Tuesday, February 26

Please see the following pages for detailed course descriptions.

	Harborside 204	Harborside 302	French River	Harborside 304		Wednesday, Fe	bruary 27			
	Remodeling	Solar	High Performance	Ηνας		Harborside 204	Harborside 302	French River		Harborside 304
	Keniodeting	6:30–7:00 am • Early S	Session Registration			Houses That Work	Potluck	Advanced		Code
_	Asbestos—Yes, It's Still Around.	Introduction to Solar Energy					6:30–7:00 am • Early Session Registration	1		
7–8:15 an	Bob Rogalla and Nate Cox, Lake States Environmental, Ltd.	Paul Helstrom, Minnesota Power			–8:15 am	Practical Methods of Conducting Lead-Safe Remodeling, Repair and Painting Activities Bob Rogalla, and		Recommended Window Installation in High Performance Walls <i>Erick Filby and Eric Klein,</i>		State of MN—Energy Code HVAC Review: Findings from the Field Mike Wilson, Dakota Supply
		7:30–8:30 am • Registration	on • Exhibit Hall Opens			Nate Cox, Lake States Environmental, Ltd.		Marvin Windows and Doors		<i>Grou</i> p
Ē	Houses That Work for Existing Homes: Remodeling for Energy	Advancements in Solar Electric Design and Equipment	What is Green Building? (And Why Should I Care?)	Ventilation: Best Practices for Tight Houses in Cold Climates		7:30-8:30 am • Registration • Exhibit Hall Opens				
8:30–10 a	Efficiency–Part 1: The Basics	Christopher LaForge, Great Northern Solar	Rachel Wagner, through design	Patrick Huelman, University of Minnesota)–10 am	Advanced Houses That Work–Part 1: Advanced Building Science	Foundation Failures and Successes Bill McAnally, McAnally	6 Layers: A Framework for More Sustainable Building Rachel Wagner, through design		Residential Energy Code Mechanical Provisions Donald Sivigny, State of
		10:00-10:30 am •	Break • Exhibits	8:30		Gord Cooke, EEBA	Consulting			MN Department of Labor & Industry
10:30 am–12 pm	Houses That Work for Existing Homes: Remodeling for Energy Efficiency–Part 2: Common Remodel Projects & Opportunities for Energy Efficiency Upgrades <i>Gord Cooke, EEBA</i>	Renewable Energy (RE) Systems and the National Electrical Code (NEC) – Critical Changes in 2019 Christopher LaForge, Great Northerm Solar; David Shaffer, MnSEIA; Laura Hannah, Fresh Energy	Afton Passive House, An ICF Super Efficient Home: A Case Study Barb and Michael Morehead, PHIUS homeowners; Jay Roettger, Bluff City Builders Inc.; Samuel Bontrager, Building Foundry	Whole House, Balanced Ventilation: Providing Healthy, Comfortable and Energy Efficient Solutions John Rockwell, Zehnder America	am–12 pm	Advanced Houses That Work–Part 2: Foundations and Windows	10:00–10:30 am • Break • Exhibits Achieving Superior Energy Efficiency in Commercial and Multi-Family Buildings through Passive House	Zeroing In: The Path to Net Zero Energy May Not Be What You Think!		
		12:00–1:00 pm • Lunch • Exhibits			10:30		Partnership, LLC Elizabeth Turner, Precipitate	Minnesota		
E	Houses That Work for Existing Homes: Remodeling for Energy	The Many Scales of Solar Electricity and Energy	Zero Energy Ready Home: Are You On Board? Why or Why	Designing with Heat Pumps in Cold Climates			12:00–1:00 pm • Lunch • Exhibits			
1–2:30 p	Efficiency–Part 3: Common Remodel Projects Continued & Avoiding Pitfalls & Unintended Consequences <i>Gord Cooke, EEBA</i>	Storage – 301 Christopher LaForge, Great Northern Solar	Not? Brian Wimmer, Rochester Area Habitat for Humanity	Bruce Harley, Bruce Harley Energy Consulting	–2:30 pm	Advanced Houses That Work–Part 3: Walls and Roofs <i>Gord Cooke, EEBA</i>	Performance Glazing and Building Envelope Optimization <i>Ken Modeen, Marvin Windows</i>	The Passive House Building Energy Standard in a Very Cold Climate <i>Tim Eian, TE Studio, Ltd</i> .		Energy Code Compliance and Update <i>Ben Rabe, Fresh Energy</i>
		2:30–3:00 pm • Break • Exhibits					and Doors			
3–4:30 pm	Houses That Work for Existing Homes: Remodeling for Energy	Electric Cars are Coming! What Should Real Estate	Resilient Adaptation of Sustainable Buildings				2:30–3:00 pm • Break • Exhibits			
	Efficiency–Part 4: Evaluating Energy Efficiency Opportunities & the Economics of Energy Efficiency Upgrades Gord Cooke, EEBA	Owners and Building Industry Professionals Know About Charging? Jukka Kukkonen, PlugInConnect	Richard Graves and Liz Kutschke, University of Minnesota, Center For Sustainable Building Research		-4:30 pm	Advanced Houses That Work–Part 4: Mechanical Systems <i>Gord Cooke, EEBA</i>	Healthy Housing: Building and Remodeling for Wellness and Efficiency Jodi Slick, Ecolibrium3	Moisture and Water Control – 3 Methods to Evaluate the Risk of Your Wall Assemblies Rolf Jacobson, Center for		Q&A with the Experts Tim Eian, TE Studio, Ltd. Bill McAnally, McAnally Consulting
	4:30–6:30 pm • Reception • Door Prizes • Refreshments • Exhibits			́́́́́́́́́́				Sustainable Building Research, University of Minnesota		Doug Manthey, Energy Plus Conservation Technologies

CREDITS

credit CEU requirements per day. You must

Complete seven hours of your MN Builder

attend the 7:00 a.m. session to receive all

seven credits.

Not all sessions qualify for credits; please see the Continuing Education Credit Guide provided in your registration packet to be sure you attend classes approved for continuing education by your educational authority.