



EBC Climate Change Program Protecting Boston – The Boston Harbor Barrier Study

Friday, June 22, 2018

Nixon Peabody LLP | Boston, MA

AGENDA

- 8:30 a.m. Welcome: Ruth Silman, Chair, EBC Climate Change and Air Committee**
Partner, Nixon Peabody LLP
- Program Introduction and Overview**
- Joseph Famely, Program Chair & Moderator
Senior Environmental Scientist, Woods Hole Group
- 8:40 a.m. Introduction to the Boston Harbor Barrier Study**
- Paul Kirshen, Professor, School for the Environment
Academic Director, Sustainable Solutions Lab
University of Massachusetts Boston
- 8:55 a.m. Hydrodynamic and Closure Analyses**
- Kirk Bosma, Senior Coastal Engineer / Innovation Director, Woods Hole Group
- 9:20 a.m. Environmental Impacts**
- Bob Chen, Professor, School for the Environment
University of Massachusetts Boston
- 9:45 a.m. Ecological Economics**
- Di Jin, Senior Scientist, Marine Policy Center
Woods Hole Oceanographic Institution
- 10:10 a.m. Recreational and Commercial Harbor Use Impacts**
- Kimberly Starbuck, Research Associate, Urban Harbors Institute
University of Massachusetts Boston
- 10:35 a.m. Networking Break**
- 11:05 a.m. Economic Analysis and Comparison to Shore-Based Solutions**
- Paul Kirshen, Professor, School for the Environment
Academic Director, Sustainable Solutions Lab
University of Massachusetts Boston

11:30 p.m. Panel Discussion

Panel Moderator: Joseph Famely, Woods Hole Group

Panelists:

- Austin Blackmon, City of Boston
- Kirk Bosma, Woods Hole Group
- Bob Chen, UMass Boston
- Di Jin, Woods Hole Oceanographic Institution
- Paul Kirshen, UMass Boston
- Kimberly Starbuck, UMass Boston

12:30 p.m. Closing Remarks: Ruth Silman, Nixon Peabody LLP

PROGRAM CHAIR

Joseph Famely, Project Manager, Applied Ecology & Sustainability
Woods Hole Group
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Joe Famely is a Project Manager and Environmental Scientist in the Applied Ecology & Sustainability division of Woods Hole Group. With over 15 years' experience, he develops sea level rise and storm surge vulnerability assessments, greenhouse gas inventories, environmental impact statements, shoreline change analyses, and ecological risk assessments for clients in the government, business and NGO sectors. He has also contributed to master plans, harbor plans, dredged material management plans, conservation land acquisition plans, and materials flow analyses. Joe earned his B.A. in Environmental Studies and Psychology from Bowdoin College, and his M.E.M. in Urban Ecology and Environmental Design from the Yale School of Forestry & Environmental Studies.

SPEAKERS

Austin Blackmon, Chief, Environment, Energy and Open Space
City of Boston
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Austin Blackmon is Chief of Environment, Energy and Open Space for the City of Boston.

In his role, Mr. Blackmon oversees policy and programs on Energy, Climate Change, Sustainability, Building Safety, Historic Preservation and Open Space, including Climate Ready Boston, the Building Energy Reporting & Disclosure Ordinance, Rental Registry and Greenovate Boston, the city's community outreach initiative on sustainability. Mr. Blackmon is currently leading efforts to implement Boston's Climate Action Plan, which aims to reduce citywide greenhouse gas emissions 25% by 2020 and 80% by 2050.

Mr. Blackmon is a graduate of Harvard College and Harvard Business School.

Kirk Bosma, P.E., M.C.E., Senior Coastal Engineer / Innovation Director
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Kirk Bosma, PE, is a Senior Coastal Engineer and Innovation Director at Woods Hole Group. His recent focus has been on habitat restoration, shoreline protection, and climate change planning projects for a diverse client base. He specializes in applying numerical models to optimize engineering designs and reduce overall project life cycle costs. He also applies the latest data and numerical methods toward capturing current and future flooding risk for climate change vulnerability assessments. Most recently, Mr. Bosma has been assessing vulnerabilities of the transportation network throughout the coastline of the Commonwealth of Massachusetts for MassDOT.

Bob Chen, Ph.D., Professor, School for the Environment
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Prof. Chen received a doctorate from Scripps Institution of Oceanography (UC San Diego) in Chemical Oceanography and completed a Postdoctoral Fellowship at the Woods Hole Oceanographic Institution. He is a coastal carbon biogeochemist with interests in colored dissolved organic matter (CDOM), development of new technologies for studying the coastal zone, and ocean and environmental education. He has published over 60 journal articles and has over 25 years of experience developing and deploying sensors and real-time instrumentation packages in the coastal ocean and coastal watersheds to study coastal carbon cycling and water quality. He is currently the Director of the Center for Coastal Environmental Sensing Networks (CESN) at UMassBoston. He was also the Principal Investigator of the Boston Science Partnership (bostonscience.net), the Boston Energy in Science Teaching, the Center of Ocean Sciences Education Excellence-Ocean Communities in Education And social Networks (coseeocean.net), and the Watershed-Integrated Sciences Partnership (wisp.umb.edu), all large programs that link scientists and universities with K-12 teachers, offer high quality professional development, and increase public environmental and ocean science literacy.

Di Jin, Senior Scientist
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Di Jin is a Senior Scientist at the Marine Policy Center of the Woods Hole Oceanographic Institution. He holds a Ph.D. in Economics-Marine Resources from the University of Rhode Island. He specializes in the economics of marine resources management and marine industries. He has substantial research experience with the commercial fishing and aquaculture industries, the offshore oil and gas industry, the marine transportation industry, and coastal management problems.

Paul Kirshen, Ph.D., Professor, School for the Environment
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Dr. Kirshen has 30 years of experience in the management of complex, interdisciplinary research related to water resources, and climate variability and change. He has carried out local and global projects and research related to managing climate impacts in collaboration with government, industrial and citizen stakeholders for decades. Most recently he helped lead the development of consensus climate change projections for Climate Ready Boston. He is also a key technical and planning expert on the Neighborhood of Affordable Housing study team for their present Kresge Foundation Implementation grant for East

Boston. He is a Lead Author of Chapter 26, North America, of the Working Group II contribution to the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5), 2014 and the 2013 US National Climate Assessment (coastal chapter).

Kimberly Starbuck, Research Associate
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Kim Starbuck is a Research Associate at the Urban Harbors Institute, University of Massachusetts Boston. Kim has more than ten years of experience in the marine biology field including ocean-related research, environmental education/outreach, project management, GIS analyses, stakeholder engagement, communication, and ocean planning. Kim's top work accomplishments include: developing harbor plans throughout Massachusetts; managing the 2012 Northeast Recreational Boater Survey; and engaging stakeholders in ocean planning and ocean-related research. Kim holds a master's degree in Environmental Science from the University of Massachusetts Boston, and a bachelor's degree in Biology and Environmental Science from Tufts University.

UPCOMING EBC PROGRAMS

JUNE 2018

June 27 – 25th Annual EBEE Awards and 28th Annual Meeting

June 29 – Infrastructure Program: Understanding the Benefits of the ISI Envision Rating System

JULY 2018

July 9 – Climate Change and Air Committee Program Planning Meeting

July 11 – Site Remediation and Redevelopment Committee Program Planning Meeting

July 12 – NH – U.S. EPA Regional Administrator Alex Dunn & NH DES Commissioner Robert Scott

July 13 – Ocean & Coastal Resources Program – 2nd Annual Coastal Construction Case Studies

July 17 – EBC PCB Management Program – Managing PCB Impacted Building Materials

July 18 – Rhode Island Program: Brownfields – Success Stories and Lessons Learned

July 18 – Rhode Island Chapter Program Planning Meeting

July 19 – Ascending Professionals Program Planning Meeting and Networking Night

July 20 – Innovative Alternative Technologies to Manage Solid Waste

AUGUST 2018

August 9 – Annual Summer Garden Party

August 16 – Annual Rhode Island Summer Garden Party

August 23 – Annual Softball Game