



EVENT PROGRAM



# WOOD SOLUTIONS FAIR

ARLINGTON, TEXAS • NOVEMBER 12, 2014



**WoodWorks**  
WOOD PRODUCTS COUNCIL



# FUNDING PARTNERS



## SPONSORS



# Texas Wood Solutions Fair Schedule

7:00 am	Registration Check-in – Exhibit Expo Opens				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5
8:00 am – 9:10 am	Detailing for Wood Shrinkage <i>Douglas R. Steimle, PE</i>	Forests and Forest Products <i>Kathryn Fernholz</i>	Walls that Work: Detailing for Performance <i>Mary Uher, MS</i>	Getting to Yes: Code Alternate Materials and Means and Permit Streamlining <i>Michael F. Malinowski, AIA</i>	Architectural Alternatives: Post-Frame Building Systems <i>Dr. Harvey Manbeck, PE</i>
9:10 am – 9:45 am	Break – Exhibit Expo				
9:45 am – 10:45 am	International Building Code Essentials for Wood Construction <i>Michelle Kam-Biron, PE, SE, SECB, M. ASCE</i>	EPDs and HPDs: Opportunities within LEED v.4 and Green Globes <i>Dr. Jim Bowyer</i>	Offset Diaphragms and Shear Walls: Part I <i>Terry Malone, PE, SE</i>	The First Cross Laminated Timber School in the US: A Builder's Perspective <i>Charles Judd</i>	Sustainable Designs: Western Red Cedar <i>Paul Mackie</i>
10:45 am – 11:00 am	Break – Exhibit Expo				
11:00 am – Noon	Urban Acoustics <i>Steve Thorburn, PE, LEED AP, CTS-I, CTS-D</i>	Energy Code Compliance: Wood-Frame Buildings and the IECC <i>Andrew Klein, PE</i>	All-Wood and Hybrid Panelized Roof Systems <i>Peter "Happy" Post</i>	The Wood Revolution: Inspiring Architecture with Innovative Structural Systems <i>Scott Lockyear, PE</i>	Meeting Fire Codes with OSB <i>Bob Palardy</i>
Noon – 1:20 pm	Lunch • Wood Design Awards				
1:20 pm – 2:20 pm	Detailing for Wood Shrinkage <i>Douglas R. Steimle, PE</i>	Forests and Forest Products <i>Kathryn Fernholz</i>	Walls that Work: Detailing for Performance <i>Mary Uher, MS</i>	Getting to Yes: Code Alternate Materials and Means and Permit Streamlining <i>Michael F. Malinowski, AIA</i>	Modern Post-Frame Structural Design Practices: An Introduction <i>Dr. Harvey Manbeck, PE</i>
2:20 pm – 2:50 pm	Break – Exhibit Expo				
2:50 pm – 3:50 pm	International Building Code Essentials for Wood Construction <i>Michelle Kam-Biron, PE, SE, SECB, M. ASCE</i>	EPDs and HPDs: Opportunities within LEED v.4 and Green Globes <i>Dr. Jim Bowyer</i>	Offset Diaphragms and Shear Walls: Part II <i>Terry Malone, PE, SE</i>	The First Cross Laminated Timber School in the US: A Builder's Perspective <i>Charles Judd</i>	Sustainable Designs: Western Red Cedar <i>Paul Mackie</i>
3:50 pm – 4:00 pm	Break				
4:00 pm – 5:00 pm	Urban Acoustics <i>Steve Thorburn, PE, LEED AP, CTS-I, CTS-D</i>	Energy Code Compliance: Wood-Frame Buildings and the IECC <i>Andrew Klein, PE</i>	All-Wood and Hybrid Panelized Roof Systems <i>Peter "Happy" Post</i>	The Wood Revolution: Inspiring Architecture with Innovative Structural Systems <i>Scott Lockyear, PE</i>	Meeting Fire Codes with OSB <i>Bob Palardy</i>

## Education Credits

An education certificate is included in the attendee folder you received at check-in. This certificate is for your records and self-reporting purposes and should not be handed in to WoodWorks.

**For AIA-registered architects only:** An AIA/CES Electronic Conference Attendance Form can be found in the folder you received at check-in. Please complete this form and leave it with the facilitator of the last session or drop it off at the registration desk when you leave. WoodWorks will submit this form to AIA on your behalf.

## ROOM 4

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

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

Michael F. Malinowski, AIA, Applied Architecture, Inc.

This session will cover principles and strategy for effective navigation of the building permit process when materials or designs don't comfortably fit with conventional code application, as well as the use of permit streamlining for more effective and efficient processing. Alternate Materials and Means Requests (AMMR) can be used for various reasons including: use of innovative products and systems, new design concepts, complex geometries, code conundrums, political problem solving and the resolution of interpretation differences. Project examples will be used to demonstrate how to approach the AMMR process and demystify the concept of an alternate design. Permit streamlining concepts will also be discussed.

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

### The First Cross Laminated Timber School in the US: A Builder's Perspective

Charles Judd, Blue Heron Timber Works

The Pendleton County School District in West Virginia is the first in the United States to build a new school in cross laminated timber (CLT). With panels for the 40,000-square-

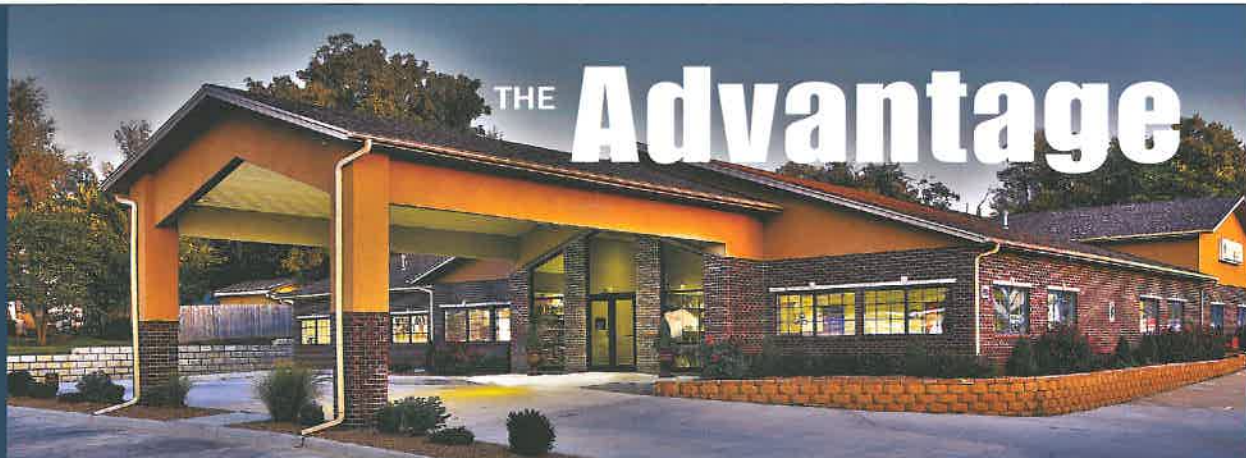
foot facility installed in less than three months by a crew of five carpenters and a crane operator, CLT represents a new world of opportunity for the growing district. In this presentation, the CLT erector for the project will discuss the advantages and challenges of using this new material in the context of structure, building envelope and exposed wood aesthetic. He'll also share insights into the planning process, equipment and labor, and how CLT construction differs from typical methods.

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

### The Wood Revolution: Inspiring Architecture with Innovative Structural Systems

Scott Lockyear, PE, WoodWorks

There is a quiet revolution going on in Europe, Canada and now the US—one that will likely change the way architects here view structural wood building systems. As a structural building component, wood offers many environmental benefits, including the ability to maximize carbon storage and minimize carbon dioxide emissions associated with the design, construction and operation of buildings. Architects are using "massive timber" design principles and techniques to take advantage of wood's carbon benefits, driving positive change through the power of wood design. Using case study examples of innovative projects, this presentation will connect structure with architecture by showcasing a variety of exposed wood structural solutions.



#### POST FRAME AN ENGINEERED WOOD BUILDING SYSTEM

The Post-Frame Advantage provides free resources to building owners, code officials, architects, and structural engineers who would like to learn about post frame for commercial construction.

For a low-rise engineered wood building system that combines value and efficiency, consider the Post-Frame Advantage:

**DESIGN FLEXIBILITY**—Post frame allows for open floor plans and a wide array of appealing architectural features.

**ENERGY EFFICIENCY**—Overall building energy savings are achieved through wood's natural thermal resistance and post frame's wide-column spacing, which means fewer insulation interruptions.

**DURABILITY AND STRENGTH**—A uniquely engineered post-frame system produces a long-lasting structure with outstanding resistance to wind and seismic forces.

**COST-EFFECTIVENESS**—Dollar for dollar, post frame provides more building space than other types of construction.

For more information on using post frame for your building projects or to locate a post-frame contractor, please visit our website.

[www.postframeadvantage.com](http://www.postframeadvantage.com)

POST-FRAME  
ADVANTAGE