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Wood Design Workshop Agenda

Calgary - March 20, 2024 | Edmonton - March 21, 2024

Attendees will be provided temporary access to the WoodWorks Design Office 10 Software. This is a hands-on workshop intended to help designers understand how to use the CWC publications and software to efficiently complete the design of wood structural components.

Co-Chairs: Rory Koska and Jerry Calara
Presenters: Yang Du, Sarah Stevenson, and Diego Flores

8:00 – 8:30am	Breakfast & Registration
8:30 - 8:45am	Welcome and Introductions Workshop Objectives Overview of CWC publications and design tools
8:45 - 10:15am	Design for bending members (joists, built-up beams, glulam, SCL, CLT) using WoodWorks® Sizer 2020 software Beam mode: <ul style="list-style-type: none">• Bending• Shear• Serviceability (deflection and vibration)• Fire design
10:15 – 10:30am	Coffee Break
10:30 – 11:30am	Design for vertical members (stud walls, built-up columns, Glulam, CLT) using Sizer Column mode: <ul style="list-style-type: none">• Compression• Tension• Combined bending and axial loads• Fire design
11:30 – 12:00pm	Database editor and Concept mode (for whole building preliminary design)
12:00 – 12:45pm	Lunch Break

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12:45 – 1:15pm

Lateral Design using Engineering Guide for Wood Frame Construction 2014 and WDM 2020 (Light-Frame Wood Shearwall Design)

- Introduction to Part 9 Prescriptive Braced Wall Design
- Introduction to Part 4 Lateral Load Design

1:15 – 2:15pm

Lateral design using WoodWorks® Shearwalls 2020 software for light-frame wood shearwalls

Step by Step Shearwalls demonstration, covering:

- Creating structure blocks and wall gaps
- Moving walls, adding walls, and openings
- Creating roof shapes
- Generating wind and seismic loads
- Adding manual loads

2:15 – 2:30pm

Coffee Break

2:30 – 3:30pm

Lateral design using WoodWorks® Shearwalls 2020 (continued)

- Navigating through design results
- New software features
- Limitations of Shearwalls software
- Mid-rise provisions in ABC 2023/NBC 2020

3:30 – 4:00pm

Connection design using 2017 WDM and Woodworks DO10 software (Nails, Wood Screws, Bolts)

- WoodWorks® software Connections program

4:00 – 4:30pm

Overview of changes to CSA O86:24

4:30 – 4:45pm

Q&A