

Tuesday, February 21, 2023

Complete seven hours of CEU requirements per day. **You must attend the 7:00 a.m. session to receive all seven credits.** Check the *Credits & Designations* webpage for up-to-date information about credits.

	Track 1	Track 2	Track 3
7:00-8:15 am	Understanding Thermally Modified Wood Jon Heyesen, Arbor Wood Co.; Matt Aro, UMD Natural Resources Research Institute	What Your Business Needs to Know About the Inflation Reduction Act Peter Lindstrom, Clean Energy Resource Teams	Lead-Safe Methods for Remodeling, Repair and Painting Activities Bob Rogalla, Lake States Environmental, Ltd.
----- 7:30-8:30 am • Registration Check-In -----			EEBA Intro to Building Science
8:30-10:00 am	On the Road to Net Zero Energy Homes Patrick Huelman, University of Minnesota	Heat Pumps 101: Cold Climate Air Source Heat Pumps: A Primer and Launch Pad Dan Wildenhaus and Rabi Vandergon, Center for Energy and Environment	Fundamentals of Building Science for High Performance Homes Andrew Oding, Building Knowledge Canada
----- 10:00-10:30 am • Break -----			
10:30 am-12:00 pm	How I Built a Net-Zero House Amber Westerman, Amber Westerman Building Design	What Matters Most in Determining Heat Pump Application Types Dan Wildenhaus and Rabi Vandergon, Center for Energy and Environment	Application of Building Science to the Building Enclosure from the Ground Up Andrew Oding, Building Knowledge Canada
----- 12:00-1:00 pm • Lunch -----			
1:00-2:30 pm	When the Order Matters: A Roadmap for Retrofit Patrick Huelman, University of Minnesota	Increasing Performance of Forced Air Heating Systems Bruce Stahlberg, Affordable Energy Solutions, Inc.	Application of Building Science to Windows and Heating and Cooling Systems Andrew Oding, Building Knowledge Canada
----- 2:30-3:00 pm • Break -----			
3:00-4:30 pm	Introduction to Solar Technologies Paul Helstrom, Minnesota Power	Strategies for Heat Pump Adoption at the Time of Air Conditioning Replacement Samantha Hill and Dan Wildenhaus, Center for Energy and Environment	Mechanical Systems for Hot Water, Indoor Air Quality and Validating Application of Building Science Principles Andrew Oding, Building Knowledge Canada
----- 4:30-7:00 pm • Reception/Social -----			

Wednesday, February 22, 2023

Complete seven hours of CEU requirements per day. **You must attend the 7:00 a.m. session to receive all seven credits.** Check the *Credits & Designations* webpage for up-to-date information about credits.

	Track 1	Track 2	Track 3
7:00-8:15 am	High Performance Window Installation Eric Klein and Erick Filby, Marvin Windows and Doors	Decarbonizing Through Thermal Energy Districts Mindy Granley, City of Duluth; Justin Reid, Duluth Energy Systems	Asbestos--Yes, it's Still Around Bob Rogalla, Lake States Environmental, Ltd.
----- 7:30-8:30 am • Registration Check-In -----			EEBA Accounting for Carbon for Builders
8:30-10:00 am	Systems Thinking and Integrated Design Rachel Wagner, Green New Deal Homes SBC	The Joy of Decarbonizing in Homes Dan Wildenhaus, Center for Energy and Environment	Introduction to Carbon Emission Reduction Challenges Andrew Oding, Building Knowledge Canada
----- 10:00-10:30 am • Break -----			
10:30 am-12:00 pm	Extending the Life of a Roofing Assembly Scott Wood, VaproShield LLC	Feeling Hot, Hot, Hot...Water! Dan Wildenhaus, Center for Energy and Environment; Francois Lebrasseur, A. O. Smith; Gregg Holladay, Bradford White Water Heaters; Tim Gaughan, Rheem Manufacturing Company	Studying the Impact of Operational Carbon Reductions Andrew Oding, Building Knowledge Canada
----- 12:00-1:00 pm • Lunch -----			
1:00-2:30 pm	Highly Permeable Membranes Allow Vapor Diffusive Drying and Stop Heat Loss Scott Wood, VaproShield LLC	Having Success With Cold Weather Heat Pumps Bill Graber and Jake McAlpine, The Energy Conservatory	Embodied Carbon Andrew Oding, Building Knowledge Canada
----- 2:30-3:00 pm • Break -----			
3:00-4:30 pm	A Field Perspective on Balanced Ventilation HRV and ERV Mike Wilson, Dakota Supply Group	Location, Location, Location for EV Charging Jukka Kukkonen, Shift2Electric	Cost Effective Decisions to Reduce Carbon Emissions in the Construction Industry Andrew Oding, Building Knowledge Canada