PI of the Discovery of Sound in the Sea (DOSITS) project, Kathy received the 2007 Science Writing Award in Acoustics for Media other than Articles from the Acoustical Society of America (http://www.dosits.org). Kathy received a B.S. in secondary science education from Miami (Ohio), and a B.S. in oceanography and a Ph.D. in environmental science from the University of Rhode Island.

**Ian Voparil**  
**Business Lead Venture Support Integration for Deepwater, Shell [WOC]**

Ian Voparil is Venture Support Integration Lead – Deepwater for Shell, currently based in New Orleans. His focus is on strategic non-technical issues management that improves business opportunity to grow along with environmental and social performance. He chairs the IPIECA Deepwater Taskforce and leads communications for the OGP/IAGC Sound and Marine Life Joint Industry Programme. In the US, he was an appointee to the Industry sub-panel of the Oceans Research and Resources Advisory Panel and the Deepwater sub-committee of the (former) Minerals Management Service’s Scientific Advisory Committee, providing scientific and technical information for offshore energy policy development.

In Shell, Ian has worked in regulatory affairs, been a subject matter expert on environmental issues, and was Ocean Issues Lead based in the Netherlands managing a global, cross-functional team.

Ian has a Ph.D. in Oceanography from the University of Maine and worked as a lecturer and researcher at the University of California-Santa Cruz. He is married to Stephanie Watson and they have two boys (Harper and Karsten) and the whole family enjoys music, food, and adventure.

**David Vousden**  
**Regional Director, Agulhas and Somali Current Large Marine Ecosystems Project**

Present Position – Regional Director, United Nations Agulhas and Somali Current Large Marine Ecosystems Project, Western Indian Ocean.

A career spanning 30 years that has evolved through the development of state-of-the-art field monitoring and analysis, into broader yet cutting-edge management techniques and thence to innovative adaptive management and governance mechanisms.

Currently developing innovative mechanisms for adaptive management and governance within the western Indian Ocean which relate climate change to ecosystem variation, with an emphasis on the ecosystem approach to fisheries. Dr. Vousden has provided expert advice and evaluation to marine ecosystem management and ocean governance initiatives in the north and south Pacific, the Indian Ocean, the Sea of Okhotsk, the Bering Strait, the Bay of Bengal, the Arabian Gulf, the Red Sea, the western Indian Ocean, the southern Atlantic and the Caribbean.

Dr. Vousden currently sits on a number of internationally-recognised bodies including the UN GEF Transboundary Waters Assessment Programme, the UNEP Scientific and Technical Advisory Panel Roster, the Scientific Steering Committee for SIBER (Sustained Indian Ocean Biogeochemistry and Ecosystem Research), the Indian Ocean Observing System Resource Forum (IRF), the African Large Marine Ecosystems Caucus, the Open-ended Consultative Panel on High Seas Governance in the Indian Ocean, the Global Ocean Forum, and the Future Ocean Alliance. He is also Dr. Vousden is also the Interim CEO for the African Centre for Ocean Governance based at Rhodes University in South Africa as well as an Honourary Fellow of the University of Wales.
Jay Walmsley  
Senior Environmental Analyst, Golder Associates [WOC]

Dr. Jay Walmsley has twenty-two years of experience in environmental management, in North America and internationally. Her focus has been on integrated water resources management (in both freshwater and marine/coastal environments) and she has experience in environmental assessments, ecological risk assessments, state-of-the-environment reporting and indicators development, environmental governance and policy development. Dr. Walmsley is highly respected in the field of environmental governance and policy, and has been involved in numerous policy development projects, including integrated coastal and ocean management. In 1996, she was chosen to attend the GEF-supported Training Course on the Law of the Sea, Agenda 21 and its Implementation provided by the International Ocean Institute in Canada, and has a broad knowledge of marine management issues. Over the past 10 years she has been involved the development of the Eastern Scotian Shelf Integrated Management Initiative, led by Fisheries and Oceans Canada. She has a particular interest in marine spatial planning as a means to management ocean space and resources in an integrated manner.

Baptiste Weijburg  
Lawyer, Holman Fenwick Willan LLP [WOC]

Holman Fenwick Willan LLP (“HFW”) is an international commercial law firm specialising in energy & resources, trade, shipping / transportation, insurance / reinsurance and corporate and commercial work. HFW have over 400 lawyers (148 of which partners) in 14 offices (and 2 associated offices) across 11 countries.

The firm regularly advises clients on ‘green’ legal issues, including emissions trading, ship recycling and slow steaming disputes. It is also committed to reducing its own carbon footprint. For example, the firm is a member of the London Green 500 Initiative, which implements measures to tackle climate change in London.

Baptiste joined HFW in 2007. He is based in London specialises in international commercial dispute resolution and litigation, focusing mainly on dry shipping, trade and energy. Baptiste acts in a wide range of disputes arising out of charterparties, bills of lading, ship sale and ship building contracts, COAs and international sale of goods contracts, and also has broad experience in corporate finance matters and in complex cross-border insolvencies. Baptiste also has a particular interest in green shipping. Prior to joining HFW Baptiste obtained an LLM in maritime law and also spent time working in the industry.

Baptiste speaks English, French and Dutch.

Rear Adm. Jonathan White  
Oceanographer of the Navy, U.S. Navy

Rear Adm. White was born in Panama City, Fla. His father was a World War II Army Air Corps veteran and Purple Heart recipient; his mother supported the war through her work in Oak Ridge, Tenn. His passion for the Navy and oceanography began at age seven, thanks to the influence of a Navy diver who lived next door.

White earned a Bachelor of Science degree in Oceanographic Technology from the Florida Institute of Technology in 1981 and holds a master’s degree in Meteorology and Oceanography from the U.S. Naval Postgraduate School. After working at sea as a civilian oceanographer on board a seismic survey vessel, he was commissioned through Navy Officer Candidate School in 1983, and assigned as a surface warfare officer to USS John L. Hall (FFG 32) in Mayport, Fla.

White joined the oceanography community in 1987. Since then, he has had operational shore assignments at Jacksonville, Fla.; Guam; Monterey, Calif.; and, Stuttgart, Germany, where his joint duty included Special Operations Command Europe, and strike plans officer for U.S. European Command during Operation Allied Force in Kosovo and Serbia. White commanded Naval Training Meteorology and Oceanography Facility, Pensacola, Fla., and was the 50th superintendent of the United States Naval Observatory.

White’s sea tours as a naval oceanographer include commander, Cruiser Destroyer Group 12 where he completed deployments on board USS Saratoga (CV 60), and USS Wasp (LHD 1). White was selected as a flag officer and honorary chief petty officer in 2009 and served as Commander, Naval Meteorology and Oceanography Command. He was promoted to the rank of rear admiral (upper half) in August 2012 as he assumed his current duties, which include director, Task Force Climate Change, and Navy deputy to National Oceanic and Atmospheric Administration.

White wears numerous personal and unit awards, which are all a tribute to the Sailors, Marines, Airmen, Soldiers, Coast Guardsmen, and civilians he has served alongside throughout his career.
Sandra Whitehouse  
**Senior Advisor for Government Affairs, Ocean Conservancy**

Dr. Sandra Whitehouse is a consultant who serves as the Senior Policy Advisor for Ocean Conservancy. She currently focuses on the coastal and marine spatial planning and ocean acidification programs. A longtime environmental advocate and policy advisor who uses her expertise in marine science to help shape environmental initiatives in Rhode Island and on the federal level, Dr. Whitehouse has worked as an environmental consultant for the past fifteen years, providing research, analysis, and advice on environmental policy issues to clients including the Rhode Island General Assembly, the Coastal States Stewardship Foundation and the Ocean Conservancy. Her past work includes serving as the chair of Rhode Island’s Coastal Resources Management Council and she has served on the boards of a number of non profit organizations including Save the Bay, the Nature Conservancy’s Rhode Island chapter, the Metcalf Institute for Marine and Environmental Reporting, the Aquidneck Island Land Trust, Grow Smart Rhode Island, and the University of Rhode Island’s Marine Advisory Council. She is currently a member of the Advisory Board for the Consortium for Ocean Leadership. Dr. Whitehouse holds a B.S. from Yale and a Ph.D. in biological oceanography from the Graduate School of Oceanography at the University of Rhode Island. She lives in Rhode Island and Washington, D.C. with her husband and has two children.

Kathryn Wightman-Beaven  
**Director, Global Corporate Responsibility, DP World [WOC]**

Kathryn Wightman-Beaven is the Director, Global Corporate Responsibility at DP World, responsible for developing and driving forward a strategic approach to corporate responsibility across the organization. She has over 18 years’ experience of working in the public, private and not-for-profit sectors on issues of social change and corporate responsibility. Kathryn worked for The Prince’s Trust, a major UK charity, and also led the development and implementation of the global corporate responsibility strategy for PricewaterhouseCoopers (PwC). She was also responsible for leading and managing a major social change partnership project between PwC and UNHCR focusing on developing educational opportunities for refugees residing in refugee camps in Chad following the violence in Darfur.

Dawn Wright  
**Chief Scientist, ESRI [WOC]**

Dawn Wright (http://dusk.geo.orst.edu/) was appointed Chief Scientist of the Environmental Systems Research Institute (Esri), October 2011. In this role Dawn aids in formulating and advancing the intellectual agenda for the environmental, conservation, climate, and ocean sciences aspect of Esri’s work in geographic information system (GIS) research & development, while also representing Esri to the national/international scientific community.

Dawn also maintains an affiliated faculty appointment as Professor of Geography and Oceanography at Oregon State University. Her current research interests include seafloor mapping and classification, ocean conservation, ocean informatics, GIS data modeling, and science communication. Dawn serves on the US National Academy of Sciences Ocean Studies Board, the NOAA Science Advisory Board, and the new Global Partnership for Oceans Blue Ribbon Panel, as well as many journal editorial boards. She is an American Academy for the Advancement of Science (AAAS) Fellow, as well as a fellow of Stanford University's Leopold Leadership Program. Dawn holds an Individual Interdisciplinary Ph.D. in Physical Geography and Marine Geology from UCSC, an M.S. in Oceanography from Texas A&M, and a B.S. cum laude in Geology from Wheaton College (Illinois).

John Young  
**Director Marine Sound, CSA Ocean Sciences, Inc. [WOC]**

Mr. John V. Young is a seismic expert having spent over 33 years in the research, design, testing and application of seismic imaging technology with ExxonMobil. Prior to his retirement from ExxonMobil, Mr. Young served as Senior Technical and External Network Advisor to ExxonMobil's Marine Access Issue Group. As part of his duties, he served in the role of Executive Committee Chairman to the OGP Joint Industry Programme on Sound and Marine Life (JIP) and as a representative on the European Union workgroup on marine noise.

Immediately preceding this assignment, he served as Seismic Data Acquisition Supervisor for ExxonMobil Upstream Research Company where he was responsible for the supervision of a team of researchers and the oversight of all ongoing research, including seismic sources, multi-component receivers, and computer imaging algorithm development. He shares a patent in bubble technology used to control sound emissions and was a participating author in the March 2005 technical article, "Mitigating Seismic Noise with An Acoustic Blanket" published in the Society of Exploration Geophysicists journal, The Leading Edge. Mr. Young also participated on research addressing new alternative imaging technology such as the use of Marine Vibroseis as a possible supplement or alternative for current seismic airgun technology.

Mr. Young has recently joined CSA Ocean Sciences Inc. in the position of Director of the Marine Sound Business Line. Mr. Young received his Bachelor of Electrical Engineering Technology degree at Old Dominion University in 1978.
Sally Yozell  
Policy Director, U.S. NOAA

As the Director of Policy for NOAA, Ms. Yozell is a principal advisor to the NOAA Administrator on policies, strategies, budgets and long-range plans for the Administration’s initiatives as well as improvements to existing programs. In addition to overseeing the Policy Office, she has been leading NOAA’s policy efforts on Administration priorities such as the National Ocean Policy, renewable energy development, drought preparedness, coastal resiliency and climate adaptation and the streamlining of permits.

Ms Yozell has extensive previous experience in the public, private and non-profit sectors. Prior to her appointment at NOAA, she was the Director of Marine Conservation for the Nature Conservancy covering the eastern United States where she oversaw the development of a science based eco-regional assessment of the Western Atlantic Ocean. She served in the private sector as a Vice President at the Battelle Memorial Institute in their applied marine science group focusing on the restoration of the Florida Everglades and the Gulf of Mexico Ecosystem. First joining NOAA as the Deputy Assistant Secretary, Ms Yozell led many initiatives including restoring the Everglades, and wetlands in the Gulf Coast, fighting invasive species and harmful algal blooms, and protecting coral reefs. She also served as the Executive Director of the 1998 National Ocean Conference, which inspired the creation of two national ocean commissions and lead to the recent National Ocean Policy.

She started her career working in the Senate as a legislative advisor to Sen. John Kerry on marine conservation, energy, environment and appropriations and also worked for the late Congressman Robert F. Drinan. Sally holds a Master’s in Public Administration from Harvard University’s Kennedy School of Government and a bachelor’s in political science from the University of Vermont.

Dan Zimble  
Solutions Engineer, ESRI [WOC]

Dan Zimble is a lead solution engineer for the Esri federal sciences team based in Esri’s Washington D.C. Technology Center in Vienna, Virginia. Dan Zimble has worked in the geographic information systems and remote sensing technologies for over 16 years. Initially pursuing a career in academic research using GIS and remote sensing in ecosystem management, Dan has since followed a career at Esri for over 11 years helping a variety of federal agencies leverage the most of GIS and remote sensing technologies. Current professional interests include real-time GIS and remote sensing, Big Data, and Cloud technologies. Ultimately, Dan hopes to continue contributing to the industry using demonstrations to help communicate the usefulness of GIS towards a more informed decision-making processes.