



EBC Climate Change Program Series
Part Four: Adaptation and Resiliency Programs at Institutions

Friday, June 23, 2017

Greenberg Traurig | Boston

AGENDA

- 8:00 a.m. **Welcome: Daniel Moon, President and Executive Director EBC**
- Program Introduction: Michael Macrae, Ph.D., Program Chair & Moderator**
Energy Analytics Manager, Harvard University
- 8:10 a.m. **Planning for a Resilient MIT: Collaborating Across Scales, Systems, and Teams**
- Laura L. Tenny, ASLA, Senior Campus Planner, MIT
 - Brian Goldberg, LEED AP BD+C, AICP, Sustainability Project Manager, MIT
- 8:40 a.m. **CIRCA's Municipal Grant Program for Resiliency and Storm Resilience**
Modeling for the Eversource-Connecticut Inland Substations and Power Grid
- Emmanouil Anagnostou, University of Connecticut, Eversource Energy Center, Connecticut Institute for Resilience & Climate Adaptation (CIRCA), University of Connecticut
- 9:00 a.m. **Improving Climate Resiliency at Harvard's Allston Campus**
- Michael Flood, AICP, Special Projects Lead, WSP | Parsons Brinckerhoff
- 9:20 a.m. **Partners HealthCare's Response to Climate Resilience**
- Paul D. Biddinger, M.D. F.A.C.E.P., MGH, Partners HealthCare, Harvard T.H. Chan School of Public Health
- 9:40 a.m. **Institutional Barriers to Coastal Resilience**
- Porter Hoagland, Ph.D., Senior Research Specialist
Woods Hole Oceanographic Institution
- 10:00 a.m. **Networking Break**

10:30 a.m. **Casting a Wide Net – Connecticut State Colleges & Universities’ Approach to Hazard Resiliency**

- Mary House, Senior Principal, Woodard & Curran

11:00 a.m. **Panel Discussion**

Moderator: Michael Macrae, Harvard University

Panelists:

- Emmanouil Anagnostou, University of Connecticut
- Paul D. Biddinger, Partners HealthCare
- Mike Flood, WSP | Parsons Brinckerhoff
- Brian Goldberg, MIT
- Porter Hoagland, Woods Hole Oceanographic Institution
- Mary House, Woodard & Curran
- Laura L. Tenny, MIT

12:00 p.m. **Closing Remarks – Daniel Moon – Adjourn**

PROGRAM CHAIR

Michael X. Macrae, Ph.D., LEED Green Assoc, Energy Analytics Manager

Harvard University

46 Blackstone Street, Cambridge, MA 02139

617-496-7225 | Michael_macrae@harvard.edu

Michael Macrae is the Energy Analytics Manager for Harvard University Engineering & Utilities, developing energy and budget analysis strategies to meet future energy supply, environmental, and sustainability needs. Prior to this role, Michael served as Harvard’s Senior Environmental & GHG Officer with the University’s EHS department for four years, where he managed both the University’s regulatory air compliance program and voluntary greenhouse gas inventory program. Prior to joining Harvard, Michael worked for the environmental compliance firm, DSG Solutions, assisting clients in managing state and federal air quality program requirements. He earned his PhD in chemistry from the University of California, San Diego, and his BS in chemistry and biochemistry at the University of Washington in Seattle.

Environmental Business Council of New England, Inc.
375 Harvard Street, Suite 2 | Brookline, MA 02446
(617) 505-1818 | ebc@ebcne.org | @ebcne | www.ebcne.org

SPEAKERS

Emmanouil Anagnostou

Professor and Eversource Energy Endowed Chair in Environmental Engineering, University of Connecticut (UConn)

Executive Director, Eversource Energy Center (EEC)

Director of Applied Research, Connecticut Institute for Resilience & Climate Adaptation (CIRCA)

860-486-6806 | manos@uconn.edu

Dr. Anagnostou is a Professor of Civil and Environmental Engineering and the Eversource Energy Endowed Chair in Environmental Engineering at the University of Connecticut. He is the founding Director of the Eversource Energy Center (eversource.uconn.edu) and Applied Research Director of the Connecticut Institute for Resilience and Climate Adaptation (circa.uconn.edu). He holds Ph.D. and MSc degrees in Hydrometeorology from the University of Iowa (1997 and 1995, respectively) and a diploma in Civil and Environmental Engineering from the National Technical University of Athens (1990).

His research expertise is on remote sensing applications in water resources with focus on the improvement of predictability of hydro-meteorological extremes and associated hazards, and the synthesis of sociological and engineering methods to create people-centred solutions to the nexus problem of water, food and energy insecurities and risks. His research uses a systems-based approach that integrates earth observations, models and analytical methods across climate, hydrology, the environment and recently social sciences to reduce weather extreme driven hydrologic risks and promote sustainability of water and energy resources for developing and developed regions of earth. He has lead research teams in US and Europe on these topics.

In his capacity as one of CIRCA's Applied Research Directors he is leading the inland flooding component focusing on deriving improved flood frequency datasets and investigating the impact of changing precipitation patterns on flood vulnerability of Connecticut river networks. He has been science team member of NASA's Precipitation Science Mission since 2000. He was the team leader of a Marie Curie Excellence Grant (2007-2010) that investigated Earth Observations applications in water resources. He currently coordinates a National Science Foundation multi-institutional food security project in Ethiopia (pire.engr.uconn.edu) and leads the uncertainty evaluation task of a European Union multi-institutional research project that integrates global earth observations and hydrologic models for water resources assessment.

Paul D. Biddinger, M.D. F.A.C.E.P.

Director, Center for Disaster Medicine and Vice Chairman for Emergency Preparedness,

Department of Emergency Medicine, Massachusetts General Hospital

Medical Director for Emergency Preparedness, MGH and Partners Healthcare

Director, Harvard T.H. Chan School of Public Health Emergency Preparedness Research, Evaluation and Practice (EPREP) Program

pbiddinger@partners.org

Dr. Paul Biddinger is the Vice Chairman for Emergency Preparedness in the Department of Emergency Medicine at Massachusetts General Hospital (MGH) in Boston. He is also the Medical Director for Emergency Preparedness at MGH and at Partners Healthcare.

Dr. Biddinger additionally serves as the Director of the Emergency Preparedness and Response Exercise Program (EPREP) at the Harvard School of Public Health and holds appointments at Harvard Medical School and at the Harvard School of Public Health. At HSPH, Dr. Biddinger leads a team of preparedness experts and researchers who focus on developing exercises and associated tools for both training and evaluation of public health emergency preparedness and response. Over the past decade, the team has conducted more than 100 preparedness exercises, reaching an audience of over 8,000 public health and emergency response professionals.

Dr. Biddinger chairs the Massachusetts Medical Society's Committee of Preparedness and serves as a medical officer for the MA-1 Disaster Medical Assistance Team (DMAT) in the National Disaster Medical System (NDMS) in the US Department of Health and Human Services (HHS).

Dr. Biddinger is an active researcher in the field of emergency preparedness and has lectured nationally and internationally on topics of preparedness and disaster medicine. He has authored numerous articles and book chapters on multiple topics related to emergency medical services and disaster medicine. He completed his undergraduate study in international relations at Princeton University, attended medical school at Vanderbilt University, and completed residency training in emergency medicine at Harvard University.

Michael Flood, AICP, Special Projects Lead

WSP | Parsons Brinckerhoff

1 Suite 300, E Pratt St Suite 300, Baltimore, MD 21202

202-748-6131 | Flood@pbworld.com

Michael Flood is the National Resiliency Lead for WSP | Parsons Brinckerhoff and has over twenty years of experience in the consulting industry. Mr. Flood has led most of the national projects focused on determining the risks of extreme weather and climate change and the development of strategies for addressing those risks. This work has included work assessing potential impacts to communities and facilities in New York, Alabama, Maryland, Massachusetts, Minnesota, Florida, Alaska, Washington, California, New Hampshire, Massachusetts, and Connecticut. The focus of Mike's recent work has been the development of methods, tools and strategies to help agencies and stakeholders make effective decisions in adaptation to climate change and extreme weather risks through development of decision-making tools and prioritization processes. This work has involved recent work on developing benefit-cost assessments of resiliency projects nationwide, work defining risks and responses to a variety of climate concerns, and the conduct of training seminars on resiliency strategies and other similar efforts focused on helping agencies make effective decision.

Brian Goldberg, LEED AP BD+C, AICP, Sustainability Project Manager

Massachusetts Institute of Technology, Office of Sustainability

617-715-4521 | bsgold@mit.edu

Brian Goldberg is an environmental planner who joined MIT in June 2016 to help advance projects in climate, stormwater, land and materials management. He brings 15 years of experience working with cities, communities, not-for-profits and private developers to optimize environmental and social benefits while mitigating risks. Brian's perspectives are drawn from urban and rural projects in the U.S., Africa, Asia, Australia and the Caribbean. He comes to MIT after a decade at the global engineering, planning and design firm AECOM (formerly EDAW), and was previously working for the United Nations and James Corner Field Operations. He holds a Master of Environmental Management from Yale University and a B.A. in Political Science from Union College.

Porter Hoagland, Ph.D., Senior Research Specialist

Woods Hole Oceanographic Institution
86 Water St, Woods Hole, MA 02543
phoagland@whoi.edu

Porter Hoagland is a Senior Research Specialist at the Woods Hole Oceanographic Institution's Marine Policy Center, specializing in the application of methods from economics and public policy analysis to scientific and management problems arising in ocean and coastal contexts. Porter's primary areas of interest include coastal and marine spatial planning, assessing the impacts of and responses to marine natural hazards, such as red tides and shoreline change, the economic analysis of fisheries management, and the design of institutions for ocean management.

Laura L. Tenny, ASLA, Senior Campus Planner

Massachusetts Institute of Technology, Office of Campus Planning
617-324-1213 | ltenny@mit.edu

Laura Tenny is a registered landscape architect and senior campus planner with 20 years of work experience leading the planning, design, and construction phases of landscape and building projects for educational institutions. A member of the MIT Office of Campus Planning since 2011, Laura's current focus is on campus site systems with an emphasis on stewardship, renewal, and sustainability. Prior to joining MIT, Laura was employed as a capital project manager for both Wellesley College and Harvard University, and worked in various capacities for the Arnold Arboretum of Harvard University and in private practice. Laura holds a Master in Landscape Architecture from the Harvard Graduate School of Design and a BA from Clark University.

Upcoming EBC Programs and Meetings

- June 27: Site Remediation and Redevelopment Committee Program Planning Meeting
- June 27: Water Resources Committee Program Planning Meeting
- June 30: Energy Resources Program – MassDPU Initiatives, Innovations, and Reliability
- July 12: PCB/TSCA Subcommittee Program Planning Meeting
- **July 13: Climate Change Committee Program Planning Meeting**
- July 19: Rhode Island Chapter Program Planning Meeting
- July 21: Connecticut Chapter Program Planning Meeting
- August 10: 23rd Annual EBC Summer Garden Party – Boston
- August 17: 2nd Annual Rhode Island Summer Garden Party
- September 19: EBC Ascending Professionals End-of-Summer Bash