

Agenda

Designing to Withstand Fire

Abeer Sweis

- The five factors that highly influence the fire resistance of a building
- Going above and beyond code
- Designing for fire resistance also achieves success with other factors
- Resilience and sustainability

Assessing the Impact of Sea Level Rise on the Pacific Coast's Built Environment

David Revell

- Coastal hazards
- Scientific projections of sea level rise
- Assessing vulnerabilities of the built environment
- Adapting future building plans to sea level rise

Understanding Causes of Structural Failures

Casey K. Hemmatyar

- Lessons learned from historic failures
- Design errors
- Defective construction
- Material deficiencies
- Excessive loadings
- Deterioration and degradation

Impact of Extreme Weather Events on Structures and Communities

Mike Hill

- A discussion on the effects of large storm events on the built environment
- Primary and secondary hazards of large storm events
- Increased frequency and intensity of storms
- Current strategies to mitigate impacts, preserve structures and protect infrastructure

Adapting New Construction and Retrofitting Existing Buildings to Withstand Extreme Weather Events & Natural Disasters

Casey K. Hemmatyar

- Implementing design strategies to protect new and existing structures
 - Wind load resistance
 - Earthquake resistance
 - Flood resistance

Case studies of flood affected structures in Montecito mudslide, Santa Barbara

Designing for Resiliency

Santa Barbara, CA - Thursday, May 30, 2019

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Learning Objectives

You'll be able to:

- Discuss** designing for fire resistance.
- Adapt** future building plans to accommodate sea level changes.
- Examine** design errors that have caused historic structural failures.
- Identify** the effects that large storm events have had on the built environment.
- Review** case studies of flood affected structures in the Montecito mudslide.



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Designing for Resiliency

Santa Barbara, CA - Thursday, May 30, 2019



Go beyond the code in designing buildings to withstand fire

Assess the impact of sea level rise on the Pacific Coast's built environment

Understand design errors that lead to structure failures

Explore current strategies to mitigate extreme weather impacts, preserve structures and protect infrastructure

Implement design strategies to protect new and existing structures

Continuing Education Credits

Professional Engineers
6.5 PDHs

Contractors
Non-Credit Continuing Ed.

Architects
6.5 HSW Continuing Ed. Hours*
6.5 AIA HSW Learning Units

**does not qualify for California accessibility requirement*



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Faculty

Abeer Sweis *Architect with SweisKloss in Santa Monica*

Ms. Sweis is passionate about all things design. While she also has intimate knowledge of construction and structural engineering, it is her innate ability to look at a potential project and see myriad design possibilities that has helped make her company a success. She knew at a young age that she wanted to become an architect. When she was 10, her family moved from her native Amman, Jordan, to Los Angeles, where she went on to receive her Bachelor of Architecture degree from Woodbury University. While working as a designer at a small architecture firm, she acquired the technical knowledge and business skills to build her own company. In 1998, she started her own design firm, and in 2006 she partnered with her husband Jeff Kloss to create the construction side of the company, fulfilling their design + construct vision. Ms. Sweis strongly believes that architecture and the built environment should have the ability to change how we live/work as well as to be both resilient and sustainable. Since 1995, she has taught at UCLA Extension, Cal Poly Pomona, Pierce College, Woodbury University and other Los Angeles area architecture and design schools. A leader in her community, Ms. Sweis is a distinguished past president of the Kiwanis Club of Santa Monica and an involved parent of two rapidly growing children.

David Revell, Ph.D *Principal and Chief Coastal Scientist with Revell Coastal in Santa Cruz*

Dr. Revell has been involved in coastal management and coastal process assessments for over 25 years. He began pioneering climate-related work in 2008 with the initial technical hazard analysis and vulnerability assessment for the Pacific Institute study “The Impacts of Sea Level Rise to the Coast of California.” More recently, Dr. Revell has completed hazard modeling for the coastal resilience projects for the Nature Conservancy in Ventura, Santa Barbara, Los Angeles, Santa Cruz, and Monterey Counties; conducted numerous vulnerability and adaptation planning studies; and lead interdisciplinary teams of economists, legal scholars, and engineers to evaluate potential erosion mitigation (adaptation) strategies across the California Coast. He has recently completed and remains currently engaged in many vulnerability and adaptation studies along the California Coast including San Mateo County (present), Marina (present), Carpinteria (present), County of Ventura (present), Oxnard (2017), Santa Barbara County (2017), Los Osos (2017), Imperial Beach (2016), Carlsbad (2016), Santa Monica, Goleta (2015), Pacific Grove (2016), Monterey (city and county), and Santa Cruz County (2015). In addition to climate

change and coastal hazards assessments, Dr. Revell works on coastal lagoons and estuaries across the state with work in Goleta and Devereux Sloughs in Santa Barbara County; the Santa Clara and Ventura Rivers in Ventura County; and San Lorenzo River, Scott Creek, and Waddell Creek in Santa Cruz County. He has been appointed to the science advisory committee for the Southern California Wetlands Recovery Project. He has a reputation for pioneering new approaches with collaborative teams to meet the unique demands of every project and to communicate results in an understandable manner to a wide range of audiences.

Mike Hill *D. Arch, Assoc. AIA, and associate and Design Resilience Leader with Gensler*

Mr. Hill has 13-plus years of architectural and planning experience. Previously, he lived and worked in Hawaii where he focused on resort master-planning and design. He graduated from UH Manoa with a doctorate of Architecture degree where he wrote his dissertation on hurricane-resilient design for multifamily high-rises on the south shore of Oahu. At the same time, he was a graduate research assistant at the NDPTC where he developed courses on disaster mitigation for FEMA. Mike has also been an advisor for the AIA in developing a suite of courses on disaster mitigation and adaptation.

Casey Hemmatyar, SE, *Engineer with Pacific Structural and Forensic Engineers Group*

As a forensic structural and civil engineer and an expert consultant with over three decades of experience, Mr. Hemmatyar has provided extensive services for defendant and plaintiff attorneys on construction litigation matters in single cases and class actions in both state and federal courts. His understanding of core legal concepts has enabled him to assist his attorney clients in the most efficient manner. He brings diversified experience in the fields of structural, civil and forensic engineering including experience in design, investigation, evaluation, research, building code and standards development, and construction supervision of US, Canada and international projects. His experience includes new buildings and special structures, as well as modifications, alterations, seismic/wind retrofits and upgrades. He has provided failure analysis, expert consultation, structural forensic investigation and damage assessment services for many litigation and insurance-related matters. He has been principal structural engineer on projects for clients such as NASA and several other high profile agencies. Currently he works as director at PSFEG, and he served as director for the Structural Engineers Association of Southern California (SEAOSC) in 2011-2013.

Seminar Information

Hyatt Centric Santa Barbara
1111 East Cabrillo Blvd.
Santa Barbara, CA 93103
(805) 882-1234

Tuition
\$289 for individual registration
\$269 for three or more registrants from the same company at the same time.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

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.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in most states with continuing education requirements. This seminar does not qualify for California’s mandated accessibility continuing education requirement for architects.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota.

HalfMoon Education is deemed an approved architect continuing education sponsor for New York architects.

This course also offers a non-credit continuing education opportunity for construction contractors. Credit approval is not being sought in any state with a contractor continuing education requirement.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Designing for Resiliency
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How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Code:	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Complete the entire form. Attach duplicates if necessary.	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		 Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

- ☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.
- ☐ CD/Manual Package for **\$289.00**.

(S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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