



# *Blue Vision Summit*

March 7–10, 2009 • Washington, DC

# Welcome to the Blue Vision Summit

Ours is and always has been an oceanic society. From the Bering Sea Land-bridge to the Jamestown settlement to the processing lines of Ellis Island, we have been a tempest-tossed people, a saltwater people, a coastal people.

We have lived well on the abundance of our seas from the earliest canoe tribes setting fish-traps along the Jersey shore to today's giant gantry crane operators unloading container ships in the Port of Long Beach/LA.

In 2004 some 250 of us gathered here in Washington to help promote the sustainable use and protection of our coastline, public seas and global commons.

Since that first Blue Vision Conference the seaweed (marine grassroots) movement has expanded dramatically. People getting so much from the ocean in terms of recreation, transportation, trade, energy, protein, inspiration, awe and wonder are increasingly demonstrating their willingness

to give something back. The public is beginning to understand that the environment we all depend on does not end at the water's edge. In working together to protect 71 percent of our blue planet's surface and 97 percent of its livable habitat we could justifiably argue that Blue is the new Green.

**Our aim should be nothing**

**less than the restoration**

**and reclamation of a healthy**

**living blue ocean and vibrant**

**coastal communities from**

**sea to shining sea.**

Unfortunately, despite some success stories we'll hear about in the coming days, the last five years have seen an ongoing decline in the health of our oceans. Industrial overfishing; nutrient, plastic and chemical pollution of our seas; high-risk and habitat-destroying coastal sprawl and the multiple impacts of fossil-fuel-fired climate change including ocean acidification and an Arctic meltdown are alarming trends that must be dealt with sooner rather than later.

President Obama and Congress are inheriting the worst economy of our lifetimes plus two wars and a climate crisis. With over half the US

Gross Domestic Product generated in our coastal counties we hope, through this Summit, to demonstrate to elected officials and fellow citizens alike the vital role a healthy ocean and coast can and must play in our economy, security and climate response, both in the United States and around the world.

Dedicated watermen and women, working together over the next few days, can begin to turn the tide by offering solutions to save our seas, demonstrate what is already working in the water and promote new US ocean policies based on a comprehensive ecosystem-based approach to our blue frontier.

In a time of great hope and huge challenges there's no room for timidity. Our aim should be nothing less than the restoration and reclamation of a healthy living blue ocean and vibrant coastal communities from sea to shining sea.

David Helvarg  
President, Blue Frontier Campaign





## THE CURTIS AND EDITH MUNSON FOUNDATION



The Henry Foundation



Sponsors and Supporters

## *Partial List of Attending Organizations*

Alaska Longline Fishermen's Association	Forest Trends
Altamaha Riverkeeper	Friends of the Earth
American Meteorological Society	George Mason University
Antarctic and Southern Ocean Coalition	Global Solver Foundation
Beveridge & Diamond, PC	Green Media Toolshed
Blue Frontier Campaign	Greenpeace USA
Blue Ocean Institute	Gulf Restoration Network
California Coastkeeper Alliance	International Longshore and Warehouse Union (ILWU)
Care2.com	International Union for the Conservation of Nature
Center for Consumer Freedom	Joint Ocean Commission Initiative
Center for Health for the Global Environment at Harvard Medical School	Khaled bin Sultan Living Oceans Foundation
Center for Marine Biodiversity and Conservation, Scripps Institution of Oceanography	Marine Conservation Biology Institute
Center for Ocean Solutions	Marine Fish Conservation Network
Clean Ocean Action	Marine Mammal Stranding Center
Clean Virginia Waterways	Miami 2 Maine
Climate Central	Miami University
Coastal America	MK&Co./Fish for the Future Foundation
Conservation Law Foundation	Monterey Bay Aquarium
Cry of the Water	Monterey Bay Aquarium Research Institute
Deep Search Foundation/Google	National Aquarium in DC
Defenders of Wildlife	National Coalition for Marine Conservation
Dorsal Friends	National Geographic Society
Duke University Marine Lab	National Marine Sanctuary Foundation
Earth Island Institute	National Museum of Natural History, Smithsonian
Environmental Defense Fund	National Oceanic and Atmospheric Administration
Environmental Film Festival in the Nation's Capital	National Wildlife Federation
Environmental Working Group	New England Aquarium
	Nicholas School of the Environment, Duke University
	NOAA Oceans and Human Health Initiative

NOAA Office of National Marine Sanctuaries  
Natural Resources Defense Council (NRDC)  
New York Harbor School  
Ocean Champions  
Ocean Conservancy  
Ocean Conservation Research  
Ocean Defenders Alliance  
Ocean Futures Society  
Ocean River Institute  
Oceana  
Office of Rep. Sam Farr, CA-17  
Orange County Coastkeeper  
Pacific Environment  
Pacific Geoscience Centre - NRCAN  
Pacific Institute  
Pacific Marine Conservation Council  
Pew Environment Group  
Pacific Marine Conservation Council  
Port Orford Ocean Resource Team  
Project AWARE Foundation  
Reef Relief  
Restore America's Estuaries  
Richmond Shoreline Citizen Response  
Roz Savage, LLC  
S.D.I./Atlantic Coast Watch  
S.E.A.S.  
San Diego Coastkeeper  
San Francisco Ocean Film Festival  
SandyHook SeaLife Foundation  
Santa Barbara Channelkeeper  
Scripps Institution of Oceanography, UCSD

SeaWeb  
Seventh Generation Advisors  
Shark Trust Wines  
Sheavly Consultants  
Sherman's Lagoon  
Sierra Club  
Smith College  
Strategic Ocean Solutions  
Stratus Consulting  
Surfrider Foundation  
Surfrider Foundation Monterey Chapter  
Surfrider Foundation/DC Chapter  
Texas Coastal Bend Chapter - Surfrider Foundation  
The Aspen Institute  
The Billfish Foundation  
The Nature Conservancy  
The Ocean Foundation  
The Ocean Project  
The Whaleman Foundation  
Tybee Island Marine Science Center  
U.S. Coast Guard  
U.S. Department of State  
UCLA  
United Nations Environment Programme/CMS Secretariat  
Urban Coast Institute  
Virginia Eastern Shorekeeper  
Wallace & Associates  
Waterkeeper Alliance  
WILDCOAST  
World Ocean Observatory/Ocean Classroom Foundation  
Yale University

# Agenda

## Saturday, March 7, 2009

*Location: Google Office, Washington DC*

**1:00–5:00**      **Ocean in Google Earth Workshop**  
Organizer: Google

*Location: Carnegie Institution*

**7:00–10:00**      **Lessons From Explorers: Why Conservation Needs Exploration**  
Organizer: David Guggenheim  
Panelists: Sylvia Earle, Philippe Cousteau, Capt. Phil Renaud (USN Ret.), Roz Savage (Ocean Rower), Enric Sala (National Geographic)  
Refreshments afterwards compliments of Legal Sea Foods and Shark Trust Wines  
Music by Peter Maybarduk

## Sunday, March 8, 2009

*Location: The George Washington University Marvin Center*

**8:30–9:00**      Coffee, tea, danish. Donated treats from Endangered Species Chocolate Co. and Whale Tails Chips

**9:00–9:30**      **Welcome** from Summit Sponsors

**9:30–10:15**      **Keynote Address**  
NOAA Administrator Dr. Jane Lubchenco (invited)

**10:30–12:00**      **Plenary: Climate and Ocean**  
Moderator/Organizer: Mike Hirshfield (Oceana)  
Terry Tamminen (7th Generation), Ove Hoegh-Guldberg (University of Queensland, Australia), Michael Lemonick (Climate Central)

**12:15–1:15**      **Blue Frontier “Peter Benchley” Awards Luncheon**  
Introduction: Wendy Benchley and David Helvarg  
Categories:  
✦ Science: Jeremy Jackson and Nancy Knowlton (Scripps). Presented by Enric Sala (National Geographic)  
✦ Media: Mark Shelley (Sea Studios). Presented by Philippe Cousteau (Earth Echo)  
✦ Youth Award: Zander Srodes (sea turtle champ). Presented by Wallace “J.” Nichols (Ocean Revolution)  
✦ Hero of the Seas: Richard Charter (OCS Coalition). Presented by Warner Chabot (CA. LCV)  
✦ Policy: Rep. Sam Farr (D-CA). Presented by David Wilmot (to be presented the following day)

**1:30–2:45**

**Breakout Sessions / Panels (1)**

**Clean Ocean Energy**

Moderator: Jack Sterne (Rising Tides Strategies)

Panelists: Tom Jensen (Attorney for Ocean Energy Developers), Amanda Leland (Environmental Defense Fund), Jim McElfish (Environmental Law Institute)

**The Ocean and Human Health**

Moderator: Kathleen Frith (Harvard)

Panelists: Carolyn Sotka (NOAA), Bill Gerwick (Scripps), Kim Warner (Oceana)

**The Future of Sustainable Seafood**

Moderators: Bruce Stedman (MFCN), Kathryn Mengerink (ELI), (double session on aquaculture, forage fish and fishing)

Panelists: Linda Behnken (Alaska Longline Fisherman's Association), Chris Mann (PEW Environment Group), Chris Dorsett (Ocean Conservancy), Neil Simms (Kona Blue aquaculture company), John Field (NOAA), Laura Cantral (Meridian Institute – Joint Ocean Commission Initiative)

**Renewing America's Global Leadership on Oceans**

Moderator: Dr. Biliانا Cicin-Sain (University of Delaware and Global Forum on Oceans, Coasts and Islands)

Panelists: Carl Gustaf Lundin (IUCN), Robert Hepworth (UNEP Convention on Migratory Species), Dr. Indumathi Hewawasam (The Nature Conservancy)

**3:00–4:15**

**Breakout Sessions / Panels (2)**

**Coastal Adaptation to Climate Change**

Moderator: Adina Abeles (Center for Ocean Solutions)

Panelists: Dr. Amanda Staudt (National Wildlife Federation), Tony MacDonald (Monmouth University), Matt Heberger (Pacific Institute)

**Solutions to Pollution & Marine Debris**

Moderator: Cindy Zipf (Clean Ocean Action)

Panelists: Steve Fleischli (President, Waterkeeper Alliance), Marcus Erikson and Joel Paschal (Algalita Marine Research Foundation/Junk Raft sailors), Richard Charter (OCS Coalition)

**Marine Education**

Moderator: Leslie Tamminen

Panelists: Francesca Cava (National Geographic), Adam Frederick (President, National Marine Educators Association), Ian Sanchez (South Carolina Low Country Environmental Education), Steve Miller [Google 5.0 (Google Ocean)]

**The Future of Sustainable Seafood** (double session continues)

**4:30–5:45**

**Plenary: Seaweed Success Stories**

Moderator: Nancy Knowlton (Smithsonian Institution)

Panelists: Todd Miller (North Carolina Coastal Federation)—6,000 acre wetland restoration project in NC; Steve Palumbi (Director Hopkins Marine Station)—The story of the recovery of Monterey Bay, CA; Greg Stone (NE Aquarium)—How the world's largest ocean wilderness reserve was established in Kiribati; Leesa Cobb (Port Orford, Oregon)—How a small group of fishermen brought ecosystem management to the ocean

**5:45–6:15**

**Author Bill McKibben** (*End of Nature, Deep Economy*) on climate actions needed to save the ocean and the land

*Location: Smithsonian Museum of Natural History Sant Ocean Hall***7:00–10:00      Celebration of the Sea Evening Event**

Food, drinks, speakers, entertainment. Music by Mark Holmes.

Sponsored by Khaled bin Sultan Living Oceans Foundation

**Monday, March 9, 2009***Location: The George Washington University***8:15–8:45**      Coffee, tea, danish**8:45–10:30      Plenary: Advancing Federal Ocean Policy in the 111th Congress and the Obama Administration**

Moderator: David Wilmot (Ocean Champions)

White House Council on Environmental Quality Chair Nancy Sutley, Senator Sheldon Whitehouse (D-RI), Rep. Sam Farr (D-CA), Delegate Madeleine Bordallo (Guam)

**10:45–12:15      Plenary: State and Regional Initiatives**

Moderator: Sarah Chasis (NRDC)

California Secretary for Natural Resources Mike Chrisman, New York Deputy Secretary of State George Stafford, Massachusetts Undersecretary for Oceans and Coasts Deerin Babb-Brott

**12:30–2:00      Blue Beat Media Luncheon**

Moderator: David Helvarg (Blue Frontier Campaign)

Panelists: Joel Bourne (National Geographic), Tim Wheeler (The Baltimore Sun), Radio Reporter (NPR), Anne Thompson (NBC Nightly News)

**2:15–3:30      Breakout Sessions / Panels (1)****Greening Ports and Shipping**

Moderator: Jackie Dragon (Pacific Environment)

Panelists: David Pettit (NRDC), Joe Radisich (Vice President, International Longshore and Warehouse Union), Dr. Naomi Rose (Humane Society), Joe Cox (Chamber of Shipping of America)

**The Arctic Meltdown: What a Changing Arctic Means for Our Ocean Planet**

Moderator : Thomas E. Lovejoy (The Heinz Center)

Panelists: Stephanie Pfirman (Columbia University), John Oliver (U.S. Coast Guard), Michele Longo Eder (U.S. Arctic Research Commission), Richard W. Spinrad (Office of Oceanic and Atmospheric Research, NOAA)

**Market Strategies for the Ocean**

Moderator: Ned Daly (SeaWeb's Seafood Choices Alliance)

Panelists: Randy Hayes (Founder, Rainforest Action Network), John Hocesvar (Greenpeace Ocean Program), Laura Holley (MOM'S – My Organic Market)



**3:45–5:00 Breakout Sessions / Panels (2)**

**Ocean Funding Workshop**

Zeke Grader (Pacific Coast Federation of Fishermen's Associations), Jean Flemma (Consultant, House Natural Resources Committee)

**Workshop on Field Organizing**

Buck Bagot (Blue Frontier Campaign), John Weber (Surfrider Foundation)

**Artists and Writers for the Sea**

Moderator: Melanie Marks (Shark Trust Wines)

Panelists: National Geographic photographer Brian Skerry, Marine Artist Wyland, Sherman's Lagoon Cartoonist Jim Toomey, Authors Carl Safina and Deborah Cramer

**5:00–5:30 Training for Hill Day Visits** or break

Trainer: Eric Rardin (Care2.com)

**5:30–6:45 Plenary: Blue Vision and Beyond**

A summing up of keystone issues/solutions for the Ocean Movement to take to elected officials and to take home

*Location: Science Club*

**8:00–11:00 Celebration of the Sea Second Evening Event**

Surf films, ocean-themed drinks and other treats

Organized by DC Chapter Surfrider Foundation

**Tuesday, March 10, 2009 Hill Day**

*Location: Capitol Hill*

Organizer: House Ocean Caucus

Rep. Sam Farr's and Senator Barbara Boxer's offices providing Hill space and lead

**9:00AM Meeting**

Meet on Capitol Hill with House Ocean Caucus members, others

**10:30–4:00 Visits**

Visits to Representatives and Senators

**4:30–5:30 Reconvene and discuss—Environment and Public Works room (Dirkson—406)**

Evening Transition to DC Environmental Film Festival—2009 Ocean Theme

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

## Speakers

**ADINA ABELES** is the Planning Director for the Center for Ocean Solutions where she is developing the Center's long-term strategic initiatives on climate change and the coasts and oceans. Before joining the Center, Adina was the California Program Manager for COMPASS where she worked to connect marine science and scientists to marine policy, and trained scientists to communicate their work to both the media and the public. Previously, Adina taught SCUBA diving, built backcountry trails, and taught outdoor education and maritime history. She received her BA in Ecology from Cornell University and her Master's in Environmental Science and Management from the University of California, Santa Barbara.

**DEERIN BABB-BROTT** is Assistant Secretary for Ocean and Coastal Zone Management and Director, Massachusetts Office of Coastal Zone Management. Deerin has 18 years of experience in the environmental field, with a focus on coastal management issues and environmental impact review. As Assistant Secretary in the Executive Office of Energy and Environmental Affairs, he is managing the development of an ocean management plan for Massachusetts' waters, under the Oceans Act of 2008. Deerin previously served as Assistant Secretary for Environmental Impact Review and Director of the Massachusetts Environmental Policy Act, managing the environmental review of major development projects in the Commonwealth. Before joining MEPA, he worked in the MA Office of Coastal Zone Management, serving most recently as the Assistant Director for Planning and Coastal Development. Deerin has a BA in Government and Environmental Studies from Bowdoin College; he lives with his wife and two daughters in Ipswich, MA and surfs at Good Harbor Beach in Gloucester.

**BUCK BAGOT** is the Principal at Bagot and Company Field operation organizing for Congressional advocacy campaigns. The company's primary client is the Corporation for Supportive Housing, a national nonprofit supporting the development of special needs housing for chronically homeless, disabled people. He has facilitated a 50 percent increase (over \$1 billion) in HUD McKinney-Vento Homeless Assistance Program appropriations. Buck has organized and directed community policing/street violence reduction projects, helped residents of HUD-subsidized housing remove violent drug dealers from their developments, as well as establish social service programs. He conceived and led Alemany Violence Abatement Campaign that has led to a 50 percent reduction in violent crime at the Alemany public housing development in San Francisco, and the Bernal heights Neighborhood Center's selection to rebuild the development. Additionally, Buck helped organize successful HUD-subsidized low-income housing preservation campaigns for Faith Action for Community Equity in Honolulu, HI, a member of the Gamaliel Foundation. Buck is also a field organization advisor to the ocean advocacy group, Blue Frontier Campaign.

**LINDA BEHNKEN** first traveled to Alaska in 1982. She was hooked (literally and figuratively) after a summer working on a small family owned and operated longliner out of Sitka. Ms. Behnken has worked on fishing boats in the Gulf of Alaska and Bering Sea ever since—both as a deckhand and, since 1991, as the owner/operator of a small troller/longliner. In 1990 she earned a master's from the Yale School of Forestry and Environmental Science. Ms. Behnken has been the Executive Director of Alaska Longline Fishermen's Association since 1991, and served on the North Pacific Fishery Management Council from 1992–2001.

**WENDY BENCHLEY** spent 40 years on the ocean with her late husband, Peter Benchley, making films about marine animals and ocean conservation issues. She co-founded the New Jersey Environmental Federation in the 1980s and was a board member of Environmental Defense Fund for 18 years. In the early '90s she was elected to the Mercer County New

Jersey Board of Freeholders and served for three years. In 1996 she was elected as a Princeton Borough Councilwoman and served until 2008. Ms. Benchley is currently working on ocean conservation issues with special emphasis on the devastation of shark populations around the world.

**CONGRESSWOMAN MADELEINE Z. BORDALLO** became the first woman to represent Guam in the U.S. House of Representatives in 2003. Ms. Bordallo brings to Congress over forty years of public service experience in the executive and legislative branches of the Government of Guam and non-governmental organizations. The 111th Congress is Ms. Bordallo's fourth term. Speaker Nancy Pelosi has appointed Ms. Bordallo to continue her service on the House Committee on Natural Resources and on the House Armed Services Committee. Ms. Bordallo will also continue her service as Secretary of the Congressional Asian Pacific America Caucus (CAPAC) as well as Chair of the Healthcare Task Force for CAPAC. Congresswoman Bordallo began her public career with local radio and television broadcaster KUAM in 1954. Her involvement in the community has also been extensive, with Bordallo founding the Guam Council of Women's Clubs, the Guam Symphony Society, Y Inetnon Famalaoan (Women for Service), and the Marianas Association for Persons with Disabilities. She was also a past President of the Federation of Asia Pacific Women's Associations and has been in dozens of leadership roles in community organizations throughout her life.

**JOEL BOURNE** is a contributing writer for National Geographic. A former Senior Editor for the Environment, he's covered major environmental issues for the magazine, including oil exploration on Alaska's North Slope, the future of New Orleans, and the rush to biofuels. He's broken several stories in the national media, including the results of the only oil well drilled in the Arctic National Wildlife Refuge, and the weaknesses in New Orleans' rebuilt hurricane protection system. Most recently, Bourne was text editor and essayist for National Geographic's special issue on climate change, and a contributor to the book *Visions of Paradise*. Bourne has appeared on numerous television and radio programs. Prior to his tenure at National Geographic, Bourne's work appeared in Audubon, Science, Outside, and many other publications.

**LAURA CANTRAL** is a Senior Mediator with Meridian Institute. Working in Meridian's Washington, DC office, Laura devotes much of her time to the Joint Ocean Commission Initiative and other ocean policy related projects. Prior to joining Meridian, Laura was the Associate Director for Governance for the U.S. Commission on Ocean Policy, a presidential commission appointed in 2001 to develop recommendations to the President and Congress on improving the use and management of ocean and coastal resources. From 1998–2000, she also served as staff for the Florida Governor's Ocean Committee, appointed by the late Governor Lawton Chiles to make recommendations about how to improve management of Florida ocean and coastal resources. With a background in marine law, Laura has extensive experience working on ocean and coastal policy issues at the state, regional, and national levels.

**FRANCESCA M. CAVA** currently serves as the Environment and Ocean Literacy Project Manager for the National Geographic Society's Education Foundation. She is NGS' lead in the partnership with California to develop and promote California's Education and the Environment Initiative. Formerly, Ms. Cava also took a lead role in the development of the "Oceans for Life" and "Ocean Literacy" projects that have aligned ocean concepts with National Education Standards developed in partnership with the Federal Government and other educational institutions like Sea Grant, Lawrence Hall of Science, Monterey Aquarium. While working with the National Oceanic and Atmospheric Administration she became

the first woman promoted to the rank of Captain and served in several command positions aboard NOAA's research vessels. She served as Commissioner of the California Coastal Commission, and as Director of the National Marine Sanctuary and National Estuarine Research Reserve Program. Ms. Cava received her B.S. degree in Mathematics from the University of Alaska and an M.P.A. degree from Harvard University.

**WARNER CHABOT** became the Chief Executive Officer of the California League of Conservation Voters (CLCV) in January 2009. For more than 30 years, Chabot has managed successful regional, state, and national campaigns to elect progressive candidates and achieve landmark environmental laws and policies. Chabot comes to CLCV from the Ocean Conservancy, where he served as Vice-President for Campaign Strategies and, previously, as Vice President for Regional Operations.

**RICHARD CHARTER** serves as Co-Chair of the National Outer Continental Shelf (OCS) Coalition, and he has been working for nearly three decades with local elected officials, Members of Congress, state legislators, and NGO conservation organizations to ensure continued protection for sensitive coastlines threatened by offshore oil and gas drilling. Richard was responsible for developing the twenty-seven-year bipartisan congressional moratorium on offshore oil and gas leasing which, until this year, has prevented new drilling along the U.S. West Coast, the East Coast, and in Southwest Florida. Richard also coordinated the local government support, which led to the creation of the Gulf of the Farallones, Cordell Bank, Channel Islands, and Monterey Bay National Marine Sanctuaries. He currently works for Defenders of Wildlife on ocean protection issues throughout the Pacific Rim and serves on the Department of Energy's Methane Hydrates Advisory Committee. Richard also currently Chairs the Gulf of the Farallones National Marine Sanctuary Advisory Council.

**SARAH CHASIS** is a senior attorney at the Natural Resources Defense Council, Inc. and serves as Director of its Ocean Initiative. She has been a long-time advocate for healthy oceans. She has worked to protect sensitive ocean areas from offshore oil drilling, improve oil spill prevention, protect the public from swimming in polluted waters, and strengthen domestic and international fisheries management. In recognition of her work, Ms. Chasis was selected as the first Coastal Steward of the Year by the National Oceanic and Atmospheric Administration. She has served on numerous boards and commissions, including the Marine Board of the National Research Council, and is currently adjunct professor of law at the New York University School of Law. In 2007, she received the Smith College Medal awarded to women who have risen to the top of their fields.

**MIKE CHRISMAN**, a fourth generation Californian, was named California Secretary for Natural Resources by Gov. Schwarzenegger in November 2003. As a member of the governor's cabinet, Secretary Chrisman serves as his chief advisor on issues related to the states' natural, historic, and cultural resources. He also chairs the California Ocean Protection Council. In leading the Natural Resources Agency, Secretary Chrisman oversees policies, activities, and a budget of \$6.1 billion and 17,000 employees in 25 departments, commissions, boards and conservancies. The issues run the natural resources gamut from conservation, water, fish and game, forestry, parks, energy, coastal, marine and landscape. Prior to his appointment, Secretary Chrisman served as Region Manager for Southern California Edison from 1996 to 2003. Secretary Chrisman holds a Master of Science degree in Agricultural Education and a Bachelor of Science degree in Agronomy and Plant Science from the University of Arizona. He is an owner and partner of Visalia's Chrisman Ranches, a family ranching and farming business in Tulare County.

**BILIANA CICIN-SAIN** (Ph.D. in political science, UCLA, postdoctoral training, Harvard University) is Director of the Gerard J. Mangone Center for Marine Policy and Professor of Marine Policy at the University of Delaware's College of Earth and Marine Studies, and Editor-in-Chief of the international journal *Ocean & Coastal Management*. She is a leader in the field of integrated coastal and ocean governance and has forged international collaboration among all sectors of the international oceans

community. Dr. Cicin-Sain is Co-Chair and Head of Secretariat of the Global Forum on Oceans, Coasts, and Islands and has served as a policy advisor to: UNESCO's Intergovernmental Oceanographic Commission, World Bank, UNEP, Inter-American Development Bank; Governments of Albania, Canada, Colombia, Ecuador, Indonesia, R.O. Korea, United States, Vietnam; and U.S. coastal states and counties. She is the author of over 100 publications in marine policy, with an emphasis on cross-cutting issues related to integrated ocean and coastal governance. Dr. Cicin-Sain served in NOAA and the Department of Housing and Urban Development; was a professor at the University of California, Santa Barbara (UCSB); founder and director of UCSB's Ocean and Coastal Policy Center; and a researcher at the Woods Hole Oceanographic Institution, the Intergovernmental Oceanographic Commission, and at the East-West Center in Hawaii. She was born in Italy and spent her early years in Argentina. She speaks English, Spanish, and French fluently, as well as some Italian, Serbo-Croatian, Russian, and Portuguese.

**LEESA COBB** is the Executive Director of Port Orford Ocean Resource Team (POORT), a community-based fisheries organization on the southern Oregon coast. The mission of the organization is to engage Port Orford fishers and other community members in developing and implementing a strategic plan and framework that ensures the long-term sustainability of the Port Orford marine ecosystem and social system dependent on it. Leesa and her husband own a commercial fishing boat and fish for blackcod, tuna, salmon, rockfish, and halibut out of Port Orford. She worked five years for the Groundfish Disaster and Salmon Disaster Programs.

**PHILIPPE COUSTEAU** is the 29-year-old son of Jan and Philippe Cousteau Sr., and the grandson of Captain Jacques-Yves Cousteau. As a member of the legendary family, Philippe is continuing the work of his father through EarthEcho International, a non-profit organization he founded with his sister and mother and of which he serves as CEO. EarthEcho is focused on youth leadership and education around ocean conservation. Philippe is the Chief Ocean Correspondent for Animal Planet, where he works on various ocean and water-focused documentary programs, including "Ocean's Deadliest," which he completed after his co-host Steve Irwin was fatally wounded during their expedition. Philippe is currently a host for Oceans, a new High Definition Discovery Channel/BBC co-production that explores the state of our world's oceans and major seas. He is the host and narrator for his own one hour special on Discovery Channel called The Loch Ness Monster Revealed, premiering in Feb 2009. Philippe is also hosting, narrating and co-producing a 3D Imax film on the Chesapeake Bay for 2010.

**JOSEPH J. COX** graduated from the U.S. Merchant Marine Academy on February 10, 1967 and within a few days sailed for Vietnam. He spent two years on the Vietnam sealift and several years sailing as second and third mate to other parts of the world. He returned to the academy for one year to help institute a new midshipman leadership program. After leaving the Academy, he worked for the Maritime Standards Office of the Department of Labor where he eventually became a Program Manager of the Cargo Gear Certification Program. He then accepted a position as Marine Coordinator at the American shipowners' association, the Chamber of Shipping of America, and was elected President/CEO in 1997. Mr. Cox has a Master's degree in Safety Management from the University of Southern California and was an adjunct professor at Northern Virginia Community College and Prince George's Community College for ten years. He has attended over seventy meetings of the International Maritime Organization on the U. S. delegation. He is the U.S. shipowner representative to the International Labor Organization in Geneva. He serves as President/Treasurer of the Marine Gas Hazards Control Program, is a member of the Society of Naval Architects and Marine Engineers, is Vice President of the International Cargo Gear Bureau and is Chairman of the Executive Committee of the National Cargo Bureau.





**DEBORAH CRAMER**, Al Gore wrote of Deborah Cramer's previous book, *Great Waters*, "I urge everyone to read this book, pass on its teachings, and act on its message." Her new book, *Smithsonian Ocean: Our Water Our World* is the companion to the new Sant Ocean Hall at the National Museum of Natural History, the nation's most heavily visited museum. Of this book, biologist and two time Pulitzer Prize winner E. O. Wilson said: "Authoritatively researched, clearly written and beautifully illustrated, this book is best in its class." Cramer, a visiting scholar at MIT's Earth System Initiative, lives by the edge of the sea in Gloucester, MA.

**NED DALY** is the Seafood Choices Alliance North American Director. In this position, Ned will support the Alliance's corporate sustainable seafood initiatives in the North American marketplace and work to find global solutions to threats facing ocean ecosystems, communities dependent on those resources and the industries they support. Ned has previously worked on developing sustainable markets in some equally challenging industries. Previous to joining SeaWeb, Ned was Director of RugMark International, a certification program for child-labor free rugs coming from Southeast Asia. Prior to that, he was Chief Operating Officer for the Forest Stewardship Council-US. Ned has also worked on sustainable markets in the agricultural sector and the relationship between resource extraction and ecosystem health. Ned lives in a coastal Maine community where the impact of fisheries management and dwindling resources is felt directly.

**CHRIS DORSETT** is Ocean Conservancy's Vice President for Fishery Conservation and Management. Chris oversees their fish conservation efforts with the goal of achieving healthy fish populations and marine ecosystems. He works to increase public awareness of overfishing problems nationwide and to develop and implement practical solutions for rebuilding depleted fish populations. He is leading Ocean Conservancy's

efforts to build broad public support for fish conservation. Chris has a background in marine fisheries science and environmental law. He is currently a member of the Department of Commerce's Marine Fisheries Advisory Committee that provides advice on living marine resource issues to the Secretary of Commerce. He is based in Ocean Conservancy's Gulf of Mexico regional office in Austin, Texas.

**JACKIE DRAGON** heads up the Marine Sanctuaries Campaign at Pacific Environment, an organization that promotes grassroots communities to have a larger voice in environmental decision-making and protects the environment around the Pacific Rim. The Marine Sanctuaries Campaign advances ocean conservation by engaging local residents, students, policy-makers, and the media in protecting California's marine sanctuaries from large vessel traffic, particularly from increased ocean noise. A seasoned social and political activist, Jackie draws on successful organizing experience with California's fastest growing union for healthcare workers. She has conducted numerous campaigns, successfully organizing over 10,000 caregivers employed by some of the nation's largest healthcare corporations. A certified diver since 1993 and life-long water lover, Jackie now turns her twenty years of experience mobilizing individuals and groups to proactively advocate for healthy public oceans.

**SYLVIA EARLE**, called "Her Deepness" by the New York Times and a "Living Legend" by the Library of Congress is an oceanographer, explorer, author, and lecturer with experience as a field research scientist. Former chief scientist of NOAA, Earle is president of Deep Search International and chair of the Advisory Council for the Harte Research Institute for Gulf of Mexico Studies. She has a B.S. from Florida State University, an M.S. and a Ph.D. from Duke University, and 15 honorary degrees. She has authored more than 150 scientific, technical, and popular publications, lectured in more than 60 countries, and appeared in hundreds of television pro-

ductions. Earle is the author of many books on the ocean, including *Sea Change: A Message of the Oceans* and, most recently, *Ocean: An Illustrated Atlas*, with Linda K. Glover. Earle has led more than 60 expeditions and logged more than 6,000 hours underwater, including leading the first team of women aquanauts during the Tektite Project in 1970 and setting a record for solo diving to a depth of 1,000 meters (3,300 feet).

**MICHELE LONGO EDER** received her B.A. from The Johns Hopkins University in 1976 and her law degree from Lewis and Clark in Portland, Oregon in 1979. She has practiced law for 30 years on the Oregon Coast, representing, among other clients, commercial fishing businesses and their associations. Michele has been a partner with her husband, Bob Eder in a family owned commercial fishing business for 20 years. A two-term member of the U.S. Arctic Research Commission, Michele was appointed by President George W. Bush in 2004, and will continue to serve until 2012. The jurisdiction of the Commission includes the Bering Sea as well as the Arctic. Since 2005, she has also been a member of the North Pacific Research Board. In 2009, Michele was appointed as a member of the National Commercial Fishing Vessel Safety Advisory Committee. In 2008, Michele published her first book, entitled "Salt in Our Blood: The Memoir of a Fisherman's Wife."

**MARCUS ERIKSEN** received his Ph.D. in Science Education from University of Southern California, and his M.A. and B.S. from the University of New Orleans. During this academic career Marcus worked many different jobs, ranging from Research Assistant in University of New Orleans Vertebrate Paleontology Lab to Educator and Exhibit Supervisor at the Los Angeles Zoo. He teaches and conducts research in earth science, lectures at schools and museums and supervises an annual field course in paleontology in Wyoming. Currently he is AMRF's Director of Research and Education and hosts "Commando Weather," a series of public service announcements about the science of weather, for the Weather Channel. In 2006, he won the H. David Nahai Water Quality Award in Education, presented by the Los Angeles Regional Water Quality Control Board. In 2005, Marcus created Watershed Wonders, an educational video series packaged with curriculum materials for Junior and Senior High Schools. Marcus recently published his first book, titled "My River Home" (Beacon Press, 2007) chronicling his experience as a marine in the 1991 Gulf War and a rafting journey 2000 miles down the Mississippi River on a raft of plastic bottles.

**CONGRESSMAN SAM FARR**, a fifth-generation Californian, represents the state's beautiful Central Coast, encompassing Monterey County's majestic Big Sur coastline, the Monterey Bay National Marine Sanctuary and the beaches of Santa Cruz County. Rep. Farr, known for his passion for ocean issues, has worked tirelessly to bolster the nation's ocean resources. His most notable legislation is the "Oceans Conservation, Education, and National Strategy for the 21st Century Act," known as Oceans-21. The comprehensive reform bill would create a national ocean policy for the first time and creates national and regional advisory boards and a Cabinet-level National Ocean Advisor. Rep. Farr has also introduced bills regulating cruise ship dumping and promoting the recovery of the Southern Sea Otter.

**JOHN FIELD** is a Research Fishery Biologist with the Southwest Fisheries Science Center in Santa Cruz, California. He received his undergraduate degree from the University of California in Santa Cruz in 1994, and a Masters in Marine Affairs from the University of Washington in 1997. In 1998 he was a Knauss Sea Grant Fellow with the House Resources Committee, but returned to graduate school to seek a doctorate from the University of Washington in 1999, where his research explored ecosystem modeling and management approaches for the California Current. Current activities include developing stock assessment models and management advice for West Coast groundfish fisheries, as well as investigating the ecology and trophic interactions of jumbo squid in the California Current.

**STEVE FLEISCHLI** assumed the role of President of Waterkeeper Alliance from Robert F. Kennedy, Jr. in June 2007. Mr. Fleischli held the position

of Executive Director of Waterkeeper Alliance from 2003 to 2007. During that time, he led the organization through enormous growth, including the expansion of the Waterkeeper grassroots model to 162 communities across six continents. As Executive Director and Baykeeper for the Santa Monica Baykeeper Steve sued the City of Los Angeles for its illegal discharges of raw sewage into local waters—which resulted in a finding that the City violated federal laws more than 3,600 times and eventually led to a \$2 billion settlement agreement for restoration of the city's sewage infrastructure. Steve also has helped draft and secure passage of numerous California state legislative measures. Steve has served as an Adjunct Professor at Pepperdine University School of Law and as President of the California Coastkeeper Alliance, a member of the Los Angeles/Long Beach Harbor Safety Committee, a member of the Steering Committee for the City of Los Angeles' Integrated Resources Plan and was a founder and is the current President of Energy Independence Now, a non-profit organization dedicated to a clean, renewable energy and transportation in California. He holds a law degree from UCLA School of Law and a Bachelor's Degree with honors from the University of Colorado, Boulder, with majors in Environmental, Population & Organismic Biology; Economics; and Environmental Conservation. He is also the author of a novel about violence in American high schools, *My Sweet Butterfly* (2006).

**J. ADAM FREDERICK** is a Marine Education Specialist with Maryland Sea Grant Extension Program at the University of Maryland, where he helps develop interactive lessons for the website and is the co-editor of *The Headwater* newsletter. He serves as an education collaborator at the Center of Marine Biotechnology at the University of Maryland Biotechnology Institute. He works with 3rd to 12th grade students and teachers and the National Aquarium Conservation Education department in aquaculture projects to promote habitat restoration. His signature education programs include the Chesapeake Teacher Research Fellowship that gives teachers the opportunity to work alongside research scientists, and the Aquaculture in Action program that places aquaculture systems into the formal classroom as tool for teaching science. He received his B.S. in Biology/Education from Slippery Rock University, PA and an M.S. in Environmental Biology from Hood College in Frederick, Maryland. Mr. Frederick spent 22 years teaching biology, chemistry, and environmental science. He is now the current President-Elect of the National Marine Educators Association.

**KATHLEEN FRITH** is the Assistant Director of the Center for Health and the Global Environment at Harvard Medical School where her work focuses on improving communication and public understanding of human health and global environmental change connections. She co-directs a Healthy and Sustainable Food Program promoting a food system that is both healthy for humans and the environment, and directs a Healthy Ocean, Healthy Humans program that inspires people to realize how human health depends upon marine ecosystems. She served as Executive producer of the Award-winning film *Once Upon a Tide*. Kathleen was the Public Information Officer for the Bermuda Biological Station for Research. She holds degrees in marine biology from the University of California Santa Cruz and in science journalism from Boston University's Knight Center for Science Journalism. Kathleen fills advisory roles in a number of science education and communication projects, and has published articles, as well as peer-reviewed journals.

**WILLIAM (BILL) GERWICK, Ph.D.** is a Professor of Oceanography and Pharmaceutical Sciences at Scripps Institution of Oceanography and Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of California San Diego. His research focuses on the discovery of novel bioactive natural products from marine algae and cyanobacteria, especially those with anticancer, anti-tropical disease or neurotoxic properties. He has contributed to the development of bio-fuels from marine algae and cyanobacteria. Dr. Gerwick received a B.S. in Biochemistry from the University of California Davis, and a Ph.D. in Oceanography from the Scripps Institution of Oceanography. He held a postdoctoral position in the



School of Pharmacy at the University of Connecticut, and then became Full Professor at the College of Pharmacy, Oregon State University.

**W.F. “ZEKE” GRADER, JR.** grew up in the fishing industry along California’s north coast. He worked in fish processing plants while in high school and college and managed a plant while in law school. After passing the bar and graduating from law school he went to work in 1976 for the newly-formed Pacific Coast Federation of Fishermen’s Associations—a collection of mostly fishermen’s marketing organizations in California with some membership in Oregon and Washington. In his 33 years with the PCFFA Grader has served in a number of roles, including the first chair of the Pacific Fishery Council’s Salmon Advisory Sub-panel, a member of the Secretary of Commerce’s Marine Fisheries Advisory Committee and, more recently, as a member of the executive committee of the Marine Fish Conservation Network. Although a trade organization, PCFFA has made the restoration of fish habitat and conservation of fish stocks its primary effort. In 1998, Grader was named an “Environmental Hero” by the Department of Commerce recognizing his work and that of the PCFFA championing the protection of fish stocks and fishing men and women.

**DAVID E. GUGGENHEIM** is a marine scientist, conservation policy specialist, sub pilot and ocean explorer. He is president of the nonprofit organization 1planet1ocean, dedicated to building international partnerships for marine conservation. Guggenheim is also an independent consultant in conservation policy and science. Also known as the “Ocean Doctor” and host of the ExpeditionCasts podcast series, Dr. Guggenheim is currently engaged in an “expedition” to all fifty U.S. states to speak to students about the oceans. He recently served as a scientific advisor to Greenpeace for its expedition to map deepwater corals in the Bering Sea where he piloted the first-ever manned submersible dives into the Bering Sea’s largest underwater canyons. He is currently leading the first-ever comprehensive research and conservation program in Cuba’s Gulf of Mexico region and played a lead role in building the newly-formed Gulf of Mexico Alliance, a partnership among the U.S. Gulf states, 13 federal agencies and Mexico. Guggenheim is also working with Aquaculture Developments, LLC to introduce technologies for sustainable aquaculture practices to the Americas. Guggenheim previously served as Vice President at The Ocean Conservancy, President & CEO of The Conservancy of Southwest Florida, co-chair of the Everglades Coalition and president of the Friends of Channel Islands National Park. Guggenheim holds a Ph.D. in Environmental Science and Public Policy from George Mason University in Virginia.

**RANDY HAYES**, founder of Rainforest Action Network, works from the U.S. as a climate policy officer at the World Future Council. Based in Hamburg, Germany, the World Future Council is a global forum composed of 50 respected individuals from around the world championing the rights of future generations and working to ensure that humanity acts now for a sustainable future. Hayes has a Master’s degree in Environmental Planning from San Francisco State University. His master’s thesis, the award-winning film *The Four Corners*, won the Academy of Motion Picture Arts and Sciences award for “Best Student Documentary” in 1983. He contributed to *Alternatives to Economic Globalization: A Better World is Possible*, published by San Francisco: Berrett-Koehler Publishers, Inc., in 2004. Not satisfied with short-term thinking, his 500-year plan offers a vision of a sustainable society and how to get there. Randy Hayes has been described in the *Wall Street Journal* as “an environmental pit bull.”

**MATHEW HEBERGER** is a researcher at the non-profit Pacific Institute in Oakland, California. He has degrees from Cornell and Tufts Universities in engineering and hydrology, and is a licensed professional engineer. He’s spent the last 10 years working on water issues as a consulting engineer, in water policy in Washington DC, and as a hygiene and sanitation educator in West Africa. He’s currently researching issues related to water supply and water quality, the nexus between water and energy, and impacts of climate change on water resources.

**DAVID HELVARG** is President of the Blue Frontier Campaign and the author of four books, *Blue Frontier*, *The War Against the Greens*, *50 Ways to Save the Ocean* and *Rescue Warriors*. He’s editor of the *Ocean and Coastal Conservation Guide*, organizer of several ‘Blue Vision’ Summits for ocean activists, and winner of *Coastal Living Magazine’s* 2005 Leadership Award and the 2007 Herman Melville literary Award. Helvarg worked as a war correspondent in Northern Ireland and Central America, covered a range of issues from military science to the AIDS epidemic, and reported from every continent including Antarctica. An award-winning journalist, he’s produced more than 40 broadcast documentaries for PBS, The Discovery Channel, and others. His print work has appeared in publications including *The New York Times*, *LA Times*, *Smithsonian*, *Popular Science* and *Sierra*. He’s done radio work for Marketplace, AP radio, and Pacifica. He’s led workshops for journalists in Poland, Turkey, Tunisia, Slovakia and Washington DC. David is also a licensed Private Investigator, body-surfer and scuba diver.

**ROBERT HEPWORTH** is the Executive Secretary of the UNEP / Convention on Migratory Species (CMS). An advocate of conservation, he set up the Scientific Task Force on Avian Influenza and the Environment, created partnerships at UNEP on great ape and tropical forest conservation (GRASP), and on coral reefs in developing countries. He served as Deputy Director for Environment Conventions at UNEP headquarters in Nairobi. Prior to his involvement with UNEP, Mr. Hepworth was a British civil servant for 25 years. His most recent UK post was as Head of global wildlife policy and executive division (now DEFRA). He was also appointed by the Government of Finland to chair the independent review into Finnish State Environmental Agency (FEI) and was elected Chair of the Convention on International Trade in Endangered Species–CITES (June 1997–April 2000). In 1995, Mr. Hepworth conceived and co-chaired the Partnership for Action against Wildlife Crime (PAW) with UK police authorities and NGOs, now an established model for effective joint action to enforce wildlife laws in UK.

**INDUMATHIE HEWAWASAN** serves as The Nature Conservancy’s Senior Policy Advisor on Public Funding for the Coral Triangle Initiative, the largest regional conservation and development program in East Asia and the Pacific. She holds an International law degree (LL.B. (Hons.)), a Masters degree in international development and a Ph.D. in Marine Policy. During a professional career spanning over two decades at the World Bank, Dr. Hewawasam specialized in coastal and marine resources management, focusing particularly on institutional strengthening, governance of the nearshore and offshore marine areas and community based and co-managed resource management. In Tanzania, she provided the leadership to design and implement the largest marine and coastal program in the World Bank’s African portfolio. Dr. Hewawasam also provided leadership to developing a Marine Resources Management Strategy for the Africa region of the World Bank. In India, she worked on the Emergency Tsunami Rehabilitation program. She serves as the technical advisor to promote sustainable livelihoods for a coastal women’s association in Sri Lanka. At the global level, she serves as a member of the Steering Committee of the Global Forum on Oceans, Coasts and Islands and sits on the Board of the Western Indian Ocean Marine Science Association.

**MICHAEL F. HIRSHFIELD, Ph.D.** is Senior Vice President, North American Oceans, and Chief Scientist at Oceana, an international non-profit advocacy organization dedicated to protecting and restoring the health of the world’s oceans. He is responsible for overseeing Oceana’s advocacy campaigns and activities in North America, as well as ensuring that Oceana’s policy advocacy is solidly based on the latest scientific information. From 1996 until 2001, he was Vice President for Resource Protection at the Chesapeake Bay Foundation, where he led their advocacy efforts aimed at stopping pollution, protecting and restoring habitat, and increasing fish populations.

Dr. Hirshfield has broad experience in a variety of scientific, technical and policy areas, in particular marine biology, fisheries management, ecosystem-based management, nutrient and toxics pollution, and estuarine

ecology. He received a Ph.D. in Zoology from the University of Michigan in 1977 and an A.B. from Princeton University in 1970.

**JOHN HOCEVAR** is the Director of Greenpeace USA's oceans programs, has led two scientific expeditions to the Bering Sea, confronted factory fishing in Chesapeake Bay, and coordinated the UN lobbying efforts for the Deep Sea Conservation Coalition. He has overseen Greenpeace USA's efforts to end commercial whaling, stop overfishing, and establish a global network of marine reserves, working with scientists, policy makers, and business leaders. Hocevar has conducted undersea research in New England, Florida, Alaska, and throughout the Caribbean. He earned a Masters in Marine Biology from Nova Southeastern University, and an undergraduate degree in evolutionary ecology at the University of Connecticut. Prior to working for Greenpeace, Hocevar founded Students for a Free Tibet, where he worked alongside Tibetans seeking to regain their independence.

**OVE HOEGH-GULDBERG** is currently Foundation Professor and Director of the Centre for Marine Studies at The University of Queensland. Hoegh-Guldberg has held academic positions at UCLA, Stanford University, The University of Sydney and The University of Queensland and is currently a member of the Australian Climate Group; the Royal Society (London) Marine Advisory Network; and the Board of Editing Reviewers at Science Magazine. He also heads a large research laboratory (over 27 researchers & students) that focuses on how global warming and ocean acidification are affecting and will affect coral reefs now and into the future.

He completed his BSc Hons at the University of Sydney and Ph.D. at UCLA in 1989. He has been recognized in 1999 with the Eureka Prize for "ground-breaking research into the physiological basis of coral bleaching." His published works include over 100 refereed publications and book chapters (currently ranked the 4th and 5th most cited author in the fields of 'global warming' and 'coral reef ecology').

**JEREMY BRADFORD COOK JACKSON** is the William E. and Mary B. Ritter Professor of Oceanography and Director of the Center for Marine Biodiversity and Conservation at the Scripps Institution of Oceanography in La Jolla, California. He is also a Senior Scientist Emeritus at the Smithsonian Institution. Dr. Jackson is the author of more than 100 scientific publications and five books. His current research includes the long-term impacts of human activities on the oceans, coral reef ecology, and the ecological and evolutionary consequences of the gradual formation of the Isthmus of Panama. Dr. Jackson is a Fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science. He is the recipient of numerous prizes and honorary degrees, including the Secretary's Gold Medal for Exceptional Service of the Smithsonian Institution in 1997, the UCSD Chancellor's Award for Excellence in Science and Engineering in 2002, and the International Award for Research in Ecology and Conservation Biology of the BBVA Foundation in 2007. Dr. Jackson's work on overfishing was chosen by Discover magazine as the outstanding environmental achievement of 2001.

**TOM JENSEN** serves as Chair of Sonnenschein's firm-wide Committee on Environmental Sustainability and leads their renewable energy and natural resources practice. He is a nationally recognized expert in natural resources, energy and environmental law and policy. He represents business, government and nonprofit clients before federal and state regulatory agencies and Congress. He also represents clients in transactions, commercial disputes and regulatory enforcement actions. Mr. Jensen's clients have included federal and tribal governments, electric utilities, independent power producers, pipelines, universities, trade associations, oil and gas producers and service companies, fishing interests, conservation organizations, environmental sustainability certification bodies, investment banks, hedge funds and other law firms.

Mr. Jensen was Formerly majority counsel to the U.S. Senate Committee on Energy and Natural Resources and a senior official in the President's Council on Environmental Quality.

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**VIVIANA M. JIMÉNEZ** currently divides her time between serving as the UNEP / Convention on Migratory Species' Regional Representative for North America, where she seeks to encourage US leadership in the global conservation of migratory species; and overseeing the DC office of the Blue Frontier Campaign. Viviana served as CFO and Senior Program Officer at The Ocean Foundation—a marine conservation funder. She also worked at the Earth Policy Institute researching and writing on key environmental issues alongside environmental guru Lester R. Brown. In 2001, she led the creation and implementation of community-based sustainable development standards for several communities in Costa Rica. Viviana received her degree from Universidad Externado in her native Colombia, and continued her studies at American University and Georgetown University. She is an advisor to the Boyd N. Lyon Sea Turtle Fund.

**NANCY KNOWLTON** holds the Sant Chair in Marine Science at the Smithsonian's National Museum of Natural History. Her research focuses on the ecology, evolution and conservation of coral reef organisms. Her analyses have led to the now widespread recognition that estimates of marine diversity are probably too low by a factor of ten. Dr. Knowlton received her undergraduate degree at Harvard University and her Ph.D. at the University of California at Berkeley, and was a professor at Yale University prior to moving to the Smithsonian Tropical Research Institute in Panama. Later, she joined the Scripps Institution of Oceanography at the University of California at San Diego, where she became the founding Director of the Center for Marine Biodiversity and Conservation. She is an elected fellow and member of the Board of Directors of the American Association for the Advancement of Science and an Aldo Leopold Leadership Fellow. She currently serves on the National Geographic Society's Committee on Research and Exploration and Conservation Trust Committee, chairs the World Bank's Targeted Research Program for Coral

Speakers

Reefs, is principle investigator of the Census of Marine Life's Coral Reef Initiative, and is a member of the editorial board of the Annual Review of Marine Science.

**AMANDA LELAND** directs the Environmental Defense Fund's national ocean policy team. Amanda heads federal ocean policy initiatives, including sustainable fisheries, habitat conservation, and ocean funding. She focuses on achieving ocean policies that are well-grounded in science and economics, and she builds support among diverse ocean stakeholders, policy-makers, and others for shared strategies for enhancing ocean stewardship. Amanda was previously the Ocean Policy Director for Ocean Policy Project, a coalition initiative of Environmental Defense Fund, Natural Resources Defense Council, and Ocean Conservancy (2004–2005). Before that, she was a Sea Grant Marine Policy Fellow for U.S. Representative Sam Farr (2003). Amanda received a M.S., in Marine Biology from University of Maine and a B.S., in Ecology, Evolution and Population Biology from Purdue University.

**MICHAEL LEMONICK** covered science and the environment for TIME magazine for nearly 21 years. He has also written for Discover, Scientific American, Wired, New Scientist and The Washington Post. Lemonick is the author of four books, and a cover story for TIME which was featured in the anthology "Best American Science and Nature Writing 2007." He has taught science and environmental journalism at Princeton, Columbia, Johns Hopkins and New York Universities. He holds a Master of Science in Journalism from Columbia University.

**THOMAS E. LOVEJOY** became the first recipient of the newly created Heinz Center Biodiversity Chair in August 2008. He had served as President of the Heinz Center beginning in May 2002. Before coming to The Heinz Center, he was the World Bank's Chief Biodiversity Advisor and Lead Specialist for Environment for Latin America and the Caribbean and Senior Advisor to the President of the United Nations Foundation. Lovejoy has been Assistant Secretary and Counselor to the Secretary at the Smithsonian Institution, Science Advisor to the Secretary of the Interior, and Executive Vice President of the World Wildlife Fund-U.S. He conceived the idea for the Minimum Critical Size of Ecosystems project (a joint project between the Smithsonian and Brazil's INPA), originated the concept of debt-for-nature swaps, and is the founder of the public television series "Nature." In 2001, he was awarded the prestigious Tyler Prize for Environmental Achievement. Lovejoy served on science and environmental councils or committees under the Reagan, Bush and Clinton administrations. He received his B.S. and Ph.D. degrees in biology from Yale University.

**JANE LUBCHENCO** is the newly appointed head of the National Oceanic and Atmospheric Administration (NOAA). Dr. Luncheon is an environmental scientist and marine ecologist who is actively engaged in teaching, research, synthesis and communication of scientific knowledge. She grew up in Colorado, received her Ph.D. and taught at Harvard University, then moved to Oregon State University where she served as Valley Professor of Marine Biology and Distinguished Professor of Zoology for 28 years. Her full expertise includes interactions between humans and the environment: biodiversity, climate change, sustainability science, ecosystem services, marine reserves, coastal marine ecosystems, the state of the oceans and of the planet.

**FIL. LIC. CARL GUSTAF LUNDIN** joined IUCN as head of the Global Marine Programme in November 2001. His primary responsibility is to develop the program in four areas: marine protected areas; building partnerships for conservation of ecosystems and endangered marine species; sustainable fisheries management; and climate change effects on marine resources. He is responsible for all aspects of managing program as well as fundraising and development of public information materials. Before joining IUCN he worked with the World Bank for over 12 years. His primary focus was coastal marine management issues in several regions of the world including Argentina Coastal Contamination and Marine Pollution project; China development Project; Eritrea Port Project; and

Indonesia's Coral Reef Rehabilitation and Management Project. He has worked on a wide range of reports and publications in this field as well. He received a Bachelors degree in Biology from Uppsala University in his native Sweden and a Licentiate in Philosophy, Natural Resources Management from Stockholm University.

**TONY MACDONALD** is currently the Director of the Urban Coast Institute (UCI) at Monmouth University in West Long Branch, New Jersey. The UCI was established in September 2005 to serve the public interest as a forum for research, education and collaboration that fosters healthy and productive coastal ecosystems and sustainable coastal communities. Mr. MacDonald was previously the Executive Director of the Coastal States Organization (CSO) based in Washington, DC, which represents the interests of the Governors of the United States' 35 coastal states and territories on coastal and ocean policy matters. Mr. MacDonald was the Special Counsel and Director of Environmental Affairs at the American Association of Port Authorities. Tony has also practiced law with a private firm in Washington, DC, and served as the Washington, DC environmental legislative representative for the Mayor of the City of New York and Assistant Corporation Counsel at the New York City Law Department. Mr. MacDonald is a graduate of Middlebury College in Vermont and the Fordham University School of Law in New York City.

**CHRISTOPHER MANN** is a senior officer with the Pew Environment Group, the environmental program of the Pew Charitable Trusts, where he directs projects on aquaculture, management of forage fisheries, and ocean governance reform. He has more than 20 years of experience in marine policy and science. Prior to joining the Trusts, he was executive director of the Marine Aquaculture Task Force, a project of Woods Hole Oceanographic Institution with support from the Pew Charitable Trusts and the Lenfest Ocean Program. The Task Force brought together leaders in aquaculture, conservation, marine science and policy to recommend national standards for sustainable aquaculture in marine waters of the United States. Chris was Ocean and Coastal Policy Director for the Pew Oceans Commission, where he oversaw the Commission's work on ocean governance and coastal development. He managed legislative affairs on international environmental and economic issues at the State Department. Before that, he worked for the House of Representatives on marine resources conservation and management, first for the Committee on Merchant Marine and Fisheries and later for the Committee on Resources. Chris received a Bachelor of Science degree from the University of Illinois and attended the University of Rhode Island's Graduate School of Oceanography, where he conducted research on marine zooplankton ecology and behavior.

**MELANIE MARKS** is the founder and president of Shark Trust Wines, a brand dedicated to raising awareness and funding for ocean conservation issues. An avid diver, Melanie was introduced to the plight of the Great White Shark while accompanying a research team on dives off the coast of South Africa. Most people have a life-changing moment, and this was hers. Experiencing these endangered creatures up close left her a changed person and she "quit her day job" and started Shark Trust Wines. Melanie holds a BS in International Business and a Masters of International Management from Thunderbird.

**JIM MCELFISH** is Senior Attorney and Director of the Sustainable Use of Land Program at the Environmental Law Institute. His work includes water, biodiversity, mining, wetlands, energy, and land use. He leads ELI's work on offshore energy and coastal zone management. A graduate of Dickinson College and Yale Law School, McElfish worked in private practice and at the U.S. Department of the Interior's Solicitor's Office before joining ELI's staff in 1986. He is author of several books and numerous articles.

**BILL MCKIBBEN** is one of America's most important writers on business, culture and the environment. He is the author of ten books, including, Deep Economy: The Wealth of Communities and the Durable Future. Bill's book The End of Nature is a classic work on the environmental crisis



and was the first account of global warming for a general audience. It has been excerpted for major nature writing anthologies, and is published in 20 languages.

McKibben is a scholar in residence in Environmental Studies at Middlebury College. He led the largest demonstration to date in America about climate change and founded [stepitup07.org](http://stepitup07.org) in 2007, which is building local movements to support curbs on carbon emissions.

**KATHRYN J. MENDERINK** is Staff Attorney and Director of the Ocean Program at the Environmental Law Institute. Kathryn Mengerink is a marine scientist and environmental lawyer. Dr. Mengerink's major research interests are ocean and coastal law and policy and bridging the gap between science, law, and policy. She leads a project to develop practical guidance for implementing ocean and coastal ecosystem-based management. Other projects include assessing the feasibility of developing ecosystem-based management in the U.S. Arctic, examining compliance and enforcement in U.S. fisheries management, and assessing the laws, policies and institutions that affect marine conservation in Hawai'i. She is a Lecturer at Scripps Institution of Oceanography (SIO) and is a member of the Advisory Committee for the Center for Marine Biodiversity and Conservation at SIO. She serves on the editorial board for the *Sea Grant Law and Policy Journal*. She served as research associate at the Law of the Sea Institute examining illegal, unreported, and unregulated fishing. She holds a Ph.D. in Marine Biology from SIO (University of California, San Diego) and a J.D. with a Certificate of Specialization in Environmental Law from Boalt Hall, School of Law (University of California, Berkeley).

**STEVE MILLER** is a Product Manager at Google in Mountain View, CA where he works on both Ocean in Google Earth and Google Earth Outreach, an effort to foster public benefit use of online mapping tools. Since joining Google he's also worked on product development in Google's AdSense and Mobile teams, covering everything from fraud prevention to mul-

timedia content search. Prior to joining Google in 2004, Steve studied computer science at Stanford University and helped teach introductory programming courses to undergraduates.

**TODD MILLER** is executive director and founder of the North Carolina Coastal Federation that has worked with citizens since 1982 to protect and restore the environment of coastal North Carolina. Todd is a native of coastal North Carolina, and received his undergraduate degree in Environmental Sciences and master degree in City and Regional Planning from the University of North Carolina at Chapel Hill. The federation has nearly 9,000 members and 18 employees with three offices located in Ocean, Wilmington and Manteo, NC. It has three main program areas: environmental advocacy and lobbying; habitat and water quality restoration and preservation; and environmental education. Since 1997 the federation has engaged in over \$30 million in land acquisition and restoration projects that have protected and restored nearly 10,000 acres of property in eastern NC.

**RALPH NADER** is a consumer advocate, lawyer, author, and has been named by Time Magazine as one of the 100 Most Influential Americans in the Twentieth Century. For over four decades Ralph Nader has exposed problems and organized millions of citizens into more than 100 public interest groups to advocate for solutions. His efforts have helped to create a framework of laws, regulatory agencies, and federal standards that have improved the quality of life for two generations of Americans. His groups were instrumental in enacting the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the Consumer Product Safety Commission, and the Safe Drinking Water Act. In the past decade, Nader has dedicated himself to putting people back in charge of America's democracy, launching three major presidential campaigns.



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**JOHN T. OLIVER** is the Senior Ocean Policy Advisor at U.S. Coast Guard headquarters. He is also an adjunct professor at the Georgetown Law Center, where he teaches a seminar in the LL.M. program, "National Security and the Law of the Sea." After graduating from Stanford University in 1973, Oliver served for 30 years in the U.S. Navy, first as a surface warfare officer and then as a judge advocate. Most of his career has been spent working on international and ocean law and policy. He had assignments at the U.S. Embassy in Rome, Italy, and several U.S. cities, including Washington, D.C. In 2003, after having served as the Chief Judge, Navy-Marine Corps Court of Criminal Appeals, he retired from the Navy as a captain. Oliver completed his J.D. at the University of Washington, and his LL.M. and S.J.D. from the University of Virginia School of Law. He has taught international law and the law of naval warfare at the Naval War College, NATO Defense College, and Naval Justice School, and taught Law of the Sea at George Washington University, American University, and Georgetown University.

**STEPHEN R. PALUMBI** received his Ph.D. from University of Washington in marine ecology. Dr. Palumbi has published on the genetics and evolution of sea urchins, whales, cone snails, corals, sharks, spiders, shrimps, bryozoans, and butterflyfishes. A primary focus is the use of molecular genetic techniques in conservation, including the identification of whale and dolphin products available in commercial markets. Current conservation work centers on the genetics of marine reserves designed for conservation and fisheries enhancement, with projects in the Philippines, Bahamas and western US coast. Steve's book, *The Evolution Explosion: How Humans Cause Rapid Evolutionary Change*, shows how rapid evolution is central to emerging problems in modern society. In January 2003, Steve appeared in the TV series *The Future is Wild*, a computer-animated exploration of the possible courses of evolution in the next few hundred million years. Dr. Palumbi moved his laboratory

from Harvard University in August 2002 to Stanford University's Hopkins Marine Station. Steve is a Pew Fellow in Marine Conservation.

**MARGO PELLEGRINO**, a resident of Medford Lakes, New Jersey, an avid canoeist and environmentalist, set out from Miami Beach in May 2007 on an 11-week expedition to paddle some 2,000 miles north in an effort to raise awareness about problems threatening the world's oceans. Motivated by her concern for the future of the ocean and her kids, she took to the inland waterways and the ocean from Miami to Maine; by working with the East Coast Chapters of Surfrider Foundation, the National Environmental Trust, Mordecai Land Trust, and others along the way, she was able to garner significant media attention for her mission of "ocean awareness and conservation." Seeing the danger in "all talk, no action," Margo felt she needed to show her two young children, as well as everyone she could reach, that one person can make a difference. Most recently Margo teamed up with NRDC on a short, 500-mile paddle from LBI, NJ, to Washington, DC, to promote Oceans 21. This summer she will be partnering again with NRDC as well as the Gulf Restoration Network in a paddle from the Atlantic Coast of Florida to New Orleans.

**DAVID PETTIT** is a Senior Attorney and Director of the Southern California Air Quality Program at the Natural Resources Defense Council. Mr. Pettit is a 1975 graduate of the UCLA School of Law. He has worked as a litigator in public service and in private practice, and has taught at UCLA. Mr. Pettit's work at NRDC involves litigation and advocacy regarding air quality, goods movement, energy and environmental justice issues.

**STEPHANIE PFIRMAN** is Hirschorn Professor and Chair of the Department of Environmental Science at Barnard College, Columbia University. She received a Ph.D. in Marine Geology and Geophysics from the Massachusetts Institute of Technology at the Woods Hole Oceanographic Institution Joint Program in Oceanography and Oceanographic Engineering, and a B.A. in Geology from Colgate University. Throughout her career, Pfirman has been engaged in research on surging Arctic glaciers, dynamics of Arctic sea ice, and Arctic sediment and contaminant transport. Pfirman is president of the Council of Environmental Deans and Directors, a member of the National Academy of Science's Polar Research Board, and has chaired both NSF's Office Advisory Committee to the Office of Polar Programs and NSF's Advisory Committee for Environmental Research and Education. Prior to joining Barnard, Pfirman was a senior scientist at the Environmental Defense Fund where she worked with the American Museum of Natural History to develop the award-winning exhibition "Global Warming: Understanding the Forecast." She was also research scientist at the University of Kiel and GEOMAR, Germany; staff scientist for the U.S. House of Representatives Committee on Science; and oceanographer with the US Geological Survey in Woods Hole, Massachusetts.

**JOE RADISICH** is Vice-President of the International Longshore and Warehouse Union (ILWU), a progressive waterfront union that represents 50,000 dockworkers and warehouse employees on the West Coast of the United States. Today the union continues to maintain a tradition of independence and militant advocacy, has supported cleaner air standards, and has encouraged shipping companies to use cleaner fuel and adopt other measures to protect workers, the environment, and local communities around West Coast Ports. Joe Radisich helped chart the union's challenging course toward the union's twin goals of better jobs for working families, and better environmental standards. Joe has been at the center of efforts by the LA Harbor Commission to promote cleaner air while maintaining good jobs at the nation's largest port complex. Joe serves as a Harbor Commissioner, appointed to that post by Los Angeles Mayor Antonio Villaraigosa. Joe is a graduate of UCLA and grew up in San Pedro, at the Port of Los Angeles.

**CAPTAIN PHILIP G. RENAUD, USN (Ret)** is the current Executive Director of the Khaled bin Sultan Living Oceans Foundation. His career in oceanography began at the United States Naval Academy where he earned a Bachelor of Science Degree in Oceanography in 1979. During his 25-



year naval career, he completed a Masters Degree in Meteorology and Oceanography and an MBA in Technology Management. CAPT Renaud's final assignment in the Navy was Commanding Officer of the Naval Oceanographic Office where he directed an organization of approximately 1200 military, civil service and contractor personnel, and seven oceanographic survey ships forward-deployed around the world. He is refining the scientific portfolio of the Living Oceans Foundation and is focusing the organization on the study of coral reef resilience, remote sensing and habitat mapping, education and outreach, and marine science knowledge management operations. From 2010–2012, Phil Renaud will lead the Living Oceans Foundation on its Global Reef Expedition: Science Without Borders® program; a global circumnavigation to survey coral reefs across gradients of biodiversity and anthropogenic stress with the objective of providing enhanced scientific knowledge to stimulate coral reef conservation and management actions.

**NAOMI A. ROSE, Ph.D.** is Senior Scientist for Humane Society International (HSI), the international arm of The Humane Society of the United States (HSUS), the nation's largest animal protection organization. She has been instrumental in formulating policy opposing the capture and captivity of marine mammals for public display. She is actively involved in several campaigns and coalitions addressing problems associated with capture, captivity, and particularly swim-with-the-dolphin programs, both in the U.S. and abroad. Dr. Rose is HSI's scientific representative to the International Whaling Commission (IWC) Scientific Committee where she focuses on the subcommittees addressing environmental concerns and whale watching. She also advises the campaign on dolphin-safe tuna. Dr. Rose received a Ph.D. in biology from the University of California at Santa Cruz in 1992 and came to work for The HSUS in 1993. She joined the HSI staff in 2004.

**CARL SAFINA** grew up fascinated by the ocean and its creatures. He now works to highlight, explain, and solve problems facing the oceans' wildlife. Dr. Carl Safina is author of more than a hundred publications, including the books *Song for the Blue Ocean*, *Eye of the Albatross* and *Voyage of the Turtle*. His conservation work has been profiled in the New York Times, on Nightline, and in the Bill Moyers television special "Earth on Edge." Safina is a recipient of the Pew Scholar's Award in Conservation and the Environment, a World Wildlife Fund Senior Fellowship, the Lannan Literary Award for nonfiction, the John Burroughs Medal for literature, and a MacArthur Prize, among others. He is now president of Blue Ocean Institute, a non-profit he co-founded in 2003, which seeks to inspire a closer relationship with the sea.

**ENRIC SALA** is a marine ecologist who has dedicated his career to understanding and finding ways to mitigate human impacts on marine life. After a decade at Scripps Institution of Oceanography, he is currently a National Geographic Fellow and a researcher at the Spanish National Council for Scientific Research (CSIC). Dr. Enric Sala is actively engaged in research, exploration, communication and application of scientific knowledge related to the conservation of marine ecosystems. His research aims at providing the essential amount of information needed for policy change. His scientific publications are widely recognized and used for conservation efforts such as the creation of marine reserves. He is currently leading a global marine conservation initiative at National Geographic Society. Enric is a 2005 Aldo Leopold Leadership Fellow, a 2006 Pew Fellow in Marine Conservation, a 2007 National Geographic Emerging Explorer, and a 2008 Young Global Leader at the World Economic Forum in Davos. He also received the 2006 Prince of Asturias Award to Communication and Humanities with National Geographic. Enric's experience and scientific expertise contributes to his service on scientific advisory boards of international environmental organizations.

**IAN SANCHEZ** is a naturalist and eco-prenuer dedicated to using nature to enhance the lives of young people. As the Executive Director of the Lowcountry Environmental Education Program (LEEP), he has brought together numerous organizations, scientists, and educators. Ian's work

has put environmental education in the curriculum of over 30 schools in the Lowcountry of South Carolina. He recently completed a kayak expedition and filmed a documentary across the state of South Carolina from the mountains to the sea. Students followed his journey from their classrooms, meeting him at the water's edge to learn about their connections to the watershed and the ocean. Ian has worked with conservation projects from sea turtle protection to alternative energy and serves on the Charleston Green Committee. He helped start the first B99 biodiesel distribution company in the Charleston area. Using a bio-fueled powered school bus to transport students to various parks and wildlife refuges, he teaches them about their connections to the natural world. Ian is a diver at the South Carolina Aquarium. With his family roots in the Caribbean, he has always had a passion for the protection of ocean resources. Ian lives with his wife and daughter near the ocean's edge in Charleston, SC.

**ROZ SAVAGE** is an ocean rower, author, blogger and speaker. She left an 11-year career as a technology/management consultant to row solo across the Atlantic Ocean in 2005. In summer 2008 she became the first woman ever to row solo from California to Hawaii. In May 2009 she will set out on the second stage of her Pacific row, from Hawaii to the Marshall Islands. The third and final stage of her Pacific row to Australia will take place in 2010. If successful, she will be the first woman ever to row solo across the Pacific. She uses her ocean adventures to inspire people to take action on environmental issues. Last year she drew attention to plastic pollution in the oceans, asking people to reduce their use of plastic by using re-usable grocery bags, coffee mugs and water bottles. In 2009 the focus will shift to climate change, and she will be urging people to reduce CO2 emissions as participants in her Pull Together initiative.

**MARK SHELLEY** is a Founder and the Executive Director of Sea Studios Foundation, a non-profit team of filmmakers, scientists and social entrepreneurs, united by common passion to inspire a healthy and sustainable future. Sea Studios Foundation is the culmination of Mark's lifelong ambition to harness the power of film-making to spotlight some of the most pressing issues of our times—from climate change to invasive species, from the loss of biological diversity to the loss of large predators and landscape fragmentation, and the vital role of our oceans in Earth's life support systems. A producer of many award-winning films, Sea Studios Foundation is best known for its award-winning National Geographic prime-time series, *Shape of Life*, and *Strange Days on Planet Earth*, hosted by Edward Norton. Mark graduated from Stanford University in Biology and conducted research at Woods Hole Oceanographic Institution for two years. Mark was Program Director of Oceanics School. As a National Geographic filmmaker and Senior Series Producer Mark has been part of numerous award-winning exhibit and television programs. Mark is an expert SCUBA diver, submersible pilot, and airplane pilot with an instrument rating, and an aspiring sustainable farmer.

**NEIL ANTHONY SIMS** is the Co-founder and President of Kona Blue Water Farms, LLC, and the Founding President of the Ocean Stewards Institute. Kona Blue is the USA's first integrated marine fish hatchery and open ocean fish farm, off the Big Island of Hawaii. The company is a leader in the expansion of the environmentally sound production of the ocean's finest fish. The Ocean Stewards is a trade association that advocates for rational, considered development of offshore aquaculture in the Americas. Sims has a B.Sc. in Marine Biology / Zoology (James Cook University) and an M.Sc. in Zoology (University of New South Wales). In the 1980's, he led the development of the Research Division of the Cook Islands' government's Ministry of Marine Resources, in the South Pacific. Throughout the 1990's, he served in several research and consulting capacities, focusing on aquaculture hatchery development and environmental impacts in the South Pacific, South-East Asia, and Australia. Since 1993, he has been based in Kona, Hawaii, where he has led more than 35 federally funded research projects in aquaculture development, worth over \$5 million. This research led to the development of pearl oyster hatchery techniques and the expansion of open ocean aquaculture in the Americas.

**BRIAN SKERRY** is a photojournalist specializing in marine wildlife and underwater environments. Since 1998 he has been an assignment photographer for National Geographic Magazine for whom he has documented a wide range of stories from the harp seal's struggle to survive in frozen waters to the alarming decrease in the world's fisheries, both cover stories. Other NGM features have focused on subjects such as the planet's last remaining pristine coral reefs, the plight of the right whale, sharks of the Bahamas, marine reserves, sea turtles and squid. An award-winning photographer, Brian has also worked on assignment for or had images featured in magazines such as Sports Illustrated, US News and World Report, GEO, Smithsonian, Esquire and Audubon.

**CAROLYN SOTKA** works with NOAA's Oceans and Human Health Initiative (OHHI) to build partnerships, and achieve the OHHI mission to improve understanding and management of the ocean, coasts and Great Lakes to enhance benefits to human health and reduce public health risks. Carolyn's career in academia (Duke and Stanford Universities), government (NOAA, National Park Service) and non-profit organizations (New England and Monterey Bay Aquariums, COMPASS) has led her to the interdisciplinary and partnership-dependent field of oceans and human health. Carolyn received her M.A. in Marine Affairs and Policy from the Rosenstiel School of Marine and Atmospheric Sciences (RSMAS) at the University of Miami in 2001. She is a co-author of the first comprehensive report on OHH published in early 2008. And is a co-author of a book in progress tentatively entitled "The Otter, the Mayor and the Billionaire: How they brought Monterey Bay and Cannery Row Back to Life".

**RICHARD W. SPINRAD** serves as Assistant Administrator of NOAA's Office of Oceanic and Atmospheric Research. In addition, Spinrad co-chairs the White House Joint Subcommittee on Ocean Science and Technology and has served as the United States' permanent representative to the Intergovernmental Oceanographic Commission of UNESCO. His experiences include working as a research scientist at Bigelow Laboratory for Ocean Sciences, serving as the President of Sea Tech, Inc., managing oceanographic research at the Office of Naval Research, and directing research and education for the Consortium for Oceanographic Research and Education (CORE). Spinrad has published more than 50 scientific articles, is the editor of a textbook on ocean optics and several special issues of marine science journals, and served as Editor-in-Chief of *Oceanography* magazine. He has also co-authored or contributed to many fundamental documents that impact the oceanographic community such as a report by CORE entitled, "Oceans 2000: Bridging the Millennia," which served as the guiding document for the establishment of the National Oceanographic Partnership Program. Spinrad is the recipient of a Presidential Rank Award as well as the Distinguished Civilian Service Award, the highest award given to a civilian by the U.S. Department of Navy.

**ZANDER SRODES** created Turtle Talks an environmental eco-literacy road show when he was eleven years old. Since then, and for the past seven years, the traveling classroom has been presented to thousands of students and adults. "Turtle Talks" is an educational seminar that was designed to enlighten young people to the plight that turtles and sea life face in the marine world, and to empower kids to become stewards of their natural resources. In 2004, Zander wrote an activity book to accompany the seminars (200,000 books have been printed in English, Spanish, and French). A second book, *The Gopher Tortoise*, was written in 2007. Zander, has taken his interactive seminar to youngsters throughout Florida and shared it with students in the Bahamas, Trinidad, Panama, Mexico, and Costa Rica. Books are sent to children free around the globe.

Turtle Talks also mentors groups of young students in Florida to adopt waterways. The Turtle Talks Team, a group of high school students and the Pick Up Posse a crew of elementary school age students participate in the Adopt A Shore program. In the future Zander plans to become involved with eco-tourism.

**DR. AMANDA STAUDT** is National Wildlife Federation Climate Scientist, where she provides scientific expertise for NWF's research, policy, and

outreach activities on global warming. She has focused on sea-level rise in the Chesapeake Bay, changes in extreme weather, and how global warming will affect aquatic habitats in California. Prior to joining NWF, Dr. Staudt was a senior program officer at the National Academies, where her work focused on climate change, air quality, and weather. As a key liaison between the scientific community and the federal agencies that support climate change research, she directed the National Academies Climate Research Committee and helped author more than a dozen reports on topics including the U.S. strategy for supporting climate change research, radiative forcing of climate, past records of surface temperature, how climate and weather affect transportation, and best practices for effective global change assessments. She holds a Ph.D. in atmospheric sciences and an A.B. in environmental engineering and sciences from Harvard University.

**BRUCE STEDMAN** is Executive Director of the Marine Fish Conservation Network since 2007, Bruce Stedman was trained at University of Washington and MIT, has been a lecturer at Harvard, and has directed five environmental NGOs and companies. In recent years he co-managed the (NY) Governor's Ocean and Great Lakes Policy Symposium and a national symposium on Gulf of Mexico coastal subsidence / wetlands loss. He has also guided the (ME) Governor's Task Force on Marine Aquaculture, consulted to the Alexandria (Egypt) Water Authority on dispute resolution and strategic planning, and managed a \$6.25M fund for NGOs conducting research concerning U.S. DOE nuclear weapons facilities.

**JACK STERNE** is an environmental lawyer and strategic consultant with nearly two decades of experience. He has advised and represented a wide range of local, state and national organizations and foundations, including Environmental Defense Fund, the David and Lucile Packard Foundation, Greenpeace, the Pew Charitable Trusts, the Oak Foundation, the Ocean Conservancy, and the Sierra Club. He is the co-founder and general counsel of Ocean Champions, the first national political organization for the oceans and has been actively involved in shaping and implementing ocean legislation and policy at the national level for the last ten years, and spent eight years as a public interest environmental litigator. He was an official advisor to the NOAA transition for President Barack Obama. During the last year, he has conceived of and led a process for Environmental Defense Fund aimed at crafting consensus among environmentalists, utilities, and technology developers on appropriate national policy for development of renewable energy in the oceans.

**Gregory S. Stone** is Vice President for Global Marine Programs at the New England Aquarium. Dr. Stone's work is published in leading international science journals, including *Nature*; he has written popular books and articles, lectured throughout the world, and produced an award-winning series of marine conservation films. Since 2002, Dr. Stone has led the effort to create the world's largest marine protected area around the Phoenix Islands in the country of Kiribati and was named one of the National Geographic Society's Heroes of 2007 for this accomplishment. His work was recently featured in the September 2008 *Smithsonian* magazine cover story "Victory at Sea," and he was named one of the five "Bostonsians of the Year" by the *Boston Globe* for 2008. Additionally, his book *Ice Island* won the 2003 National Outdoor Book Award for Nature and the Environment, and he has authored many articles for *National Geographic Magazine*. Dr. Stone is Honorary Associate Professor at the Leigh Marine Laboratory at the University of Auckland, New Zealand, and co-chairs the Marine Advisory Council for Conservation International.

**NANCY SUTLEY** is the Chair of the White House Council on Environmental Quality. Prior to her appointment, she was the Deputy Mayor for Energy and Environment for the city of Los Angeles, California. As Deputy Mayor, she served on the Board of Directors for the Metropolitan Water District of Southern California as Chair for the Water Planning and Stewardship Committee and member of the Executive Committee, Special Committee on Bay-Delta, Communications and Legislation Committee, and the IRP Steering Committee. Sutley worked for California Governor Gray Da-

vis as Energy Advisor, managing state and federal regulations, legislative affairs, finances and press relations. She served as Deputy Secretary for policy and intergovernmental relations in the California EPA from 1999-2003. She advised on water and air pollution policy, and established budget and legislative priorities. During the administration of President William J. Clinton, Sutley worked for the EPA as a Senior Policy Advisor to the Regional Administrator in San Francisco and special assistant to the Administrator in Washington, D.C. Sutley received her Bachelors degree from Cornell University and her Masters in Public Policy from Harvard University.

**TERRY TAMMINEN** founded the Santa Monica BayKeeper in 1993, and served as the Executive Director of the Environment Now Foundation in Santa Monica, CA, where he co-founded the Frank G. Wells Environmental Law Clinic at the School of Law, University of California Los Angeles. In 2003, he was appointed by Governor Arnold Schwarzenegger as the Secretary of the California Environmental Protection Agency and later as Cabinet Secretary, the Chief Policy Advisor to the Governor. In April 2007, he was named the Cullman Senior Fellow and Director of the Climate Policy Program of The New America Foundation. In September 2007, he was appointed as an Operating Advisor to Pegasus Capital Advisors. Terry is a published author who currently lectures and consults a variety of clients on climate and energy policy.

**LESLIE MINTZ TAMMINEN** is a special advisor to Lt. Governor John Garamendi, and the California Economic Development Commission. She also works as an environmental consultant with Seventh Generation Advisors, in Santa Monica, CA. Formerly, Leslie was the Legislative Director and staff attorney for the environmental nonprofit organization Heal the Bay from 1997 to 2008. With Heal the Bay she was responsible for development and implementation of statewide water quality legislation, and the first-ever state Education and the Environment Initiative, a requirement for environmental education principles and curricula development in all core disciplines in public schools for K-12. Leslie is a graduate of the University of California at Berkeley, and the University of Southern California Law Center. She now lives in the Los Angeles area with her son and husband Terry Tamminen.

**JIM TOOMEY** is the creator of the daily comic strip Sherman's Lagoon, which appears in over 200 newspapers and six languages around the world. Sherman's Lagoon features a cast of undersea characters who team up to battle the encroachment of civilization in their remote tropical paradise. Jim has just finished his sixteenth book, Confessions of a Swinging Single Sea Turtle, published by Andrews McMeel. He also serves on the board of directors of Blue Frontier Campaign, a non-profit organization that promotes marine conservation. Jim holds a Bachelor of Science in mechanical engineering, and a Masters of Environmental Management from Duke University, and a Master of Arts from Stanford University.

**KIMBERLY A. WARNER, Ph.D.** is the Marine Pollution Scientist at Oceana. Dr. Warner has researched mercury cycling and effects and has broad experience with contaminant behavior, fate and toxicity in many aquatic systems. As a Senior Scientist with a consulting firm, Dr. Warner provided environmental consulting and litigation support on coastal and contaminated sediment issues. She also worked as a Research Scientist at the University of Alabama, where she researched mercury transformations and distributions in water, sediment and fish, worked with the public and stakeholders on policy options, and taught courses in ecology and ethics. She has previously held research positions and fellowships at the Chesapeake Biological Laboratory and Chesapeake Research Consortium in Maryland and the Woods Hole Oceanographic Institution in Massachusetts. Dr. Warner holds a Ph.D. in Marine, Estuarine and Environmental Sciences from the University of Maryland and a B.S. (summa cum laude) in Environmental Science from the University of the District of Columbia.

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**JOHN WEBER** is the Northeast Regional Manager for the Surfrider Foundation and was the organization's first East Coast employee when hired nearly four years ago. His job is to assist the all-volunteer chapters from New Jersey to Massachusetts (seven Chapters) and he was a long time volunteer for the Jersey Shore Chapter before being hired. After graduating from the University of Richmond with a BS in Biology in 1990, John went to work for environmental and social justice organizations doing grassroots community organizing. With New Jersey Citizen Action, John continued to organize affected communities around the issue of lead poisoning prevention. Along the way he helped create and run the Newark Partnership for Lead Safe Children; a broad coalition of health, child care, housing, and parent groups working together to eliminate lead poisoning in Newark, NJ and the entire state. For this work he won an EPA Region 2 Environmental Quality Award in 2001. John lives in Bradley Beach, NJ with his wife Bridget and son Hans.

**SENATOR SHELDON WHITEHOUSE (D-R.I.)**, a member of the Senate Environment and Public Works (EPW) Committee, and a sailor and diver, has been active in addressing global climate change's threat to ocean and coastal ecosystems. He authored an amendment to support investments in America's oceans and coasts as part of the Senate's FY09 budget resolution, and fought successfully to make sure climate change legislation passed by the EPW committee included protections for coastal communities, wildlife, and land and marine ecosystems. Whitehouse, who traveled to Greenland last summer to see firsthand the effects of climate change on its massive ice cap, has worked closely with Rhode Island's environmental community to raise awareness of the potential impact of global warming on the Ocean State. In August 2008, he held an official field briefing of the EPW Committee at the University of Rhode Island's Bay Campus to examine global warming's impacts on Narragansett Bay. Whitehouse has also been a champion for coastal and estuarine



habitats, successfully fighting to reauthorize the Estuary Restoration Act (ERA) in 2007. Elected to the Senate in 2006, Whitehouse lives in Newport, Rhode Island with his wife Sandra, an environmental policy expert and marine biologist, and their two children.

**DAVID WILMOT** is a passionate ocean enthusiast who has over twenty years of experience in ocean science, environmental policy, non-profit governance and political advocacy. David is the President and Co-Founder of Ocean Champions, the first-ever national political organization focused solely on oceans and their wildlife. Prior to co-founding Ocean Champions and Ocean Champions Voter Fund, he served as the Executive Director of the Ocean Wildlife Campaign where for eight years he worked to build this coalition of six national and international organizations into the leading voice for the conservation of large ocean fishes. David received a National Sea Grant Marine Policy Fellowship and spent several years at the National Research Council's Ocean Studies Board in Washington, DC. David received his M.S. and B.S. from the University of Georgia where he also Co-Founded Students for Environmental Awareness. David received his Ph.D. in marine biology from Scripps Institution of Oceanography, University of California, San Diego.

**WYLAND**, Marine Life Artist Wyland has earned the distinction as one of America's most unique creative influences, and a leading advocate for marine resource conservation. An accomplished painter, sculptor, photographer, writer, and SCUBA diver, he has traveled the farthest reaches of the globe for more than twenty-five years, capturing the raw power and beauty of the undersea universe. His non-profit Wyland Foundation has supported numerous conservation programs since 1993, includ-

ing Wyland's monumental Whaling Wall mural project—an epic series of more than ninety-one life size marine life murals that spans twelve countries on four continents, and is viewed by an estimated 1 billion people every year.

**CINDY A. ZIPF** is a founder and Executive Director of Clean Ocean Action (COA), a non-profit environmental broad-based coalition working on ocean pollution issues for the waters off the NJ/NY coast. COA is headquartered on Sandy Hook, NJ. Today, the coalition boasts 150 organizations and a professional staff of 8 full time-time employees. COA successfully led the campaign to close all eight-ocean dumpsites off the coast of NJ by finding environmentally sound alternatives. Zipf also works on a national level to drive ocean protection policies on contaminated sediments and on key coastal legislation. Zipf grew up on the Jersey shore with a goal of becoming a marine biologist. After internships with the National Marine Fisheries Service and the American Littoral Society, a national coastal membership group on Sandy Hook, NJ, Zipf became motivated to engage in advocacy work. Ms. Zipf is a graduate of the University of Rhode Island with a B.A. in Geography and Marine Affairs with a special emphasis in marine science.

Zipf serves on several boards including: the American Littoral Society (Sandy Hook, NJ), 1987–present, Coast Alliance (Washington, DC), 1990–present, the Environmental Endowment of New Jersey, 1993–present and is a charter board member, Blue Frontier Campaign (Washington, DC), 2002–present. Cindy Zipf has received numerous awards on behalf of Clean Ocean Action from national, regional, and local government and non-governmental organizations, foundations, and the news media.

A vibrant underwater photograph showing several divers exploring a diverse coral reef. The water is clear blue, and sunlight filters down from the surface, creating a dappled light effect on the coral. The divers are silhouetted against the bright background, and bubbles from their breathing apparatus are visible. The coral is a mix of various shapes and colors, including shades of green, brown, and white.

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Photograph by Barco Littlehales



"I commend the Blue Frontier Campaign and its continuous efforts to strengthen ocean and coastal conservation. The Campaign's commitment to providing resources to grassroots organizations working to protect and restore our seas, and raising public awareness of the challenges facing these groups is greatly appreciated."

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