

*EBC and Sustainable Solutions Lab at UMass Boston
Climate Adaptation Forum*

**Utility Resilience:
Lessons from Puerto Rico and Local Preparation**

Friday, November 30, 2018

University of Massachusetts Club | Boston



Presentations will be posted to the Forum website:
www.climateadaptationforum.org

AGENDA

- 8:00 a.m. Welcome:** Rebecca Herst, Forum Organizer; Director, Sustainable Solutions Lab
University of Massachusetts Boston
- Forum Introduction:** Alex Papali, Forum Co-Chair and Moderator
Green Justice Organizer, Clean Water Action
- 8:10 a.m. ResilientSEE-PR: A multidisciplinary lens for rebuilding communities in Puerto Rico**
- Yanel de Angel, Associate Principal, Perkins+Will
- 8:20 a.m. Keynote Presentation: On the Path to Creating a Stronger & More Resilient Puerto Rico After Hurricane María**
- Malu Blázquez Arsuaga, Executive Director, Resilient Puerto Rico Advisory Commission
- 8:50 a.m. Keynote Presentation: Transforming an Energy Grid One Scale at a Time**
- Jonathan Marvel, FAIA, President, Resilient Power, Puerto Rico
- 9:20 a.m. Open Discussion**
- Moderator: Alex Papali, Clean Water Action
- 9:50 a.m. Networking Break**
- 10:20 a.m. Rapid Fire Presentations**
- Panel Introduction & Overview of Utility Vulnerability in New England**
- Julie Eaton, Forum Co-Chair; Lead Resiliency Engineer, Weston & Sampson
- Utility Summer Preparation**
- Sam Woolard, Director – Distribution Engineering (Connecticut), Eversource Energy
- Utility Climate Adaptation**
- G. Paul Anundson, P.E., Esq., Principal Engineer, Electric Standards, National Grid
- Energy Democracy and Environmental Justice**
- María Belén Power, Associate Executive Director, GreenRoots
- Public Health Response to Extreme Heat Events**
- Stacey Kokaram, MPH, Director Office of Public Health Preparedness
Boston Public Health Commission
- 11:00 a.m. Open Discussion**
- Moderator: David W. Cash, Ph.D., Dean
John W. McCormack Graduate School of Policy and Global Studies
University of Massachusetts Boston
- 11:40 a.m. Closing Remarks:** Daniel K. Moon, Executive Director
Environmental Business Council of New England, Inc.
- 11:45 a.m. Adjourn**

FORUM CO-CHAIRS

Julie A. Eaton, EIT, Lead Resiliency Engineer
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Julie Eaton is the lead resiliency engineer at Weston & Sampson. For over a decade, her professional and academic ventures have focused on looking at climate change resiliency and adaptation from policy and design perspectives. She specializes in using a risk-based approach to identify and prioritize adaptation strategies. Her experiences have taken her abroad to the Netherlands to look at international best practices and solutions that can be applied to the New England area. Some of her recent projects include the Massachusetts Division of Capital Asset Management and Maintenance (DCAMM) Statewide Resiliency Master Plan, the City of Boston Public Works Department's Climate Resilient Design Standards and Guidelines for Protection of Public Rights-of-way, and she is currently working on flood resilience for vulnerable sections of the MBTA Blue Line and designing flood resilience for a WWTP in South Carolina. Julie recently received an Ascending Leader Award from the Environmental Business Council for her work in climate resilience. She has Bachelor's degrees in Political Science (University of Rochester) and Civil Engineering (UMass Lowell), and a Master's degree in Civil Engineering (UMass Lowell).

Alex Papali, Green Justice Organizer
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Alex has lived in the Boston area 30 years, organizing locally since high school. His areas of focus have ranged from prison issues to immigrant rights to tenant organizing—with the common goal of addressing structural causes of injustice and obstacles to sustainability.

At Clean Water, Alex works towards 'energy democracy' with the Green Justice Campaign: fair access to the benefits of energy efficiency, clean local energy through "community microgrids," and a robust green economy for all through the collective efforts of more than 40 community, labor and environmental groups statewide. He is assisting the development of a grassroots energy group in the Worcester area, with a focus on building clean distributed energy resources that serve linguistically diverse low-income communities.

He also helps coordinate the Zero Waste Coalition, aiming to grow a world-class Zero Waste system in Boston that captures untapped economic potential and eliminates toxics and climate pollution by reimagining how we produce, consume and dispose of everything we use.

A perpetual student at the University of Life, he is actively plotting his next adventure off the grid.

KEYNOTE SPEAKERS

Malu Blázquez Arsuaga, Executive Director
Resilient Puerto Rico Advisory Commission
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Malu Blázquez Arsuaga is an Executive Professional with vast experience and knowledge in operations management, program and project management, and process and performance improvement. Malu has a B.S. and M.S. in Industrial and Management Engineering from Rensselaer Polytechnic Institute in Troy, NY and has over 24 years of professional work experience that includes managing various types of development opportunities from the planning and permitting phase of concept through execution and build-out, and leading complicated development opportunities. Malu served as Project Manager for CSA Group, Inc. during 8 years in important government projects, such as the master planning and permitting of San Juan Waterfront Development (Bahía Urbana) and also the design and buildout of Piers 6, 7 & 8, and Eastern Gateway of Bahía Urbana.

She recently led the Roosevelt Roads Local Redevelopment Authority from 2013 through 2016 as Executive Director in managing the public corporation and the redevelopment efforts of over 3,000 acres of Former Naval Station Roosevelt Roads (FNSRR) in Ceiba and Naguabo, PR. As of January 2018, Malu is The Executive Director of a non-profit organization, Relmagina Puerto Rico, which developed 97 recommendations in June of 2018 for the reconstruction and rebuilding of a stronger and more resilient Puerto Rico by integrating and engaging multiple voices and sectors from and on Puerto Rico during the outreach and engagement process.

Jonathan J. Marvel, FAIA, President
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Born in Puerto Rico, Jonathan Marvel is an architect and urban designer with over 30 years of experience providing architectural, planning, community economic development and sustainable development of public spaces, educational institutions, single and multi-family housing, libraries, museums and large-scale mixed-use developments. With offices in New York City and San Juan, Jonathan Marvel, founding Principal at Marvel Architects, teaches at Pratt Institute's Graduate School of Planning and Placemaking, and has taught as adjunct at Harvard, Parsons, Rice University, Washington University, and Syracuse. Jonathan is the recipient of national and international design awards, is co-chair of the NYAIA Planning and Urban Design Committee, sits on the boards of The Buckminster Fuller Institute, The Isamu Noguchi Museum, and Publicolor. Jonathan is also the founder of Truck Product Architecture, Rock 12 Security Architecture, Citizen Designer, a participatory planning non-profit, and Resilient Power Puerto Rico (RPPR), an initiative to create 100 resilient community hubs in 100 days in every corner of Puerto Rico, in the wake of Hurricane Maria.

SPEAKERS AND PANELISTS

Yanel de Angel, Associate Principal
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Yanel de Angel, an architect at Perkins+Will's Boston office, led the formation of ResilientSEE-PR, an initiative to provide long-term relief to communities in Puerto Rico through resilient design and planning. Yanel serves as a key influencer of the Resiliency and Energy Labs at Perkins+Will. She has led numerous sustainability planning workshops, both in the Higher Education, Healthcare and Housing Development sectors. With energy and building envelope expertise, her areas of technical focus are Passive House design, Zero Net Energy Buildings and Carbon Neutral projects. She is one of the lead technical advisors for 'Puerto Rico Keep Safe', a Home Owner's Resilient Housing Guide being developed by Enterprise Community Partners.

At Perkins+Will, she has co-developed the Higher Education Residential and Student Life Practice globally. She is a member of the Diversity Council and a founding member of the Project Delivery Board whose mission is to strategize about complex project processes and nimbleness in delivery of services. A well-rounded architect and manager, Yanel is known for her ability to holistically view issues and opportunities during critical decision points, provide insight, and manage complex stakeholders structures.

G. Paul Anundson, P.E., Esq., Principal Engineer, Electric Standards
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Paul Anundson works at National Grid, a major electric and gas utility, developing design and construction standards for electric transmission and distribution systems. Paul has worked for over 35 years in the electric utility industry in design, construction, operations and standards for electric power lines. Paul Anundson serves on committees developing the National Electrical Safety Code, an industry standard for safe utility practices.

Stacey Kokaram, MPH, Director, Office of Public Health Preparedness
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Stacey Kokaram is the Director of the Office of Public Health Preparedness at the Boston Public Health Commission. In this role she sets the strategic direction of OPHP, which includes the Stephen M. Lawlor Medical Intelligence Center (MIC), the DeValle Institute for Emergency Preparedness, and the Boston Medical Reserve Corps. She has spent the entirety of her professional career advancing equitable preparedness in the City of Boston to ensure the public health and healthcare needs of all of Boston's residents are met during and after emergencies, particularly the most vulnerable. She has extensive experience supporting preparedness, response, and recovery activities for incidents such as the 2009-2010 H1N1 Pandemic, the 2013 Boston Marathon Bombings, the 2014 Ebola Outbreak, and the 2015 Boston Blizzards. Ms. Kokaram has led the development of policies and procedures that have strengthened public health and healthcare system coordination in Boston through the Boston Healthcare Preparedness Coalition (HPC). She served as the Boston HPC co-chair and chair from July 2013 through December 2015. In addition, Ms. Kokaram has had the opportunity to share experiences from Boston at several national conferences on topics such as family reunification, the public health response to the Boston Marathon bombings, and health equity in emergencies. Ms. Kokaram has a master's degree in public health with a concentration in epidemiology from Boston University School of Public Health and a bachelor's of science degree in biology and community health from Tufts University.

María Belén Power, Associate Executive Director
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Prior to joining GreenRoots, María Belén was the Lead Organizer for the Green Space Committee. She oversees GreenRoots' environmental justice campaigns and supports the work of the ECO youth crew, Junior Organizer and Research Assistant. María Belén represents GreenRoots in the Green Justice Coalition of the Greater Boston Area as well as national movements for environmental and climate justice.

Growing up in a bicultural family in Nicaragua, the second poorest country in the western hemisphere in the aftermath of a revolution, coupled with her work as an organizer in migrant communities has informed her understanding of social justice and the need for systemic change. María Belén's work organizing with undocumented immigrants, day laborers, and public housing tenants has deepened her understanding of economic, social and environmental issues.

María Belén will be a Neighborhood Fellow working towards her Masters Degree in Public Policy at Tufts University's Urban and Environmental Policy and Planning Department. She successfully completed a year-long certificate program in Nonprofit Management and Leadership with the Institute for Non-profit Management and Leadership at Boston University.

Sam Woolard, Director – Distribution Engineering (Connecticut)
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Sam Woolard is the Director of Distribution Engineering for Eversource Energy Connecticut. He has experience in planning, engineering, operations & maintenance and asset management of transmission and distribution systems. He received his BSEE from the University of Texas – Arlington in 2000, his MEEE from the University of Idaho in 2006 and his MBA from the University of Texas – Dallas in 2012. His Engineering Career started in 2000 at Texas New Mexico Power (Now Public Service of New Mexico). Over the 12 years at TNMP he held various roles in both Transmission and Distribution Operations and Engineering. In 2012 he then moved to Australia to work for Western Power in Perth, Western Australia in their Transmission and Distribution Strategic Asset Management group. In 2016 He moved back to the US and is performing his current role as Director of Distribution Engineering for Eversource Connecticut. Sam is a Professional Engineer in the state of Texas, and a Member of IEEE.