

## Panel 13b: Innovations to Scale Retrofits and New Construction (1/2 Panel)

Panel Leaders: Chioke Harris, National Laboratory of the Rockies and Brett Webster, Rocky Mountain Institute

| DATE             | SESSION  | TITLE   | LEAD AUTHOR, ORGANIZATION                              |
|------------------|--|---|--|
| <b>Mon 8/3</b>   | <b>Session 1</b><br>8:30 am - 10:00 am                                       | <i>All Systems Go: Regional Collaborations for Scaling AEC Innovation</i>   | Shanti Pless,<br>National Laboratory of the Rockies    |
|                  | All Aboard the Train<br>to Scale Town  | <i>Please pick one: A) Develop affordable housing; B) Achieve local climate goals; C) All of the above</i>  | Dan Streit,<br>Slipstream                              |
|                  |  | <i>Scaling Small Residential Decarbonization: A Data-Driven Analysis of Three Massachusetts Pilots</i>  | Kristen Simmons,<br>City of Boston                     |
| <b>Tues 8/4</b>  | <b>Session 2</b><br>10:30 am - 12:00 pm                                      | <i>Electrifying Experiments to Streamline Multifamily Retrofits: Five Years of Misadventures, Breakthroughs, and Lessons Learned with Low-GWP Mechanical Pods</i> | Meghan Duff,<br>AEA Clean Energy                       |
|                  | Ducts in a Row:<br>Making Heat Pumps<br>Work in Affordable<br>Housing        | <i>Bringing 120V heat pump water heaters into space-constrained housing: Addressing up-sizing concerns using phase change material heat exchangers</i>            | Erin Blackley,<br>Mines                                |
|                  |  | <i>Bridging Home Repair and Decarbonization: Integrating Energy, Health, and Equity Data for Scalable Electrification in Detroit</i>                              | Cavan Merski,<br>Pecan Street Inc.                     |
| <b>Wed 8/5</b>   | <b>Session 1</b><br>8:30 am - 10:00 am                                       | <i>Scalable Retrofit Program for Net-Zero Energy Ready Housing</i>  | Christopher Kelly,<br>NRCAN                            |
|                  | Pushing the<br>Envelope:<br>Innovation to Scale<br>High Performance<br>Homes | <i>Machine Learning Workflows Enable Energy Affordability in Panelized Construction</i>   | Zoe Kaufman,<br>National Laboratory of the Rockies     |
|                  |  | <i>Modular Home Construction in the US: Destined to Scale or Remain Extraordinarily Niche?</i>  | Joan Glickman  |
|                  |  | <i>3-D Printed Buildings &amp; Energy Efficiency</i>  | Michelle Thorsell,<br>MEEA                             |
| <b>Thurs 8/6</b> | <b>Session 2</b><br>10:30 am - 12:00 pm                                      | <i>Data-Driven Decision Support for Building Retrofit Planning</i>  | Supriya Goel,<br>Pacific Northwest National Laboratory |
|                  | From Clipboard to<br>Cloud: Digital Tools<br>to Enable Scaling               | <i>Scan-to-BIM to Enable Deep Exterior Wall Insulation Retrofits: Promise and Pitfalls</i>  | Kurt Roth,<br>Fraunhofer Institute                     |
|                  |  | <i>Data-Informed Retrofit Pathways for Low-Rise Residential: Balancing Cost, Comfort, and Energy Efficiency in Affordable Housing</i>                             | Christopher Meek,<br>University of Washington          |
| <b>Fri 8/7</b>   | <b>Session 1</b><br>8:30 am - 10:00 am                                       | <i>Zero Over Time in Affordable Multifamily Housing: Applicable Scenarios and Scalable Strategies for Phased Decarbonization</i>                                  | John Beaumont,<br>New Ecology                          |
|                  | Make it Make<br>Cents: Business<br>Models that Work                          | <i>Data-Driven Electrification and Retrofit Strategies for Vulnerable Manufactured Housing</i>  | Haleh Moghaddasi,<br>EXP                               |
|                  |  | <i>From Cost Hurdle to Market Asset: How Program Administrators Can Use Certified Attributes to Help Fund and Measure Equitable Building Decarbonization</i>      | Mark Milby,<br>Elevate                                 |