Credit Information

Masonry Design and Construction

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 5554646), Indiana (License No. CE21655559), Maryland, New Jersey (Approval No. 24GP55555655), and North Carolina (S-5135). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Mass Timber Design and Construction under IBC 2021

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all states.

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The American Institute of Architects Continuing Education System has approved this course for 7.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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Live, Interactive Webinars
- Masonry Design and Construction
- Mass Timber Design and Construction under IBC 2021

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Masonry Design and Construction

- Thursday, July 29, 2021 | 11:00 am - 2:45 pm CDT
- Friday, July 30, 2021 | 11:00 am - 2:45 pm CDT

Mass Timber Design and Construction under IBC 2021

- Friday, July 30, 2021 | 8:30 am - 4:30 pm CDT

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Masonry Design and Construction

Thursday, July 29, 2021 | 11:00 am - 2:45 pm CDT (incl. two 15-min breaks)
Friday, July 30, 2021 | 11:00 am - 2:45 pm CDT (incl. two 15-min breaks)
Tuition: $289 per registrant, $199 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Building)

Agenda Day One:

Exploring Masonry Materials and Applications
- Masonry units: clay, concrete, stone and other materials
- Sizes, standards and grades
- Mortars, grouts and admixtures

Foundations and Structural Masonry
- Columns and beams
- Horizontal and vertical reinforcement
- Moisture control: damp proofing vs. waterproofing
- Thermal performance and insulation

Masonry Veneers and Claddings
- Moisture control: drainage, flashing and sealing
- Reinforcement and anchors
- Controlling movement: thermal and moisture expansion/contraction
- Lintels, shelves and ancillary hardware

Agenda Day Two:

Special Applications in Masonry Construction
- Arches
- Fireplaces and chimneys
- Masonry paving

Masonry Construction Procedures
- Staging and access
- Layout
- Coursing
- Connections and fasteners
- Doors and windows
- Drainage plane, flashing and weeps

Reviewing Codes and Guidelines for Masonry Construction
- International Building Code (IBC)
- American Concrete Institute (ACI)
- The Masonry Society (TMS)
- American Society of Civil Engineers (ASCE)
- American Society for Testing and Materials (ASTM)

Presented by

David Shofstahl is a seasoned masonry project manager and field supervisor specializing in high-end residential and commercial markets in Virginia and West Virginia. With over 25 years of field experience as a mason, he understands and appreciates the diverse challenges of masonry design and construction. He is an unrelenting problem-solver who is often consulted for professional insight concerning masonry aesthetics and function. Mr. Shofstahl maintains a passion for the time-tested durability of historic masonry practice while also embracing current, cutting edge advancements in construction.

While still consulting in masonry construction, Mr. Shofstahl is also the Apprenticeship Coordinator and the Workforce Trades Program Manager at Dabney S. Lancaster Community College. He holds a BS degree in Civil Engineering Technology and a MS degree in Human Resource Education; he is currently working on a Ph.D degree in Education with a research focus on workforce development and skills gaps in the trades. Mr. Shofstahl is a certified instructor in the National Center for Construction Education and Research (NCCER) curriculum and an OSHA Authorized Construction Trainer for 10- and 30-hour outreach training programs.

Mass Timber Design and Construction under IBC 2021

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Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
AIA: 7.0 LU|HSW International Code Council: .7 CEUs (Building)

Agenda:

The History of Building Construction and the Advent of Mass Timber — *M. Fiebig*
- History of steel frame, concrete and masonry construction
- New products and techniques
- Recent projects
- International Building Code 2018, 2021

New Tall Wood Construction Types — *M. Fiebig*
- Type IV-HT
- Type IV-A
- Type IV-B
- Type IV-C

Fire Resistance and Noncombustion Protection — *M. Seaboldt, J. Ierardi*
- Fire resistance provisions
- Noncombustion provisions
- Additional fire protection provisions

Allowable Building Heights and Area — *M. Seaboldt, J. Ierardi*

Fire Safety During Mass Timber Construction — *M. Chubb*
- Understanding fire risks
- Mitigation measures
- Owner responsibility
- High-rise sprinkler systems
- Other code provisions that impact mass timber construction

Mass Timber Case Study — *M. Chubb, S. Mokashi*
- Designing a mass timber building
- Workshop on meeting code requirements

Presented by

Michael J. Fiebig, RA, AIA, NCARB, LEED GA, CFPS, Inc. holds a Bachelor of Environmental Design degree from the University of Colorado, Boulder, and a Master of Architecture degree from the University of Colorado, Denver. He is a licensed architect in several states, and he provides both consulting and design services to clients throughout the country. Mr. Fiebig is an active member of the American Institute of Architects, as well as an NCARB certificate holder. He is a LEED green associate, as well as a certified fire protection specialist, credentialed through the National Fire Protection Association. As a forensic architect, Mr. Fiebig provides analysis of architectural standard of care in design and construction projects, with special emphasis on multi-family residential projects. He performs cause and origin analyses of building system installations and failures, including roofing systems, window and door systems, exterior wall cladding systems, waterproofing, and foundation systems, with a specialization in passive fire-resistive assemblies and active fire-protection systems. He provides premises liability analysis regarding slip/trip and fall accidents and accessibility code compliance, and he provides maintenance and inspection procedure analysis with an emphasis on NFPA 25: Standard for the Inspection, Testing, and Maintenance of Water-based Fire Protection Systems. As well, he performs damage assessments on existing facilities related to storms, accidents, fire, and natural disasters. As a design architect, Mr. Fiebig provides traditional design services for residential and light commercial buildings, and provides code consulting for clients, specializing in life/safety, egress, and fire protection code requirements to assist clients in properly designing and detailing these critical elements of design and construction. He also provides traditional services during construction including construction observations and special inspections when required by the jurisdiction of authority. Mr. Fiebig's experience includes several trial and deposition testimonies regarding design, construction, and the built environment, as well as mediation and arbitration support for litigation purposes. Mr. Fiebig holds active memberships in many professional organizations including AIA, NCARB, NFPA, USGBC, NICET, and others. He is a published writer in Common Ground, the national magazine for the Community Associations Institute.

Jay Ierardi, PhD, PE, is a partner with AKF Group. He creates custom code compliance approaches for design and construction professionals involved in commercial building projects. He has been very successful developing and implementing solutions for clients that are concerned about permitting delays due to the complexity of code requirements, unhappy with design changes required by local authorities that slow down the project schedule, or disappointed by the amount of time it takes to resolve code issues during the design and construction process. He is an ICC certified special inspector for tall mass timber buildings and was a contributing author of the SFPE Engineering Standard for Calculating Fire Exposure to Structures.

Mariah Seaboldt, PE, AKF Group, is a licensed fire protection engineer with extensive experience in building, fire, life safety, and accessibility code consulting. She holds a master's degree in fire protection engineering and bachelor's degree in civil engineering. Combining her technical knowledge with her passion for educating others, Ms. Seaboldt has presented on a variety of topics related to building and fire codes. She is also an accomplished author, having been published in *Construction Specifier*, *Consulting-Specifying Engineering*, and *Construction Business Owner*. As a member of AKF Group's Architectural Code Consulting team, she applies her expertise to a variety of project types, including, senior living, healthcare, residential, commercial, higher education, transportation, and hazardous material protection.

Mark Chubb, CFPS FIFireE, AssocAIA, is a principal at Code Unlimited and oversees the company's Seattle office and fire protection practice group. He has more than 35 years of international professional and technical experience in the public, private, and non-profit sectors leading code development and administration. He is a fellow of the Institution of Fire Engineers and serves on the organization's international board of directors and trustees. Mr. Chubb is also a fellow of the Chartered Management Institute, a Certified Fire Protection Specialist, and an associate member of AIA. In addition to code consulting, Mr. Chubb teaches graduate courses in the MSc program in emergency management at John Jay College of Criminal Justice, City University of New York.

Samir Mokashi is a founding principal at Code Unlimited, a code consulting firm with offices in Oregon, Washington, New York, and Tennessee. He received an undergraduate degree in Architecture from Sir J.J. College of Architecture in India and his masters degree in Architecture from the University of Oregon. He has over 25 years of experience in architectural design, project management, business management, and code compliance. Mr. Mokashi is highly respected for his knowledge of the codes, his ability to guide complex projects, his dynamic presentations, and his insightful code seminars. Code Unlimited is a full-service code consulting firm with the ability to handle projects of varying sizes and complexities with deep knowledge of ICC codes, state adoptions, ADA standards, OSHA regulations, and many NFPA standards. The firm is well known for its ability to resolve complex code issues using computer modelling, and other performance analysis methods when prescriptive paths are not available or desirable.