

1ST ANNUAL CAPE COASTAL CONFERENCE

JUNE 13-14, 2013

**STATE OF THE CAPE:
CHANGING WATERS & SHORELINES**

SPEAKER BIOS

Christopher Neill

Christopher Neill is an ecologist, Senior Scientist and Director of the Ecosystems Center of the Marine Biological Laboratory in Woods Hole and Professor in the Department of Ecology and Evolutionary Biology at Brown. Neill's research investigates the ecological consequences of deforestation in the Brazilian Amazon, including how clearing alters runoff and the hydrologic cycle, soil fertility, emissions of carbon dioxide and other greenhouse gases from soils to the atmosphere and the biodiversity and ecological health of streams. He also works on the ecology and restoration of terrestrial and aquatic ecosystems in coastal Massachusetts, including coastal ponds and sandplain grasslands and shrublands, where rapid increases in residential development threaten ecosystems that contain high and unique biological diversity. Neill is the Rosenthal Director of the Brown-MBL Partnership and the Brown-MBL Graduate Program in Biological and Environmental Sciences. He was a Fulbright Scholar at the University of São Paulo in 2007 and received a Harvard University Bullard Fellowship in Amazon ecology in 2010. In 2010, he was awarded an NSF Partnership in International Research and Education (PIRE) proposal that forges a collaboration among Brown, MBL and the Earth Institute at Columbia University to examine how the intensification of agriculture in East Africa influences human well-being, land use and the environment. Neill has authored more than 90 papers on the ecological consequences of land use change.

Neill has a long-standing interest in communicating ecological science to a general audience. He currently directs the Environmental section of MBL's Science Journalism Program, which immerses journalists in the science of Arctic environmental change within MBL's Long-Term Ecological Research Project at Toolik Field Station in northern Alaska. He has written a monthly column about environmental science and policy in the Falmouth Enterprise newspaper since 1994.

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Ed Eichner

Eduard Eichner is a Senior Water Scientist with the Coastal Systems Program, School for Marine Science and Technology (SMAST) at the University of Massachusetts Dartmouth. After receiving joint MSES/MPA degrees from Indiana University, Ed worked for nearly 19 years at the Cape Cod Commission implementing a unique combination of regulatory, land use planning, and technical services for this agency of Barnstable County. These services included development of the Commission's water quality regulations, land use planning assistance to Cape Cod towns, coordination with towns and MassDEP regarding regulatory and planning implementation, coordination of the Cape Cod Pond and Lake Stewardship (PALS) program over the last 12 years, and author of over 50 water resource assessments, including evaluations of lake, groundwater, drinking water, and estuary water quality, landfill and hazardous waste site assessments, and groundwater characterizations. Ed is also the Watershed Land Use Technical Lead for the Massachusetts Estuaries Project, which requires development of estuary-specific watershed nitrogen loading models that use extensive locally-derived data, including GIS-based land use, water use and local water quality monitoring data, that are incorporated into TMDL development for

estuaries throughout Southeastern Massachusetts.

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Jeremy Bell

Jeremy Bell is a wetlands ecologist and project manager with the Massachusetts Division of Ecological Restoration. He has 14 years of experience as a restoration practitioner. Although he did his training in the Pacific Northwest, Jeremy spent the last 8 years working to restore the wetlands of Massachusetts and Cape Cod, with an emphasis on coastal wetlands. Jeremy is the Massachusetts representative on the Board of Directors of the Society for Ecological Restoration, New England Chapter. He is the recipient of the 2013 Gulf of Maine Visionary Award for Massachusetts for his work on Cape Cod.

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Brad Chase

Brad Chase is Senior Marine Fisheries Biologist for the MA Division of Marine Fisheries in New Bedford. He is also the Project leader for the Division's Diadromous Fish Biology and Management and Diadromous Fish Passage and Habitat Restoration projects. He presently leads monitoring and research on American eel and rainbow smelt for the Division and represents Massachusetts on the Atlantic States Marine Fisheries Commission American eel Technical Committee, River Herring and Shad Technical Committee, and Fish Passage Working Group. He maintains a U.S. Coast Guard 100 GT Masters License and membership as a Division Scuba Diver. Brad is a former member of the Salem Conservation Commission and present member of the Harwich Conservation Commission.

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Edward Leonard

Ed Leonard graduated from the University of Massachusetts at Amherst with a Bachelor of Science in Civil Engineering in 1994. He is a Licensed Professional Engineer in Massachusetts, Connecticut, New Hampshire and Maine. Mr. Leonard has 19 years of experience in environmental engineering with a focus on wastewater management, including wastewater collection, treatment, and disposal components

and funding/financing, for small communities in New England. He has been actively involved in wastewater management planning for Orleans, Sandwich and Falmouth's Oyster Pond. He has also been involved in "limit of technology" nutrient removal projects for publically owned treatment works projects in Glastonbury CT and Sanford ME.

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Commissioner Ken Kimmell

Kenneth L. Kimmell has been appointed Commissioner of the MassDEP by Secretary of Energy and Environmental Affairs Richard K. Sullivan Jr. Mr. Kimmell joined the Patrick Administration in January 2007 as general counsel of the Executive Office of Energy and Environmental Affairs. On an interim basis, he also served as general counsel to the Massachusetts Clean Energy Center. He has focused on:

- legislation to merge energy and environmental agencies into one secretariat;
- major legislative initiatives such as the Green Communities Act, the Global Warming Solutions Act, and the Oceans Act;
- permit streamlining initiatives;
- wind energy siting reform;
- the Massachusetts Ocean Plan;
- state and federal permitting of the Cape Wind project, the nation's first off-shore wind project; and
- development and early implementation of policy initiatives such as the MEPA Greenhouse Gas policy, a first-in-the-nation policy that requires developers of major projects to identify, avoid, and mitigate greenhouse gas emissions.

Prior to joining the Patrick-Murray Administration, Mr. Kimmell was in private practice where he focused on environmental and land use law and litigation, and argued numerous cases dealing with issues such as home rule powers of municipalities, zoning, and solid waste permitting. Mr. Kimmell graduated from Wesleyan University and UCLA School of Law. He lives in Newton, where he has served on the Newton Community Preservation Act Committee. He is also a former Board Member of the Massachusetts Association of Conservation Commissions.

Ken Kimmell

Commissioner, MassDEP

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Erin Jackson

Erin Jackson is a special projects coordinator at the Cape Cod Commission, coordinating efforts toward development of a Cape Cod Wastewater Management Plan. Before joining the Commission staff, Erin worked for 2 years as the Project Assistant at the University-National Oceanographic Laboratory System.

Erin has a B.S. in marine science from Rutgers University and a M.A. in marine affairs from the University of Rhode Island.

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Tom Cambareri

Thomas (Tom) C. Cambareri is the Water Resources Program Manager of the Cape Cod Commission. Tom oversees the provision of technical expertise to local, regional, state, and federal agencies on a variety of water resource issues. Mr. Cambareri has a MS in Geology, specializing in hydrogeology, from UMASS Amherst (1986). His Masters thesis dealt with mapping the sewage effluent plume from the Barnstable Wastewater Pollution Control Facility. He has 30 years of experience with groundwater issues on Cape Cod and is an appointed member to the Massachusetts' Water Resources Commission. Mr. Cambareri is a Certified Ground Water Professional and a Licensed Site Professional. Tom is married and has two daughters.

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Fiamma Straneo

Dr. Straneo is a tenured Scientist in the Physical Oceanography Department of the Woods Hole Oceanographic Institution. Her research focuses on the polar oceans and their role in climate and climate variability. Motivated by the rapid and ongoing ice loss from the Greenland Ice Sheet, much of her most recent work is aimed at understanding the interaction between the ice sheets and the ocean. Measurements collected by Straneo and her colleagues indicated, for the first time, the widespread presence of warm waters of tropical origin at the margins of Greenland's glaciers.

Straneo has led over 15 field expeditions in the polar regions using a wide range of platforms that include research vessels, fishing boats, inflatables, helicopters and snowmobiles. She serves on many national and international scientific panels including the US CLIVAR (Climate Variability and Predictability) Working Group on Ice Sheet-Ocean Interactions in Greenland, the steering committee of the International Arctic-Subarctic Ocean Fluxes Group, the Atlantic Meridional Overturning Circulation Science Team and the Arctic Observing Change Panel. She was recently appointed a Fellow of the Leopold Leadership Program – which seeks to bridge the gap between environmental scientists, the public and decision makers. On top of the scientific publications, Straneo's research has been featured in the New York Times, NPR, the Weather Channel, and various international media outlets. This year, she was selected as one of about 50 climate scientists to visit Congress on 'Climate Day' – an event sponsored by numerous scientific organizations including AGU, AAAS and AMS. Straneo holds the Seward Johnson Chair for Educational Coordinator in Physical Oceanography, within the WHOI/MIT Graduate Joint Program, and regularly teaches and advises PhD students. Amongst the recent courses she has taught is an interdisciplinary course on the Arctic and one on Climate Change. Dr. Straneo has a Laurea cum Laude in Physics from the University of Milan,

Italy, and a Ph.D. in Physical Oceanography from the University of Washington. She joined WHOI as a post-doc in 1999. She lives in Falmouth, Massachusetts.

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Jerry Mitrovica

Jerry Mitrovica is a Professor of Geophysics at Harvard University and the Director of the Earth Systems Evolution Program of the Canadian Institute for Advanced Research. His research focuses on sea level changes over time scales ranging from the last decade to the age of the Earth. He is the recipient of the Rutherford Memorial Medal from the Royal Society of Canada, The Steacie Prize from the National Research Council and the Augustus Love Medal from the European Geosciences Union. He is a Fellow of the American Geophysical Union and, in 2007, was awarded a Guggenheim Fellowship. He is a former J. Tuzo Wilson Professor at the University of Toronto, and was a Visiting Miller Professor at the University of California, Berkeley.

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Rob Thieler

Dr. Rob Thieler is a Research Geologist with the U.S. Geological Survey in Woods Hole, Massachusetts. Rob conducts marine geologic research on the geologic framework and evolution of the coastal zone. This includes understanding relationships between geology, sediment transport, sea-level change, and coastal erosion. Rob has conducted assessments of sea-level rise vulnerability for the U.S. and locations worldwide. He recently served as a Lead Author of a U.S. Global Change Research Program report on potential impacts of sea-level rise. He works with many federal and state agencies to develop science and policy plans for addressing climate change impacts. Rob also developed a widely-used GIS software package for measuring coastal erosion and accretion and has recently gotten into smartphone applications for coastal science. He serves on the editorial board of the Journal of Coastal Research. Rob received his B.A. in political science from Dickinson College, and his M.S. degree in environmental science and Ph.D. in geology from Duke University.

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Greg Berman

Greg Berman, PG, GISP, is a coastal processes specialist for Woods Hole Sea Grant (WHSG) and the Cape Cod Cooperative Extension (CCCE), where he provides technical assistance on coastal geology topics: shoreline change, erosion control alternatives, potential effects of various human activities on coastal landforms, coastal flood plains, coastal hazards, hazard mitigation analyses, and dune restoration techniques. He joined WHSG and CCCE after five years with Science Applications International Corporation (SAIC) where he worked on a variety of government projects focusing on environmental assessments and shoreline stabilization. Prior to that he spent six years with United States Geological Survey (USGS) offices in Florida and Hawaii, where he performed analysis of coastal geology, habitat, and hydrology. He has more than 15 years of diverse experience with surveying, interpreting, and reporting on coastal geology. He has also regularly provided assistance in local coastal restoration projects organized by environmental non-profit organizations and worked with a wide spectrum of volunteers.

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James Rassman

James Rassman is the Stewardship Coordinator at the Waquoit Bay National Estuarine Research Reserve located in Falmouth and Mashpee MA. Mr. Rassman works on long term monitoring and research in and around Waquoit Bay, coastal, riparian, and upland restoration, and land management and acquisition projects. He holds a Masters in Natural Resource Management and a BS in Forestry. Before coming to the Reserve, he had previously worked for the EPA on riparian stream bank stabilization and restoration, the US Forest Service, Colorado State University, and several State agencies on the development and implementation and monitoring of best management practices to protect water quality. He has a particular interest in the management and ecology of coastal pine barrens and grasslands and lives on the Cape in Centerville, MA.

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Kirk Bosma

Mr. Bosma is a professional engineer at Woods Hole Group with expertise in the areas of numerical modeling, coastal processes, sediment transport, nearshore wave conditions, and coastal engineering climate change adaptations. Recently, he has directed projects focused on climate change vulnerability assessment and developing engineering adaptations.

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Josh Reitsma

Josh received a bachelor's degree in environmental science from Unity College in Maine and later a master's degree in aquaculture and fisheries from the University of RI. He has worked with fisheries restoration and aquaculture of finfish and shellfish from Maine to Alaska. Currently, he works with the Cape Cod Cooperative Extension and Woods Hole Sea Grant in support of fisheries and aquaculture here in Massachusetts.

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Diane Murphy

Diane C. Murphy is the Fisheries and Aquaculture Specialist with the Woods Hole Sea Grant Program and Barnstable County's Cape Cod Cooperative Extension, specializing in shellfish, shellfish aquaculture, and other coastal living marine resources. She earned her Master's degree in biology/environmental science from Western Connecticut State University and undergraduate degree from Pace University in New York. Diane has worked as an extension agent on Cape Cod since 1999 and also serves as the technical advisor to the Southeastern Massachusetts Aquaculture Center (SEMAC) and is the Woods Hole Sea Grant Extension Program leader.

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Rick York

Richard York is the Shellfish Constable of the Town of Mashpee, MA. Management of the shellfish resources includes aquaculture of shellfish seed for fisheries. He designed and directs an oyster aquaculture project with support from AmeriCorps Cape Cod and the Barnstable County Cooperative Extension that restored a lost oyster fishery and mitigated eutrophication from anthropogenic nitrogen loading. While operating the Mashpee Water Quality Laboratory, he monitors water quality in collaboration with the Mashpee Wampanoag Tribe, the University of Massachusetts Dartmouth SMAST, and volunteers from the Mashpee Environmental Coalition and the Mashpee Waterways Commission. Data from monitoring showed water quality improvement from the oyster project in the estuary, and in another project from the installation of solar water circulators to control algae blooms a fresh water pond. Previous work in the aquaculture industry was at shellfish hatcheries and farms. At Aquatic Farms in Hawaii, he started the first commercial oyster/shrimp polyculture system for improved production and water quality in shrimp ponds. As a Research Associate at the University of Hawaii, he was an algae

specialist on projects including ciguatera fish toxin, coral reef ecology, and biological control of mosquitoes as well as aquaculture for biofuels, food and pharmaceuticals. Richard has a Bachelor of Science in Marine Biology from the University of Massachusetts Dartmouth.

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Ron Zweig

Ron Zweig most recently served as a staff member of the World Bank (1992-2006), where he worked as a technical specialist and task manager on programs that involved food security and environmental assessment and management of aquatic resources, including freshwater, brackish and marine aquaculture; inland and coastal fisheries; marine and inland aquatic sanctuaries; lake and reservoir fisheries management; coastal zone planning and management; and biodiversity conservation projects. Much of this work focused on poverty reduction through the direct engagement of women and other disenfranchised groups in those activities in Asia – Bangladesh, Cambodia, China, India, Indonesia, Republic of Korea, Laos, Philippines, Thailand and Vietnam. He was awarded the Bank's 2006 Green Award in 2006 for the formulation and adoption of international principles for responsible shrimp aquaculture. As an ecosystem modeler, Zweig developed ecological and economic mathematical simulation models and a training game of integrated aquaculture systems. Before joining the World Bank staff, Zweig worked on similar activities for the Food and Agriculture Organization (FAO) of the United Nations, the International Fund for Agricultural Development (IFAD), World Food Program, United Nations Capital Development Fund (UNCDF), U.S. government agencies, private sector entities, and NGOs as well as for the World Bank as a consultant (1985-1992). Zweig led the New Alchemy Institute's aquaculture program in Falmouth, Massachusetts from 1975 to 1985 with support from two National Science Foundation grants. He presently consults on the above topics is a proponent of renewable energy and conservation programs for international and national agencies and is the Falmouth Representative to the Cape Light Compact; a member of Falmouth's Water Quality Management Committee; and the President of the Coonamessett Farm Foundation. He has more than 50 publications in scientific and popular journals.

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Don Liptack

Don Liptack is a District Conservationist USDA, Natural Resources Conservation Service. He has 34 years experience with USDA Natural Resource Conservation Service in Vermont and Mass. He developed the National Farm Bill Program for Bivalve Shellfish Aquaculture under the Environmental Quality Incentives Program 2008. He also authored the Cape Cod Water Resource Restoration Project 2010. He

received a MS in Resource Mgt. & Administration from Antioch New England and a BS Wildlife Mgt from the University Of Maine

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Gerald (Jerry) Potamis

Jerry Potamis has been the Wastewater Superintendent in Falmouth since 1977. He actively involved in wastewater planning and has served as the Town's representative to the Cape Cod Water Protection Collaborative and its technical committee. Prior to his current position he spent 35 years with the New England Office of the US Environmental Protection Agency serving in a variety positions. He is retired from EPA New England has Chief of the Watershed and Non Point Source Branch. He also retired from the US Army after 35 yrs of active and reserve duty assignments. He is a Registered Professional Engineer in Massachusetts and holds a Bachelor and Masters of Civil Engineering from Northeastern University. He is married and is married with two adult sons and two grandchildren

Jerry Potamis

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Mark Nelson

Mark Nelson, P.G. is a Principal with the Horsley Witten Group, Inc, with over 25 years of experience in watershed management and wastewater planning. He is the Project Manager for HW's work on Brewster's Integrated Water Resource Management Plan. He is also leading an integrated water management plan for North Kingstown, Rhode Island, and supported similar HW projects in Charlestown and South Kingstown, Rhode Island. Mark is also the Program Manager for HW's contracts with the U.S. Environmental Protection Agency's Office of Water and through that contract is developing an Onsite System Model Program for six states in the Chesapeake Bay watershed.

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Sue Leven

Sue came to Cape Cod from New York City, where she worked as a Planner for the Manhattan Office of the Department of City Planning, as a planning consultant for clients as varied as the New York State Department of Corrections and the Trump Organization and as Grants Manager for the Big Apple Circus. Once on Cape Cod, she and her spouse ran two restaurants in Provincetown before Sue returned

to planning – first as the Planner for the Town of Eastham, followed by nine years as the Planner in Harwich, and now as the first Planner for the Town of Brewster. Sue has a BA in Historic Preservation from Goucher College, a Masters in Landscape Architecture from the SUNY College of Environmental Science and Forestry, and is a member of the American Institute of Certified Planners.

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Ken Wagner

Dr. Wagner holds degrees from Dartmouth College and Cornell University, with his Ph.D. earned in Natural Resource Management in 1985. He has over 34 years of experience working on a variety of water resources assessment and management projects, including lake, river and watershed assessment and management, TMDL development, regulatory processes, and educational programs. In 2010 he started Water Resource Services, a small company with a focus on water supply protection and lake management consulting. He is a former President of the North American Lake Management Society and the current Editor in Chief of Lake and Reservoir Management, a peer-reviewed journal.

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Lisa Dickson

Ms. Dickson is the Vice President of Sustainability and has more than 15 years of experience managing complex, multi-disciplinary projects. She has expertise in regulations and financial markets related to carbon and renewable energy, and more recently risk assessment as it relates to sustainability and climate change. She was a contributor to the World Resource Institute's 2010 Public Sector GHG Protocol, and aided in the development of the Institute for Sustainable Infrastructure's (ISI) project rating system. In 2010, she was invited to Shanghai to comment on China's 12th 5-Year Plan and present on the use of carbon markets to drive investment within the transportation sector. Her academic training includes modeling large-scale environmental perturbations through deep time and using those trends to predict the extent and relative timing of community disruptions in the future. Currently, she is managing several climate change projects including work for the City of Cambridge, MA, the Army National Guard and several South Shore municipalities. She is also meeting with Pentagon staff to discuss how the climate security work performed for the National Guard might inform current planning efforts for the Navy.

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Paul Halkiotis

Paul is originally from Belmont Mass; he graduated from Belmont High school and attended the University of Massachusetts, Amherst. He holds a Bachelors degree in Natural Resource Management & Planning, Minor Degree in Geology and a Masters Degree in Regional Planning. He is a member of the American Planning Association, Mass Association of Planning Directors and the American Institute of Certified Planners. Paul has served as the first Planning Director in Duxbury, Town Planner in Orleans MA and Economic Development Planner in the Town of Weymouth MA. His private sector experience includes real estate appraisals, site evaluations, permit acquisitions, real estate development consulting and leasing for nationally known companies such as Nextel Communications and the Starbucks Coffee Company. Paul has worked for the Town of Marshfield as the Town Planner for the last 9 years. Prior to working for the Town he served on the Conservation Commission and the Community Preservation Committee. He lives in Marshfield with his wife. He is an avid outdoorsman that enjoys skiing, fishing, hunting, gardening, camping and mountain climbing.

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Patrick Field

Patrick Field is Managing Director at the Consensus Building Institute (CBI), Associate Director of the MIT-Harvard Public Disputes Program, and Senior Fellow at the University of Montana Public Policy Research Institute. Mr. Field has helped thousands of stakeholders reach agreement on water resources, land use, development, and natural resource management issues across the United States and Canada. He has worked with municipal, county, state, and federal governments. He has worked with the U.S. EPA, the Water Environment Research Foundation, and numerous utilities across the U.S on such issues as toxic waste cleanup, biosolids, water quality, wastewater and stormwater financing, “soft path” treatment technologies, and developing pollution control strategies to meet TMDLs. As one of the country’s most experienced group facilitators, Pat has helped to design and manage dozens of large and diverse working groups, scientific workshops, strategic planning efforts, and extensive public involvement strategies. He has also trained and advised governments (federal, regional, state and local) as well as corporations, foundations, and Native American and First Nation groups.

Co-author of the award-winning book, *Dealing with an Angry Public*, Mr. Field is listed on the roster of conflict resolution professionals of the U.S. Institute for Environmental Conflict Resolution. He has authored or co-authored numerous articles and book chapters. He holds a Masters in Urban Planning from the Massachusetts Institute of Technology and a BA from Carleton College, summa cum laude. Born and raised on a ranch in rural western Colorado, he currently resides in Watertown, Massachusetts.

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Roger Stephenson

For 25 years Roger Stephenson has helped business, government and non-profit executives move their organizations forward through effective communications and true public relations. Prior to beginning his public relations career with Patrick Jackson and Jackson Jackson and Wagner, Roger held a senior level position in the Office of the Secretary, US Department of the Interior in Washington, DC where he managed a wide variety of highly sensitive program and policy issues and met objectives through legislative and stakeholder relations. He later served in the Council on Environmental Quality, helping to manage overall program and policy development for the President's American Heritage Rivers Initiative.

He is an Accredited member (APR) of the Public Relations Society of America and signatory to the PRSA codes of ethical practice.

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Paul Niedzwiecki

Paul Niedzwiecki, Executive Director of the Cape Cod Commission, leads 40 talented, innovative professionals in transforming the Commission from a once static agency, into a more efficient, proactive organization fulfilling its mission- 'Keeping a Special Place Special'- by protecting the natural environment, enabling economic growth, increasing transparency and encouraging community engagement. He is a leader in community consensus building and is routinely sought after by federal and state officials to advise on economic and environmental issues, most recently pertaining to wastewater planning.

Prior to joining CCC, Paul was Assistant Town Administrator, Barnstable; Special D.A., Barnstable County; and General Counsel/CFO at Commonwealth Corp. He graduated from Suffolk University, received his J.D. from Suffolk University Law School, and is a member of the Massachusetts Bar. Paul is also a veteran, having served in the Marine Corps, and a father.

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Ed DeWitt

Ed DeWitt is executive director of the Association to Preserve Cape Cod (APCC). APCC is a non-profit environmental organization (501 (c) (3)) whose mission is to promote actions, policies and programs that foster the preservation of the natural resources of Cape Cod. APCC focuses its efforts on the conservation

of the Cape's natural heritage, protection of water resources, promotion of managed growth and achievement of an environmental ethic. In pursuing these goals over the past 45 years, APCC has emerged as the Cape's environmental leader, earning a reputation as the stalwart defender of Cape Cod's precious natural resources. Ed is a retired Coast Guard aviator. Prior to joining APCC in 2011, Ed practiced law on Cape Cod as an attorney specializing in municipal, maritime and aviation law.

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Pat Hughes

Pat Hughes was elected to the Brewster Board of Selectmen in May 2013. She served previously on the Board from 1989-92. She has also served as a member of Brewster's Planning Board, Land Acquisition Committee and, most recently, as Vice-Chair of the Comprehensive Water Planning Committee. Pat received a Bachelor of Arts degree in Biology from the University of Rhode Island. She began her career as a research biologist, focusing on ecological assessments and shellfish and lobster aquaculture. Pat worked for many years on coastal and marine policy with the Massachusetts Coastal Zone Management Program and the Cape Cod Commission. Currently she is the marine policy director for the Center for Coastal Studies in Provincetown.

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Pam diBona

Pam brings more than 20 years' experience in the public, nonprofit, and private sectors to her new position as Executive Director of the Massachusetts Bays Program. In her most recent post at the New England Aquarium, Pam coordinated the New England Ocean Science Education Collaborative and was manager of the Center for Ocean Science Education Excellence - New England, both organizations dedicated to bringing ocean science into the educational sphere. Prior to that Pam served as Chief of Staff for the Massachusetts Department of Conservation and Recreation; at the Environmental League of Massachusetts, she held roles as Vice President for Policy and Legislative Director; and she coordinated water policy for the Charles River Watershed Association. She holds a B.A. in Biochemistry from Connecticut College and an M.S. in Environmental Microbiology from UMass Boston. Relevant to the current panel discussion, Pam co-authored a chapter titled "Linking Science to Management and Policy through Strategic Communication" in the 2012 book, *Advancing an Ecosystem Approach in the Gulf of Maine* (American Fisheries Society, 2012).

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Heather Goldstone

Dr. Goldstone is the science editor at WGBH and WCAI, Cape and Islands NPR. She holds a Ph.D. in ocean science from M.I.T. and Woods Hole Oceanographic Institution, and spent a decade as an active researcher before leaving the lab to become a writer. Her reporting about scientific and environmental issues on Cape Cod has appeared in venues ranging from NPR and PBS to Commercial Fishery News. Goldstone hosted the blog Climatide.org and currently spearheads Living Lab Radio, an exploration of the human stories within science.

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