



Building Envelope Council Ottawa Region

Lunch and Learn Technical Seminar
Wednesday, November 14, 2018
Noon to 2:30 pm

Sala San Marco, 215 Preston Street, Ottawa, Ontario

NRC's Climate Resilient Buildings and Core Public Infrastructure Initiative

Presented by

**Marianne Armstrong, P.Eng., Centre for Construction Research
National Research Council of Canada, Ottawa**

The National Research Council of Canada (NRC) and Infrastructure Canada have undertaken a ground-breaking initiative to update Canadian codes, specifications, guidelines, and assessment tools to improve the resilience of buildings and infrastructure to climate change and extreme events. The initiative began in 2016, and involves a number of activities to increase the durability of building envelope systems and materials for new and existing construction. This presentation will highlight work that is currently underway including:

- The prediction of future climate data and loads for potential inclusion in codes, standards and guidelines. NRC is working with climate experts to model and predict future climate loads, including temperature, wind and precipitation.
- The hygrothermal response of buildings systems, towards developing guidance on durability of building envelope components.
- The development of new Guidelines including: Wildland Urban Interface Design, Flooding Resilience, Commissioning of Roofing Systems, and Prevention of Overheating During Heat Waves.
- Work with the Canadian Standards Association (CSA) and Underwriters Laboratory of Canada (ULC) on updating standards to increase climate resilience.

Marianne Armstrong is a Research Council Officer with Canada's National Research Council (NRC). Since 2004, as a member of the Building Envelope and Materials Group, she has been involved in projects addressing climate resilience including: wall-window interface design for wind-driven rain, the assessment of cladding technologies, and drainage and drying of wall assemblies. For over a decade, Ms. Armstrong conducted residential energy efficiency research at the Canadian Centre for Housing Technology, where she helped to assess the performance of over 60 different housing technologies. She is currently managing a 5-year initiative on Climate Resilient Buildings & Core Public Infrastructure, to integrate climate resiliency into Canadian building and infrastructure codes, standards and guidelines. Ms. Armstrong is a member of the Professional Engineers of Ontario, holds a MSc Industrial Design from University of New South Wales, Sydney, and a BSc Mechanical Engineering from Queen's University.



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Seminar fees		
Premium Corporate	Individual and Corporate Members	Non-Members
Free	\$30.97 + \$4.03 (HST) = \$35.00	\$53.10 + \$6.90 (HST) = \$60.00

Visit BECOR@goldenplanners.ca to register on-line for this event

We respectfully request that you register for this seminar no later than
Monday, November 12, 2018 at 2pm.

Please note that no refunds will be provided after this date.

OAA Members

This session qualifies for 1 structured Con-Ed hours.