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<td><strong>Panel Leaders:</strong> Alexi Miller &amp; Shanti Pless</td>
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### SESSION 1 (8:30 am - 10:00 am)

#### The Healthy Buildings and Energy Nexus
- **How Does Lighting for Wellness Affect Energy Use? Results from Simulation and Laboratory Studies, and a Look Ahead.**
  - Jordan Shackelford, Lawrence Berkeley National Laboratory
- **Energy Implications of Using Germicidal Ultraviolet Radiation to Combat SARS-CoV-2**
  - Gabe Arnold, Pacific Northwest National Laboratory
- **Energy Efficiency Measures to Improve Indoor Air Quality and Reduce the Spread of the SARS-CoV-2 Virus**
  - Robert Mowris, Verified Inc.

#### High Performance HVAC Opportunities
- **Heat Pump Controls: Decarbonizing Buildings While Avoiding Electric Resistance Heating and Higher Net Peak Demand**
  - Jonathan McHugh, McHugh Energy Consultants
- **Including Economizer Efficiency in the Unitary Next Generation Test Procedure Standards**
  - Robert Mowris, Verified
- **DO AS We Say (and As We Do): Maximizing HVAC Efficiency, Flexibility and Resiliency with High Efficiency Dedicated Outdoor Air Systems**
  - Jordan Pratt, Energy 350

#### What’s after Zero: Net Zero Energy Buildings and Beyond
- **Challenges and Lessons Learned from an Analysis of Three Zero Energy Buildings**
  - Kate Hickox, Pacific Northwest National Laboratory
- **Competition Between Ventilation and Cooling in Commercial Buildings and Implications for Energy Flexibility**
  - Caitlin McMahon, Stanford University
- **Cutting Carbon with Codes: Reducing the Worst Climate Impacts of Construction**
  - Webly Bowles, New Buildings Institute

### SESSION 2 (10:30 am - 12:00 pm)

- **What’s in Stock: Integrated Modeling of Building Electrification, Energy Efficiency, and Stock Turnover for New York City**
  - William Prindle, ICF
- **Cold Climate Packaged Heat Pumps – Finding Sasquatch**
  - Evan Hallas, Taitem Engineering

#### Can We Control It?
- **Towards a Digital and Performance-Based Control Delivery Process**
  - Amir Roth, US Department of Energy
- **Hot Mess or Cool Tech? Secrets to Success for Advanced Building Controls Integration**
  - Nathan Hinkle, Cadmus
- **A Demonstration and Evaluation of Commercial Building Occupancy Sensing Using Wi-Fi Location-Based Services (LBS)**
  - Lester Shen, Center for Energy and Environment.
### SESSION 1 (8:30 am - 10:00 am)
#### Modeling EE, DR, and DERs in Commercial Buildings

- **Probabilistic Modeling of Commercial Building Occupancy and Electric Vehicle Charging Behavior Using Location-Based Map Data**
  - Rawad El Kontar, National Renewable Energy Laboratory
- **Incorporating the Impacts of Climate Change in a Typical Weather Year**
  - Anna Kelly, Power TakeOff
- **Calibration of Building Energy Model to Determine Load Flexibility Potential**
  - Tanushree Charan, National Renewable Energy Laboratory

### SESSION 2 (10:30 am - 12:00 pm)
#### Energy Design in Commercial Buildings

- **Measuring and Benchmarking Demand Flexibility in Commercial Buildings and Flattening the Duck – Addressing Baseline and Commissioning Challenges**
  - Jingjing Liu, Lawrence Berkeley National Laboratory
- **Integrating Embodied Carbon Knowledge for Design Decisions**
  - Heather Goetsch, National Renewable Energy Laboratory
- **What We Learned From Analyzing 15 Millions Rows of Commercial Buildings’ HVAC Fault Data**
  - Eliot Crowe, Lawrence Berkeley National Laboratory