



**EBC Rhode Island Chapter Program
Climate Change - Implications for Infrastructure and Sea Level Rise**

Thursday, September 22, 2016

Shechtman Halperin Savage, LLP
Pawtucket, Rhode Island

Thank you to our Sponsor:



AGENDA

- 8:00 a.m. **Welcome: Robert Atwood, Chair, EBC Rhode Island Chapter**
Vice President, Environmental Strategies & Management, Inc.
- Christian F. Capizzo, Counsel, Shechtman Halperin Savage, LLP
- Introduction: Igor Runge, Program Chair**
Senior Project Manager, GZA GeoEnvironmental, Inc.
- 8:15 a.m. **Meteorology, Climate Change, and Weather Patterns**
- David Vallee, Hydrologist-in-Charge
National Weather Service, Northeast River Forecast Center
- 8:45 a.m. **URI/CRMC BeachSAMP Toolkit: STORMTOOLS and CERI**
- Teresa Crean, Community Planner & Coastal Mgmt. Extension Specialist
Coastal Resources Center and Rhode Island Sea Grant
University of Rhode Island
 - J. Craig Swanson, Principal Associate, Swanson Environmental Associates LLC
- 9:30 a.m. **Reengineering Roadway Resiliency**
- Peter A. Healey, P.E., Chief Civil Engineer, RI Department of Transportation
- 10:00 a.m. **Networking Break**

10:30 a.m. Rhode Island Department of Environmental Management Regulatory Updates

- Lisa Lawless, P.E., Principal Civil Engineer, RIDEM
- Elizabeth Stone, Director's Office, RIDEM

10:00 a.m. The Flood Insurance Program – Industry Trends

- Peter Troy, Vice President of Sales, Cross Insurance

11:20 a.m. Legal Ramifications

- John Boehnert, Esq., Attorney, Law Offices of John M. Boehnert

11:40 a.m. Panel Discussion

Moderator: Christian Capizzo, Shechtman Halperin Savage, LLP

Panelists:

- John Boehnert, Law Offices of John M. Boehnert
- Teresa Crean, URI Coastal Resources Center
- Peter Healey, RIDOT
- Lisa Lawless, RIDEM
- Elizabeth Stone, RIDEM
- Craig Swanson, Swanson Environmental Associates
- Peter Troy, Cross Insurance
- David Vallee, National Weather Service

12:30 p.m. Adjourn

PROGRAM CHAIR

Igor Runge, Ph.D., P.H., Senior Project Manager

GZA GeoEnvironmental, Inc.

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Dr. Runge has been with GZA for 14 years and is responsible many environmental engineering and water resources projects; specializing in regulatory permitting, storm water, and water quality. He holds B.S. and M.S. degrees in Meteorology (SUNY, University of Oklahoma) and a Ph.D. in Civil and Environmental Engineering from the University of Rhode Island. Prior to GZA, he was in academe, most recently as the Dean of the School of Engineering, Computing, and Construction Management at Roger Williams University. While at the University of North Carolina, he was a recipient of the Young Investigator Award from the National Academy of Sciences for his work in nonpoint source pollution of surface waters.

MODERATOR

Christian Capizzo, Chair, Environmental Practice Group

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Recognized for his ability to unify disparate groups and facilitate change, Christian concentrates in the areas of environmental law, civil litigation, and public sector/governmental services throughout New England. With 15 years of experience, Christian is uniquely positioned to navigate clients through the complex ever changing world where environmental regulation and business intersect. Christian has a

proven track record of successfully resolving a diverse range of complex environmental matters including enforcement, regulatory and compliance issues. His practice focuses on major development projects including commercial land sale transactions, multi-state renewable energy projects, redevelopment and affordable housing projects and brownfield sites. He represents clients before the Energy Facility Siting Board, the Public Utilities Commission, CRMC, RI Attorney General's Office, DEM, the RI Contractors Registration Board and various local planning and zoning boards throughout the state. Prior to joining SHS, Christian served in the Rhode Island Attorney General's Office where he led the Environmental Crimes Task Force, handling litigation on environmental issues impacting Rhode Island. He also served as outside legal counsel for the Rhode Island Department of Environmental Management. He is nationally recognized for developing and implementing environmental training programs and is a sought after presenter on a myriad of topics with a focus on emerging and complex environmental issues and trends. www.shslawfirm.com

SPEAKERS

John Boehnert, Esq., Attorney

Author: *Buying, Owning and Selling RI Waterfront and Water View Property*
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John M. Boehnert, Esq. practices real estate and environmental law in Providence, Rhode Island, including coastal permitting and waterfront property rights, representing everyone from large corporations to individuals. He won a landmark coastal property title case in the Rhode Island Supreme Court.

Boehnert authored the book *Zoning the Oceans The Next Big Step in Coastal Zone Management* (2013) published by the American Bar Association. His most recent book is *Buying, Owning and Selling Rhode Island Waterfront and Water View Property* (2016).

Mr. Boehnert is a frequent writer and speaker on real estate and environmental issues, having published well over 100 articles and addressed national conferences on international submerged lands, international coastal zone management, coastal permitting, and coastal zone management, and land use law, as well as other professional groups on real estate and environmental law issues. He authored a chapter in a book on legal issues affecting the shopping center industry, and his article on the Public Trust Doctrine was published in the William and Mary Environmental Law and Policy Review. He also provides in-depth analysis of real estate, land use and environmental law issues on his blog, RhodeIslandPropertyLaw.com.

He served as a Congressional aide in the US Senate and the US House of Representatives and clerked for Judge John H. Pratt in the Federal District Court for the District of Columbia.

Mr. Boehnert graduated from Boston University (summa cum laude), attended the London School of Economics, and received his law degree from Georgetown University (cum laude).

Teresa Crean, Community Planner and Coastal Management Extension Specialist
Coastal Resources Center and Rhode Island Sea Grant, University of Rhode Island
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Teresa Crean is a community planner and coastal management extension specialist with the Coastal Resources Center (CRC) and Rhode Island Sea Grant at the University of Rhode Island's Graduate School of Oceanography. Teresa joined CRC/Sea Grant in 2008 and is currently facilitating municipal-scale projects in Rhode Island that address coastal adaptation to climate change and sea level rise. This work involves evaluating the results of mapping exercises to clearly communicate challenges and opportunities to municipal stakeholders while collaboratively considering policies and projects that may increase resiliency in the face of potential impacts from coastal hazards and storm events.

Teresa has also worked on renewable energy planning, marine spatial planning and coastal community planning, addressing public access and working waterfront issues. All of her work employs a research and planning process that integrates the best available science with open input and involvement from a broad range of stakeholders, decision makers and the public. Teresa also has worked for non-profit regional planning commissions and for planning/design firms in the private sector.

She earned a Master of Landscape Architecture (M.L.A.) from the SUNY College of Environmental Science and Forestry at Syracuse, a B.S. in Environmental Policy/Natural Resource Management from the University of Michigan and is a certified planner through the American Institute of Certified Planners (AICP).

Peter A. Healey, P.E., Chief Civil Engineer
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Mr. Healey is a registered Professional Engineer who holds an M.S. degree in Civil and Environmental Engineering. He has been employed in various positions at the Rhode Island Department of Transportation since 1990 and currently manages RIDOT's Highway Engineering office. In that capacity Mr. Healey is responsible for development of RIDOT's Interstate, Highway, Pavement Management and Bicycle/Pedestrian Programs. Previously, Mr. Healey managed the Environmental Resources Section and was responsible for securing and ensuring compliance with all State and Federal resource agency permits that are required to carry out all programs in all RIDOT Divisions. Mr. Healey was also previously the RIDOT resource agency liaison, and prior to that worked as a project manager where he successfully completed such notable projects as the Route 403/Quonset Access Road, and demolition of the 6,800' long old Jamestown Bridge.

Mr. Healey represents RIDOT on three AASHTO committees, the RI Community Development Block Grant Award Committee, and the RI Scenic Roadway Board. The professionals under his direction include Civil Engineers and Landscape Architects.

Lisa Lawless, P.E., Principal Engineer
RI Department of Environmental Management, Division of Planning and Development
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Lisa Lawless is the most senior engineer in the RIDEM Division of Planning and Development commanding a complete and thorough knowledge of civil engineering design and construction work covering a diverse array of projects. She has a proven track record delivering cost effective public facilities working with consultants, contractors and colleagues. Combines in-house design work and stamping plans with hiring outside consultants for the best way to balance resources and deliver cost effective facilities to the public.

Lisa stamped and signed over \$6 million dollars of construction contract work saving the State of Rhode Island over \$600,000.00 in design fees while demonstrating the most advanced design and construction supervision skill. Directed staff subordinates to prepare contract plans and specifications, bid and supervise contract construction under my Rhode Island professional engineer registration.

Lisa demonstrated highest level of skill successfully supervising contractors involving dozens of sub-contractors, suppliers, trades, field superintendents, RIDEM operating Division staff to deliver over \$38 million dollars of improved facilities for the public. Focused construction projects to meet budgets and keep change orders between 0 and 5% of the contract bid price.

Lisa has a positive relationships with consultants to successfully complete construction work in Rhode Island State Parks, beaches, and conservation areas involving dams, beach pavilions, buildings, roads, bike paths, marine piers and bulkheads, utilities, and public drinking water supply and distribution.

Lisa led the Department in the Green Economy by installing the first wind turbines, solar photovoltaic systems, composting toilets, LED lighting, and LEED buildings.

Elizabeth Stone, Director's Office
RI Department of Environmental Management
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Elizabeth Stone has been with the RI DEM Director's Office since 2000. For her first six years with RI DEM, she served as the Department's Legislative Director. Elizabeth recently transitioned into a position within the Director's Office working on a wide variety of policy and program development issues including climate change and resiliency. She holds a BA from Brown University and a Master in Public Policy (MPP), with a concentration in regulatory and environmental policy, from The College of William & Mary.

J. Craig Swanson, Ph.D., Principal Associate
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Dr. Swanson is a Principal Associate of Swanson Environmental Associates, was a Senior Associate of RPS ASA and a cofounder of Applied Science Associates. He has M.S. and Ph.D. degrees in Ocean Engineering from the University of Rhode Island. His professional focus has been on the development and use of hydrodynamic, water quality, sediment and pollutant transport computer models to provide solutions for public and private sector clients in river, lake, estuarine, coastal and shelf environments.

He has extensive experience in managing the use of hydrodynamic models and their applications to better understand circulation dynamics and to provide underlying transport information for other types of models. Projects have included the assessment of water quality impacts of pathogen loading from natural and anthropogenic sources, potential impacts of suspended sediment plumes and bottom deposition patterns from construction of offshore terminals as well as cable and pipeline burials, effects of high saline plumes from desalination plant operations, environmental effects of proposed offshore wind farms, cooling water plume discharges in support of new or renewal permit applications, heating water discharges from import (regasification) and cooling water from export (liquefaction) LNG terminals.

Dr. Swanson has recently served as advisor to senior level design courses in the ocean engineering department at URI analyzing the impacts of sea level rise and increased storm frequency and severity (storm surge and waves) on marinas, assessing coastal damage from these climate change factors in the Matunuck and the Misquamicut Beach areas in Rhode Island and evaluation of mitigation strategies.

Peter Troy, Vice President of Sales
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Peter Troy is Vice President of Sales with Cross Insurance, a family owned insurance agency made up of a network of wholly-owned subsidiary insurance agencies throughout Maine, New Hampshire, Massachusetts, Connecticut, New York, and Rhode Island.

Previously, Mr. Troy was a Managing Member of Troy, Pires & Allen, a firm providing such service offerings as auto, home, life, condo and business insurance to individuals, families and businesses throughout several states, including Rhode Island, Massachusetts and Connecticut. He worked with Troy, Pires & Allen for 36 years and saw the firm through its acquisition by Cross Insurance. Mr. Troy served on the board of the RI Coastal Resources Management Council from 1995 to 2001. He received his bachelors degree from the University of Rhode Island College of Business Administration.

David Vallee, Hydrologist-in-Charge
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David Vallee is the Hydrologist-in-Charge of the National Weather Service's Northeast River Forecast Center. The center provides detailed water resource and life-saving flood forecasting services to National Weather Service Forecast Offices and the hundreds of federal, state and local water resource entities throughout the Northeast and New York.

David has worked for the National Weather Service for 29 years, serving in a variety of positions including Senior Service Hydrologist at the Taunton Weather Forecast Office from 1993-2000 and as Science and Operations Officer from 2001-2006. David has extensive experience leading hydrometeorological forecast and warning operations and directing weather research and training programs. David's research activities span a variety of topics including flooding, severe weather forecasting and orographically enhanced heavy rainfall in southern New England. David has served as the NWS lead investigator with the State University of New York, at Albany, on a multi-year project addressing Land Falling Tropical Cyclones in the Northeastern United States. This research has improved the forecasting of heavy precipitation associated with these land falling tropical cyclones as well as improving our understanding the mechanisms which lead to the recurvature and rapid acceleration of tropical cyclones as they approach the Northeast. David was responsible for development of a new Short Range River Forecasting System which provides hydrologic forecast guidance based on three Numerical Weather Ensemble Predictions Systems. Most recently, David has been leading an effort at the Northeast River Forecast Center to examine changes in precipitation and temperature patterns across New England and their impact on flood behavior.

David is most known locally for his outreach and education work on the behavior of New England Hurricanes, including many appearances on local radio and T.V. networks, as well as appearing on documentaries on the Weather Channel, the History Channel and the Discovery Channel. David has been the recipient of numerous regional and national awards including the prestigious National Isaac Cline Award for Leadership. David is a graduate of Lyndon State College. He is a life long resident of the Rhode Island, living in the northeast part of Cumberland, with his wife and two sets of teenage twins! He considers it a tremendous privilege to be serving the people of the very region he calls home.

Upcoming EBC Programs

- Sep 27: NH Chapter Program – Managing PCB Impacted Building Materials
- Sep 29: Solid Waste Management Conference – “Talking Trash”
- Oct 4: Energy Resources Program: Wind Turbine Noise Update
- Oct 4: Program Series with MassDEP Leadership – Southeast Region Leadership Team
- Oct 13: Water Resources Meeting with David Ferris, Division of Watershed Permitting
- Oct 13: Construction & Demolition Program – Understanding the Issues Involved in Demolition
- Oct 14: Energy Resources Program – Invasion of the Offshore Wind Turbines
- Oct 20: Connecticut Chapter Program – Managing PCB Impacted Building Materials
- Oct 20: EBC & LSPA Young Professionals Networking Night at Harpoon Brewery
- Oct 21: New Hampshire Chapter Program – Briefing from NH DES Divisional Leadership Team
- Oct 25: Program Series with MassDEP Leadership – Northeast Region Leadership Team
- Oct 27: RI Chapter Program – Windows on Providence – Forward Thinking Development

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