

Agenda

Understanding Floods, Flood Maps, Flood Damage and the National Flood Insurance Program (NFIP)

B. Nechamen

- Floodplain basics
 - Types of flooding and flood damage
 - Inland
 - Riverine
 - Coastal
- Flood insurance rate maps
- Flood zones
- Flood insurance studies
- Authorities having jurisdiction
- Case studies

Designing and Constructing Flood-Resistant Buildings in Compliance with Codes and American Society of Civil Engineers (ASCE) 24-14 and NFIP Requirements

B. Nechamen

- Basic design and construction requirements
 - Elevation requirements
 - Foundation requirements
 - Use of fill
 - Anchorage and connections
- Loads in flood-prone buildings ASCE 7
- Breakaway walls and slabs
- Flood vents and openings

Landscape and Site Considerations for Flood Resilience

T. Klein

- Hydrology, site grading, and drainage systems
- Techniques for managing water on site (with case studies)
 - Infiltration
 - Evapotranspiration
 - Detention/retention/floodable spaces/compensatory storage
 - Grey vs green infrastructure
- Best management practices in stormwater management and pluvial flooding
- Site-scale interventions vs community-level interventions

WEDG® (Waterfront Edge Design Guidelines)

J. Sutkowski

- Rating system basics
- WEDG in policy and practice
- Case studies



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Flood-Resistant Design and Construction

Live, Interactive Webinar - Monday, August 26, 2024

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Learning Objectives

You'll be able to:

- Discuss** floodplain basics and explore the National Flood Insurance Program (NFIP).
- Identify** basic requirements for the construction of flood-resistant buildings.
- Comply** with ASCE 24-14 and NFIP requirements for flood-resistant design.
- Consider** landscape, infiltration, water detention/retention and grey vs. green infrastructure in the design of flood-resistant structures.
- Explore** the Waterfront Edge Design Guidelines (WEDG) and case studies.

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Flood-Resistant Design and Construction

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- Explore** types of flooding and flood damage
- Discuss** the structure and requirements of the National Flood Insurance Program
- Build** in compliance with flood-resistance codes and standards
- Examine** landscape and site considerations for flood resistance
- Consider** the Waterfront Edge Design Guidelines (WEDG)

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- | | |
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Faculty

William Nechamen, CFM *Nechamen Consulting, LLC*
Mr. Nechamen was the floodplain coordinator for the State of New York Department of Environmental Conservation for 21 years. During that period, he helped to promote higher floodplain standards in New York, including enacting a two foot “freeboard” requirement in New York’s building code, saving property owners millions of dollars in flood losses and flood insurance premiums. One of the founders of the New York State Floodplain and Stormwater Managers Association (NYSFSMA), a professional association with over 600 active members, Mr. Nechamen was their first chair and currently serves the Association as its treasurer. Mr. Nechamen has been a Board member of the Association of State Floodplain Managers (ASFPM) at various times for 13 years. ASFPM represents over 15,000 professionals across the United States and internationally and is a key national voice in policies designed to reduce flood risk while preserving the natural and beneficial functions of floodplains. Mr. Nechamen served as chair (2013-2015), vice-chair (2011-2013) and treasurer (2008-2010) and is currently co-chair of the Floodplain Regulations Committee. He has received the ASFPM Meritorious Lifetime Achievement in Floodplain Management Award. In his capacity as floodplain coordinator, Mr. Nechamen has led workshops and training sessions on the National Flood Insurance Program (NFIP), floodplain management and regulations, understanding and interpreting flood maps, flood insurance and the Community Rating System.

Tom Klein, ASLA, WEDG
Waterfront Planning and Design Advisor at the Waterfront Alliance
Mr. Klein, ASLA, WEDG, is the waterfront planning and design advisor at the Waterfront Alliance. As a landscape and urban designer, he is passionate about crafting engaging public spaces that perform ecologically and socially. He brings a varied background that includes academic and professional experience in community sustainability, coastal resilience, environmental management, and active transportation planning to his role with the Waterfront Alliance. Mr. Klein first began working with the Waterfront

Alliance as a WEDG Volunteer in 2017 and has been a WEDG Professional since 2019. He has since been actively involved in WEDG’s expansion, assisting in the launch of WEDG v3.0 as a WEDG Fellow and leading initiatives including the development of a WEDG Workshop in Denver which hopes to expand efforts in both the public and private sectors throughout the Colorado Front Range. Mr. Klein is most compelled by large-scale projects that blend infrastructure and design. As a practicing designer, he has been fortunate to work on a variety of projects where human and non-human systems come together, rethinking the role of infrastructure in our cities.

Joseph Sutkowski, WEDG *Chief Waterfront Design Officer at the Waterfront Alliance*
Mr. Sutkowski, WEDG, is the chief waterfront design officer at the Waterfront Alliance. Joseph leads the WEDG (Waterfront Edge Design Guidelines) program and oversees Waterfront Alliance’s resilience planning project in Flushing Meadows Corona Park. He brings significant experience in ports, offshore wind, climate resilience planning, economic development policy, and infrastructure. Previously, Mr. Sutkowski was a senior consultant at Karp Strategies, a New York City-based urban planning and economic development consulting firm where he led projects in infrastructure, real estate development, and sustainability. In previous roles, he worked with Living Cities on equitable procurement, a New York City Council member on transportation, the American Red Cross in disaster response operations, and the University of Michigan in foundation relations. Mr. Sutkowski resides in Queens, New York. He holds a bachelor's degree in Public Policy from the University of Michigan and a master's degree of Public Administration from New York University's Wagner School. He is a member of the Urban Land Institute's New York City Infrastructure Product Council, co-chair of a committee of the New Jersey Coastal Resilience Collaborative, an Advisory Board Member for the National Working Waterfront Network, and a member of the New Jersey Association of Floodplain Managers.

Credit Information

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