Russell Richman Consulting Ltd.

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THERM/WUFI Workshops 2012

Russell Richman Consulting Ltd. (RRCL) cordially invites you to attend the first annual THERM/WUFI Workshops on May 17, 18, and 19th, 2012 in downtown Toronto, Canada.

THERM Workshop Overview

May 17 and 18, 2012
8:30am to 5pm
Architecture Building, Ryerson University
325 Church Street, Toronto, ON

Cost - $750 (+HST) *visit* **rrcl.ca** *for payment options*
Maximum participants is 15 (first come, first served)

Whether a beginner user or one with moderate experience, this workshop will elevate your skills and understanding of 2-dimensional conduction based simulation using THERM and WINDOW programs to model building envelope details. Focus will be placed on window assemblies and simulation to support Passive House certification as supported by PHIUS and PHI.

Proposed Schedule

Day 1 (May 17, 2012)	Day 2 (May 18, 2012)
Morning	*Morning*
• Heat transfer mechanisms for windows and walls	• Passive House protocol
• Drawing in THERM	• Ψ-factor calculations for windows
Afternoon	*Afternoon*
• Advanced rules and guidelines (drawing, simulating, importing)	• Simulating Passive House building enclosures (Ψ-factor calculations, ground conditions)

WUFI Workshop Overview

May 19th, 2012
Core Workshop - 10am to 6pm
WUFI Bootcamp (introduction) – 7:30am to 9:30am
Architecture Building, Ryerson University
325 Church Street, Toronto, ON

Cost – $400 (+HST) for Core Workshop only
          $100 (+HST) additional for Bootcamp
Maximum participants is 15 (core) and 10 (Bootcamp)
(first come, first served) *visit* **rrcl.ca** *for payment options*

The intent of the Core Workshop is to build your current usage and analytical skills to support simulation using WUFI Pro software applied to building enclosures. Focus will be placed on super-insulated assemblies that support Passive House and extremely low energy building design. Your understanding of hygrothermal effects will be elevated in order to assist your analytical skills and draw conclusions from WUFI outputs.

The Bootcamp is a short, intensive introduction to the functionality WUFI. If you are new to or have minimal experience with WUFI, we recommend attending this portion of the day.

Proposed Schedule (Core Workshop)

Day 1 (May 19, 2012)

Morning	*Afternoon*
• Hygrothermal mechanisms for enclosure assemblies. • Output interpretation	• Inputting new materials • Advanced rules and guidelines • Case study exercises

About the Instructor

Russell Richman, Ph.D., P.Eng. is President of RRCL and an Assistant Professor in the Building Science Graduate Program within the Department of Architectural Science at Ryerson University. Russell has been practicing, teaching and researching in the combined fields of Building Science and Sustainable Buildings for over 15 years. RRCL has completed numerous consulting engineering projects utilizing THERM and WUFI. Russell is also a member of the PHIUS Technical Committee.

For more information, please visit: www.rrcl.ca & www.ryerson.ca/richman