BECOR
Building Envelope Council Ottawa Region

Half-Day Technical Seminar Series

Wednesday, November 20th 2024
Noon to 4:30 PM

Sala San Marco, 215 Preston Street

Innovative Green Roof Systems

Welcome to our half-day technical session on green roofs, where we'll explore the multifaceted benefits and innovations surrounding this sustainable practice. As urban areas continue to expand, green roofs have emerged as a vital solution to combat issues such as urban heat islands, stormwater management, and biodiversity loss. This session aims to provide an in-depth understanding of the various types of green roofs, their design principles, and the latest advancements in technology and materials.

Throughout the afternoon, we will feature expert speakers who will share their insights on successful case studies, the environmental impacts of green roofs, and practical implementation strategies. Attendees will have the opportunity to engage in discussions, ask questions, and network with fellow professionals passionate about sustainability in urban design. Join us as we delve into the future of green infrastructure and discover how green roofs can transform our cities into more livable and resilient spaces.

SUMMARY OF PRESENTATIONS

BECOR's guests will deliver four 45-minute presentations, as follows:

Dr. Jennifer Drake, Ph.D., P.Eng - Carleton University – Associate Professor Dept. Civil and Environmental Engineering

Green roofs provide many ecosystem services by converting underutilized roof spaces into vibrant living environments. One of their most important benefits is the regulating services to retain and detain stormwater runoff. Engineers and designers are often unsure of how to account for these regulating services in building stormwater management plans. In this presentation, data and results from over ten years of research by Dr. Drake's group will be shared to examine the capacity of vegetated roof systems to regulate stormwater by controlling peak flows and reducing runoff volumes.

Dr. Jennifer Drake is an Associate Professor in the Department of Civil and Environmental Engineering at Carleton University and is Canada Research Chair in Stormwater and Low Impact Development (Tier II). She is formerly a researcher with the UofT Green Roof Innovation Testing Laboratory (GritLab) and an expert on stormwater management, low impact development (LID), and green infrastructure.