

Agenda

Expected Climate Impacts on Structures and Communities

R. Alvarez

Identifying expected hazards:

- Storm impacts, flooding
- Sea level rise
- Wind and erosion
- Earthquakes, extreme temperatures, and more

How local governments, developers and designers can adapt

Floodplain Design, Construction, and Impacts on Flood Insurance

P. Marcello

Floods and potential hazards to buildings

FEMA, NFIP, ASCE, ICC, and Building Code regulations, codes, and standards

Floodproofing techniques and their role in designing sustainable structures

Adapting practices to meet future risks

Creating Resiliency in the Face of Risk

E. Deady/R. Haag

Creating an understanding of coastal resiliency

Reviewing existing maps and plans

Engaging community leaders, landowners and impacted populations

Identifying information needs, hazards and risks

Finding opportunities to inform, plan, and take action

Coastal Management Strategies for Buildings, Sites and Communities

L. Cardoch

Development of risk-based tools for strategy development

Integration of adaptive time-dependent solutions and funding

New funding options for solution

Implementation and response/recovery

Creating and Protecting Coastal Infrastructure

P. Cutt/J. Cederberg

Using/replacing traditional coastal infrastructure

Implementing new strategies for beach preservation

Using wetlands to protect coastal areas

Integrating Coastal Resilience with Other Practices

R. Alvarez

Emergency management practices

Stormwater management practices

Creating community resilience

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Designing and Building for Coastal Resiliency

Miami Lakes, FL - Friday, April 3, 2020



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Learning Objectives

You'll be able to:

Identify expected hazards, including storm impacts, sea level rise, wind and erosion, and extreme temperatures.

Explain floods, their potential hazards to buildings, and how to adapt practices to meet future risks.

Create an understanding of coastal resiliency and engage community leaders, landowners, and impacted populations.

Learn when to use and how to replace traditional coastal infrastructure.

Use wetlands to protect coastal areas.

Inform community members, integrate resilience with other planning goals, and review funding options.



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Examine expected climate impacts on structures and communities

Discuss floodplain design and review requirements for construction in floodplains

Learn about creating resiliency in the face of risk

Identify coastal management strategies for buildings, sites, and communities

Create and protect coastal infrastructure

Integrate coastal resilience with other practices

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7.0 CM Credits

Engineers

7.0 FL Area of Practice
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Floodplain Managers

7.0 ASFPM CECs



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Ricardo A. Álvarez is the founder of Mitigat.com. He is internationally recognized as an expert, researcher, educator, speaker and panelist, media resource, writer, editor and peer-reviewer, expert witness and consultant in the fields of hazard mitigation, vulnerability assessment, climate change adaptation focusing on the built-environment, coastal region vulnerability, risk and resilience, hazard-resistant design and construction, risk assessment and management, mitigation planning, and benefit-cost analysis applied to mitigation alternatives. In addition to his private consulting activities, Mr. Alvarez is also a Research Associate of the Florida Center for Environmental Studies at Florida Atlantic University, and he is a member of the Miami-Dade County Local Mitigation Strategy Steering Committee. He is the author of *Paraíso Protegido: hacia una cultura de mitigación* and *Hurricane Mitigation for the Built Environment*.

Paul Marcello is the Flood Mitigation Specialist for Floodproofing.com in the state of Florida. He is a college graduate of Johns Hopkins University Class of '13 with a degree in Materials Science and Engineering. He has extensive knowledge on FEMA and building code flood regulations and can assist with commercial and residential floodproofing designs. With a background of 100+ presentations promoting for flood resilience, Mr. Marcello has instructed architects, code officials, surveyors, builders, and homeowners on best practices for flood mitigation.

Erin L. Deady is the president of Erin L. Deady, P.A., a full-service legal and consulting firm. She is a licensed attorney in Florida, a certified land planner by the American Institute of Certified Planners and a LEED AP. Ms. Deady's practice is primarily focused on public sector government representation but also includes numerous private sector and agricultural clients. Her practice includes environmental restoration initiatives, water, energy, climate, local government, administrative law and land use issues. A large area of the firm's representation is helping clients navigate the increasing challenges of resiliency and climate adaptation and potential liabilities associated with responding to climate change.

Rhonda Haag is the Sustainability Director and acts as the Chief Resilience Officer for Monroe County, located in the Florida Keys. She has been with the County for nine years and leads the County's resiliency and sustainability efforts to help prepare the County and its coastal communities for the effects of sea level rise in what is one of the most vulnerable regions in the country. To assist in these efforts, Ms. Haag serves as an active member of the Southeast Florida Regional Climate Change Compact Steering Committee. Her experience includes previous service with the Florida Department of Environmental Protection and the

Seminar Information

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Tuition
\$299 for individual registration
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Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

South Florida Water Management District, where she served in several roles including Service Center Director, Everglades Outreach Manager, and Contracts Manager.

Dr. Lynette Cardoch leads Moffatt & Nichol's resiliency services as the Director of Resilience & Adaptation. She is a coastal ecologist with over 20 years of experience in regulatory & water policies, coastal restoration, and urban & coastal resiliency. Her assignments include steering interdisciplinary teams of engineers, scientists, and regulators. Dr. Cardoch has also worked closely with coastal utilities and natural resource agencies on integrated planning and operationalizing resiliency, particularly for coastal protection, storm surge, and interior flooding. She has been appointed to the Biscayne Bay Task Force and also serves as a government relations liaison, taking science and engineering to the policy level.

Penny Cutt is Edgewater Resources' Director of Environmental Sciences and brings to the firm 25 years of experience in environmental monitoring, assessment, planning and regulatory permitting. Ms. Cutt oversees all coastal and waterfront projects in the southern half of the US and the Caribbean. As a marine ecologist in the public and private sectors, she easily navigates the complex web of environmental regulations that dictate aquatic and coastal ecosystems. She is able to quickly evaluate complex scientific information and communicate it to lay leaders for decision-making purposes. The first half of her career was in the public sector administering federal, state, and county environmental regulatory programs. Ms. Cutt is passionate about protecting the coastal environment and resources in her own backyard and serves on the Broward County Marine Advisory Committee. She is vice-chair of the Pompano Beach Marine Advisory Board, serves on the Pompano Beach Zoning Board of Appeals, and is a board director of Friends of Our Florida Reefs.

Jannek Cederberg, PE is originally from Denmark and earned his Master's degree in coastal engineering from the Technical University of Denmark. Prior to relocating to Miami, he worked in the coastal and marine engineering departments for two large international consulting firms. Mr. Cederberg has served as principal engineer for numerous internationally acclaimed waterfront projects. Mr. Cederberg has been selected to participate in expert groups related to marina design and waterfront development as well as serve as an expert witness. He is a recognized speaker on coastal resiliency in Florida. Mr. Cederberg is a registered professional engineer in the State of Florida.

Additional Learning

Webinar Series
Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., March 4, 2020, 11:00 AM - 2:15 PM CST
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., March 5, 2020, 11:00 AM - 2:15 PM CST

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Registration

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