

Agenda

Wildfire Science and History

R. Hazard

- History of wildfire in California
- Causes and effects of wildfire
- Effect of fire on built environment
- Land use planning
- California State Fire Plan and local fire planning

Effective Site Planning of Structures and Landscape for Fire Prevention

E. Bildsten

- Overall principles of fire movement based on wind, topographic landform and native landscape
- Strategies for resilient structure site planning
- Strategies for resilient landscape design
- Case studies - successful and unsuccessful outcomes

Automated Wildfire Suppression System

T. Cole

- Environment - Fast moving, wind-driven brush fires
 - Fire temperatures
 - Thermal ignition
 - Wind-borne ember ignition
- Components
 - Fire wire
 - Deluge triggering systems
 - Storage tanks
 - Pumping systems
- Installation
 - Where and why
- Permits
 - Fire Department
 - County
 - ABR

Fire-Resistant Building Exteriors

B. Henson

- Reviewing building codes and standards
- Fire-resistant building materials and construction techniques
- Fire-resistant roofs
- Fire-resistant wall systems
- Fire-resistant doors and windows

Other Fire-Resistant Structures

T. Cole

- Retaining walls
- Decks and patios
- Paths and walkways

Fire-Resistance Workshop

B. Henson

- Designing a new fire-resistant residence
- Retrofitting an existing residence

Fire-Resistant Landscapes and Building Exteriors

Santa Barbara, CA - Wednesday, February 13, 2019



Halfmoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

- Analyze** the causes and effects of wildfires.
- Explore** the effect of fire on built environment.
- Understand** the overall principles of fire movement based on wind, topographic landform and native landscape.
- Discuss** components of wildfire suppression systems, such as fire wire, deluge triggering systems, storage tanks and pumping systems.
- Utilize** strategies for resilient structure site planning and landscape design.
- Evaluate** site planning case studies with successful and unsuccessful outcomes.



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- Understand** wildfire science and history
- Learn** about automated wildfire suppression systems
- Identify** fire-resistant structures
- Explore** fire-resistant building exteriors
- Examine** effective site planning of structures and landscape for fire prevention
- Discuss** designing new fire-resistant residences and how to retrofit an existing residence

Continuing Education Credits

- Architects**
 - 7.0 AIA HSW Learning Units
- Professional Engineers**
 - 7.0 Continuing Ed. Hours
- Landscape Architects**
 - 7.0 LA CES HSW PDHs
- Contractors**
 - Non-Credit Continuing Ed.



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Faculty

Robert Hazard has been a member of the Santa Barbara County Fire Department for 20 years and is currently the Deputy Fire Marshal, Battalion Chief rank. He began his fire service career with the US Forest Service in 1988, working on the Los Padres National Forest as a member of the Los Prietos Hotshot Crew. Ten years of wildland firefighting in the USFS Hotshot program developed in him a strong affinity for the wildfire discipline that he has kept throughout his career. Mr. Hazard was born and raised in Santa Barbara, attended Santa Barbara City College, and lives on the Santa Barbara South Coast. He is currently serving on the Board of Directors for the Santa Barbara County Fire Safe Council. Mr. Hazard is also a SBCFD Wildland Academy lead instructor, SBCFD Wildland Steering Committee member, and SBCFD RT-130 instructor. He is part of the USFS Region 5 California Central Coast Incident Management Team and the Santa Barbara County Operational Area Incident Management Team 3.

Ellen Bildsten AIA is principal architect at Bildsten Architecture and Planning, Inc., a Santa Barbara-based firm that brings integrated design skills and sustainable strategies to a wide variety of projects. These include commercial, campus, residential and multifamily housing projects on California’s central coast. Projects focus on integration of indoor/outdoor spaces and the interaction of private and public areas, both in individual structures and in the planning of communities. The work style is collaborative and team-oriented, working closely with owners and users to develop carefully-considered design concepts that address programmatic needs and goals. The firm draws upon the expertise of consulting engineers for an integrated project approach that is mindful of budget and gives high priority to functional design and energy efficiency. The architectural team remains fully engaged throughout the project, guiding the process from initial design concept through construction documents, permitting, bidding, and construction administration. In addition to heading the firm, Ms. Bildsten is committed to the Santa Barbara chapter of the American Institute of Architects. She served as chapter president in 2011 and continues as advocacy chair, heading numerous efforts related to zoning for multifamily housing, Santa Barbara downtown revitalization, and fire/debris flow recovery efforts with the County.

Seminar Information

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

Tuition

\$279 for individual registration
\$259 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 a non-credit continuing education opportunity to California architects, professional engineers, and landscape architects. Continuing education for California engineers and landscape architects is not required for license maintenance or renewal in California. This course does not qualify for California architects’ accessibility continuing education requirement.

The American Institute of Architects has approved this seminar for 7.0 HSW Learning Units (Sponsor No. J885). The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES.

This course qualifies for architect and professional engineer credit in all states. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

Thomas Cole is the owner of Cole Design Montecito and is a builder, licensed California general contractor, developer, designer, patented inventor and long time Montecito resident. Over his 40+ year career he has specialized in foundation and drain projects, fire prevention designs and installation of hundreds of surface and subsurface drain and pumping systems. Mr. Cole has drained apartment complexes, a golf course and even a municipal airport. He has drawn hundreds of his own plans for permits on foundation and drainage projects all over California. Mr. Cole holds several patents/pending for stormwater gathering devices, a police-used tear gas dispersing device and other pending devices. He also earned a juris doctorate degree at night school, graduating from the Santa Barbara Institute of Law in 2000. After he and his family were evacuated from Montecito for the fourth time in 2009, he designed an automated wild fire suppression system and has been spreading this information ever since. The system uses all Cal Fire tested and approved existing equipment. After extensive research of matching pumps to generating systems, and triggering systems to actuator systems, the present design emerged as a stand-alone solution. He offers talks on these systems, their construction, operation and results.

Bryan Henson is the president and CEO of Bevyhouse and is a nationally-recognized leader in the custom residential and remodeling world. He grew his former company, Allen Construction, to one of the top five remodeling companies in the US. While at Allen he expanded the company from 45 to 130+ employees, increased the company’s geographic reach from Paso Robles, California to Los Angeles, and initiated multiple divisions within the company to serve their clients. Mr. Henson recently started Bevyhouse, an innovative modular home building company, to address the challenges of labor shortages, increasing costs, and long timeframes associated with standard construction projects. Bevyhouse is currently working on fire rebuild projects across the state from Malibu to Mendocino.

This seminar offers a non-credit continuing education opportunity to construction contractors.

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!

An audio recording of this seminar is available for \$289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Fire-Resistant Landscapes and Building Exteriors

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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		Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Code:	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		
		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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the self-study package for **\$289.00**.
☐ Downloadable MP3 Audio/PDF Manual
☐ CD/Manual Package
(S&H included. Please allow five weeks from seminar date for delivery)

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City:	_____ State: _____ Zip: _____
Signature:	_____
Email:	_____