

## Wood *WORKS!* E-Bulletin Branché sur le bois

The newsletter of the Wood *WORKS!* initiative / Le bulletin de l'initiative Branché sur le bois

27-03-2009  
Edition 09-03

### National

- **Mid-rise Wood Building Study**

Discussions of the feasibility and practicality for the construction of wood structured buildings over 5 stories have taken place. Experts evaluated and identified details specific to this study and developed a plan of action during an expert forum and a research document has been completed. The next step of this project is the development of an actual prototype structure.

For more information on this study or to obtain research documents please contact Jennifer Duthie at: [jduthie@cwc.ca](mailto:jduthie@cwc.ca)

***Étude sur les immeubles de taille moyenne***

*Nous avons tenu des discussions au sujet de la faisabilité et de la valeur concrète de la construction de bâtiments à ossature de bois de plus de cinq étages. Des experts ont évalué et identifié des détails particuliers de cette étude et élaboré un plan d'action au cours d'un forum d'experts et un document de recherche a été préparé. La prochaine étape de ce projet est la conception du prototype de la structure.*

*Pour plus d'information sur cette étude ou pour obtenir des documents de recherche veuillez communiquer avec Jennifer Duthie à : [jduthie@cwc.ca](mailto:jduthie@cwc.ca)*

- **Solid Wood Wall Study**

Wood *WORKS!* supported a design and construction team in the development of conceptual schematics of a panelized solid wood wall structure for a typical office building. All structural assemblies including exterior walls, floors and roofs compose the massive wood wall system, similar to buildings already built in Europe. Driving factors behind this study is to assess viability, costing and feasibility of these assemblies. Also, with respect to sustainably -- wood acts as a carbon sink. Massive wood assemblies store large quantities of carbon for the lifetime of the building. No other material can make this claim and as such wood has proven time and again to be the superior building material for many factors.

For more information on this study or to obtain research documents please contact Jennifer Duthie at: [jduthie@cwc.ca](mailto:jduthie@cwc.ca)

• ***Étude de mur en bois massif***

*L'initiative Branché sur le BOIS! a appuyé une équipe de conception et de construction dans le développement d'un schéma conceptuel d'une structure en panneaux de mur en bois massif pour un immeuble à bureaux typique.*

*Tous les assemblages structuraux, y compris les murs extérieurs, les planchers et les toits constituent le système constructif de mur en bois massif, semblable aux bâtiments déjà construits en Europe. Cette étude vise à évaluer les facteurs comme la viabilité, l'établissement du coût de revient et la faisabilité de ces structures. En ce qui a trait à la viabilité -- le bois agit comme un puits de carbone. Les assemblages de bois massif emmagasinent de grandes quantités de carbone pendant toute la durée de vie du bâtiment. Aucun autre matériau ne peut avoir cette prétention et à ce titre le bois demeure depuis toujours un matériau de construction supérieur à l'égard d'un grand nombre de facteurs.*

Wood *WORKS!* is a  
Canadian Wood Council  
initiative

*Branché sur le bois est une  
initiative du Conseil canadien  
du bois*

### Feature Stories

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[New Report: Expanding  
Market Demand for Canadian  
Wood Products](#)

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[Wood \*WORKS!\* BC gets boost  
from Premier for code changes  
to allow 7-Story Mid-rise  
Wood Buildings in BC.](#)

### Upcoming Events

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[Click Here!!!](#)

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**Potential Wood Projects  
Pursued by Wood  
*WORKS!***

*Pour plus d'information sur cette étude ou pour obtenir des documents de recherche veuillez communiquer avec Jennifer Duthie à : [jduthie@cw.ca](mailto:jduthie@cw.ca)*

- **Wood WORKS! Supported Research Reports on the Sustainability File**

1. Detailed Analysis on the possible effects / impacts the USGBC LEED Building Rating System could have on the building sector
2. Review / assessment of the GBI Green Globes Building Rating System from a marketing perspective

Both reports made possible with the support of Natural Resources Canada.

***Branché sur le BOIS! Dossier des rapports de recherche sur la viabilité***

1. *Analyse détaillée des effets / impacts possibles que le système USGBC LEED pourrait avoir sur le secteur du bâtiment.*
2. *Examen / évaluation du système d'évaluation des bâtiments écologiques d'un point de vue du marketing.*

*Les deux rapports sont rendus possibles avec l'appui des Ressources naturelles Canada*

## British Columbia

- **Wood Solutions Fair 2009**

It was packed audiences all the way around at this year's Vancouver Wood Solutions Fair, March 18th, which had over 1100 design and construction professionals registered for the day. This year's program offered fifteen different presentations on a variety of topics. Twenty seven exhibitors participated in the event. Exit surveys provided very positive feedback on the educational value of the day's program. The 2010 Vancouver Fair will be held Thursday, April 22, 2010 at the Vancouver Convention and Exhibition Centre. Suggestions regarding topics for presentation and speakers are always welcome. Contact Lorna Malone, event coordinator at [lmalone@wood-works.ca](mailto:lmalone@wood-works.ca). Also visit [www.wood-solutionsfair.com](http://www.wood-solutionsfair.com)

- **Wood Catapult Competition**

Nine post-secondary teams arrived early Saturday morning, March 28th, at the Whit-Matthews sports field (UBC) for the launching of the third annual Wood Catapult Competition hosted by Wood WORKS! BC, an initiative of the Canadian Wood Council. The teams were from UBC, BCIT, North Island College and Okanagan College. Each team had their machine weighed in and evaluated before setting up on the field, and this year no teams were penalized for exceeding the weight limit (70 kilograms). Though the weather was damp and cold, the teams were not deterred from giving very thorough and individualized presentations to their attentive audience composed of competing teams, WW staff and three judges from the prize sponsoring associations (ASTTBC, APEG and AIBC). The 15 minute presentations were the teams' opportunity to share what they had learned throughout the designing and building process of their siege engine, giving particular emphasis to the properties of wood. They also explained how they adhered to the strict guidelines of the competition, with respect to making their propulsion materials all wood and only using the limited amount of non-wood products. A concentrated effort by all enabled an early break for lunch where delicious food and a warm, dry lunch room were appreciated. Prior to competition day, the teams also had their submitted reports marked by Wood WORKS! BC staff.

After lunch the performance trials started, which continues to be the real highlight of the Wood Catapult Competition. Many spectators arrived,

*For more information on the projects, please contact the provincial directors by clicking on the project's link.*

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### British Columbia:

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[Vancouver Convention Center Expansion Project](#)

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[Surrey Olympic Training Center](#)

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### 2010 Olympic Venues:

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[Olympic Speed Skating Oval, Richmond](#)

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### Alberta:

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[YMCA, Downtown Edmonton, AB](#)

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### Ontario:

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[Kitchener Library](#)

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[Aylmer Fire Hall](#)

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### Quebec:

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[Tim Horton's](#)

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## *Wood Links*

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[Become a National Sponsor!](#)

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braving the weather, to cheer on their favorite team. The performance trials are the real test of whether teams designed their machine with an understanding of the properties of wood. Due to rainy conditions, many teams learned first-hand how moisture can damage wood. Unexpected swelling of wood components resulted in teams frantically sanding down precession made parts so they would slide or turn as designed. Other failures, such as dissolving glue and stressed weight axels or level arms, took their toll as the day progressed. What worked in theory was soon found not to work in practice, as the teams struggled to zero in on hitting the 20, 30 and 45 meter targets before using the remainder of their 30 minute time to accumulate as many points as possible. After the half hour, teams were also given the chance to vie for the prestigious longest shot of the day.

Best Report: Hurlinballs – Okanagan College 91/100

Best Presentation: P.A.N.I.C. – North Island College 81.3/100

Team Spirit: Knotty Engineers, BCIT

Longest Distance: P.A.N.I.C. – North Island College 85 meters

Third Place Overall: Knotty Engineers, BCIT 537.6 points

Second Place Overall: Blind Walruses, UBC 565.4 points

First Place Overall: Hurlinballs, Okanagan College 1809 points

Special thanks goes to the Brad Walton (ASTTBC), Omar Ishkintana (APEG) and Scott Kemp (AIBC) who represented their respective associations by judging this all day event and by awarding the prize money to the top three teams overall in the amounts of \$1500, \$1000 and \$500 (respectively).

For further information see our website at [www.wood-works.org](http://www.wood-works.org) (BC Wood WORKS!/Competitions).

- **Union of BC Municipality annual meetings**

Three of the five regional associations that make up the Union of BC Municipalities, AVICC, SILGA and AKBLG are holding their annual general meetings in April. Wood WORKS! staff will be in attendance. These meetings provide an excellent opportunity for networking with elected municipal officials and discussing wood options for any proposed projects in their communities.

## Alberta

- **Edmonton BuildEx**

Alberta Wood WORKS! attended Edmonton BuildEx, at the Shaw Convention Centre, March 17 & 18, 2009. The show was well received by the community with 1500 people in attendance.

- **Wood WORKS! Alberta 3rd Awards Gala Postponed**

Alternate presentation of the awards to be announced on the website. Nominations remain open until further notice.

- **Wood Solutions Fair a Success**

Wood Solutions Fair held at the Mayfield Inn, Edmonton, April 8, 2009

- **Technical Advisors** attended training meetings in Vancouver. Visits to the Richmond Oval and Structurlum in BC, and then attended the Vancouver Wood Solutions Fair. Both TA's have been busy visiting Architects and Engineering firms and have been presenting Lunch and Learns.

- **Inspirational Design Luncheon Dates Announced**

Dates to be May 14th (Saskatoon) & 15th (Edmonton) The luncheon speaker is Lubor Trubka, Master of Science in Architecture and Urban Design and

Master of Science in Structural Engineering, Czech Technical University of Prague. Mr. Trubka's original and innovative designs of projects utilizing wood and engineered wood products have earned him many international awards and the reputation of a renowned specialist. He has been actively pioneering a broader use of sustainable wood construction technologies in Canada and abroad.

- Contact for any of the events can be directed to Juanita Bobbitt at:  
[jbobbitt@wood-works.ca](mailto:jbobbitt@wood-works.ca)  
or by calling 780-489-5900

## Ontario

- **In-Office Technical Presentation, Toronto (March 4)**  
Lunch and learn presentation on sustainability issues, carbon sequestering and carbon calculations was delivered to Guthrie Muscovitch Architects.
- **Provincial TAC Meeting, Toronto (March 5)**  
Technical Advisory Committee meeting.
- **Presentations to OCAD and U of T, Toronto (March 13)**  
Wood *WORKS!* presentations along with information on the student wood product design competition were given at the Ontario College of Art and Design and the University of Toronto.
- **National Directors Meeting, Vancouver (March 18)**
- **National TAC Meeting, Vancouver (March 19)**  
Technical Advisory Committee meeting.
- **Funding Update (March)**  
Completed funding proposals for next 2-3 years, in line with our recently published 2012 Growth Plan, and submitted to the Federal Economic Development Initiative of Northern Ontario (Fed Nor), the Ontario Ministry of Natural Resources (MNR) and Natural Resources Canada (NRCAN).
- **New Case Study**  
Look for our newest case study, The Rock Community Church, to be published this April, both in print and online at [www.wood-works.org](http://www.wood-works.org) (click on the link for Case Studies under the Ontario Wood *WORKS!* tab .
- **Upcoming ....**
  - Wood *WORKS!* Ontario Provincial Steering Committee Meeting, Toronto (April 15)**
  - Federation of Northern Ontario Municipalities Conference and AGM, Sudbury (May 6-8)**
  - Ontario Association of Architects AGM, Toronto (May 6-8)**  
Wood *WORKS!* is hosting two core continuing education sessions on May 7 at the OAA's annual general meeting taking place at the Westin Harbour Castle. The first session, beginning at 8:30am, will discuss wood in mid-rise construction. The afternoon session starting at 2:00pm will discuss leading edge fire suppression technology as a way to expand the use of wood in buildings traditionally required to be of non-combustible construction.
  - Ottawa Wood Design Luncheon Conference, Ottawa (May 20)**  
Designed for architects, engineers, building officials and other design/build professionals, this half-day seminar will present three educational topics related to the use of wood in non-residential construction. Presenters include: Frank Laytner, Industry Advisor, Value-Added Wood Products, FPInnovations – Forintek speaking on Wood as a Durable Construction Material; Brian R. Bertrand, B.E.D.S., B. Arch., O.A.A., MRAIC, Principal Architect, Evans Bertrand Hill Wheeler Architecture Inc. speaking on Patient Focused Care and Wood in the Healing Environment; and David Moses, PhD, PEng, PE, LEED®AP, Toronto Office Manager, Equilibrium Consulting Inc. speaking on AGO Transformation – Advanced use of CNC

Technology – Sophisticated Connection Design. To register for this free event contact Tim Buhler at: ([tbuhler@wood-works.ca](mailto:tbuhler@wood-works.ca) )

## Québec

- **Cecobois.com Online**

The Cecobois, (Centre d'expertise sur la construction commerciale en bois) website has just been launched online. Internet users can now access sections dealing with wood advantages, wood applications and properties, wood and the building code and wood and the environment. They will also find an inventory of projects, manuals and publications, lists of manufacturers and suppliers, a lexicon, design tools, examples of plans and specifications, as well as news and events to come. Your comments will be appreciated. Have a good visit at [www.cecobois.com](http://www.cecobois.com)

***Cecobois.com en ligne***

*Le site Internet de cecobois, le Centre d'expertise sur la construction commerciale en bois, est maintenant en ligne. Les internautes peuvent y consulter des sections portant sur les avantages du bois, le bois et ses applications, le bois et ses propriétés, le bois et le Code du bâtiment et le bois et l'environnement. On y trouve également un répertoire de projets, des manuels et des publications, des listes de fabricants et de fournisseurs, un lexique, des outils de calcul, des plans et devis types ainsi que des nouvelles et les événements à venir. Vos commentaires sont appréciés. Bonne visite sur [www.cecobois.com](http://www.cecobois.com)*

- **Technical Guides in Production**

The Cecobois team has created two technical guides that will soon be available online at [www.cecobois.com](http://www.cecobois.com) They deal with I-beams and open web beams. Two other guides in production will deal with roof trusses and engineered wood posts and beams. These guides will help engineers and architects designing buildings with wood.

***Guides techniques en production***

*The L'équipe de cecobois a rédigé deux guides techniques qui pourront bientôt être consultés sur [www.cecobois.com](http://www.cecobois.com) Les sujets traités sont les poutrelles en I et les poutrelles ajourées. Deux autres guides sont en rédaction qui porteront sur les fermes de toit et les poutres et colonnes en bois d'ingénierie. L'objectif des guides est d'aider les ingénieurs et les architectes dans la conception de bâtiments utilisant le bois.*

- **Courses for Engineers**

Cecobois will organize two courses on the design of wood frames during winter 2009. These courses will deal with light wood framing (one day) and posts and beams framing (one day) of multiple stories buildings. These courses are based on real designs made in Quebec and in Ontario in accordance with the National Building Code 2005 and the CSA 086 Design Standard.

***Formations pour ingénieurs***

*Cecobois offrira deux formations sur la conception des charpentes en bois à l'hiver 2009. Les formations traiteront de la conception en ossature légère (une journée) et de la conception en poutres et poteaux (une journée) de bâtiments multi-étagés. Les formations seront basées sur des conceptions réelles faites au Québec et en Ontario conformément au Code national du bâtiment 2005 et la norme de calcul CSA 086.*

**Wood WORKS!** would like to thank its project partners.  
*Branché sur le bois remercie ses partenaires.*

The Wood WORKS! project is a national, industry-led initiative, spearheaded by the Canadian Wood Council, to promote the use of wood in commercial, industrial and institutional construction.

The Wood WORKS! E-Bulletin is our method to communicate to you the many activities, accomplishments and successes of the initiative throughout the past month, as well as upcoming projects and events we are currently working on.

*Le projet Branché sur le bois est une initiative nationale, lancée par l'industrie et menée par le Conseil canadien du bois, afin de promouvoir l'utilisation du bois dans la construction commerciale, industrielle et institutionnelle. Le Bulletin Branché sur le bois s'avère notre méthode de communication pour vous informer des activités, résultats et succès du projet au cours du mois, en plus de vous mettre au courant des événements à venir.*

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***Pour de plus amples renseignements, veuillez visiter notre site Web [www.wood-works.org](http://www.wood-works.org)***