



On-line Technical Webinar – Wednesday, November 25th, 2020

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12:00 (noon) to 1:00 pm

Edmonton Convention Centre: From Face Seal to Solar Power

The Edmonton Convention Centre sits at the heart of Edmonton, cascading from the table land most of the city is built up into the North Saskatchewan River valley. It was designed by architect B. James Wensley beginning in 1974, construction began in 1980 and the formal opening was June 22, 1983. The dramatic entrance pavilion is a glazed five-sided space frame structure enclosed by an integrated sloped glazing and vertical glazing system by Lord & Burnham. As people pass descend into the river valley by stair, elevator or escalator, they pass through waterfalls and gardens. It was quite the achievement for a cold climate location.

Time has not been kind to the ECC. The original baked acrylic finish on exterior components has eroded, revealing the underlying aluminum. The faced-sealed glazing system was designed to collect and drain condensation, but it could not cope with water leakage from the exterior, resulting in Leakage onto walking surfaces below, creating safety hazards. More recently, insulating glass units began to fog and many individual replacements were undertaken, but eventually all of the remaining IGU would fog and need replacement. The writing was on the wall, it was time for a major retrofit.

This presentation will describe the original design, investigation of failures, options for repair, upgrading and replacement, and the final design solution including structural upgrades to the supporting space frame, replacement of the sloped glazing with a 'catalogue' system, laboratory testing, and integration of photovoltaic IGU with the added complications of dealing with an off-shore supplier.

SPEAKER: George Torok, C.E.T., BSS, is a Façade Specialist in the Façade Engineering team of Morrison Hershfield. He provides specialist consulting services to clients across Canada and the USA. He has over 30 years of experience in new building envelope design and construction and existing building performance failure investigation, rehabilitation and renewal. His specialty is fenestration systems including windows,



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doors, skylights, curtain wall, window wall and sloped glazing. George led the preparation of the new edition of CSA-A440.4 Window, Door and Skylight Installation standard (CSA-A440.4-18) and is currently leading the preparation of a user's guide to the standard. He is a member of the Program Advisory Committee for the Bachelor of Building Science program and Algonquin College, Past President of the Ontario Building Envelope Council (OBEC), and Past President of the Building Envelope Council Ottawa Region (BECOR).

Seminar fees	Premium Corporate	Individual and Corporate Members	Non-Members
Please Register By 12 Noon on Tuesday, November 24, 2020.	Free	\$20.00 (includes HST)	\$40.00 (includes HST)

Email librado@goldenplanners.ca to register on-line for this event

This seminar is Eligible for 1.0 hours of Core ConEd Credits
for OAA Members

Whether a BECOR member or not, you must register to attend this seminar.

We respectfully request that you register for this seminar no later than

Tuesday, November 24, 2020 at 12 noon.