Northwest Wood Solutions Fair Schedule

Registration Check-In – Exhibit Expo Opens

7:30 am

ROOM 1
Lessons in Specifying Metal Plate Connected Wood Trusses

ROOM 2
Western Purlin: Durably, Sustainable, and Beautiful

ROOM 3
Exposed Wood in Fire-Resistant Applications

ROOM 4
Code Compliance for Fire Resistance-Paced Assemblies in Light-Frame Buildings

ROOM 5
More with Less: An Overview of the First CLT Hotel in the US

8:00 am – 8:15 am
Break – Exhibit Expo

8:15 am – 10:30 am
Aspen Art Museum: Wood Trusses

Break – Exhibit Expo

10:30 am – 12:00 noon
Meeting Fire Code with Design and Construction of the Wood Roof Structure

Lunch – Wood Design Awards

12:00 noon – 1:20 pm

ROOM 1
Lessons in Specifying Metal Plate Connected Wood Trusses

ROOM 2
Western Purlin: Durably, Sustainable, and Beautiful

ROOM 3
Exposed Wood in Fire-Resistant Applications

ROOM 4
Code Compliance for Fire Resistance-Paced Assemblies in Light-Frame Buildings

ROOM 5
More with Less: An Overview of the First CLT Hotel in the US

Who Should Attend?
With a full day of seminars and a trade exposition, the Northwest 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.

How to Register
To register, visit woodworks.org and log under “Education” on the home page. As part of the registration process, you will be asked to make your choices, before which you can 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 site.

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

Education Credits
Attendees can earn up to 6 AIA/CES LU’s (HSW) or PDH credits (one per attended seminar). Visit woodworks.org for details and learning objectives. AIA/CES forms and professional development certificates will be available on site.

More Information
Visit woodworks.org

WoodWorks is an approved AIA provider.

WoodWorks
WOOD PRODUCTS COUNCIL

Free design and engineering support for non-residential and multi-family wood buildings

For project assistance, email help@woodworks.org. For resources such as CADREVIT details, span tables, design examples and more, visit woodworks.org.

Register free for the Northwest Wood Solutions Fair

APRIL 26, 2016
OREGON CONVENTION CENTER
777 NE Martin Luther King Jr. Boulevard
Portland, OR 97232

Northwest Wood Solutions Fair

APRIL 26, 2016
OREGON CONVENTION CENTER
777 NE Martin Luther King Jr. Boulevard
Portland, OR 97232

Earn 6 AIA/CES LU’s (HSW) or PDH credits free

Register at woodworks.org
Northwest Wood Solutions Fair Schedule

7:00 am

8:30 am – 9:15 am
Lessons in Specifying Metal Plate Connected Wood Trusses
Western Red Cedar: Durable, Sustainable, and Beautiful
Exposed Wood In Fire-Resistant Applications
Code Compliance for Fire Resistance-Plated Assemblies in Light Frame Buildings
More with Less: An Overview of the First CLT Hotel in the US

9:15 am – 10:00 am
Break

10:00 am – 11:00 am
Aurora Art Museum: Design and Construction of the Wood Roof Structure
NMI’s Progressive Office Design: Efficient, Sustainable and Adaptable
Building Enclosure Fundamentals and Best Practices for Wood Frame Buildings
Lateral Design Considerations for Mid-Rise Wood Structures
Building the Hines 73 Offices: Seven Stories of Success

10:45 am – 11:30 am
Meeting Fire Code with Construction Material Selection
Energy Efficient Wood Frame Assemblies: Options for Compliance with the IECC
Heights & Areas: Wood Enclosures for High Rise Buildings in the City of Seattle
Tail/Wood Panel Discussion: The Learning Curve on Expectations for Framework

11:30 am – 12:15 pm
Lunch - Wood Design Awards

1:20 pm – 2:05 pm
Lessons in Specifying Metal Plate Connected Wood Trusses
Western Red Cedar: Durable, Sustainable, and Beautiful
Twisted Wood In Fire-Resistant Applications
Green Globes® for New Construction
More with Less: An Overview of the First CLT Hotel in the US

2:05 pm – 2:50 pm
Break

2:50 pm – 3:35 pm
Aurora Art Museum: Design and Construction of the Wood Roof Structure
NMI’s Progressive Office Design: Efficient, Sustainable and Adaptable
Assembly and Designing Considerations for Wood Frame Building Enclosures
Lateral Design Considerations for Mid-Rise Wood Structures
Building the Hines 73 Offices: Seven Stories of Success

3:35 pm – 4:20 pm
Meeting Fire Code with Construction Material Selection
Energy Efficient Wood Frame Assemblies: Options for Compliance with the IECC
Heights & Areas: Using Software to Ease Building Code Analysis
Code Applications for Nail-Laminated Timber and Cross-Laminated Timber

4:20 pm – 5:05 pm
Break

5:05 pm – 5:50 pm
Meeting Fire Code with Oriented Strand Board
Carbon Implications of Construction Material Selection
Energy Efficient Wood Frame Assemblies: Options for Compliance with the IECC
Building Enclosure Fundamentals and Best Practices for Wood Frame Buildings
Lateral Design Considerations for Mid-Rise Wood Structures
Building the Hines 73 Offices: Seven Stories of Success

6:00 pm – 6:45 pm

Who Should Attend?
With a full day of seminars and a trade exposition, the Northwest 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.

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 select 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 you make your choices, speaker bios are available on the website.

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

Education Credits
Attendees can earn up to 6 AIA/CES LUs (HSW) or PDH credits (one per attended seminar). Visit woodworks.org for details and learning objectives. AJA/CES forms and professional development certificates will be available on site.

More Information
Visit woodworks.org

WoodWorks is an approved AIA provider.

Space is limited. Register today!
This presentation will cover shared responsibilities between the design and the structure, including paths explored but not chosen for the final design. This case study was to create a wood space frame with spans of more than 50 feet and a long-span three-dimensional wood space-frame roof. Ban’s charge was to create a sustainable, adaptable, commercial office building with a 100-year design life in one of the country’s harshest climates. Light-frame wood and mass timber were chosen to simplify structural systems, meet energy and durability performance criteria, and realize a net-zero energy and increasingly, of public policy. This presentation will focus on the use of exposed structural wood products—solid sawn lumber, glulam, laminated timber, and cross-laminated timber (CLT)—in fire-resistant applications for construction. This presentation will include code requirements, compliance options and nuances related to assembly selection for required fire resistance-rated building assemblies, exterior walls, fire barriers, fire partitions, and fire walls. Topics will include making design and construction decisions for fire-resistant systems as a class of construction.

ROOM 1 MORNING SESSION 8:00 AM - AFTERNOON SESSION 1:30 PM

Wood Assemblies in Light-Frame Buildings
Energy Efficient Wood-Frame Assemblies: Options and Considerations

Karyn Beebe, PE, LEED AP, APA – The Engineered Wood Association

This session will explore design considerations associated with 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 building assemblies, exterior walls, fire barriers, fire partitions, and fire walls. Topics will include making design and construction decisions for fire-resistant systems as a class of construction.

ROOM 2 MORNING SESSION 8:00 AM - AFTERNOON SESSION 1:30 PM

Western Red Cedar: Strong, Renewable, and Beautiful
Paul Mackie, Western Red Cedar Lumber Association

Assemblies in Light-Frame Buildings
Exterior Shear Walls: A New Perspective

Jeff Morrow, Lend Lease

This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.

ROOM 3 MORNING SESSION 8:00 AM - AFTERNOON SESSION 1:30 PM

Seminars & Speakers

ROOM 4 MORNING SESSION 8:00 AM - AFTERNOON SESSION 1:30 PM

Exposed Wood in Fire-Resistant Applications

Michaela Kern-Brown, PE, SE, SECC, MAIC, ASCE

For buildings, the fire-resistance of structural elements is a code consideration. This presentation will review Western Red Cedar building materials used. Wood structural assemblies in the fire context that they can be unprotected while still providing a level of fire resistance—through the use of exposed structural wood products—solid sawn lumber, laminated timber, glue-laminated timber, and cross-laminated timber (CLT) in fire-resistant applications for construction.

Seminars & Speakers

ROOM 5 MORNING SESSION 8:00 AM - AFTERNOON SESSION 1:30 PM

Compliance for Fire Resistance-Rated Building Assemblies

Michelle Kern-Brown, PE, SE, SECC, MAIC, American Wood Council

For the fire-resistance of structural elements is a code consideration. This presentation will cover the use of fire-rated wood assemblies, exterior walls, fire barriers, fire partitions, and fire walls. Topics will include making design and construction decisions for fire-resistant systems as a class of construction.

ROOM 6 MORNING SESSION 8:00 AM - AFTERNOON SESSION 1:30 PM

The Benefits of Wood for Tall Buildings

Jeff Morrow, Lend Lease

The company is helping to lead that charge. For the recently completed Candareda Suites Hotel at Redlands, Arizona, Lend Lease explored the use of CLT for fire-resistance, acoustical performance and efficiency. The hotel’s tower, 628-BEF of project used CLT for nearly all its interior walls. The exterior of the first mass timber hotel in the country. This presentation will review the benefits realized through CLT, the specifications, and the quality and reliability when reinvesting in wood for building materials. Assemblages in Light-Frame Buildings

Leasing in Speculative Wood Plate Connected Wood Trusses

Nick Tippet, LAI Consulting Engineers, New School Structural Engineer

This course is intended for engineers and architects who specify plate connected wood trusses for use in commercial and multifamily building projects. Plate connected wood trusses (PCVT) have long been used as a cost effective method to achieve long spans and roof form. This presentation will cover shared responsibilities between the design and the structure, including paths explored but not chosen for the final design. This case study was to create a wood space frame with spans of more than 50 feet and a long-span three-dimensional wood space-frame roof. Ban’s charge was to create a sustainable, adaptable, commercial office building with a 100-year design life in one of the country’s harshest climates. Light-frame wood and mass timber were chosen to simplify structural systems, meet energy and durability performance criteria, and realize a net-zero energy and increasingly, of public policy. This presentation will focus on the use of exposed structural wood products—solid sawn lumber, glulam, laminated timber, and cross-laminated timber (CLT)—in fire-resistant applications for construction.

Exterior Shear Walls: A New Perspective

Jeff Morrow, Lend Lease

This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.

Presentation will cover shared responsibilities between the design and the structure, including paths explored but not chosen for the final design. This case study was to create a wood space frame with spans of more than 50 feet and a long-span three-dimensional wood space-frame roof. Ban’s charge was to create a sustainable, adaptable, commercial office building with a 100-year design life in one of the country’s harshest climates. Light-frame wood and mass timber were chosen to simplify structural systems, meet energy and durability performance criteria, and realize a net-zero energy and increasingly, of public policy. This presentation will focus on the use of exposed structural wood products—solid sawn lumber, glulam, laminated timber, and cross-laminated timber (CLT)—in fire-resistant applications for construction.

Exterior Shear Walls: A New Perspective

Jeff Morrow, Lend Lease

This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.

ROOM 7 MORNING SESSION 8:00 AM - AFTERNOON SESSION 1:30 PM

Building the Hines T3 Office: Seven Stories of Success

Lucas Epp, BASc, StructureCraft

One response to the growing cultural demand for local authenticity, sustainability and social connectivity in urban office environments is the Hines T3 Tallest. Tallest and Tech (T3) project is a seven-story office building with six stories of mass timber, located in Minneapolis. This presentation will explore the structural efficiency, cost effectiveness and aesthetic potential of mass timber systems and introduce the use of nail-laminated timber. The project demonstrates how timber structural systems can be enacted with complement proportionality and functional engagement of structure.

ROOM 8 MORNING SESSION 11:00 AM - AFTERNOON SESSION 4:00 PM

Material Fire Code with Oriented Strand Board deck board. This building code requirements for fire and life safety are challenging for designers, particularly when it comes to proving Building code requirements related to fire and life safety can be context. This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.

ROOM 9 MORNING SESSION 11:00 AM - AFTERNOON SESSION 4:00 PM

Meeting Fire Code with Oriented Strand Board

Dave Brown, Weyerhauser

Building the Hines T3 Office: Seven Stories of Success

Lucas Epp, BASc, StructureCraft

This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.

ROOM 10 MORNING SESSION 11:00 AM - AFTERNOON SESSION 4:00 PM

Seminars & Speakers

ROOM 11 MORNING SESSION 9:45 AM - AFTERNOON SESSION 2:50 PM

Building the Hines T3 Office: Seven Stories of Success

Lucas Epp, BASc, StructureCraft

This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.

ROOM 12 MORNING SESSION 9:45 AM - AFTERNOON SESSION 2:50 PM

Building the Hines T3 Office: Seven Stories of Success

Lucas Epp, BASc, StructureCraft

This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.

ROOM 13 MORNING SESSION 9:45 AM - AFTERNOON SESSION 2:50 PM

Building the Hines T3 Office: Seven Stories of Success

Lucas Epp, BASc, StructureCraft

This presentation will review Western Red Cedar building products and discuss appropriate applications. Specifically, this presentation will provide an overview of Western Red Cedar can be used to both structure and finish material, a review of structural properties, lumber grades, appearance options, installation and building science reviews. Bracing, large cantilevers, framing, structural sections, and shear transfer systems will also be discussed.
Northwest Wood Solutions Fair Schedule

**Registration Check-In - Exhibit Expo Opens**

- 10:00 am - 11:00 am
- Registration Check-In - Exhibit Expo Opens

**ROOM 1**

- 11:00 am - 12:00 pm
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 1:00 pm - 2:00 pm
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 2:00 pm - 3:00 pm
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 3:00 pm - 4:00 pm
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 4:00 pm - 5:00 pm
- More with Less: An Overview of the First CLT Hotel in the US

**Lunch - Wood Design Awards**

- 12:00 pm - 1:00 pm
- Lunch

**Break - Exhibit Expo**

- 1:00 pm - 2:00 pm

**ROOM 1**

- 2:00 pm - 3:00 pm
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 3:00 pm - 4:00 pm
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 4:00 pm - 5:00 pm
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 5:00 pm - 6:00 pm
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 6:00 pm - 7:00 pm
- More with Less: An Overview of the First CLT Hotel in the US

**Break - Exhibit Expo**

- 7:00 pm - 8:00 pm

**ROOM 1**

- 8:00 pm - 9:00 pm
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 9:00 pm - 10:00 pm
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 10:00 pm - 11:00 pm
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 11:00 pm - 12:00 am
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 12:00 am - 1:00 am
- More with Less: An Overview of the First CLT Hotel in the US

**Break - Exhibit Expo**

- 1:00 am - 2:00 am

**ROOM 1**

- 2:00 am - 3:00 am
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 3:00 am - 4:00 am
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 4:00 am - 5:00 am
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 5:00 am - 6:00 am
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 6:00 am - 7:00 am
- More with Less: An Overview of the First CLT Hotel in the US

**Break - Exhibit Expo**

- 7:00 am - 8:00 am

**ROOM 1**

- 8:00 am - 9:00 am
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 9:00 am - 10:00 am
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 10:00 am - 11:00 am
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 11:00 am - 12:00 pm
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 12:00 pm - 1:00 pm
- More with Less: An Overview of the First CLT Hotel in the US

**Break - Exhibit Expo**

- 1:00 pm - 2:00 pm

**ROOM 1**

- 2:00 pm - 3:00 pm
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 3:00 pm - 4:00 pm
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 4:00 pm - 5:00 pm
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 5:00 pm - 6:00 pm
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 6:00 pm - 7:00 pm
- More with Less: An Overview of the First CLT Hotel in the US

**Break - Exhibit Expo**

- 7:00 pm - 8:00 pm

**ROOM 1**

- 8:00 pm - 9:00 pm
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 9:00 pm - 10:00 pm
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 10:00 pm - 11:00 pm
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 11:00 pm - 12:00 am
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 12:00 am - 1:00 am
- More with Less: An Overview of the First CLT Hotel in the US

**Break - Exhibit Expo**

- 1:00 am - 2:00 am

**ROOM 1**

- 2:00 am - 3:00 am
- Lessons in Specifying Metal Plate Connected Wood Trusses

**ROOM 2**

- 3:00 am - 4:00 am
- Western Purlin Cedar: Durable, Sustainable, and Beautiful

**ROOM 3**

- 4:00 am - 5:00 am
- Exposed Wood in Fire-Resistant Applications

**ROOM 4**

- 5:00 am - 6:00 am
- Code Compliance for Fire-Resistant Panels in Light-Frame Buildings

**ROOM 5**

- 6:00 am - 7:00 am
- More with Less: An Overview of the First CLT Hotel in the US

**Break - Exhibit Expo**

- 7:00 am - 8:00 am

Who Should Attend?

With a full day of seminars and a trade exposition, the Northwest 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're likely to 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.

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 select which seminar you plan to attend at each time slot. Once your request has been processed, you will receive an e-mail 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.

Education Credits

Attendees can earn up to 6 AIA/CES LUs (HSW) or PDH credits (one per attended seminar). Visit woodworks.org for details and learning objectives. AIA/CES forms and professional development certificates will be available on site.

More Information

Visit woodworks.org

WoodWorks is an approved AIA provider.

Register free for the Northwest Wood Solutions Fair

APRIL 26, 2016
OREGON CONVENTION CENTER
777 NE Martin Luther King Jr. Boulevard
Portland, OR 97232

Earn 6 AIA/CES LUs (HSW) or PDH credits free

Register at woodworks.org

Northwest Wood Solutions Fair

Free design and engineering support for non-residential and multi-family wood buildings

For project assistance, email help@woodworks.org. For resources such as CADREVIT details, span tables, design examples and more, visit woodworks.org.