

**NSERC Strategic Network on Innovative Wood Products
and Building Systems (NEWBuildS)**

Wood Science and Technology Centre
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**CWC / NRC / FPInnovations / NEWBuildS
Mid-rise Building Project Student Workshop**

Friday February 3, 2012

NRC Institute for Research in Construction
Room 253 @ M-55 (CISTI) Building, 1200 Montreal Road, Ottawa

AGENDA

- 8:30 - 8:35** **Welcome** Dr. Morad Atif, Director General, NRC/IRC
- 8:35 – 8:40** **Overview of NEWBuildS** Prof. Y. H. Chui
- 8:40 – 9:00** **NRC/IRC Mid-Rise Project** Dr. Joseph Su, Project Leader
- 09:00 – 11:00** **Session 1: Structural**
- 09:00 – 09:20 S-1 Predicting Lateral Drift and Natural Period of Mid-rise Wood and Hybrid Buildings
Ms. K Nidaa Alwan, University of Ottawa (T2 –5–C2)
- 09:20 - 09:40 S-2 Structural Response of Mid-rise Hybrid Building System consisting of a Light Wood Frame Structure and Stiff Core
Ms. Lina Zhou, University of New Brunswick (T2–9–C6)
- 09:40 – 10:00 S-3 Hybrid Wood and Steel Seismic Systems: Preliminary Results
Ms. Carla Dickof, University of British Columbia (T2–3–C4)
- 10:00 – 10:20 S-4 Wood-frame diaphragm model
Ms. Xinlei Huang, University of British Columbia (T2–6–C3)
- 10:20 – 10:30** **BREAK**
- 10:30 – 10:50 S-5 Deformation Incompatibilities of Materials in Timber Heavy-frame Hybrid Non-residential Buildings
Mr. Henry Meleki, University of New Brunswick (T2–10–C6)
- 10:50 – 11:10 S-6 Windbearing Wood Infill Walls in Reinforced Concrete Frame Structures
Mr. Jeff Blaylock, University of Western Ontario (T2–2–C4)
- 11:10 – 12:10** **Session 2: Fire**
- 11:10 – 11:30 F-1 Rationalization of life safety - code requirements for mid-rise buildings
Mr. Mike Kruzelnicki, Carleton University (T3–2–C9)
- 11:30 – 11:50 F-2 The application of a new fire spread sub-model to the fire risk analysis tool – CURrisk
Mr. Xiao Li, Carleton University (T3–1–C70)
- 11:50- 12:10 F-3 Fire Resistance of Cross Laminated Timber Panels
Mr. Marc Aguanno, Carleton University (T3–3–C7)



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12:10 – 13:00 LUNCH

13:00 – 14:00 Session 3: Durability

13:00 – 13:20 D-1 Borate as a potential wood preservative to protect building envelop components from biodegradation

Mr. Md. Nazmus Saadat, University of Toronto (T4-4-C11)

13:20 – 13:40 D-2 Assessing the Moisture Durability of Wall Assemblies for CLT Construction in Canadian Climates

Mr. Robert Lepage – University of Waterloo (T4-5-C10)

13:40 – 14:00 D-3 Field Study of Hygrothermal Performance of Cross-Laminated Timber Wall Assemblies with Built-in Moisture

Ms. Ruth McClung, Ryerson University (T4-5-C10)

14:00 – 15:00 Open Forum Discussion and Planning Dr. Russ Thomas

15:00 – 15:15 Workshop Wrap-up

