



# Modern Building Enclosures: The Art and Science of Energy Efficiency

Building codes, standards, and voluntary regulations have been changing – perhaps more quickly than at almost any time in history – to improve the resource efficiency and durability of buildings. Current and proposed building codes contain simple and reasonable provisions for much better building enclosures, but these changes also have far-reaching implications. This presentation will examine code changes, the building science behind them, and their direct impact on architectural design. Case studies and related research will be used to explain how new code requirements are addressing issues such as thermal bridging and whole building airtightness – and how meeting these requirements will change the look of modern buildings.

## LEARNING OBJECTIVES:

- Understand upcoming code changes for energy and thermal control that will affect enclosure design and construction.
- Understand the relationship between thermal control, energy efficiency, and occupant comfort.
- Learn strategies for enclosure design that use a range of evidence-based technologies to meet changing thermal control requirements.
- Recognize the aesthetic impact of thermal control requirements and new approaches to enclosure design and construction.



**Presenter: Alex Lukachko, M.Arch.**

*Alex Lukachko is a Principal and Senior Building Science Specialist with RDH. In addition, he teaches the integration of energy, building science and design concepts in the architecture programs at the University of Waterloo and the University of Toronto. Alex has active research interests in the development of future building enclosure systems and the design of high performance, low environmental impact buildings.*

## Join us in person or live online!

REGISTER FOR IN-PERSON EVENT IN WATERLOO (NOV. 15, 5:30-7:30PM EST):  
[labevents-modern-enclosures.eventbrite.ca](http://labevents-modern-enclosures.eventbrite.ca)

REGISTER FOR LIVE WEBCAST (NOV. 15, 5:45-7:15PM EST):  
[labevents-webcast-modern-enclosures.eventbrite.ca](http://labevents-webcast-modern-enclosures.eventbrite.ca)

*This presentation is part of RDH Building Science Laboratories' LAB (Learning About Building Science) Event series. Learn more at: <http://learnbuildingscience.com/upcoming-lab-events/>*