

MASS TIMBER CONSTRUCTION SUMMIT

6th – 7th November 2024
Pan Pacific Toronto, Canada



EVENT OVERVIEW

The building sector stands as the third most carbon-intensive industry in Canada, contributing 13% of the nation's emissions in 2022, totaling 92 million tonnes (MT) of carbon dioxide, as reported by the Royal Bank of Canada. In response to this alarming emission rate, the government aims to reduce it to 53 MT by 2030. Kicking off towards this target, the construction sector is embracing wood, particularly mass timber, as an alternative or complement to concrete and steel, as it holds the potential to slash embodied emissions in buildings by up to 25%.

5.8 million—that's the number of new homes Canada needs to build by 2030 to ensure affordable housing for everyone, according to the Canada Mortgage and Housing Corporation. Ontario government is further bolstering housing initiatives with its Building Faster Fund, unveiled in August 2023. With an allocation of up to \$1.2 billion over three years, to incentivize municipalities actively engaged in expanding residential options. Notably, a portion totaling \$120 million is earmarked for smaller, rural, and northern municipalities to empower these regions in constructing housing-supporting infrastructure, while also prioritizing projects that accelerate the augmentation of housing availability. Mass Timber buildings can expedite this process, reducing construction time by up to 20% compared to concrete structures. On average, Mass Timber projects are completed 4-6 weeks faster than their concrete or steel counterparts.

Canada, as a pioneer in the Timber Construction industry, has completed 689 mass timber projects to date, with 76 under construction and 67 in the planning stages. Of the total 832 projects, British Columbia (BC) takes the lead with 355, followed by Quebec with 221, and Ontario with 151. Reflecting the industry's trajectory, the Canadian government is playing a pivotal role in boosting timber projects development and regulation for major stakeholders in the construction sector. A recent update to the BC Building Code, now in effect, allows for taller encapsulated mass-timber construction (EMTC) buildings, enabling residential and office structures to reach up to 18 storeys—an increase from the previous limit of 12 storeys. This is drawing other provinces throughout Canada to revamp codes to promote mass timber construction on a national scale.

The Mass Timber Construction Summit, a flagship event by **Trueventus**, features presentations from leading industry experts on the latest techniques and technologies in timber construction. Gain firsthand insights and experience on the latest innovations and opportunities in modern construction methods to streamline workflows, improve productivity, generate ample profit, and take advantage of the excellent networking opportunities

WHY YOU CANNOT MISS THIS EVENT

- Navigate the intricate landscape of strict regulations and building codes while contemplating the enduring durability of timber structures over the long term.
- Gain insights from case specific studies on how current players have successfully leveraged mass timber construction.
- Grasp the nuanced understanding of the financial landscape, empowering builders to make discerning decisions that safeguard their investments and fortify the economic foundation of their projects.
- Embark on an exploration of cutting-edge technologies and methodologies in engineered timber, seamlessly integrating them into construction practices to elevate the timber structures to unprecedented levels.

WHO SHOULD ATTEND?

This event is targeted but not limited to:

- CEOs, CFOs, & COOs
- Chief Construction Officers
- Project Directors
- VPs/ Directors/ Heads/ General

Managers/ Managers of:

- o Construction
- o City Planning
- o Architecture
- o Property Management
- o Civil Engineering
- o Project Engineering
- o Property Development
- o Infrastructure
- o Drafting Design
- o Procurement
- o Structural & Technical

From the following industries:

- Government Entities
- Construction Companies
- Real Estate Developers/ Investors
- Contractors
- Building Service Providers
- Technology Solution Providers
- Design & Architecture Firms
- Construction Project Management Firms
- Modular and Prefab

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FEATURING PRESENTATIONS AND CASE STUDIES BY DISTINGUISHED SPEAKERS



Oliver Lang
CEO & Co-Founder
Intelligent City,
Vancouver, British Columbia



Mark Gaglione
Director Construction Sciences
EllisDon,
Toronto, Ontario



Kevin McElhone
Director
Silvaspan,
New Lowell, Ontario



Patrick Chouinard
Founder & VP of Corporate Citizenship
Element5,
Toronto, Ontario



Lee Scott
Sales Manager
Element5,
Toronto, Ontario



Harshil Kaushal
Superintendent
Pomerleau,
Pickering, Ontario



Ryan Going
Project Manager
Pomerleau,
Toronto, Ontario



Robert Jackson
Partner
Fast + Epp,
Vancouver, British Columbia



Zenon Radewych
Principal
WZMH Architects, Toronto, Ontario



Justin Den Herder
Principal
TYLin | Silman Structural Solution,
NYC, New York



Michael Pankratz
Vice President / Design Lead
Cornerstone Timberframes,
Kleefeld, Manitoba



Aryan REZAEI RAD
Professor | Department of Civil &
Mineral Engineering
University of Toronto, Toronto, Ontario

FOR FURTHER DETAILS, CONTACT

NURUL

+60327750000 ext.632 ✉ : nurul@trueventus.com

Day One: Wednesday, 6 November 2024

0800 Registration & Coffee

0850 Chairperson's Welcome Address

0900 Session One

Building Communities: Mass Timber-Based Affordable Housing Solutions for Inclusive Development

- Mass Timber offers a repeatable, adaptable "kit of parts" solution to affordable housing
- Buildings are prefabricated, shipped to and assembled on site, making them quick to assemble and cost-effective.
- Wood is a natural, renewable and sustainable resource that is healthy for occupants and the planet

Patrick Chouinard, Founder & VP of Corporate Citizenship
Element5, Toronto, Ontario

0945

Session Two

Rebuilding Ukraine using the Speedstac System: Leveraging AI tools for efficient, cost effective, and sustainable modular construction

- Speedstac: The future of rapid and adaptable modular construction
- Utilizing AI with Speedstac for precise damage analysis and efficient rebuilding
- A global vision: Speedstac's potential to resolve worldwide housing challenges

Zenon Radewych, Principal

WZMH Architects, Toronto, Ontario

1030 The Speed Networking - The Mad Minutes!

Fun and fast, this networking activity is a great opportunity to grow your connections

1105 Morning Refreshments

1130 Session Three

Reaching New Heights: A Case Study on the Academic Wood Tower – Canada's tallest timber building

- Design challenges related to tall timber (eg: deflection, diaphragm system, etc)
- Lessons learned from construction (moisture management, site logistics and productivity, etc)
- Challenges with building permit and AHJs (eg: City of Toronto requirements for encapsulation, increased sprinkler density, etc)

Harshil Kaushal, Superintendent, **Pomerleau, Pickering, Ontario**
Ryan Going, Project Manager, **Pomerleau, Toronto, Ontario**

1215 Session Four

Effective Moisture Content Management Strategies for Mass Timber Projects

- Pre-Construction Moisture Control
- On-Site Moisture Monitoring
- Post-Construction Climate Control

Mark Gaglione, Director Construction Sciences
EllisDon – Toronto, Ontario

1300 Networking luncheon

1400 Session Five

Mass Timber & Adaptive Reuse

- Evaluating the viability of existing structures for a mass timber overbuild using computational tools and workflows.
- Key details and considerations at connections points between mass timber vertical overbuild and the existing structure below.
- The potential for mass timber vertical extensions as a scalable solution for decarbonization and increasing value of existing structures

Justin Den Herder, Principal

TYLin | Silman Structural Solution, NYC, New York

1445 Session Six

NLT: The Next Generation of Mass Timber

- Breathing new life into an old concept, NLT, and how it compares to CLT
- How Laminated Timber can offer new and innovative options to your next project
- Deliver amazing beauty and value with NLT that will make you rethink your mass timber options

Kevin McElhone, Director

Silvaspan, New Lowell, Ontario

1530 Afternoon refreshments

1600 Session Seven

Industrialization of Sustainable Construction

- Woodframe construction system
- CLT construction system
- Combination of different construction systems

(Speaker to be Advised)

1645 Session Eight

From Mass Timber to Whole Building Componentization

- How Design for Site Assembly (DfSA) can achieve labour productivity
- Outlining critical cost and schedule elements of componentized
- Mass timber building
- Reviewing the impacts of componentization on cashflow and design

(Speaker to be Advised)

1730 Session Nine

Implementing Structural Health Monitoring for Enhanced Safety and Longevity of Mass Timber Structures

- Utilize embedded sensors to continuously monitor stress, strain, and moisture levels for immediate real time insights
- Analyze collected data to anticipate potential issues and schedule maintenance proactively
- Implement structural health monitoring systems to detect early signs of wear or damage

(Speaker to be Advised)

1815 End of Day One

Day Two: Thursday, 7 November 2024

0800 Registration & Coffee

0850 Chairperson Welcome Address

0900 Session One

Case Study: The Hive – A 10-storey tall timber braced frame structure with seismic dampers

- Seismically advanced timber structures
- CLT shear walls and
- Glulam braced bays

Robert Jackson, Partner

Fast + Epp, Vancouver, British Columbia

0945 Session Two

Product Platforms for Scalable Housing Production

- Discover Intelligent City's revolutionary approach to urban housing through a scalable yet customizable mass timber product platform
- Learn how Intelligent City's integration of robotic manufacturing and parametric software enables the industrialization of construction
- Explore the impact of Intelligent City's innovative solutions on reducing greenhouse gas emissions and construction costs, paving the way for affordable, high-quality urban living

Oliver Lang, CEO & Co-Founder

Intelligent City, Vancouver, British Columbia

1030 Morning refreshments

1100 Session Three

Advancing Joinery Techniques: Innovations for Secure Connections in Mass Timber Construction

- Utilize high-strength self-tapping screws and engineered wood dowels to enhance the structural integrity and seismic resilience of timber joints
- Integrating steel connectors with traditional timber joinery methods, providing robust and reliable connections
- Embedded sensors within connection points to monitor stress, strain, and environmental conditions in real-time

Michael Pankratz, Vice President / Design Lead

Cornerstone Timberframes, Kleefeld, Manitoba

1145 Session Four

Digital Fabrication Technology in Design of Mass Timber Structures with High-Performance Systems

- Digital Fabrication as a backbone of construction 4.0 in mass timber
- Integrated Computational Structural Design
- Material Optimization and Prefabrication

Aryan REZAEI RAD, Professor | Department of Civil & Mineral Engineering

University of Toronto, Toronto, Ontario

1230 Networking luncheon

1400 Session Five

Enhancing Efficiency: Optimization Strategies for Cross-Laminated Timber (CLT) Production

- Material Selection and Sourcing – From grading techniques to environmental regulations and certification.
- Design and Manufacturing – Minimizing waste, reducing customization costs and automating production.
- Quality Control and R&D - Implementing rigorous quality control and piloting new technologies and processes

Lee Scott, Sales Manager

Element5, Toronto, Ontario

1445 Session Six

Innovative Building Envelope Design for High-Rise Mass Timber Structures

- Use high-performance, sustainable insulation materials to improve energy efficiency and thermal comfort in high-rise mass timber buildings
- Implementing modular, prefabricated envelope panels that ensure precision, speed and enhance airtightness
- Incorporate smart glazing, solar shading, and ventilation systems into the building envelope

Speaker to be Advised

1530 Afternoon refreshment

1600 Session Seven

Ensuring Lateral Stability in Tall Mass Timber Buildings: Design Strategies and Structural Solutions

- Employing CLT shear walls to provide robust lateral resistance
- Integrating steel or concrete cores with mass timber elements to improve lateral strength and distribute loads more effectively
- Post-tensioned timber beams and columns to increase stiffness and reduce deflections

(Speaker to be Advised)

1645 Session Eight

Optimizing Performance: Advanced Strategies for Timber Species Selection in Construction Projects

- Species Suitability Analysis
- Sustainability Considerations
- Enhanced Treatment Methods

(Speaker to be Advised)

1730 End of Conference



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COMPANY DETAILS

Name	Industry
Address	
Postcode	Country
Tel	Fax

ATTENDEE DETAILS

1	Name	Job Title
	Tel	Email
2	Name	Job Title
	Tel	Email
3	Name	Job Title
	Tel	Email
4	Name	Job Title
	Tel	Email
5	Name	Job Title
	Tel	Email

APPROVAL

NB: Signatory must be authorised on behalf of contracting organisation.

Name	Job Title
Email	
Tel	Fax
Authorising Signature	

REGISTRATION FEES

	Corporate
End of July 2024	CAD 1495 (Per Delegate)
End of August 2024	CAD 1995 (Per Delegate)
End of September 2024	CAD 2495 (Per Delegate)
1st October 2024 onwards	CAD 2995 (Per Delegate)

All options inclusive of delegate pack, luncheon and refreshments.

PAYMENT METHODS

Payment is due in 5 working days. By Signing and returning this form, you are accepting our terms and conditions.

Bank Transfer

Credit Card

REGISTER NOW

Nurul

T: +60327750000 ext.632

E: nurul@trueventus.com

Take a Snapshot or Scan and Email us

TERMS & CONDITIONS

- The course fee is inclusive of the event proceedings, materials, refreshment and lunch.
- Upon receipt of the complete registration form, invoice will be issued. Trueventus request that all payments be made within 5 working days of the invoice being issued. Full payment must be received prior to the event. Only delegates that have made full payment will be admitted to event. Clients are responsible for their own banking fees and banking fees will not be absorbed into the booking price.
- Substitution & cancellations policy. Should the registered delegate is unable to attend, a substitute delegate is welcome at no extra charge. Written notifications of all substitutions is required 5 working days prior to the event. Trueventus contracts carry 100% full liability upon receipt of registration. Non payment does not constitute cancellation. A 100% of cancellation fee will be charged under the terms outlined below. Due to limited event seats, Trueventus agrees to book and confirm the seat for the client upon issuance of invoice. Upon signing of this contract, client agrees that in case of dispute or cancellation of this contract Trueventus will not be for total contract value. If a client does not attend the event without written notification at least 5 working days prior to the event date, he/she will be deemed as no show. A no show at the event still constitutes that the client will have to pay the invoice amount that was issued to them. Trueventus does not provide refunds for cancellations. By signing this contract the client also agrees that if they cancel that Trueventus reserves the right to pursue monies owned via the use of local debt collection agency were the client is situated. Furthermore the client will be held liable for any costs incurred in collection of outstanding monies. When any cancellations are notified in writing to Trueventus 5 working days prior to the event, a credit voucher will be issued for use in future Trueventus events.
- Trueventus will at all times seek to ensure that all efforts are made to adhere to meet the advertised package, however we reserve the right to postpone, cancel or move a venue without penalty or refunds. Trueventus is not liable for any losses or damages as a result of substitution, alteration, postponement or cancellation of speakers and / or topics and / or venue and / or the event dates. If force majeure were to occur Trueventus accepts no responsibility or liability for any loss or damage caused by events beyond their control, including, but not restricted to strikes, war, civil unrest, flight delays, fire flood, or any adverse weather conditions. Trueventus is not liable in the event that a participant is exposed or is infected by Covid 19. Trueventus under no circumstances is liable for any other costs that might have been incurred in the attendance of the event, including but not limited to flights, accommodation, transfers, meals etc. Trueventus reserves the right to replace / change speakers in the best interest of the conference.
- Upon receiving this signed booking form, you the client hereby consent to Trueventus to keep your details for the use of future marketing activities carried out by Trueventus and third party organisations & partners.
- Copyright and Intellectual Property. Any redistribution or reproduction of part or all of the contents in any form in connection to this event is prohibited without prior written consent by Trueventus.
- Client hereby agrees that he/she exclusively authorizes Trueventus charged the credit card with details listed above for the amount provided herein; this registration form serves as a contract that is valid, binding and enforceable. He/she at any time will have no basis to claim that the payments required under this Contract are unauthorized, improper, disputed or in any way. Upon issuance of invoice Trueventus will be charging the client USD 30 processing fee.
- All Trueventus events are held in a classroom or theater format.
- All Trueventus events are held at either 5 or 4 Star Hotels.
- All payment must be directed to Trueventus in full prior to the event. Any company's participating in National training schemes such as HRDC Scheme and are applying grants you must first pay Trueventus and upon you receiving the grant you will be refunded this amount back. Failure to pay prior to the event can result in your company being blocked from joining the conference.
- All transaction charges, withholding taxes, local taxes, or currency exchange issues will be strictly absorbed by sender. Trueventus reserves absolute right to refuse admission of participant/s to the event should invoice amount is not received in full.