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# Moisture Management and Building Enclosure Detailing

**Concepts for Durable Wood Assemblies**



**WoodWorks™**  
WOOD PRODUCTS COUNCIL

**Tuesday, June 20 • Dallas / Plano, TX**

**Wednesday, June 21 • Austin, TX**

**Thursday, June 22 • San Antonio, TX**

**Friday, June 23 • Houston, TX**

*Register at [woodworks.org](http://woodworks.org)*

# Moisture Management and Building Enclosure Detailing

## Concepts for Durable Wood Assemblies

Presented by:

Ron Anthony, Wood Scientist, Anthony and Associates  
Colin Shane MEng, PEng, RDH Building Science Inc.

### COURSE DESCRIPTION

Led by experts in wood science and building enclosures, this seminar focuses on the effects of moisture on wood as a building material, as well as design considerations and best practices associated with detailing for durable wood structures. Beginning with a review of relevant wood science, the first half focuses on how wood is affected by moisture, how moisture travels through wood, and wood's relationship with humidity and liquid water. The second half focuses on wood-frame assemblies for walls, low-slope roofs, and balconies. Details and case studies will be used to illustrate detailing best practices for these locations to provide moisture protection while allowing evaporation, with the goal of achieving maximum durability. Topics will include ventilation, placement of control layers, dew point location, and lessons learned from past balcony issues.

### SPEAKERS

**Ron Anthony**, Wood Scientist, Anthony & Associates  
Ron Anthony received an MS in Wood Science and Technology and a BS in Forest Management and Wood Science and Technology from Colorado State University. Prior to forming Anthony & Associates in 1999, he conducted research and consulted on wood properties and the use of wood in construction applications. His efforts have led to applications of resistance drilling and digital radioscopy for quantifying decay in structural timbers and investigating hidden conditions. Author of over 100 publications, he has consulted throughout North America, Europe, Asia, Africa, Australia and the South Pacific.

**Colin Shane MEng, PEng**, RDH Building Science Inc.

Colin Shane is a Senior Project Engineer at the San Francisco Bay Area office of RDH Building Science Inc., an engineering consulting firm dedicated to building science and building enclosure engineering. Colin's experience includes design of all components of the building enclosure, including walls, glazing systems, balconies and roofs in climate zones across North America. Colin has a broad knowledge of building construction and applies building science principles to evaluate, analyze and design durable, energy-efficient building enclosures. He holds a Master's degree in Civil/Structural Engineering from the University of Waterloo.

### Agenda

7:45 – 8:15 a.m. CHECK-IN / REGISTRATION

8:15 – 8:30 a.m.  
**Welcome and Introduction**

8:30 – 10:00 a.m.  
**Understanding Moisture Performance of Wood,**  
*Ron Anthony*

10:00 – 10:30 a.m. BREAK

10:30 – 12:00 p.m.  
**Building Enclosure Detailing for Walls and Low Slope Roofs,**  
*Colin Shane*

12:00 – 1:00 p.m. LUNCH

1:00 – 2:00 p.m.  
**Building Enclosure Detailing for Balconies,**  
*Colin Shane*

2:00 p.m. CLOSING / CERTIFICATES

### Content Rating

**Technical engineering**  
content: 1 (low) to 5 (high)



**Architectural-focused**  
content: 1 (low) to 5 (high)



Photos: (cover, address panel) Fuse Cambridge, DiMella Shaffer, LA Fuess Partners, Robert Benson Photography; (front left) MOTO, Gensler, Monroe & Newell Engineers, photo Gensler; (interior) 525 at the Enclave, Seattle, WA, Baylis Architects, Rafn Company, photo Sky-Pix



## About WoodWorks

### Free design and engineering support for wood buildings

WoodWorks provides free resources related to the design, engineering and construction of non-residential and multi-family wood buildings. Our objective is to make it easier to build code-compliant wood buildings more efficiently and at less cost.

For project assistance please contact:

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Visit [woodworks.org](http://woodworks.org) or email [help@woodworks.org](mailto:help@woodworks.org)



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PROGRAM FUNDERS:



## Time and Place

On-site check-in will open at 7:45 a.m.  
Program will begin at 8:15 a.m. and the  
day will conclude at 2:00 p.m.

### **June 20 • Dallas / Plano, TX**

Fleming's Prime  
7250 North Dallas Parkway  
Plano, TX 75024

### **June 21 • Austin, TX**

Maggiano's Little Italy  
10910 Domain Drive  
Austin, TX 78758

### **June 22 • San Antonio, TX**

Maggiano's Little Italy  
17603 IH 10W  
San Antonio, TX 78257

### **June 23 • Houston, TX**

Maggiano's Little Italy  
2019 Post Oak Boulevard  
Houston, TX 77056

## Education Credits

4.0 AIA/CES HSW LUs or PDH credits

## Fee

\$40 (includes lunch)



*WoodWorks is an  
approved AIA provider.*



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