Northeast Wood Solutions Fair Schedule

7:00 am  Registration Check-In - Exhibit Expo Opens

ROOM 1  ROOM 2  ROOM 3

8:00 am – 9:10 am  Forests and Forest Products  Mass Timber Building Systems: Understanding the Options  Advancements in Force Transfer around Openings for Wood-Framed Shear Walls

9:10 am – 9:45 am  Break - Exhibit Expo

9:45 am – 10:45 am  Building as Teacher: Designing with Nature  Building Enclosure Fundamentals and Best Practices for Wood-Frame Buildings  Fire Resistant-Treated Wood: The Basics

10:45 am – 11:00 am  Break - Exhibit Expo

11:00 am – Noon  Energy and Environmental Performance of Wood Structures  International Building Code Essentials for Wood Construction  Detailing for Wood Shrinkage

Noon – 1:20 pm  Lunch

1:20 pm – 2:20 pm  Forests and Forest Products  Mass Timber Building Systems: Case Studies  Advancements in Force Transfer around Openings for Wood-Framed Shear Walls

2:20 pm – 3:00 pm  Break - Exhibit Expo

2:50 pm – 3:50 pm  Building as Teacher: Designing with Nature  Building Enclosure Details and Assemblies for Wood-Frame Buildings  Preservative-Treated Wood Use and Specification

3:50 pm – 4:00 pm  Energy and Environmental Performance of Wood Structures  International Building Code Essentials for Wood Construction  Detailing for Wood Shrinkage

4:00 pm – 5:00 pm  Break

How to Register
To register, visit woodworks.org and look under “Education” on the home page. As part of the registration process, you will be asked to choose which seminar you plan to attend in each time slot. Once your request has been processed, you will receive an email confirmation that your registration is complete. To help make your choices, speaker bios are available on the website.

Cost
There is no cost to attend and complimentary lunch will be provided.

More Information
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Who Should Attend?
With a full day of seminars and a trade exposition, the Northeast Wood Solutions Fair will pack an informational punch for architects, engineers, developers, code officials and anyone else interested in wood’s exciting design possibilities. Register today if you'd like access to wood design experts for one-on-one support, informative seminars, technical information from manufacturers, engineering consultants and industry associations, and exhibits featuring a wide range of structural and finishing products.

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Space is limited. Register today!
### Northeast Wood Solutions Fair Schedule

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Energy and Environmental Performance of Wood Structures
Ruan Miller-Johnson, PE, Engineering Vereins, PC
The role of a building’s structure in achieving both energy-efficiency and sustainability goals is frequently marginalized. Yet it represents most of a new building’s material cost, is responsible for a large portion of its CO2 emissions, and can affect operational energy use. This presentation will consider the impact of specifying wood-frame construction on these and other parameters commonly associated with sustainability. It will also review some of the thermal, moisture, and fire performance, including embodied and long-term energy efficiency, and how to leverage Life Cycle Assessment data to achieve environmental objectives.

Building Enclosure Fundamentals and Best Practices
Bernhard Gafner, PEng, MIStructE, CEng, Dipl. Ing., Fast + Epp
Through a combination of building science fundamentals and considerations, it will then focus on best practices with references from technical guidelines and case studies. Finally, the critical detail interfaces between different enclosure assemblies (i.e., walls, roofs, balconies, windows, foundations) will be reviewed for the reduction of critical barriers. A series of details and case studies will be presented for each.

MORNING SESSION 11:00 AM • AFTERNOON SESSION 4:00 PM
International Building Code Essentials for Wood Construction
John "Stubby" Shoemaker, PE, American Wood Council
Based on the new American Wood Council (AWC)/International Code Council publication, Code Conforming Wood Design (CCWD), this presentation takes the mystery out of International Building Code (IBC) parameters for wood in non-residential and multi-residential construction and helps interpret the code in light of the latest research. It will cover maximum building sizes (participants will receive pre-calculated tables for eight occupancies, with and without frontage and sprinkler increased), alternatives for establishing required fire resistive special provisions; for partial buildings; precautionary recommendations for buildings under construction; criteria for finishes, exterior coverings, appendages, and other wood features; and the use of AWC design standards and other publications in the IBC. Participants may download a complimentary copy of the CCWD at http://www.awc.org/docs/ccwdindex.html.

Preservative-Treated Wood: Use and Specification
Karyn Beebe, PE, LEED AP, APA
Evaluations will be reviewed, and current issues concerning treated wood in non-residential and multi-family construction will be discussed. Participants will also receive free access to the Treated Lumber smartphone app.

First two years of operation.
Wood-based design inspirations, student experiences monitoring that helped the campus achieve "net zero" targets, biophilic Built and opened to students in 2012, Burr and Burton Academy's Randall Walter, AIA, LEED AP, Bensonwood Kathryn Fernholz, Dovetail Partners, Inc. and Speakers Seminars and Speakers
ROOM 2 MORNINGSessions 8:00 AM ROOM 11:00 AM • AFTERNOON SESSION 4:00 PM
Mass Timber Building Systems: Case Studies
Mass timber represents a rapidly advancing technology that can provide efficient and sustainable building solutions, and for a variety of mid- and high-rise building types. This presentation provides an overview of available mass timber systems, with an emphasis on their advantages and unique design considerations. Topics will include connections and fasteners, which differ from those used in light-frame wood construction, including available options and code requirements. Practical design considerations with regard to project location, climate, material sourcing, weather and fire protection, as well as detailing for dimensional variability, will also be reviewed. Cost estimating will be discussed, as well as successful mass timber projects. The presentation will conclude with a discussion of the benefits and challenges of wood in the construction industry.

ROOM 3 MORNINGSessions 8:00 AM • AFTERNOON SESSION 1:00 PM
Advancements in Force Transfer around Openings for Wood-Framed Shear Walls
Kris Owen, Independent Consultant
The selection of heavy timber connections can be challenging, even for designers experienced with these types of building projects. This presentation will provide a thorough discussion of traditional and modern heavy timber connectors and connections, including their design and application. Topics will include some of the connection types and methods used to transfer or reinforce existing heavy timber members, such as wooden pegs, wooden wedges, and full-threaded screws. Discussion will also include a review of European connectors and selection for specific design applications, including cross laminated timber.
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