Time and Place
On-site check-in will open at 7:00 a.m.
Program will begin at 7:45 a.m. and the
day will conclude at 3:30 p.m.

October 6, 2015 • Jacksonville, FL
Maggiano’s Little Italy – St. Johns Town Center
10367 Midtown Parkway
Jacksonville, FL 32246

October 7, 2015 • Orlando, FL
Maggiano’s Little Italy – Pointe Orlando
9101 International Drive
Orlando, FL 32819

October 8, 2015 • Tampa, FL
Maggiano’s Little Italy – Westshore Plaza
203 Westshore Plaza
Tampa, FL 33609

Education Credits
6.0 AIA/CES LUs (HSW) or PDH credits
FBPE approved provider

Fee
$60 (includes lunch)

WoodWorks is an approved AIA provider.
Structural Design for High Winds:
Engineering Course for Non-Residential and Multi-Family Wood Buildings

Presented by: Lori Koch, PE, American Wood Council
Bryan Readling, PE, APA
Ricky McLain, PE, SE, WoodWorks

COURSE DESCRIPTION

This course is intended for structural engineers and building designers seeking a full system understanding of design steps, considerations and detailing best practices related to the wind-resistive design and analysis of non-residential and multi-family wood buildings. Developed in response to the fact that engineering curricula does not typically include a wood design course, it provides an overview of relevant 2014 Florida Building Code (FBC) provisions and American Wood Council (AWC) referenced standards, a discussion of common design errors, and guidance related to load path continuity, shear walls, diaphragms, and uplift restraint.

Topics covered in detail include:
- Lateral load path continuity and detailing
- 2014 FBC and AWC referenced standards applicable to wood-frame wind-resisting systems
- Design and stiffness assumptions for rigid, semi-rigid and flexible diaphragms
- Diaphragm deflection and design of components such as chords and collectors
- Shear wall design methods, including segmented, perforated and force transfer around openings
- Design of shear wall components, including holdowns and drag struts
- Prescriptive wood-based lateral framing options
- Uplift-resistant design solutions, including combined shear and uplift
- Out-of-plane wall design for wind loads, including tall walls, gable end walls, and tall walls with large openings, as well as deflection criteria for a variety of wall finishes

Attendees can expect a top-to-bottom discussion of all aspects of wood-frame wind-resisting systems.

Agenda

7:00 – 7:45 a.m.  CHECK-IN / REGISTRATION

7:45 – 8:00 a.m.
Welcome and Introduction, Jeff Peters

8:00 – 10:00 a.m.
Load Path Overview, Ricky McLain
Introduction to Codes & Standards for Wood Construction, Lori Koch
Diaphragm Design and Detailing, Lori Koch and Bryan Readling

10:00 – 10:30 a.m.  BREAK

10:30 a.m. – 12:15 p.m.
Shear Wall Design and Detailing, Lori Koch and Bryan Readling

12:15 – 1:00 p.m.  LUNCH

1:00 – 1:50 p.m.
Prescriptive Design Options for Wood Systems in Non-Residential and Multi-Family Structures, Lori Koch
Uplift Including Combined Shear, Lori Koch

1:50 – 2:00 p.m.  BREAK

2:00 – 3:25 p.m.
Wall Design in Non-Residential and Multi-Family Buildings, Ricky McLain
Multi-Story Considerations and Conclusions, Ricky McLain

3:25 – 3:30 p.m.  CLOSING / CERTIFICATES

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:
Jeff Peters, PE  Southeast Technical Advisor
Tel: 386-871-8808
Email: Jeff.Peters@woodworks.org
Visit woodworks.org or email help@woodworks.org

About WoodWorks

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*SLB funds were not used for this workshop.
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Register at woodworks.org