





EBC New England Climate Change Resilience & Adaptation Summit: Part Two

Update on Climate Science – Innovative Municipal Programs – Thought Leaders

Wednesday, August 26, 2020

AGENDA

- 9:00 a.m. **Welcome, Summit Introduction and What You Will Learn**
- Daniel Moon, Summit Chair & Moderator
President & Executive Director, Environmental Business Council
- 9:20 a.m. **Keynote Presentation: Climate Change – New Lessons and Expectations**
-  **Daniel Schrag**
Professor of Environmental Science and Engineering
Director, Harvard University Center for the Environment
Harvard University
- 9:50 a.m. **Networking Opportunity**
- 10:00 a.m. **Case Studies – Municipal and Private Sector**
-  Moderator: **Thomas Burack**
Shareholder, Sheehan Phinney
- 10:05 a.m. **Increasing Resiliency – Coonamessett River Restoration Project**
- Elizabeth Gladfelter, Commissioner, Falmouth Conservation Commission
Investigator, Woods Hole Oceanographic Institution
- 10:20 a.m. **Kelp Farming, a Potential Strategy for Remediating Ocean Acidification and Improving Shellfish Cultivation**
- Susie Arnold, Marine Scientist, Island Institute
- 10:35 a.m. **Restoring the Maidford River to Mitigate Flooding, Improve Water Quality and Build Resiliency**
- Elizabeth Scott, President, Elizabeth Scott Consulting

10:50 a.m. **Maine Flood Resilience Checklist: A Practical Framework for Assessing Vulnerabilities and Planning for Coastal Flooding**

- Abbie Sherwin, Senior Land Use and Coastal Planner
Southern Maine Planning and Development Commission

11:05 a.m. **Panel Discussion with Municipal and Private Sector**

Moderator: Thomas Burack, Shareholder, Sheehan Phinney

11:35 p.m. **Networking Opportunity**

11:50 a.m. **Break**

12:00 p.m. **Thought Leaders – How do We Accelerate Towards Sustainable Solutions for Thriving Communities in the 21st Century?**



Moderator: **Curtis Spalding**, Brown University
Former Regional Administrator, U.S. EPA Region 1

12:05 p.m. **Climate Solutions: What Government at All Levels Must Do Differently to Move Solutions Forward**



Bob Perciasepe
President
Center for Climate & Energy Solutions

12:20 p.m. **Strategies for Motivating Climate Action for Both Mitigating Climate Change and Building Community Resilience**



David Herring
Director of Communication & Education
NOAA Climate Program Office

12:35 p.m. **Panel Discussion with Thought Leaders**

Moderator: Curtis Spalding, Brown University

1:15 p.m. **Adjourn – Closing Remarks**

PANEL MODERATORS

Thomas S. Burack, Shareholder

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As Commissioner of the New Hampshire Department of Environmental Services (NHDES) from 2006-2016, Tom led the Granite State's efforts to address climate change. Tom helped orchestrate New Hampshire's entry into the Regional Greenhouse Gas Initiative (RGGI), was a founding member of the Board of Directors of RGGI, Inc., and chaired a 29-member Governor's commission that developed the New Hampshire Climate Action Plan (2009), which serves as the blueprint for New Hampshire's environmental, energy and economic development future by aiming to achieve the greatest feasible greenhouse gas reductions while also providing the greatest long-term economic benefits to the state's citizens. Tom also envisioned and led NHDES's efforts to incorporate climate change considerations into all of its programs and activities, and he played a central role in focusing all of the state's agencies on the challenges of climate change, including extreme weather events and implementing climate-related mitigation, adaptation and resiliency strategies.

At the start of 2017, Tom returned to Sheehan Phinney where he had previously spent 17 years and where he now practices environmental and energy law, consults on a range of environmental issues, and facilitates the development of scenario-based living strategic plans for governmental and nonprofit organizations. A Fellow of the American College of Environmental Lawyers, Tom co-chairs ACOEL's Education Committee. At a national conference in April 2019, Tom spoke on state efforts to include climate resiliency considerations in their disaster preparedness, response and recovery efforts. Tom served as an executive advisor and consultant to the Environmental Council of States (ECOS), the nonprofit, non-partisan association of state and territorial environmental agency leaders, on E-Enterprise for the Environment, a shared governance approach among the US Environmental Protection Agency, states and tribal governments to modernize and streamline the business of environmental protection and regulation in the United States. Tom is a Harry S. Truman Scholar, and served as Law Clerk to the Honorable David H. Souter on the Supreme Court of New Hampshire, and as Legislative Assistant for Environmental Matters to U.S. Senator Gordon J. Humphrey (R-NH) in Washington, DC.

H. Curtis Spalding, Professor of the Practice

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Curt Spalding joined the Institute at Brown for Environment and Society as a Professor of the Practice in December 2017. Previously, Curt served the Obama Administration as USEPA New England Region 1 Administrator, and prior to that, he served as Save The Bay's Executive Director from 1990 to 2008.

Curt has over thirty years of leadership experience in environmental protection and management as an advocate, policy analyst and administrator. In all aspects of Save The Bay's and EPA Region 1 New England's work, he emphasized whole systems thinking and resilience. Accomplishments include development of the Save The Bay Center in Providence RI, and ecosystem plans to restore and protect New England's iconic waters, including Lake Champlain, Cape Cod, Lake Champlain, Southern New England Coast, Long Island Sound and Great Bay. With leadership Brownfield and Superfund initiatives, along with helping communities gain the capability and capacity to be more climate change resilient, Curt has consistently worked to see New England cities are revitalized and made healthy and prosperous places to live for every resident. At Brown he helps students find engaged scholarship opportunities

outside of Brown and is actively developing projects that inform how communities can become more resilient in response to climate change. Most recently with the Coastal Resource Center at URI, he is developing the Providence Resilience Partnership project.

Curt is an avid sailor, enjoys golf some days, and is a member of the Trinity Church in Pawtuxet Village in Cranston, RI. His wife, Dr. Patrice Milos is the CEO of Medley Genomics. His daughter Hannah will attend UMass Medical School and his son Henry is a third-year law student at Boston College.

KEYNOTE SPEAKER

Daniel P. Schrag, Professor of Environmental Science and Engineering
Sturgis Hooper Professor of Geology, Professor of Environmental Science and Engineering
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Co-Director, Kennedy School Program on Science, Technology, and Public Policy
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Daniel Schrag is the Sturgis Hooper Professor of Geology, Professor of Environmental Science and Engineering at Harvard University, and director of the Harvard University Center for the Environment. He also is co-director of the Program on Science, Technology, and Public Policy at the Harvard Kennedy School. Dan's interests include climate change, energy technology, and energy policy. He has studied climate change over the broadest range of Earth's history, including how climate change and the chemical evolution of the atmosphere influenced the evolution of life in the past, and what steps might be taken to prepare for impacts of climate change in the future. He helped to develop the hypothesis that the Earth experienced a series of extreme glaciations, called "Snowball Earths," that may have stimulated a rise in atmospheric oxygen and the proliferation of multicellular animals. He is also interested in how we can use climate events in the geologic past to understand our current climate challenges. Dan has worked on a range of issues in energy technology and policy, including advanced technologies for low-carbon transportation fuel, carbon capture and storage, and risks and opportunities of shale gas. He was named a MacArthur Fellow in 2000. From 2009-2017, he served on President Obama's Council of Advisors on Science and Technology (PCAST), contributing to many reports to the President, including energy technology and national energy, agricultural preparedness, climate change, and STEM education.

SPEAKERS

Susie Arnold, Marine Scientist
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Susie Arnold is the marine scientist at the Island Institute. Her current areas of focus include working with fishermen to diversify their businesses to include shellfish and seaweed aquaculture, researching the environmental benefits of farming edible seaweed, and helping coastal communities better understand the implications of sea level rise so they can make informed adaptation decisions. Susie has emerged as a leader at the interface of science and policy, with recent appointments to the legislatively established Ocean Acidification Commission and the Maine Climate Council's Science and Technical Subcommittee and liaison to the Coastal and Marine Working Group. She possesses extensive experience in creating and sustaining public-private partnerships such as the Maine Ocean and Coastal

Acidification Partnership and Island Institute's ShoreUp Network. Susie earned master's degrees in Marine Biology and Marine Policy and a doctoral degree in Marine Biology from the University of Maine.

Elizabeth Gladfelter, Commissioner
Falmouth Conservation Commission
Investigator, Woods Hole Oceanographic Institution
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Betsy Gladfelter is a Falmouth Conservation Commissioner, and a guest investigator at the Woods Hole Oceanographic Institution. For the past 11 years she has been the Town's Project Coordinator for the Coonamessett River Restoration Project and the Coonamessett Greenway Heritage Trail. She has an A.B. in Biological Sciences from Stanford University and a Ph.D. in Biology from UCLA. For much of her career, she served in academia in teaching, research and administrative roles, for 25+ years in the Virgin Islands and the past 20+ years on Cape Cod. From an interest in land use history developed through traveling through much of the world - by foot, bicycle or sail - and a background in coral reef/coastal science, she has especially enjoyed working with others in SE Massachusetts on restoration projects including retired cranberry bogs.

David Herring, Director of Communication & Education
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David Herring is Chief of the Communication, Education, and Engagement Division within NOAA's Climate Program Office, where he also serves as Program Manager of NOAA Climate.gov (www.climate.gov) and the U.S. Climate Resilience Toolkit (toolkit.climate.gov) websites. In 2015, David was awarded NOAA's highest award for Outstanding Science Communication. Before joining NOAA in 2008, David worked for 16 years at NASA's Goddard Space Flight Center, where he led development of NASA's Earth Observatory (earthobservatory.nasa.gov) website. David has worked within the Earth system science community for 28 years, and has written and spoken extensively about climate during that time. David received his Master's Degree in Science and Technical Communication in 1992 from East Carolina University. He is an elected Fellow of the American Association for the Advancement of Science (AAAS).

Bob Perciasepe, President
Center for Climate and Energy Solutions
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Bob Perciasepe is President of the Center for Climate and Energy Solutions (C2ES), which is widely recognized in the United States and internationally as a leading, independent voice for practical policy and action to address our energy and climate challenges.

Mr. Perciasepe has been an environmental policy leader in and outside government for more than 40 years, most recently as Deputy Administrator of the U.S. Environmental Protection Agency (EPA). He is a respected expert on environmental stewardship, natural resource management, and public policy, and has built a reputation for bringing stakeholders together to solve issues.

While Mr. Perciasepe served as Deputy Administrator from 2009 to 2014, EPA set stricter auto emissions and mileage standards, increased protections for the nation's streams and rivers, and developed carbon emissions standards for power plants. Mr. Perciasepe was previously assistant administrator for both the agency's water and clean air programs, leading efforts to improve the safety of America's drinking water

and development of a new infrastructure revolving fund for drinking water. He also led efforts to lower sulfur levels in gasoline and diesel fuel to reduce smog.

In 2002, Mr. Perciasepe joined the National Audubon Society, one of the nation's oldest conservation organizations, as its senior vice president for public policy. He served as the group's chief operating officer from 2004 to 2009, and worked to protect wetlands and expand environmental education, especially in urban areas.

He has also held top positions in state and municipal government — as Secretary of the Environment for the state of Maryland from 1990 to 1993 and as a senior planning official for the city of Baltimore, where he managed the city's capital budget.

Mr. Perciasepe is a member of the Bank of America National Community Advisory Council and a Fellow of the National Academy of Public Administration. He serves on the boards of the Keystone Policy Center and the Environmental Law Institute. He has received American University's William K. Reilly Award for Environmental Leadership, the Chesapeake Water Environment Association's Able Wolman Award, the American Lung Association's Distinguished Service award and the Walter G. Wells Conservation Award.

Mr. Perciasepe holds a master's degree in planning and public administration from the Maxwell School of Syracuse University and a Bachelor of Science degree in natural resources from Cornell University.

Elizabeth Scott, President
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Elizabeth has over thirty years' experience in water resources management in Rhode Island. She served as Deputy Chief in the Office of Water Resources where her responsibilities included the state's water quality restoration (TMDL) program, shellfish classification program, and various water quality monitoring and assessment initiatives. During her tenure with RIDEM, Elizabeth contributed to the development of policies, regulations, guidance documents and programs to advance stormwater management in Rhode Island. She worked extensively with municipalities and watershed organizations to implement watershed specific stormwater requirements and to provide technical support to municipalities in their efforts to develop stormwater utilities. Elizabeth has served in advisory capacity and/or as a board member for the RI Water Resources Board and RI Office of the Natural Resources Conservation Service, and on numerous other ad hoc committees addressing water resource and water quality management issues in Rhode Island. Elizabeth received a Bachelor of Science in Natural Resources from Cornell University, and Master of Arts in Marine Affairs from the University of Rhode Island.

Elizabeth Scott currently serves as the Southeast New England Network Liaison for Rhode Island. Using her extensive experience with the RI Department of Environmental Management and expertise in water quality and stormwater management, she works with communities to advance stormwater management and ecological restoration.

Abbie Sherwin, CFM, Senior Land Use and Coastal Planner
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Abbie Sherwin is a Senior Land Use and Coastal Planner with Southern Maine Planning and Development Commission (SMPDC). She also leads coastal resiliency efforts for the Southern Maine Regional Sustainability and Resilience Program. She provides technical and planning assistance to Maine communities, specializing in coastal resiliency, climate adaptation planning, and hazard mitigation. Abbie works with municipal planners, local officials, and regional organizations to assess climate-related vulnerabilities and implement strategies to help communities prepare for changing environmental conditions. Prior to joining SMPDC, Abbie was a NOAA Coastal Management Fellow with the Maine Geological Survey and Maine Coastal Program, during which time she developed a community-based sea level rise vulnerability assessment framework and process that received Project of the Year awards from the Northern New England Chapter of the American Planning Association and the Maine Association of Planners. She holds an M.S. in coastal science and policy from the University of New Hampshire and is a Certified Floodplain Manager®.

UPCOMING EBC PROGRAMS

SEPTEMBER 2020

September 9: Solid Waste Management Webinar – Update on COVID-19 – Part Two
September 10: Rhode Island Offshore Wind Virtual Conference
September 10: 4th Annual End-of-Summer-Trivia – Ascending Professionals
September 11: Climate Change Leadership Webinar Series – BU Climate Plan
September 15: Connecticut Brownfields Update
September 16: Infrastructure Leadership Webinar – MassDOT Program Priorities
September 17: EBC 27th Annual EBEE Awards Celebration
September 22: Connecticut Offshore Wind Virtual Conference
September 22: Ascending Professionals Webinar – Guide to Virtual Presentations
September 23: Annual Ocean & Coastal Construction Conference
September 25: Climate Adaptation Forum – How We Decide to Get Serious about Climate Solutions
September 29: Solid Waste Webinar – Landfill Post Closure Care, the Gift that Keeps on Giving
September 30: Water Resources Webinar – Update from MassDEP Water Resources Bureau

OCTOBER 2020

October 1: Dam Management Webinar – Dam Failure and Insurance
October 2: Annual Talking Trash Virtual Conference – Northern New England
October 6: Infrastructure Leadership Webinar – Massport Program Priorities
October 7: Emerging Contaminants Webinar – COVID-19
October 13: Ascending Professionals Committee Virtual Program Planning Meeting
October 20: Climate Change Webinar – FEMA's BRIC Program