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<tr>
<td>Panel Leaders: Ryan Kerr &amp; Vladimir Kochkin</td>
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### TUESDAY, AUGUST 23
#### SESSION 1 (8:30 am - 10:00 am)
**Demand Response: How Emerging Technologies Can Lead The Way**

- **Variable Speed Heat Pumps can Provide Effective Demand Response with a Soft Touch**
  - Andrea Mammoli, Electric Power Research Institute
- **Detailed Laboratory Evaluation of Electric Demand Load Shifting Potential of Heat Pump Water Heaters**
  - Karen Fenaughty, FSEC Energy Research Center

#### SESSION 2 (10:30 am - 12:00 pm)
**Envelope Solutions: Windows and Phase Change Materials**

- **Methods to Analyze the Energy Performance of Window Attachments**
  - Rowan McCarthy, D+R International
- **Results from Laboratory and Field Studies of Thin Triple-Pane Windows**
  - Patti Gunderson, Pacific Northwest National Laboratory
- **Energy Savings and Durability of Phase Change Materials in Residential Attics**
  - Robert Hendron, Frontier Energy

### MONDAY, AUGUST 22
#### SESSION 1 (8:30 am - 10:00 am)
**Cold Climate Decarbonization: Strategies, Costs, and Performance**

- **Winter is Coming: is the Northeast Ready for Residential Electrification?**
  - Christie Amero, Cadmus
- **The Economics of Cold Climate Electrification**
  - Scott Robinson, Guidehouse

#### SESSION 2 (10:30 am - 12:00 pm)
**Envelope Solutions: Windows and Phase Change Materials**

- **Methods to Analyze the Energy Performance of Window Attachments**
  - Rowan McCarthy, D+R International
- **Results from Laboratory and Field Studies of Thin Triple-Pane Windows**
  - Patti Gunderson, Pacific Northwest National Laboratory
- **Energy Savings and Durability of Phase Change Materials in Residential Attics**
  - Robert Hendron, Frontier Energy

### WEDNESDAY, AUGUST 24
#### SESSION 1 (8:30 am - 10:00 am)
**Using Big Data to Understand and Influence Energy Usage Behaviors**

- **The Elusive Missing Link: Correlating Billing Analysis and Thermostat Data in the Northwest**
  - Jon Koliner, Apex Analytics
- **Predicting Impact of Temperature Setpoint Adjustment Under Time-based Electricity Rate Plans**
  - Mahesh Naidu, Lawrence Berkeley National Laboratory
- **End-Use Level Impacts of the COVID-19 Pandemic on Residential Energy Usage**
  - Hans Lehndorff, Evergreen Economics

#### SESSION 2 (10:30 am - 12:00 pm)
**Decarbonization Takes a Village: Dual Fuel Solutions**

- **Electric and Gas Decarbonization Options for Homes: The Best Option Could Vary by Home and Region**
  - Steve Nadel, ACEEE
- **Why We Should Never Install Another Air Conditioner!**
  - Ben Schoenbauer, Center for Energy and Environment

### THURSDAY, AUGUST 25
#### SESSION 1 (8:30 am - 10:00 am)
**Electrification: Strategies and Tools for Scaling Up**

- **The Unintended Consequences of Electrification and What to do About It**
  - Rachel Murray, DNV

#### SESSION 2 (10:30 am - 12:00 pm)
**Innovative Technologies and Approaches: What’s Next?**

- **Radiant Ceilings As A Residential Retrofit: Examining the Myths and Realities**
  - James Haile, Frontier Energy
- **Experimental Evaluation of a Multi-function Compact Heat Pump for All-electric Residential Buildings**
  - Subhrajit Chakraborty, Western Cooling Efficiency Center

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4/26/2022  DRAFT (Subject to Change)
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<tr>
<th>SESSION 1 (8:30 am - 10:00 am)</th>
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<tr>
<td>Energy Retrofits for Decarbonization: ccASHPs, Air Sealing and Insulation</td>
<td>Aerosol Sealing of Existing Homes</td>
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<td>The Climate Impact of Retrofits: Embodied and Operational Emissions in Weatherization</td>
<td>Curtis Harrington, UC Davis Western Cooling Efficiency Center</td>
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<td>Megan Nedzinski, Vermont Integrated Architecture</td>
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<td>Field Test Results from Cold Climate Air Source Heat Pump Installations in New York State: Performance, Savings and More</td>
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<td>Gabrielle Stebbins, Energy Futures Group</td>
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<th>SESSION 2 (10:30 am - 12:00 pm)</th>
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<tr>
<td>Home Energy System Controls: More Important than Ever</td>
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<tr>
<td>Timing is Everything: Optimizing Heat Pump Load Flexibility for Cost, Comfort, and Carbon Emissions</td>
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<td>Caton Mande, UC Davis Western Cooling Efficiency Center</td>
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<td>Help! I Can’t Figure out How to Set the Clock on my Microwave Oven and Now I Need to Program the Controls for my Heat Pumps, Batteries, Solar Panels, and Electric Vehicle Charging?</td>
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<td>Dave Intner, Southern California Edison</td>
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<tr>
<td>Validation of HVAC Hardware-In-the-Loop Simulation for Advanced Control Strategies in Smart Homes</td>
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<td>Sugirdhalakshmi Ramaraj, National Renewable Energy Laboratory</td>
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