FACILITY TOUR !

NRCan's CanmetENERGY Bells Corners Research Complex

Friday, November 17, 2023 – 1:30 to 3:30

1 Haanel Drive (off Robertson Road, between Bells Corners & Kanata)

Exclusive to BECOR Members - but Limited Space (see below)

Courtesy of National Resources Canada & Carleton University

Join BECOR's site tour of NRCan's CanmetENERGY Bells Corners Research Complex.

NRCan:

Come and peek into pilot-scale facilities such as the Alternative Energy Lab (and related research projects) that are priming the Canadian market for a green future based on clean fossil fuels and renewables. Did you attend one of BECOR's two sessions discussing the Net-Zero Prefabricated Exterior Energy Retrofit (PEER) pilot project? Well, come see the test facility!

CABER:

While visiting the Complex, you will also tour Carleton University's new Centre for Advanced Building Envelope Research (CABER); which is another local hot topic for which BECOR has hosted presentations. So, come see it for yourself! CABER represents a $5.2M investment by the federal and provincial governments to improve the efficiency of residential homes and retrofits, to help reduce buildings' contribution to climate change. In collaboration with CanmetENERGY, CABER researchers are working with industry, government, and academia, to investigate innovative materials and design strategies for completing retrofits and building new homes in ways that prioritize energy conservation and affordability.

Hosts:

Cynthia Cruickshank, Carleton University Centre for Advanced Building Envelope Research Dr. Cynthia Cruickshank, P. Eng is a Professor in the Mechanical and Aerospace Engineering at Carleton University. She received her Ph.D. (2009) and B.A.Sc. (2003) degrees at Queen's University. She is the Principal Investigator and Director of the $5.2M Carleton University Centre for Advanced Building Envelope Research (CABER). CABER is a new research facility and program focused on the advancement of residential and commercial building envelope materials and designs. Her research focuses on the optimization of advanced building energy systems for high-performance buildings, including energy-efficient insulation materials, solar-assisted heat pumps, and thermal storage. With many collaborations with industry and government, since 2010, she has been a member of the Canadian Home Builders Association Technical Research Committee.

Brock Conley, CanmetENERGY Brock is a research engineer with CanmetENERGY-Ottawa. He joined after he graduated with his Ph.D. in Mechanical Engineering from Carleton University and the Centre for Advanced Building Envelope Research (CU-CABER). He is actively researching how to reduce the environmental impact of residential construction through Prefabricated Exterior Energy Retrofits (PEER) program. Research interests include hygrothermal and practical challenges of prefabricated retrofits, introducing low-carbon, BIPV and low U-value triple pane windows to residential enclosures. Brock is also a professor in the Building Science program at Algonquin College and an assistant coach for the Carleton Ravens Lacrosse team.