

**An ACEEE 30th Anniversary Symposium:
Laying the Foundation for 2040:
Inventing the Future for a Low-Energy Building Stock
PROGRAM**

7:30 am - 8:30 am

Breakfast

8:30 am – 9:00 am

Welcome & Introduction

Welcome: **Jennifer Amann**, *American Council for an Energy-Efficient Economy (ACEEE)*

Setting the Stage:

What are the key characteristics of the buildings stock today? What are the boundary conditions for 2040: energy, climate/atmosphere, water, labor, infrastructure competition for capital? What are our best guesses regarding population, demographics, and the building stock?

Speaker: **Marilyn Brown**, *Georgia Institute of Technology*

9:00 am – 10:30 am

Visions of 2040: Part 1

Technology: Real Visions of a Low-Energy Building Stock

A panel of experts will present on the technology developments required for achieving deep reductions in buildings energy use by 2040. What are the most promising technology pathways for construction and retrofit on the massive scale required (construction/manufacturing practices; building shell, systems and services; and appliances, lighting, electronics)? How will the revolution in information and communications technologies in recent years facilitate and accelerate the shift to low-energy buildings?

Panelists: **Clay Nesler**, *Johnson Controls*
Linda Wigington, *Affordable Comfort, Inc. (ACI)*
Tom Durkin, *Durkin & Villalta Partners Engineering*
Diana Lin, *Commercial Buildings Consortium*

10:30 am – 10:45 am

Break

10:45 am – 12:15 pm

Visions of 2040: Part 2

The Human Elements

Building Occupants as Drivers of Building Energy Use: How will people's decisions about where they live, work and play, how they conduct business, the ways they interact with the built environment, and the services they expect from buildings and equipment shape the ultimate form of our future building stock?

Speaker: **John "Skip" Laitner**, *American Council for an Energy-Efficient Economy (ACEEE)*

Efficient Buildings in Sustainable Communities: Buildings carry great historical, cultural, and emotional significance for individuals and communities. What can we do to restructure our built environment without undue disruption of these important human needs? How can the need to rebuild our civil infrastructure (water, wastewater, transportation, energy, and information) offer new opportunities for synergy?

Speaker: **David Goldstein**, *Natural Resources Defense Council*

12:15 pm – 12:45 pm

Lunch

12:45 pm – 1:45 pm

A Conceptual Roadmap

Each "Conceptual Roadmap" session will begin with a brief presentation to help frame open discussion and brainstorming on each topic.

Research: Filling in the Gaps

What don't we know about buildings energy use? Where is energy actually dissipated, and what goes to reducible waste, irreducible waste, and beneficial energy services? What are the key gaps in understanding building energy performance?

Speaker: **Drury Crawley**, *Bentley Systems*



30 Years of Energizing Efficiency

1:45 pm – 2:45 pm

A Conceptual Roadmap (Continued)

Policy

How can we best structure policy to achieve a low-energy building stock that meets human needs for vibrant, thriving communities? What policies can most effectively align incentives for the whole value chain? Near-term and longer-term objectives?

Speaker: **Steven Nadel**, *American Council for an Energy-Efficient Economy (ACEEE)*

2:45 pm – 3:00 pm

Break

3:00 pm – 4:00 pm

A Conceptual Roadmap Continued

Programs

What is the role for public and private initiatives? Who should we engage in the near-term, what types of initiatives are most promising for achieving our vision? Who should we begin to build relationships with for longer-term action?

Speaker: **Jeff Harris**, *Alliance to Save Energy*

4:00 pm – 5:00 pm

Brainstorming and Closing Remarks

Facilitator: **R. Neal Elliott**, *American Council for an Energy-Efficient Economy (ACEEE)*

5:00 pm

End of Symposium