



Race to Zero

DOE Challenge Home Student Design Competition Awards:

April 26 – 28, 2014

National Renewable Energy Laboratory - Research Support Facility
Golden, Colorado

WEBINAR INFORMATION

UPDATED: April 18, 2014

Twenty-eight teams from U.S. and Canadian universities are competing to develop cost-effective zero energy ready homes for mainstream builders. Over the next three days, these teams will present their designs, thought leaders will discuss the future of housing, competition awards will be announced, and the latest innovations that will transform housing will be presented.

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April 26th						
Name	Location	Time	Speaker/Team	Conference #	Dial In #	Passcode
Welcome		12:15-1:00	Thomas Kenny , Home Innovations Research Laboratory Chuck Kutscher , National Renewable Energy Laboratory	PW4964131	800-857-5015	3188484
Team Competition	San Juan A	1:20-2:00	<i>Team Blue - Pennsylvania College of Technology</i>	PW4964132	800-369-3383	7999389
		2:10-2:50	<i>Any Orientation House - University of Colorado Denver</i>			
		3:00 - 3:40	<i>University of Wyoming Architectural Engineering - University of Wyoming</i>			
		3:50-4:30	<i>Rutgers - Rutgers University</i>			
	San Juan B	1:20-2:00	<i>MIDC Orange - Auburn University College of Architecture Design and Construction</i>	PW4964135	800-779-7680	7579407
		2:10-2:50	<i>Bulldog Builders - California State University, Fresno</i>			
		3:00 - 3:40	<i>Utah Lab House – University of Utah, School of Architecture</i>			
		3:50-4:30	<i>Nittany Lions E-den - Pennsylvania State University</i>			
	San Juan C	1:20-2:00	<i>ThresholdHouse - Ryerson University</i>	PW2087248	888-566-7710	1855012
		2:10-2:50	<i>University of Toronto - University of Toronto</i>			
		3:00 - 3:40	<i>Team Gray - Pennsylvania College of Technology</i>			
		3:50-4:30	<i>The IIT Crowd Team - Illinois Institute of Technology</i>			
	Beaver Creek C	1:20-2:00	<i>LSC- Architectural Technology - Lake Superior College</i>	PW2087284	888-996-4917	3809975
		2:10-2:50	<i>Lawrence Point Rowhouse – University of Colorado Denver</i>			
		3:00 - 3:40	<i>Cal Poly SLO 1 – California Polytechnic State University</i>			
		3:50-4:30	<i>Illinois State University - Illinois State University</i>			

April 27th						
Name	Location	Time	Speaker/Team	Conference #	Dial In #	Passcode
Welcome		8:15-8:45	Sam Rashkin, US Department of Energy	PW2087357	800-988-9466	2066335
Team Competition	San Juan A	9:20-10:00	<i>Clemson DOE Challenge Homes Competition - Clemson University</i>	PW2087387	800-857-4945	1593528
		10:10-10:50	<i>Opti-MN - University of Minnesota</i>			
		11:00-11:40	<i>gt.5 - Georgia Institute of Technology</i>			
Team Competition	San Juan B	9:20-10:00	<i>Panther Innovations - University of Pittsburgh</i>	PW2087416	800-369-1771	8064653
		10:10-10:50	<i>KU0609 - Kansas University</i>			
		11:00-11:40	<i>Project Zero - Roger Williams University</i>			
	San Juan C	9:20-10:00	<i>Team UIUC - University of Illinois at Urbana-Champaign</i>	PW2087441	888-324-8191	2313178
		10:10-10:50	<i>Urban Harvest - Ryerson University</i>			
		11:00-11:40	<i>UMass Lowell Design - University of Massachusetts Lowell</i>			
	Beaver Creek C	9:20-10:00	<i>Team Mojave - University of Nevada Las Vegas</i>	PW2087473	800-779-6172	3607075
		10:10-10:50	<i>Montage Builders Northern Forest - SUNY ESF, Syracuse University, Onondaga Community College</i>			
		11:00-11:40	<i>MIDC Blue - Auburn University College of Architecture Design and Construction</i>			
Special Presentations	Combined San Juan A,B,C	1:00-1:40	The Perfect Enclosure - Joe Lstiburek, Building Science Corporation	PW2087387	800-857-4945	1593528
		1:40-2:20	The Journey to Green - Ron Jones, Green Builder Media			
		2:30-3:10	The Future Today: Constructing Production Zero Energy Home Gene Meyers, New Town Homes			
		3:10-3:50	Integrating Great Design and Development with Zero Energy Ready John McLinden, StreetScape Development, LLC			
		3:50-4:30	12 Trends that Define the Visible Future for Housing Sam Rashkin, U.S. Department of Energy			
Awards Dinner		6:30-8:00	Master of Ceremonies	PW2087483	800-369-1178	6810624

April 28th						
Name	Location	Time	Speaker	Conference #	Dial In #	Passcode
Building America Overview		8:30-8:50	Eric Werling, U.S. Department of Energy	PW2179903	888-989-9861	4885646
High-R Roofs/ Foundations	Beaver Creek A	9:00-9:10	<i>Unvented Roof Assemblies Without Spray Foam</i> Building Science Corporation	PW2087496	800-779-3179	7484268
		9:10-9:20	<i>Electronic Foundation Design Handbook</i> Oak Ridge National Lab			
		9:20-9:30	<i>Excavationless Exterior Foundation Field Study</i> University of Minnesota			
High-R Walls		9:45-9:55	<i>Cladding Attachment Over Continuous Exterior Insulation</i> Building Science Corporation			
		9:55-10:05	<i>Continuous Wall Insulation for Existing Homes</i> Housing Innovation Research Lab			
		10:05-10:15	<i>Spray foam Exterior Insulation with Stand-Off Furring</i> IBACOS			
Zero Energy Ready Homes		10:30-10:40	<i>Zero Energy Ready Single Family Homes</i> Steven Winters Associates			
		10:40-10:50	<i>Production Builder Passive House Occupied Test Home</i> IBACOS			
		10:50-11:00	<i>High-Performance Manufactured Home Prototype</i> Building America Partnership for Improved Residential Construction			
Affordable Housing		11:15-11:25	<i>Cost-Optimized Roof Solution for Factory-Built Homes</i> Levy Associates			
		11:25-11:35	<i>Retrofit Best Practices for Hot-Humid Affordable Housing</i> Building America Partnership for Improved Residential Construction			
		11:35-11:45	<i>St. Bernard Project Perf. Eval. and Opportunity Assessment</i> IBACOS			
HVAC Part I	Beaver Creek B	9:00-9:10	<i>HVAC Design Guides</i> IBACOS	PW2087508	888-426-8928	9966262
		9:10-9:20	<i>Flex Duct Junction Box Best Practices</i> IBACOS			
		9:20-9:30	<i>Variable Capacity HVAC Systems Interactions</i> Building America Partnership for Improved Residential Construction			
HVAC Part II		9:45-9:55	<i>Energy Use Consequences of High-MERV Filters</i> Davis Energy Group			
		9:55-10:05	<i>Raised Ceiling Interior Duct System Implementation</i> Building America Partnership for Improved Residential Construction			
		10:05-10:15	<i>Residential Pre-Cooling</i> Davis Energy Group			
Advanced Water Heating		10:30-10:40	<i>Proper Water Heater Selection</i> Davis Energy Group			
		10:40-10:50	<i>Heat Pump Water Heaters for Central Multi-Family Housing</i> Davis Energy Group			
		10:50-11:00	<i>Heat Pump Water Heaters in New and Existing Homes</i> Steven Winters Associates			
Diagnostics/ Simulations		11:15-11:25	<i>BEopt Automated Residential Simulation Test Suite</i> National Renewable Energy Lab			
		11:25-11:35	<i>Delta-Q Duct Leakage Test</i> Lawrence Berkeley National Lab			
		11:35-11:45	<i>Resolving Codes and Standards Barriers to Innovations</i> Pacific Northwest Energy Lab			

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Name	Location	Time	Speaker	Conference #	Dial In #	Passcode
Deep Energy Retrofits	Beaver Creek C	9:00-9:10	Phased Deep Energy Retrofit Demonstration Building America Partnership for Improved Residential Construction	PW2087511	888-810-6759	9079161
		9:10-9:20	Single Family Home Deep Energy Retrofits Davis Energy Group			
		9:20-9:30	Mineral Fiber High Performance Enclosure Retrofit Building Science Corporation			
Multi-Family Housing		9:45-9:55	Model Specifications for Low-Income Multi-Family Projects IBACOS			
		9:55-10:05	Retrofitting Multifamily Buildings Partnership for Advanced Residential Retrofit			
		10:05-10:15	Hydronic Heating Retrofits for Low-Rise Multi-Family Housing Levy Associates			
Whole-House Ventilation		10:30-10:40	ASHRAE Standard 62.2 Lawrence Berkeley National Lab			
		10:40-10:50	Selecting Ventilation Systems for Existing Homes Steven Winters Associates			
		10:50-11:00	Smart Ventilation Controls Lawrence Berkeley National Lab			
Guidance		11:15-11:25	High-Performance Residential Lighting Strategy Guideline IBACOS			
	11:25-11:35	Solution Center Mobile Applications Pacific Northwest National Lab				
	11:35-11:45	Efficiency in Appraisal Processes Building America Research Alliance				
Wrap –Up/Close of Race to Zero Event		12:00-12:30	Sam Rashkin, Chief Architect Building Technologies Office	PW2179903	888-989-9861	4885646