

PANEL 1 SESSION SCHEDULE
(FINAL)

PANEL 1 - Residential Buildings: Technologies, Design, Operations, and Building Industry Trends

		LEAD AUTHOR/ORGANIZATION	TITLE
Mon 8/13	Session 1 8:30 am - 10:00 am In Hot Water	Sarah Widder, Cadeo Group	<i>The HPWH Handbook: Optimum Installation Practices and Answers to Lingering Research Questions</i>
		Owen Howlett, Sacramento Municipal Utility District	<i>Thermal storage heat pump water heaters—the benevolent grandparent of Distributed Energy Resources</i>
		Danny Parker, Florida Solar Energy Center	<i>Potential of a Very High Efficiency Solar-Assisted Heat Pump Water Heater</i>
	Session 2 10:30 am - 12:00 pm An (Un)comfortable Situation	Charles Withers, Florida Solar Energy Center	<i>Optimizing Energy Efficiency and Improved Dehumidification Performance of Variable Capacity Air Conditioning Systems</i>
		James Haile, Frontier Energy, Inc.	<i>Sol et Aquilo: Improving Sensible Comfort and Energy Efficiency with Hydronic Radiant Cooling Panels</i>
		Athanasios Aris Panagopoulos, UC Berkeley	<i>Dealing with Expected Thermal Discomfort</i>
Tues 8/14	Session 1 8:30 am - 10:00 am Fun with Models and Data	Scott Horowitz, National Renewable Energy Laboratory	<i>On the Need for a Unified and Collaboratively Developed Residential Building Simulation Platform</i>
		Greg Lawson, U.S. Energy Information Administration	<i>From Cooling to Coffee Makers: An Engineering Approach to National Household Energy End-Use Estimation</i>
		Ian Blanding, Midwest Energy Efficiency Alliance	<i>What Makes a HERS Home So Special, Anyway?: A Comparison of Field Tested Homes</i>
	Session 2 10:30 am - 12:00 pm What's Trending in HVAC	Sara Beaini, Electric Power Research Institute	<i>Evaluation of the Next-Generation Residential Space Conditioner for California</i>
		Lisa Gartland, Proctor Engineering Group	<i>The Secret Life of Blower Motors</i>
		Rebecca Olson, Center for Energy and Environment	<i>Condensing Boilers--Are They Cost Effective?</i>

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Wed 8/15	Session 1 8:30 am - 10:00 am Heat Pumps in the Real World	Ben Schoenbauer, Center for Energy and Environment	<i>Field Assessment of Ducted and Ductless Cold Climate Air Source Heat Pumps</i>
		Karen Fenaughty, Florida Solar Energy Center	<i>Evaluation of Air Conditioning Performance Degradation: Opportunities from Diagnostic Methods</i>
		Pierre Delforge, Natural Resources Defense Council	<i>Can Heat Pump Water Heaters Teach the California Duck to Fly?</i>
	Session 2 10:30 am - 12:00 pm Building Better Windows and Attics	Stephen Selkowitz, Lawrence Berkeley National Laboratory	<i>Breaking the 20 Year Logjam to Better Insulating Windows</i>
		Erika Burns, D+R International	<i>New Rating Opening Windows to a World of Comfort, Opportunity, and Cost-Effective Savings</i>
		Brennan Less, Lawrence Berkeley National Laboratory	<i>Measured Thermal and Moisture Performance of an Air Sealed and Insulated Attic with Porous Insulation</i>
Thurs 8/16	Session 1 8:30 am - 10:00 am It's All Connected	Joseph Iaccarino, The Cadmus Group, Inc.	<i>Only as Smart as Its Owner: A Connected Device Study</i>
		Daniel Gerber and Alan Meier, Lawrence Berkeley National Laboratory	<i>Emerging Solutions to the Standby Power Problem</i>
		Michael Fournier, Hydro-Quebec Research Institute	<i>Making the connection: Testing Line-voltage Communicating Thermostats for Baseboard Heaters in DR and EE Experiments</i>
	Session 2 10:30 am - 12:00 pm Valuing Connected Thermostats	Elyse Henderson, RDH Building Science	<i>Programmable Communicating Thermostats and Load Controllers as a Heating Season Demand-Response Strategy for Electricity Load Shifting in Residential Buildings</i>
		Sho Hirayama, Jyukankyo Research Institute	<i>Do Smart Thermostats + Nudges Yield Greater Energy Savings?</i>
		Michael Blasnik, Nest Labs, Inc.	<i>Extending the Impact of Smart Thermostats: Measured Impacts from Automated Set Point Schedule Tune-ups</i>

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Fri 8/17	Session 1 8:30 am - 10:00 am Hot Air, Cold Beer, and Ghosts	Caton Mande, Western Cooling Efficiency Center	<i>Development and Testing of an Automatic Termination Controller for Residential Clothes Dryers</i>
		Steve Leybourn, ICF	<i>Emerging Technologies in Residential Refrigeration</i>
		Leo Rainer, Lawrence Berkeley National Laboratory	<i>Builder Installed Electric Loads: The Energy Mortgage on a New House</i>
	Session 2 10:30 am - 12:00 pm What's Next?	Lena Burkett, U.S. Department of Energy	<i>How Building America Research is Removing Major Roadblocks to High Performance Homes</i>
		Dave Bohac, Center for Energy and Environment	<i>Auto-sealing New Home Leaks with Aerosols</i>
		Andrew Rietz, The Cadmus Group, Inc.	<i>A Christmas Carol: How Visions Past and Present Help Plan for the Future</i>

		Posters with published papers in Panel 1	
See Panel 14 for schedule	POSTERS	Colin Taylor, CLASP <i>[not presenting, paper will be published]</i>	<i>Next Generation Air Conditioners: Technologies, Barriers to Market, and Policy Options</i>
		Jonathan Koler, Illume Advising	<i>Teaching a New Thermostat New Tricks: Results from Four Runtime Optimization Pilots</i>
		Amy Buege, Itron, Inc.	<i>Tier 2 Advanced Power Strips – Advancing the Tool, Advancing the Customer</i>
		Madeline Salzman, U.S. Department of Energy	<i>Updating Home Energy Score Quality Assurance Procedures to Reduce Cost, Improve Quality, and Increase Program Scalability</i>
		Christopher Dymond, Northwest Energy Efficiency Alliance	<i>Air Source Heat Pump's Transformative Potential</i>
		Chrissi Antonopoulos, Pacific Northwest National Laboratory	<i>A Toolbox Necessity: Finding Best Practices in High-Performance Homes with the Building America Solution Center</i>