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Canadian Wood Council  
Conseil canadien du bois



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## **AGENDA:** **Wood Design Workshop**

**February 28<sup>th</sup> (Edmonton) & March 1<sup>st</sup> (Calgary)**

**Co-Chairs: Rory Koska and Jerry Calara**

- |                 |  |
|-----------------|--|
| 8:00 – 8:30am   | <b>Breakfast &amp; Registration</b>  |
| 8:30 - 8:45am   | <b>Welcome and introductions<br/>Objectives of workshop<br/>Overview of CWC publications and design tools</b>  |
| 8:45 - 10:30am  | <b>Design for Bending members using the 2017 WDM and Woodworks DO 10 software (Floor Joists, Built-up Beams, Glulam, SCL, CLT)</b> <ul style="list-style-type: none"><li>• <i>Beam mode</i><ul style="list-style-type: none"><li>○ <i>Bending</i></li><li>○ <i>Shear</i></li><li>○ <i>Bearing</i></li></ul></li><li>• <i>Concept Mode</i></li></ul>  |
| 10:30 – 10:45am | <b>Coffee Break</b>  |
| 10:45 – 12:00pm | <b>Design for Compression members using the 2017 WDM, 2016 Permanent Wood Foundations Publication and Woodworks DO 10 software (Stud Walls, Built-up Columns, CLT, PWF)</b> <ul style="list-style-type: none"><li>• <i>Column mode</i><ul style="list-style-type: none"><li>○ <i>Compression</i></li><li>○ <i>Tension</i></li><li>○ <i>Combined bending and axial loads</i></li><li>○ <i>Bearing</i></li></ul></li></ul> |
| 12:00 – 1:00pm  | <b>Lunch Break</b>   |
| 1:00 – 1:45pm   | <b>Connection design using 2017 WDM and Woodworks DO10 software (Nails, Wood Screws, Bolts)</b> <ul style="list-style-type: none"><li>• <i>WDM Selection</i></li><li>• <i>Woodworks software Connections module</i></li><li>• <i>Failure modes</i></li><li>• <i>Connection detailing</i></li></ul>   |
| 1:45 – 2:15pm   | <b>Lateral Load Design using Engineering Guide for Wood Frame Construction 2014 and WDM 2017 (Light-Frame Wood Shearwall Design)</b> <ul style="list-style-type: none"><li>• <i>Introduction to Part 9 Prescriptive Braced Wall Design</i></li><li>• <i>Introduction to Part 4 Lateral Load Design</i></li></ul>   |
| 2:15 – 2:45pm   | <b>Coffee Break</b>  |

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2:45 – 4:30pm **Lateral design using Woodworks DO 10 software  
(Light-Frame Wood Shearwall Design)**

- *Step by Step Shearwalls demonstration*
  - *Creating Structure Blocks*
  - *Moving Walls, Drawing Walls and Openings*
  - *Creating Roof Blocks*
  - *Load Generation Site Information and Generating Loads*
  - *Creating Standard Wall Groups*
  - *Navigating the Design Results*
- *Discussion of ways to simplify the analysis*
- *Mid-rise provisions in ABC 2014/NBC 2015*

*Attendees will be provided a free copy of the Wood Design Manual 2017 and 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.*