HalfMoon Education Inc. presents:

Wood Frame and Steel Frame Design and Construction

Eagan, MN • Friday, September 19, 2014

Ethics
B. Johnson

Competency
Continuing education
"Standard" of care
Duty to inform
Engineered design/complete load path
Responsible charge/direct supervision

Wood Frame Fundamentals
B. Johnson

Short history of the development of conventional wood framing
American Wood Council’s National Design Specification for Wood Construction
Wood framing provisions of the International Building Code
Prescriptive design for wind and seismic loads
ASCE-7-10 wind load ‘changes’
Prescriptive fire resistance vs. calculated fire resistance
Plan requirements
Roof/floor framing choices (truss, I-Joist, dimensional, IVL)
Beams, posts and trusses
Special inspection and testing, in-situ testing
Anchorage/load path/connections and fasteners

Steel Frame Fundamentals
F. Beukema

American Institute of Steel Construction (AISC) and American Iron and Steel Institute (AISI) code applicability
Project conception and material choices
Schematic design choices
Conceptual framing decisions
Roof framing choices: truss or stick frame
Design tools and software
Hold down and braced wall panel design
Connections and fasteners
Mechanical, electrical and plumbing coordination

Register online at: www.halfmoonevents.com

Identify key fire resistance considerations in wood frame projects.
Determine AISC and AISI Code applicability in steel frame design and construction.
Understand hold-down and braced wall panel design and review roof framing choices for steel frame buildings.
Coordinate mechanical, electrical and plumbing in steel frame projects.

Review ethical issues including competency, standard of care and duty to inform.
Examine roof and floor framing choices in wood frame construction.
Analyze code applicability for steel buildings along with schematic design and roof framing choices.
Explore steel frame design tools and software.

Architects
7.0 Contact Hours (PDHs)
7.0 AIA HSW Learning Units

Professional Engineers
7.0 PDHs, including 1.0 Ethics Hour

Contractors
Voluntary Continuing Ed.
About the Seminar

Friday, September 19, 2014

Holiday Inn Airport SE - Mall Area (651) 454-3454
2700 Pilot Knob Road • Eagan, MN 55121

$269 for one or $249 each for three or more from the same company, registering at the same time. Each registration includes one copy of Wood Frame and Steel Frame Design and Construction.

Four Easy Ways to Register Today!

Register online at www.halfmoonseminars.com, mail in registration form to HalfMoon Education Inc., PO Box 278 Altoona, WI 54720-0278, fax the form to (715) 835-6066, or call a customer service representative at (715) 835-5900.

Cancellations: Cancel at least 48 hours before the start of the seminar (CDT), and receive a full tuition refund, minus a $39 service charge for each registrant. If you cancel after that time, you may choose to apply a credit toward another seminar or the CD/manual package. You may also send another person to take your place.

Earn continuing education credit!

This seminar is open to the public and offers up to 7.0 HSW continuing education hours to architects and 7.0 PDHs, including 1.0 ethics hour, for professional engineers in most states, including Minnesota. Courses and providers are not subject to preapproval in Minnesota.

This seminar is registered with the American Institute of Architects for 7.0 HSW Leaning Units (Sponsor No. J985). Courses approved by the AIA qualify for Indiana and New Jersey architects.

HalfMoon Education is an approved continuing education sponsor for architects in Florida and is deemed an approved sponsor in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey, New York (NYSED No. 35), North Carolina, and North Dakota.

Attendance will be monitored and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates are available after the seminar for most individuals who complete the entire event.

CD/Manual Package: An audio recording of this seminar is available for $279 (including shipping). Allow five 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.

Faculty

Brian Johnson, PE, M.S.C.E. Chief Forensic Engineer, Forensic Building Science, Inc.

Mr. Johnson is a forensic engineer with Forensic Building Science, Inc. His work focuses on the investigation of structural defects and other deficiencies, legal support, report writing, expert witness services and expert report drafting. Mr. Johnson also handles structural engineering of repairs to existing structures, primarily wood-framed single-family: townhomes, and two to three-story apartment/condo complexes. He has performed peer reviews, has design experience for steel joist/steel beams in high uplift regions, and has past experience with the Uniform Building Code, Building Officials and Code Administrators Codes and the Standard Building Code, as well as in moderate earthquake regions. A professional engineer in Minnesota since 2004, Mr. Johnson is licensed in 18 states and earned his B.C.E. and M.S.C.E. degrees from the University of Minnesota – Twin Cities. Forensic Building Science, Inc. (FBS) was established in 2004. Its work includes evaluating virtually any type of damage caused to a building, the building’s contents or the building occupants. FBS has inspected over 5,000 structures damaged by defective construction, weather events, fire, water intrusion, impact damage and collapse and has developed compelling and easy-to-read reports with logical conclusions regarding causation. FBS is currently operating in Alabama, Arizona, Colorado, Illinois, Iowa, Massachusetts, Minnesota, Missouri, New Jersey, New York, Oklahoma, South Dakota, Texas and Wisconsin.

Fred Beukema, PE, Engineer, Structural Group, TKDA

Mr. Beukema is a licensed professional civil engineer with over ten years of structural engineering experience, specializing in structural analysis and steel and concrete design. His projects have covered a diverse set of market sectors, including municipal, industrial, transit infrastructure, educational, waste water, utility facilities, and agricultural materials handling. He was the structural designer and engineer of record on TKDA’s American Council of Engineering Companies Minnesota Grand Award-winning District Energy Solar Thermal System rooftop installation at St. Paul Rivercentre. He graduated with honors with a B.A. degree in Physics from Grinnell College and received an M.S. degree in Civil Engineering from the University of Minnesota Twin Cities. His undergraduate and graduate research focused on computer modeling of physical processes: gamma ray telescope imaging and distortional fatigue in steel bridge girders, respectively. Mr. Beukema is a member of the American Society of Civil Engineers, Minnesota Chapter.

Register online at: www.halfmoonseminars.com