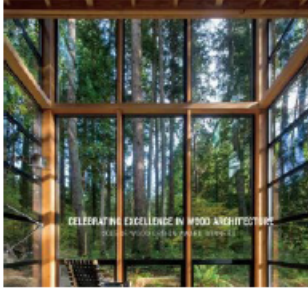


# Topics



## NORTH AMERICAN WOOD DESIGN AWARDS A showcase of Wood Design Award winners from 2016-17

Find your design inspiration! This presentation will highlight award-winning projects from the Wood Design Award programs held across Canada and in the US in the past year. The projects featured in this presentation showcase innovative uses of wood in institutional, commercial and residential designs. Unique, one-of-a-kind buildings will be showcased, as will designs that can be easily and cost effectively replicated.

**8-9am and 3:40-4:40pm // AIA: YEGWSF08\_2017**

**Marianne Berube, Executive Director**  
*Wood WORKS! Ontario, North Bay, ON*

**Lynn Embury-Williams, Executive Director**  
*Wood WORKS! BC, Vancouver, BC*

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## THE PRICE IS RIGHT, BUT WILL THIS PRODUCT WORK IN A MID-RISE PROJECT?

### Tips for choosing the right engineered lumber products and fire resistance assemblies

Not all of the products available in a typical lumber yard are suitable for a mid-rise woodframed building. Whether the need is structural or fire-resistance, this session will take you through some common situations, and provide advice to help you write a specification that will avoid substitution with an attractively-priced (but potentially unsuitable) product or system.

**12:50-1:50pm // AIA: YEGWSF06\_2017**

**Steve McManus P.Eng., Product Support Engineer – Canada**  
*Weyerhaeuser, Vancouver, BC*

## CLT DESIGN

### Using CWC's 2017 Wood Design Manual and WoodWorks® Sizer software

Both the Wood Design Manual and WoodWorks® software have been updated to include CLT design, as per the NBC 2015 and the CSA O86-14 (Update 1).

The first half of this seminar will demonstrate how the 2017 Wood Design Manual (scheduled for sale January 2018) provides guidance and time-saving tables for designing CLT gravity and lateral load resisting systems, and will also touch on Glued-laminated Timber (GLT), Nail Laminated Timber (NLT) and Dowel Laminated Timber (DLT). An introduction to CLT lateral load design will be discussed.

The second half will demonstrate how WoodWorks® Sizer 10 (release scheduled for November 2017) can be used to size gravity load resisting CLT panels.

**8-9am and 12:50-1:50pm // AIA: YEGWSF03\_2017**

**Kevin Rocchi MAsc., P.Eng, Technical Services Specialist**  
*Canadian Wood Council, Ottawa, ON*

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## EFFECTIVE R VALUE CALCULATOR FOR WALLS

### A free tool to demonstrate compliance with prescriptive wall provisions of the ABC 9.36

The Canadian Wood Council's (CWC) interactive Effective R-value calculator is a free tool to help designers comply with the prescriptive energy provisions in any code that references effective thermal insulation values, including the ABC. The calculator enables designers to explore options, compare features, and determine a suitable wall assembly that can perform across a range of Canadian climates. This free online tool [www.effectiver.ca](http://www.effectiver.ca) provides effective R-values for wall assemblies and includes a durability assessment that considers computer modeling and field experience.

**8-9am and 2:20-3:20pm // AIA: YEGWSF02\_2017**

**Rob Jonkman P.Eng, Director, Codes & Standards**  
*Structural Engineering, Canadian Wood Council, Ottawa, ON*

## STGM ARCHITECTES HEAD OFFICE + AWARD WINNING WOOD DESIGN PROJECTS

### An Example of Achieving Platinum LEED in Canada



Photography: Stéphane Groleau

Presentation of STGM's head office in Québec city. This light frame building is the only private LEED platinum building in the province of Quebec. Using a virtual tour, M. Langevin will present the building's features such as Wood structure principles, mechanicals systems, rain water management, natural light control, etc , M. Langevin will also present an overview of STGM wood project production such as the reconstruction of the Quebec Armoury, the Naskapi hospital, the customs facilities of Lacolle and Armstrong, and some other projects using wood as structure or finition.etc.

**9:30-10:30am + 12:50-1:50pm // AIA:YEGWSF05\_2017**

**Stéphan Langevin, Principal**  
*STGM ARCHITECTES, Québec City, QC*

## CARBON12: A CLT CASE STUDY IN DESIGN AND CONSTRUCTION



PATH Architecture and Kaiser Group Inc. are sister companies that develop, design and build. Hear from Kristin Slavin, Associate at PATH Architecture, why the team decided to use wood as the primary structural material in projects, how that decision has evolved, and what they plan to do next. You will learn how the team navigated regulatory and construction hurdles on Carbon12, the tallest wood building in the US at completion, what lessons were learned, and what they would change next time. PATH and Kaiser Group remain committed to pushing the limits for more sustainable mid- and high-rise buildings.

9:30-10:30 and 2:20-3:20 // AIA: YEGWSF01\_2017

**Kristin Slavin, AIA, LEED BD+C, Associate**  
Kaiser Group, Portland, OR, USA

## ACOUSTICS – AVOIDING COMPLAINTS AND MEETING/EXCEEDING BUILDING CODE REQUIREMENTS

This presentation defines building code requirements and outlines acoustic principles in addition to discussing efficient means of acoustic insulation using multiple floor/ceiling assemblies for light wood-frame and mass timber buildings. This presentation will benefit any building and design professionals such as architects, designers, acoustic engineers, builders/developers and general contractors.

9:30-10:30am // AIA: YEGWSF04\_2017

**André Rioux, Vice President, Sales and Development**  
AcoustiTECH a division of FINITEC GROUP, St. Lambert-de-Lauzon, QC

## METAPHORS IN WOOD



Photo by Tom Arban

Stephen Teeple of Toronto-based Teeple Architects Inc. will be speaking about his firm's recent projects including the Philip J. Currie Dinosaur Museum. The Philip J. Currie Dinosaur Museum is an example of cutting edge wood design. Structural nodes were created by the design team to create a dramatic roof structure that defines an architectural style that is distinctly "Prairie" perfectly suited to landscape and purpose of the building yet adding intrigue as you drive to Grande Prairie and beckons all to stop and visit.

10:50-11:50am and 2:20-3:20am //  
AIA: YEGWSF10\_2017 – PENDING

**Stephen Teeple, Principal**  
Teeple Architects, Toronto, ON

## DESIGNING A PREFABRICATED, MODULAR, MASS TIMBER WORKFORCE ACCOMMODATION BUILDING IN THE NORTH

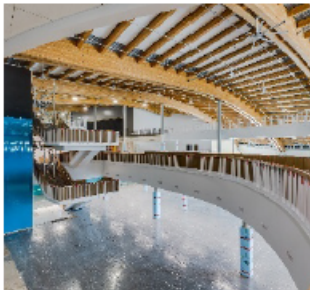


This presentation will focus on the design of a prefabricated modular workforce accommodation complex to be built using mass-timber. Measuring over 14,000m<sup>2</sup>, the project will contain 400 rooms with associated support functions. Planned for a remote location in North-east British Columbia, passive house principles have been applied to create a robust building envelope that will address the harsh climate, while offering reduced energy consumption and improved comfort. The health implications of materials used in the project are similarly a key concern, with a highly limited material palette employed. As a part of the design process, a full-scale mock-up of the typical module was constructed to evaluate, test, and refine the strategies proposed. Detailed explanation of the design process and strategic decisions that have resulted in the design will be shared.

10:50-11:50am and 3:40-4:40pm //  
AIA: YEGWSF07\_2017

**Derek Newby, Senior Associate, Architect AIBC, MRAIC, CPHD, LEED BD+C AP**  
Perkins+Will, Vancouver, BC

## COLLABORATING ON THE ROCKY RIDGE RECREATION FACILITY



Photos by David Troyer/GEC Architecture

The project team at Rocky Ridge Recreation Facility, including GEC, RJC, ISL and PCL will share their collaborative experiences constructing the largest wood roof structure in North America. The presentation will showcase the project's success story from the perspective of the prime consultant, structural design consultant, specialty design support engineer and construction manager and will include the following topics: Design Concept; Inspiration; Optimizing 3D models; Wood Structure Design Scheme; Minimizing Design & Construction Costs; Overall Project Challenges; Creating an environment for success through Construction Planning; and Lean Construction.

10:50-11:50am and 3:40-4:40pm //  
AIA: YEGWSF09\_2017

**Adrian Benoit M.Arch, LEED® AP, Associate**  
GEC Architecture, Edmonton, AB

**Ilan Ho P.Eng., Project Coordinator**  
PCL Constructors Canada Inc., Edmonton, AB

**James Please, Structural Design Consultant + Base Building Engineer**

RJC Engineers, Calgary, AB

**Robin Zirnhelt P.Eng., Senior Project Manager and Lead, Heavy Timber Engineering**

ISL Engineering and Land Services Ltd. Canmore, AB