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Mid-Atlantic Wood Solutions Fair Schedule

<table>
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<tr>
<th>Time</th>
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AUGUST 29, 2017
WALTER E. WASHINGTON CONVENTION CENTER
801 MOUNT VERNON PLACE, NW
WASHINGTON, DC 20001

Register at woodworks.org

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Mid-Atlantic Wood Solutions Fair Schedule

Registration Check-In – Exhibit Expo Opens
8:00 am – 9:30 am

ROOM 1
Code / Construction
9:30 am – 10:00 am
Sprinklers in Wood-Frame Construction: What Architects and Engineers Need to Know
Building Enclosure Design Fundamentals, Components and Assemblies
Almost Red-Code Exterior Systems for Wood-Frame Building Envelopes

Break – Exhibit Expo
9:30 am – 10:00 am

ROOM 2
Design & Detailing
10:00 am – 11:00 am
Code-Compliant Fire Resistance Design for Wood Construction
Building Enclosure Design for Wood Construction
Wood-Framed Design: Structural Timber as an Architectural Feature

ROOM 3
Exposed Wood
11:00 am – 12:00 pm
Exposed Wood in Fire-Resistant Applications
Exposed Wood in Fire-Resistant Applications
Exposed Wood in Fire-Resistant Applications

Break – Exhibit Expo
11:00 am – 12:00 pm

ROOM 4
Mass Timber
12:00 pm – 1:00 pm
Code-Compliant Exterior Systems for Wood-Frame Building Envelopes
Building Enclosure Design Fundamentals, Components and Assemblies
Wood-Framed Design: Structural Timber as an Architectural Feature

ROOM 5
National Partners
1:00 pm – 2:00 pm
Walter E. Washington Convention Center

Lunch • Wood Design Awards
12:30 pm – 1:30 pm

ROOM 6
2:00 pm – 3:00 pm

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

ROOM 7
Connection Design Solutions for Wood-Frame Structures
3:00 pm – 4:00 pm
Cross-Laminated Timber in the Capital Washington Latin Public Charter School Gym
Building Enclosure Design for Wood Construction
Structural Design of Mass Timber Framing Systems

ROOM 8
Connection Design Solutions for Wood-Frame Structures
4:00 pm – 5:00 pm
More with Less: An Overview of the First CLT Hotel in the US
Integrated Air & Water Barrier Systems

ROOM 9
2:00 pm – 3:00 pm
Sprinklers in Wood-Frame Construction: What Architects and Engineers Need to Know
Cross-Laminated Timber: Bridging the Gap
Meeting Fire Code with Integrated Air & Water Barrier Systems

Lunch • Wood Design Awards
3:30 pm – 4:30 pm

ROOM 10
Advanced Detailing Techniques for Building Enclosures
4:30 pm – 5:30 pm
Timber-Frame Design: The Art of Engineering an Exposed Structure
Exposed Wood in Fire-Resistant Applications
Meeting Fire Code with Integrated Air & Water Barrier Systems

ROOM 11
Exposure Wood in Fire-Resistant Applications
5:00 pm – 6:00 pm
Meeting Fire Code with Integrated Air & Water Barrier Systems
Exposed Wood in Fire-Resistant Applications
Meeting Fire Code with Integrated Air & Water Barrier Systems

ROOM 12
Free design and engineering support for non-residential and multi-family wood buildings
6:00 pm – 7:00 pm
For project assistance please contact:
Terry Pattillo, AIA
Regional Director – DC, DE, MD, NJ, OH, PA, WV, VA
Tel: 919.995.6672
Email: terry@woodworks.org
For resources, such as CAD/REVIT details, span tables, design examples and more, email help@woodworks.org or visit woodworks.org

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ROOM 2 – Design & Detailing

MORNING SESSION 8:00 AM  AFTERNOON SESSION 12:30 PM

Connection Design Solutions for Wood-Frame Structures

Robin Iskandar, PE, APA

This session will feature a discussion of wood connection design and specification, including common fastener types and their design values. Topics will include the orthotropic nature of wood and its role in connection design, commodity and specialty connectors, the use of cold-steel connectors in wood-frame construction, and best practice connection details.

MORNING SESSION 8:45 AM

Building Enclosure Design: Fundamentals, Components and Assemblies

Cris Shane, MTP, PTDG, RDH Building Science Inc.

Building enclosures are responsible for controlling heat flow, air flow, vapor flow and a number of other elements. Through a combination of building science fundamentals and current research, this presentation will explore design considerations associated with wood-frame building enclosures and the role of control layers. Discussion will focus on best practices for designing durable, energy-efficient enclosures using traditional light-wood construction.

MORNING SESSION 11:30 AM  AFTERNOON SESSION 3:00 PM

Code Compliant Fire Resistance Design for Wood Construction

Paul Code, PE, CRS, American Wood Council

In a building environment where the ability to maximize height and area is key to cost effectiveness, designers must understand the gamut of fire protection considerations applicable to mid- and low-rise wood structures. This presentation will include code requirements, compliance options and nuances related to assembly selection for required fire resistance-rated finish assemblies, exterior walls, fire barriers, fire partitions, and fire walls.

AFTERNOON SESSION 2:30 PM

Advanced Detailing Techniques for Building Enclosures

Cris Shane, MTP, PTDG, RDH Building Science Inc.

This presentation will provide an in-depth look at a variety of wood-frame building enclosures. A step-by-step process will be presented for designers new to this approach.

ROOM 3 – Exposed Wood

MORNING SESSION 8:00 AM

Timber-Frame Design: Structural Timber as an Architectural Feature

Jim DeLuna, PE, ICATI, DeLuna & Chamberlin Inc.

This entertaining and informative presentation will demonstrate how heavy timber has been used to great effect on a variety of projects. Emphasizing the need for form to follow function, it will cover traditional vs. contemporary design approaches, how to select the right species and construction type, and available timber systems.

MORNING SESSION 11:00 AM

Cross-Laminated Timber in the Capital: Washington Latin Public Charter School Gym

Art Masserman, AIA, LEED-AP, Perkins Eastman

The new gymnasium at the Washington Latin Public Charter School demonstrates how mass timber can be used to effectively create extra spaces that support student well-being. This case study presentation by the project architect will include details on the structure, which features cross-laminated timber (CLT) and glued-laminated timber (glulam), as well as lessons learned.

AFTERNOON SESSION 2:00 PM

Timber-Frame Design: The Art of Engineering an Exposed Structure

Jim DeLuna, PE, ICATI, DeLuna & Chamberlin Inc.

With this presentation, attendees have an opportunity to learn how timber-frame design from a specialist involved in award-winning projects. This entertaining and informative presentation will demonstrate how heavy timber has been used to great effect on a variety of projects. Emphasizing the need for form to follow function, it will cover traditional vs. contemporary design approaches, how to select the right species and construction type, and available timber systems.

MORNING SESSION 8:00 AM  AFTERNOON SESSION 1:20 PM


Hoefer Tweed Wood Products, Inc.

ROOM 4 – Mass Timber

MORNING SESSION 8:00 AM

Exposed Wood in Fire-Resistant Applications

David Butler, AIA

In building codes, the fire resistance of structural elements is often dictated by construction type. As a result, fire-resistant systems are unique in that they can be unprotected while still providing fire resistance. This presentation will cover the use of exposed structural wood products — solid sawn, glulam, nail-laminated timber (NLT) and CLT — in fire-resistant applications for Types III, IV and V.

MORNING SESSION 11:00 AM  AFTERNOON SESSION 2:50 PM

Structural Design of Mass Timber Framing Systems

Paul LoPigg, PE, Fire & Building

This presentation will provide a detailed look at the structural design processes associated with a variety of mass timber products, including glulam, CLT, and NLT. Applications for the use of these products in highly fire-resisting systems under modern building codes will be discussed.

ROOM 1 – Code / Construction

MORNING SESSION 8:00 AM  AFTERNOON SESSION 12:30 PM

Sprinklers in Wood-Frame Construction: What Architects and Engineers Need to Know

Brian D. Solomon, PE, Simpson, Gumpertz & Heger Inc.

Sprinklers are the most common form of active fire protection in multi-family and commercial buildings. However, there is a misunderstanding among many building designers that sprinkler code requirements apply differently to wood-frame buildings vs. other types of construction. This presentation will cover code provisions related to the use of sprinklers in wood structures, including when and where they’re required.

MORNING SESSION 8:45 AM  AFTERNOON SESSION 1:30 PM

Getting to Yes: Code Alternate Materials and Means and Permit Streamlining

Michael F. Malinowski, FAIA, Applied Architecture Inc., and Means and Permit Streamlining

Alternate Materials and Means (AMMRs) can be used on any type of project to establish code compliance. This session will cover principles and strategy for effectively navigating the building permit process when materials or designs don’t comfortably fit with conventional code application. Includes case study examples of actual AMMRs.

MORNING SESSION 11:00 AM  AFTERNOON SESSION 4:00 PM


Randall Water, AIA, LEED-AP, Bensenville

This presentation will cover the unique design and construction techniques associated with pre-fabricated and off-site panelized wood systems. An introduction to the different levels of off-site construction and review of associated products and services will be followed by a demonstration of cost and schedule benefits based on real-world projects.

OFF-SITE WOOD CONSTRUCTION

MORNING SESSION 9:45 AM  AFTERNOON SESSION 2:50 PM

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David Butler, AIA

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PARTNER PRESENTATIONS

See schedule grid for room numbers and times. Visit woodworks.org for session descriptions and partner profiles.

Western Red Cedar: Distinctive, Sustainable Design

Western Red Cedar Lumber Association

Cross-Laminated Timber: Bridging the Designer-Manufacturer Gap

SmartLam

Framing Techniques for Builders: Lessons Learned and Best Practices

Weyerhaeuser

Code-Compliant Exterior Systems for Wood-Frame Building Envelopes

Huber Engineered Woods


Hoefer Tweed Wood Products, Inc.

Wood-Framing Methods for Energy Savings

Nordic Lumber

Integrated Air & Water Barrier Systems

Georgia-Pacific

Meeting Fire Code with Oriented Strand Board

LJ Building Products

Mid-Rise Engineering Considerations for Engineered Wood Products

Brooke Canada
Mid-Atlantic
Wood Solutions Fair Schedule

Registration Check-In – Exhibit Expo Opens

7:00 am – 8:45 am
Break – Exhibit Expo

8:45 am – 10:00 am
Getting to Yes: Code Alternate Materials and Means and Permit Streamlining

10:00 am – 11:15 am
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11:15 am – 12:30 pm

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Sprinklers in Wood-Frame Construction: What Architects and Engineers Need to Know

2:00 pm – 3:15 pm
Getting to Yes: Code Alternate Materials and Means and Permit Streamlining

3:15 pm – 4:30 pm
Break – Exhibit Expo – Closes at 3:00 pm

4:30 pm – 5:45 pm
Getting to Yes: Code Alternate Materials and Means and Permit Streamlining

5:45 pm – 7:30 pm
ROOM 1
Code / Construction

ROOM 2
Design & Detailing

ROOM 3
Exposed Wood

ROOM 4
Mass Timber

ROOM 5
National Partners

Panelists in Wood-Frame Construction: What Architects and Engineers Need to Know

Panelists:

1. John W. Adams, P.E., LEED AP, Vice President and General Manager, S-L-B Structures, Inc., Taylorsville, NC
2. Carl Binkley, AIA, RPBW, Managing Director, HNTB Corporation, Seattle, WA
3. Christopher R. Howard, AIA, LEED AP, RPBW, Director of Wood Architecture, SWA Group, Washington, DC

Panel Chair:

Amy Wilson, AIA, LEED AP, Executive Director, WoodWorks, Washington, DC

Room:

ROOM 1

Room:

ROOM 2

Room:

ROOM 3

Room:

ROOM 4

Room:

ROOM 5

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Mid-Atlantic Wood Solutions Fair

Space is limited. Register today!