



Tapping
the Future

2014

CONFERENCE
KITCHENER•ON

CSC Conference 2014 – TAPPING THE FUTURE
Kitchener, Crowne Plaza Kitchener/Waterloo
May 21-25, 2014

Session	4C
Date	May 22, 2014
Time	3:30 – 4:30
Speaker	Duncan Rowe, M.Eng., P.Eng., LEED AP BD+C

Structural and Environmental Impact on Roofing Systems

Roofing systems are a unique building enclosure element due to their extreme environmental exposures and impact on whole building energy consumption. Buildings are directly and indirectly responsible for considerable impact to the biosphere and this impact is typically quantified and tracked using one or multiple of ten (10) life-cycle indicators representing: total primary energy, fossil fuel consumption, global warming, acidification, respiratory effects, eutrophication, ozone depletion, smog, solid waste and water use. This research has created an extensive database of ten life-cycle environmental indicators within six (6) major Canadian cities, on six (6) building archetypes, with six (6) typical roofing systems and two (2) potential insulation levels resulting in 432 potential permutations. The breadth of the database is the largest known database of its kind in Canada comparing the life-cycle environmental effects of roofing decisions.

Speaker bio

Duncan graduated from the University of Toronto's Applied Science program in 2004 with a Bachelor's in Applied Science and a Certificate in Preventative Engineering. Duncan earned his Master's degree in Building Science from the University of Toronto in 2010. He joined Read Jones Christoffersen in 2007. Practicing for almost 10 years, Duncan has provided our clients with assessment and rehabilitation plans that meet their unique needs based on his in depth technical understanding of various types of building envelope construction. Duncan is an advisory member to both the University of Toronto and Seneca College for Building Science Education.

Speaker contact information

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