

**A session title:**

Whether our Commercial Roofs are Ready for Climate Adaptation?

**Session synopsis:**

Roofs, when subjected to weather elements, is a major contributor for insurance claims. In collaboration with the North American roofing community, NRC supported the development of a new standard, "***CSA A123.26 – Performance Requirements for Climate Resilience of Low Slope Membrane Roofing Systems***". First of its kind, CSA A123.26 provides holistic solutions to increase roof resiliency. The standard is intended to be used by building designers, building owners, building code officials, product manufacturers, and installers. This presentation will discuss the framework of the CSA 123.26. There are three distinct parts of the framework:

- a) determination of climate zone severity classes,
- b) selection of a roof resilience index, and
- c) adaptation measures commensurate with the chosen climate zone severity, resiliency index and performance levels with the help of a user interactive tool.

Ready to implement design solutions will be presented along with practical case studies.

**Speaker name(s), job title(s) and organization name(s):**

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Dr. Baskaran is researching the wind effects on building envelopes through experiments and computer modeling at NRC. As adjunct professor at the University of Ottawa, he supervises graduate students. As a professional engineer, he is a member of Roofing Committee on Weather Issues (RICOWI), IIBEC, ASCE, SPRI, ICBEST, and CIB technical committees. He is a Research advisor to various Task Groups of the National Building Code of Canada and member of the wind load committee of American Society of Civil Engineers. He has authored and /or co-authored over 300 research articles and received over 30 awards, including Frank Lander award from Canadian Roofing Contractors Association, Carl Cash Award from ASTM and recently elevated as Fellow of IIBEC. Dr. Baskaran was recognized by Her Majesty Queen Elizabeth II with Diamond Jubilee medal for his contribution to the fellow Canadians.