Cross-Laminated Timber Symposium

June 21-22, 2011
Toronto Westin Harbour Castle – Harbour Ballroom, Toronto, ON, Canada

Presented with the support of

Sponsors

BACKGROUND

Among the new products recently introduced in the wood construction sector is the cross-laminated timber (CLT) panel, also commonly known as a solid wood panel. It is without doubt currently one of the most discussed wood products in Canada.

CLT made its debut some fifteen years ago in Austria. Now, there are several major producers, located mainly in Austria, Germany and Scandinavian countries. This emerging successful system from Europe has been identified by the forest products industry and the research and wood design communities in Canada as a new opportunity for wood in non-traditional applications. CLT is now available in Canada. This two-day symposium is a unique opportunity to find out more about CLT, and how it can enhance and benefit your projects.

Come to the Cross-Laminated Timber Symposium, and be among the first "in the know" about this innovative product!

Wood *WORKS!* Ontario, CWC and FPInnovations, are organizing a comprehensive two-day symposium on CLT panels and assemblies. Over the course of these two days, all major aspects relating to CLT panels and assemblies will be discussed: architectural and structural design, manufacturing, seismic resistance, connections, fire safety, acoustics, floor vibrations, durability, and environmental performance. Case studies from Canada, Europe and the United States will be presented. During the symposium, we are privileged to host experts from Austria, Italy, the United Kingdom, Canada and the United States.

- Dr.techn. Gerhard Schickhofer, university professor, Graz University of Technology, Austria will speak to the European experience of building with the new material and the challenges met.
- Dr. Ario Cecotti, professor, IVALSA, Italian Trees and Timber Research Institute, Italy will be on hand to discuss seismic performance.
- Tristan Wallwork, CEng, MIStructE, Ramboll Engineering, United Kingdom will give a presentation on the engineering requirements for CLT used in the construction of The Norwich Academy, the UK's largest structural timber building to date, and other European projects.

This symposium is for:

- Wood Product Manufacturers
- Fastener Manufacturers
- Building Code Consultants
- Economic Development Officers
- Business & Product Development Managers
- Architects
- Structural Engineers
- Builders
- Developers
- Building Authorities

Be among the first in Canada to receive the new Cross-Laminated Timber Handbook!

Under the Transformative Technologies Program of Natural Resources Canada, FPInnovations launched a multi-disciplinary research program on cross-laminated timber in 2005. Based on these studies and the knowledge gained from the European experience, FPInnovations has prepared a peer-reviewed CLT handbook which provides key technical information related to the manufacturing, design and performance of CLT in construction.

Event Program

Co-Chairpersons: Marianne Berube, Executive Director, Wood *WORKS!* Ontario
Richard Desjardins, Manager, Building Systems, FPInnovations

DAY 1 - TUESDAY, JUNE 21, 2011

7:45 - 8:30 am	**45 min**	**Registration and continental breakfast**
8:30 - 8:45 am	**15 min**	**Opening Remarks from Chairs** **Welcoming Remarks by Deputy Minister David O'Toole, Ministry of Northern Development, Mines and Forestry**
8:45 - 9:00am	15 min	**Cross Laminated Timber (CLT) in the Context of Wood Building Systems** *Richard Desjardins, Manager,* Building Systems, FPInnovations
9:00 - 9:45am	45 min	**CLT - European Experiences** *Gerhard Schickhofer, Univ.-Prof. Dipl.-Ing Dr.techn.* Graz University of Technology, Austria
9:45 - 10:00am	**15 min**	**Coffee Break**
10:00 - 10:30am	30 min	**North American Regulatory System: How CLT will be implemented into the Canadian and US building codes and standards** *Peggy Lepper, M.Sc.F., Director of Technical Services,* Canadian Wood Council *and Brad Douglas, P.E., Vice President, Engineering,* American Wood Council
10:30 - 10:50am	20 min	**CLT - Assessing the Market Opportunity in North America** *Pablo Crespell, Ph.D., Research Scientist,* Building Systems, FPInnovations
10:50 - 11:20pm	30 min	**CLT - Manufacturer's Perspective** *Mathias Oberholzer, Project Manager,* Nordic Engineered Wood
11:20 - 11:50pm	30 min	**CLT – Structural Design, Duration of Load and Creep** *Sylvain Gagnon, P. Eng., Research Scientist,* Building Systems, FPInnovations
11:50 - 12:20pm	30 min	**Fire Performance of CLT Assemblies** *Steve Craft, Ph.D., Research Scientist* Building Systems, FPInnovations
12:20 - 1:15pm	**55 min**	**Buffet Lunch, Lobby**
1:15 – 1:55pm	50 min	**CLT – Seismic Performance** *Marjan Popovski, Ph.D., P.Eng., Research Scientist,* Building Systems, FPInnovations, *and Univ.-Prof. Dr. Ario Ceccotti, Director IVALSA,* Italian Trees and Timber Research Institute, Italy
1:55 - 2:25pm	30 min	**CLT – Connections** *Mohammad Mohammad, Ph.D., P.Eng., Group Leader, Structure,* FPInnovations
2:25 - 2:45pm	20 min	**CLT – Vibration Performance** *Lin Hu, Ph.D., Research Scientist,* Building Systems, FPInnovations
2:45 – 3:05pm	**20 min**	**Coffee Break**
3:05 – 3:35pm	30 min	**Durability by Design: CLT Construction** *Constance Thivierge, P.Eng. MASc, Research Scientist,* Building Systems, FPInnovations
3:35 - 3:55pm	20 min	**CLT – Acoustic Performance** *Sylvain Gagnon, P.Eng., Research Scientist,* Building Systems, FPInnovations
3:55 - 4:30pm	35 min	**CLT Research in Canadian Universities** *Dr. Y H Chui, Professor and Scientific Director of NEWBuildS Network,* University of New Brunswick
4:30 - 6:00	**90 min**	**Lobby Reception**

DAY 2 - WEDNESDAY, JUNE 22, 2011

7:45 - 8:25am	**40 min**	**Continental Breakfast**
8:25 - 8:30am	5 min	**Opening Remarks from Chairs**
8:30 - 9:30am	60 min	**CLT - The Norwich Academy and other European projects** *Tristan Wallwork, CEng, MIStructE, Associate Director* Ramboll UK Limited (Structural Engineers)
9:30 - 10:10am	40 min	**CLT in the USA - Projects, Sustainability and Manufacturing** *Crawford Murphy* Murphy Architects
10:10 - 10:30am	**20 min**	**Coffee Break**
10:30 - 11:10am	40 min	**CLT in Canada - UBC Bio-Energy Facility** *Larry McFarland, Principal,* McFarland Marceau Architects
11:10 - 11:45am	35 min	**CLT - Projects in British Columbia** *Robert Malczyk, MASc, P.Eng., MBA,* Principal, Equilibrium Consulting Engineers
11:45 - 12:00pm	**15 min**	**Closing Remarks from Chairs**

Registration

	General	CWC or FPInnovations Members and Students
Fee	$325.00	$275.00
13 % HST R106868797	42.25	35.75
Total	$367.25	$310.75

Pre-Order your CLT Handbook now!

The handbooks will be available for pick up at the Symposium.

Cost: CLT Handbook	$150.00
13% HST R106868797	19.50
Total	$169.50

French language handbooks available by request.

Information: Sarah Hicks, 1-866-886-3574 ext 384
shicks@cwc.ca

On-line registration:
www.cltsymposium.ca
Secure payment using a credit card (Visa or MasterCard).

Registration includes food and beverages.

Cancellation policy
Cancellations must be made no later than 48 hours before the seminar starts. Fees non-refundable after this time.

Registration deadline:
EDT Thursday, June 16, 2011 at 5:00 p.m.
No registration on-site.

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June 21-22, 2011
Toronto Westin Harbour Castle, Harbour Ballroom,
One Harbour Square, Toronto ON

☐ General ☐ CWC / FPInnovations Member or Student

Please send your cheque or postal money order, made out to the Canadian Wood Council, to the following:

Cross-Laminated Timber Symposium
Attention: Adrian Groza, Canadian Wood Council
Suite 400 - 99 Bank Street, Ottawa, ON, Canada K1P 6B9

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