



Russell Richman Consulting Ltd.

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THERM/WUFI Workshops 2015

Russell Richman Consulting Ltd. (RRCL) cordially invites you to attend the 2015 THERM/WUFI Workshops in downtown Toronto, Canada.

Likely venue to be the Architecture Building, Ryerson University
325 Church Street, Toronto, ON.

THERM Workshop Overview

2 Days - 8:30am to 5pm

Likely dates are October, 2015 (weekend after Thanksgiving) or
December, 2015 (between December 15th and 23rd)

Cost - \$750 (+HST)

Maximum participants is 15 (first come, first served)

Please email richman@rrcl.ca to express your interest and save a spot

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.

Proposed Syllabus

Day 1

Morning

- Heat transfer mechanisms for windows and walls
- Drawing in THERM

Afternoon

- Advanced rules and guidelines (drawing, simulating, importing)

Day 2

Morning

- Pertinent simulation protocols
- Ψ -factor calculations for windows

Afternoon

- Simulating building enclosures (Ψ -factor calculations, ground conditions)



THERM/WUFI Workshops 2015

WUFI Workshop Overview

1 Day – 8:30 am to 5 pm

Likely dates are October, 2015 (weekend after Thanksgiving) or December, 2015 (between December 15th and 23rd)

Cost – \$400 (+HST)

Maximum participants is 15 (first come, first served)

Please email richman@rrcl.ca to express your interest and save a spot

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.

Proposed Syllabus

Day 1

Morning

- Hygrothermal mechanisms for enclosure assemblies.
- WUFI input basics.
- Output interpretation

Afternoon

- Inputting new materials
- Advanced rules and guidelines
- Case study exercises
- Managing your result data outside of WUFI (i.e. creating your own graphs, tables, etc.)

About the Instructor

Russell Richman, Ph.D., P.Eng. is President of RRCL and an Associate 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 17 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