# 2018 Conference on Health, Environment, and Energy

New Orleans, Louisiana • Hyatt Centric French Quarter • December 3–5, 2018

## Program

### Monday, December 3

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<tr>
<td>5:30–7:30 pm</td>
<td>WELCOME RECEPTION</td>
<td>Garden Terrace</td>
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### Tuesday, December 4

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<td>7:00 am–5:00 pm</td>
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<td>7:30–8:30 am</td>
<td>CONTINENTAL BREAKFAST</td>
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<td>WELCOME AND PLENARY PANEL</td>
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**Introductions:**  
Clay Nesler, Johnson Controls and American Council for an Energy-Efficient Economy  
Board of Directors

**Welcome:**  
Sara Hayes, American Council for an Energy-Efficient Economy

**Assessing the Landscape: Emerging Trends and Opportunities at the Nexus of Health and Energy**

This opening plenary will set the stage for the conference by providing a variety of expert perspectives on the landscape of emerging trends and opportunities at the nexus of health and energy.

*Available credits – AIA/APHA/BPI*

**Moderator:** Sara Hayes, American Council for an Energy-Efficient Economy

**Panelists:**  
Hugh C. McDiarmid, The Kresge Foundation  
Felicia Rabito, School of Public Health and Tropical Medicine, Tulane University  
Z Smith, Eskew+Dumez+Ripple Architecture Firm  
Eric Werling, US Department of Energy

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<td>NETWORKING BREAK</td>
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10:30 am–12:00 pm  BREAKOUT SESSIONS

Track A: Supporting Communities  
Lafitte Room A

1A. Affordable Housing, Underserved Communities, and Health
This panel will explore programs designed to provide healthy, affordable housing as well as techniques for measuring outcomes and maximizing impacts through targeted interventions.

Available credits – AIA/APHA/BPI

Moderator: Berneta L. Haynes, Georgia Watch

Health at Home: Bringing Comprehensive Health and Wellness Practices to Affordable Housing
Presenter: Michael Freedberg, US Department of Housing and Urban Development

Quantifying the Health and Non-Energy Impacts of Limited Income Energy Efficiency: A Case Study from the Knoxville Extreme Energy Makeover Initiative
Presenters: Bruce Tonn, Three3, Inc.
Elizabeth Parsons, Tennessee Valley Authority

Metrics and Methods to Address Non-Energy Benefits for Low-Income Communities in Urban Environments
Presenter: Pam Mendelson, US Department of Energy

Utilizing Energy Studies for Strategic Interventions
Presenter: Jon-Paul d’Aversa, Mid-Ohio Regional Planning Commission

Track B: Health in Buildings: Programs, Systems, and Technologies that Affect Health  
Lafitte Room B

1B. The Science of How Buildings Affect Health
This panel will provide an overview of building science and how building systems can affect health.

Available credits – AIA/APHA/BPI

Moderator: Jonathan Cohen, US Department of Energy

Healthy Efficient Homes Research Findings
Presenter: Brett Singer, Lawrence Berkeley National Laboratory

Our Homes Suck! And That Is Why Our Kids Have Sinus Problems
Presenter: Larry Zarker, Building Performance Institute

Our Buildings...Our Health
Presenter: Karla Butterfield, Steven Winter Associates

Track C: Crossing the Divide: Bringing Health and Energy Efficiency Together for a Better World  
Orleans Room A

1C. A Doctor and an Engineer Walk into a Room
The Seidman sisters—one a pediatric anesthesiologist, the other an engineer who works on environmental and energy policy—will discuss how their two fields intersect and how they can help each other do their jobs more effectively.

Available credits – AIA/APHA/BPI

Presenters: Nancy Seidman, Regulatory Assistance Project
Peggy Seidman, Rainbow Babies and Children’s University Hospitals (RBC) and Case Western Reserve University School of Medicine
LUNCH AND HEALTH AND ENERGY LINKED PROGRAMS AWARDS CEREMONY  

ACEEE’s first Health and Energy Linked Programs (HELP) Awards will recognize programs from around the country. Each winner will give a short overview of their program and share lessons learned.

Award Recipients:  
**Ruth Ann Norton**, Green & Healthy Homes Initiative  
**Ellen Tohn**, Vermont OneTouch  
**Maria Mauceri***, SystemVision™  
**Steve Luxton**, EnergyFIT Philly  
**Laura Capps**, Zero Energy Modular (ZEM) Program  
**Sandra Lobo***, Bronx Healthy Homes Program

*Will not be present for award presentation*

BREAKOUT SESSIONS

**Track A: Supporting Communities**  
**Lafitte Room A**

**2A. Health and Energy in Multifamily Buildings**  
Panelists will discuss emerging practices and programs aimed at enhancing health in multifamily housing through weatherization, improved ventilation, and other “green” approaches.  
*Available credits – AIA/APHA/BPI*

Moderator:  
**Ariel Drehobl**, American Council for an Energy-Efficient Economy

Undertaking Energy, Comfort, and Health Transformations in Multi-Residential Buildings  
Presenter:  
**Bryan Purcell**, The Atmospheric Fund

Health Impacts of Weatherizing Multifamily Buildings  
Presenter:  
**Bruce Tonn**, Three^3, Inc.

Massachusetts Low-Income Multifamily Weatherization: Health and Safety Impacts  
Presenter:  
**Nicole Rosenberg**, NMR Group, Inc.

Emerging Trends in Multifamily Ventilation, and Indoor Air Quality (IAQ)  
Presenter:  
**Marian Goebes**, TRC

From Pilot to Process: Using Green Building Approaches to Integrate Health in Multifamily Housing  
Presenter:  
**Rebecca Schaal**, Stewards of Affordable Housing for the Future

**Track B: Health in Buildings: Programs, Systems and Technologies that Affect Health**  
**Lafitte Room B**

**2B. Good News Stories: Programs and Case Studies**  
Panelists will share successes and stories from programs that are improving health and reducing energy costs across the country. *(Available Credits – APHA/BPI)*

Moderator:  
**Fred Gordon**, Energy Trust of Oregon

Harnessing the Energy-Efficiency Infrastructure to Advance Health and Safety: Potential for Innovation in Connecticut  
Presenter:  
**Catherine Klinger**, Green & Healthy Homes Initiative

How a Foreclosure Prevention Program Became an Energy Efficiency and Health Program  
Presenter:  
**Emily Robinson**, Elevate Energy
Improving Population Health Outcomes through Weatherization plus Health: Lessons Learned to Date from Innovative Pilots  
Presenter: Laura Capps, Efficiency Vermont

Weatherization plus Health—Making Salad Dressing from Oil and Vinegar  
Presenter: Vince Schueler, Washington State University Energy Program

Track C: Crossing the Divide: Bringing Health and Energy Efficiency Together for a Better World  
Orleans Room A

2C. Air Regulations, Health, and Energy Efficiency  
Panelists will provide an overview of energy-related air regulations in the United States and identify opportunities where changes in energy use could reduce pollution. Available credits – AIA/APHA/BPI

Moderator: Cassandra Kubes, American Council for an Energy-Efficient Economy

Making Sense of Air Quality Alphabet Soup: How Regulation Improves Public Health  
Presenter: Nancy Seidman, Regulatory Assistance Project

Quantifying the Potential Benefits of Energy Efficiency on US Electric Power-Sector Emissions, Air Quality and Public Health  
Presenter: David Abel, University of Wisconsin - Madison

Regional Air Quality Impacts from Light-Duty Vehicle Electrification  
Presenter: Eric Junga, American Council for an Energy-Efficient Economy

Triple Threat: How Law, Policy, and Epidemiology Can Improve Indoor Air Environments and Energy Efficiency  
Presenter: Petra Vallila-Buchman, Ross Strategic

Energy Efficiency’s Role in Voluntary Air Quality Plans  
Presenter: Angie Shatas, US Environmental Protection Agency

3:00–3:30 pm  
NETWORKING BREAK  Pre-function Area

3:30–5:00 pm  
BREAKOUT SESSIONS  Lafitte Room A

Track A: Supporting Communities

3A. Energy, Health, and Social Equity  
Panelists will provide examples of efforts to achieve more equitable and healthful outcomes through energy-saving programs and policies. Available credits – AIA/APHA/BPI

Moderator: Diana Hernandez, Mailman School of Public Health, Columbia University

Achieving Health and Social Equity: Understanding Non-Energy Benefits in the United States  
Presenters: Brendan Brown, Green & Healthy Homes Initiative  
Ruth Ann Norton, Green & Healthy Homes Initiative

Energy Justice  
Presenters: Lori Byron, St. Vincent’s Hospital  
Robert Byron, Big Horn Valley Health Center

Telling the Story of Equity, Health, and Energy in Chicago  
Presenter: Anna C. McCreery, Elevate Energy
3B. Demonstrating the Health Outcomes of Energy Efficiency Programs and Policies

This session will discuss methods for measuring and quantifying health benefits from energy efficiency programs and policies. (Available credits – APHA/BPI)

Moderator: Kapil Upadhyaya, Kirksey Architecture

Embedding Health Benefits into Evaluation of Energy Projects (Hospitals)
Presenter: Ed Rubinstein, University Health Network

How Do You Measure Up? New Ways to Evaluate Project Success (K-12 Schools)
Presenter: Katie Herber, Perkins Eastman Architects

The Stars Are Aligned: Quantifying Non-Energy Impacts in ComEd’s Income Eligible Programs (Residential)
Presenter: Patricia Plympton, Navigant

Uncovering the Multi-Benefits of Home Upgrades Using Real-Time Continuous Evaluation (Residential & Neighborhoods)
Presenter: Athena Bertolino, Ross Strategic

3C. Technical Tools for Energy and Health Professionals

This session will provide an overview of technical tools that can be used to maximize health and environmental benefits from energy policies and programs. Tools discussed can help users design healthier communities, quantify avoided pollution and the associated health impacts and more. (Available credits – APHA/BPI)

Moderator: Cassandra Kubes, American Council for an Energy-Efficient Economy

The Net Emissions Analysis Tool: A Holistic Residential Energy and Emission Model for the Development of Regulations and the Allocation of Incentive Funds in the South Coast Air Basin
Presenter: Marc Carreras Sospedra, South Coast Air Quality Management District

Tools to Design Healthier Communities
Presenter: Karla Butterfield, Steven Winter Associates

EPA Tools and Resources for Quantifying the Emissions and Health Benefits of Energy Efficiency
Presenter: Denise Mulholland, US Environmental Protection Agency
6:00–8:00 pm  NETWORKING RECEPTION AT THE PYTHIAN

The Pythian is a 10 minute walk (0.4 miles) from the Hyatt Centric French Quarter. The Pythian is rich in history beginning in 1908 when Smith Wendell (S.W.) Green, then the most prominent African-American businessman in New Orleans, commissioned the construction of the Pythian Temple. The building played an integral part in the early civil rights movement in New Orleans and was the center of the African American community, hosting businesses and local organizations, a theater, and a rooftop garden that featured live jazz and is where it is said a young Louis Armstrong first played. The Pythian is now owned by Green Coast Enterprises (GCE), co-developed this historic building with ERG Enterprises and the Crescent City Community Land Trust (CCCLT). The 20,000 square feet of open, sub-dividable event space is all LEED-certified. The façade of the building has been restored to match its original 1908 appearance. In addition to the open space on the first three floors, the building houses a mix of apartments, offices and a marketplace. It continues to serve as a place where people come together to celebrate community, the thriving local culture, special occasions, and enjoy the arts.

Light refreshments will be served.

Starting at 5:45 pm, shuttle service will be available for those who do not wish to walk. Walking maps are available at the ACEEE registration desk. Address: 234 Loyola Avenue, New Orleans, LA

Wednesday, December 5

7:00 am–4:00 pm  REGISTRATION  Pre-function Area

7:00–8:00 am  CONTINENTAL BREAKFAST  D.H. Holmes Room

8:00–9:00 am  PLENARY PANEL ON HEALTH AND CLIMATE CHANGE  D.H. Holmes Room

Climate change is a major threat to public health globally. Experts will present some of the latest research exploring this relationship. Panel will begin at 8:00 am. Please arrive early!

(Available credits – APHA/BPI)

Welcome: Steven Nadel, American Council for an Energy-Efficient Economy
Moderator: Mona Sarfaty, Medical Society Consortium on Climate and Health

Hot and Old at Home: Implications of Our Current Housing Stock for Health Impacts on Seniors in an Age of Climate Change
Presenter: Sherry Ahrentzen, University of Florida, College of Design Construction and Planning

Can Women Survive Climate Change?
Presenter: Nathaniel DeNicola, George Washington University School of Medicine and Health Sciences

Climate and Health Call to Action: An Evaluation of a Program to Engage Health Professionals
Presenter: Whitney Fung, University of South Florida College of Public Health
9:15–10:45 am  BREAKOUT SESSIONS

Track A: Supporting Communities  

**4A. The Big Easy: Policy and Planning to Maximize Health Gains in New Orleans**

This session will outline policy and planning priorities and successes at the intersections of health, transportation, and energy in New Orleans. Perspectives will include local government, public/private partnerships, social advocacy, and public health. Participants will learn about innovative initiatives that aim to enhance the health and wellness of all New Orleanians. *(Available Credits – APHA)*

**Moderator:** Sarah Gillen, Louisiana Public Health Institute

**Presenters:**
- Laura Bryan, Mayor’s Office of Transportation
- Dan Favre, Bike Easy
- Candice Marti, Transdev
- Camille Pollan, Office of Resilience and Sustainability, City of New Orleans

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Track B: Health in Buildings: Program, Systems and Technologies that Affect Health

**4B. Insulation and Air Sealing**

*Description:* This panel will address the chemical exposures that can affect health in buildings as well as building materials and practices related to the building envelope that can be used to maintain a healthy indoor environment. *(Available credits – AIA/APHA/BPI)*

**Moderator:** Ellen Tohn, Tohn Environmental Strategies/Brown School of Public Health

**Presenters:**
- Joe Medosch, Hayward Score
- Angus Crane, North American Insulation Manufacturers Association
- William Weber, Healthy Building Network

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Track C: Crossing the Divide: Bringing Health and Energy Efficiency Together for a Better World

**4C. In Me, On Me, Around Me: Messages that Motivate Efficient Energy Choices**

Americans prioritize the urgency of greener purchases based on what they ingest, what comes into contact with their skin and then, ultimately, what’s around them. Presenters will share research, insights, and recommendations about how to connect the dots from health to greener energy choices and how to use an understanding of consumer types to deliver the most effective health and energy message.

*(Available credits – AIA/APHA/BPI)*

**Presenters:**
- Patrick Hunt, Lirio
- Suzanne Shelton, Shelton Group, Inc.
9:15–10:45 am  Energy Efficiency Emissions and Health Benefits Quantification Training – Part I

**Hands-On Training with the EPA’s Avoided Emissions and generation Tool (AVERT)**

Bring your laptop and learn how to use the EPA’s AVERT — a free tool that helps energy and public health professionals understand the air pollution impacts of energy efficiency and renewable energy. **Available credits – AIA/APHA/BPI**

Workshop Presenters:  Robyn DeYoung, US Environmental Protection Agency
Emma Zinsmeister, US Environmental Protection Agency
Patrick Knight, Synapse Energy Economics

10:45–11:00 am  NETWORKING BREAK

11:00 am–12:30 pm  BREAKOUT SESSIONS

**Track A: Supporting Communities Track**  Lafitte Room A

5A. Increasing Funding for Programs

This panel will provide an overview of some of the financial resources available for increasing funding for programs that save energy and protect health. Panelists will also discuss methods for successfully acquiring additional funding. **(Available credits – APHA/BPI)**

Moderator:  Sara Hayes, American Council for an Energy-Efficient Economy

Measuring and Documenting the Multiple Benefits of Energy Efficiency: The Latest Estimates, Gaps, and Applications
Presenter:  Lisa Skumatz, Skumatz Economic Research Associates

Are there Healthcare Dollars for In-Home Interventions?
Presenter:  Mark Kravatz, Optimal Energy

How to Quantify the Health and Environmental Benefits of Energy Saving Programs
Presenters:  Emma Zinsmeister, US Environmental Protection Agency
JR Denson, American Council for an Energy-Efficient Economy

**Track 5B: Health in Buildings: Programs, Systems and Technologies that Affect Health**  Orleans Room A

5B. A Fresh Breath: Ventilation and Health in Buildings

Many studies have documented the impacts of ventilation on indoor air quality, human health, and performance. This panel will discuss recent studies and opportunities to improve indoor air quality with ventilation. **Available credits – AIA/APHA/BPI**

Moderator:  Lauren Westmoreland, Southeast Energy Efficiency Alliance

Challenges to Providing Adequate Ventilation in Buildings —Lessons from Two Ongoing Research Studies in California Homes and Classrooms
Presenter:  Wanyu Chan, Lawrence Berkeley National Laboratory

Compliant and Unhealthy: When an Older Code Meets Contemporary Construction Methods
Presenters:  Chris Burgess, Midwest Energy Efficiency Alliance
Nicole Westfall, Midwest Energy Efficiency Alliance

2018 Conference on Health, the Environment and Energy  @aceeedc  #CHEE18
Reducing Household Particles with Filtration: Measured Results, Opportunities and Challenges
Presenter: Linda Wigington, Reducing Outdoor Contaminants in Indoor Spaces, ROCIS

Balancing Energy, Ventilation, and Indoor Air Quality (IAQ): The Case Study of a LEED Home Rehab
Presenter: Karla Butterfield, Steven Winter Associates, Inc.

Track C: Crossing the Divide: Bringing Health and Energy Efficiency Together for a Better World
Lafitte Room B

5C. Protecting Health in a Changing Climate
This panel will continue the discussion initiated in the morning plenary by digging into the methods and strategies for protecting health in the face of climate change. Panelists will provide an overview of the health threats caused by climate change and discuss how that harm might be minimized through energy policies.

Available credits – AIA/APHA/BPI

Moderator: Berneta L. Haynes, Georgia Watch

Health Impacts of Climate Change
Presenter: Rebecca Rehr, ecoAmerica

Assessing the Role of Heat-Driven Electricity Demand in Buildings on Power Plant Emissions, Air Quality, and Health in a Warming Climate
Presenter: Doug Ahl, Seventhwave

A Carbon-Free Energy Future: The Health Safety and Environmental Benefits of Electrification
Presenter: Nic Dunfee, TRC Energy Services

Adjusting for New Normals: Adapting Buildings to Extreme Heat and Power Outages
Presenters: Tom Phillips, Healthy Building Research
Emily Higbee, Redwood Energy

11:00 am–12:30 pm Energy Efficiency Emissions and Health Benefits Quantification Training – Part II
Orleans Room B

Hands-On Training with the EPA’s CO-Benefits Risk Assessment (COBRA) Health Impact Screening and Mapping Tool
Bring your laptop and learn how to use the EPA’s COBRA model—a free tool that helps energy and public health professionals understand the air quality impacts and value the public health benefits of energy efficiency and renewable energy. Available credits – AIA/APHA/BPI

Workshop Presenters: Denise Mulholland, US Environmental Protection Agency
David Cooley, Abt Associates

12:30–1:30 pm NETWORKING LUNCH
D.H. Holmes Room

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1:30–3:00 pm  BREAKOUT SESSIONS

**Track A: Supporting Communities**

**Lafitte Room A**

**6A. Playing the Game of L.I.F.E.: Limited-income Framework Establishment**

Though a simulated exercise facilitated by the Tennessee Valley Authority (TVA) and Milepost Consulting, this interactive session will inspire participants to use innovative, outside-the-box thinking to develop sustainable delivery models for energy efficiency, health and wellness programming that serves limited-income households.

*Available credits – AIA/APHA/BPI*

Workshop Facilitator:  **Holly Baird**, Milepost Consulting  
Workshop Presenters:  **Sabrina Cowden**, Milepost Consulting  
**Frank Rapley**, Tennessee Valley Authority  
**Dan Ridings**, CLAResult

**Track B: Health in Buildings: Programs, Systems and Technologies that Affect Health**

**Orleans Room A**

**6B. Holistic Approaches for Optimizing Health and Energy Effectiveness in Buildings**

A roundtable discussion to introduce a holistic framework for optimizing health and energy effectiveness by managing primary and secondary outcomes, environmental exposures and building systems performance. The session will discuss occupant health and wellness, management of environmental exposures and the implications for building design, operations, maintenance and renovation. *(Available credits – AIA/APHA/BPI)*

Presenters:  **James E. Woods**, Indoor Environments Consultant  
**Clay Nesler**, Johnson Controls and ACEEE Board of Directors

**Track C: Crossing the Divide: Bringing Health and Energy Efficiency Together for a Better World**

**Lafitte Room B**

**6C. Hospitals and Healthcare Partnerships**

This panel features cutting-edge programs and approaches that engage health professionals and hospitals to save energy and improve health outcomes. *(Available credits – APHA)*

Moderator:  **Julie Michals**, E4TheFuture  
Saving Energy and Money While Improving Community Health  
Presenter:  **Iqbal Mian**, Practice Green Health and Health Care without Harm  
Demonstrated Approach to Energy Efficiency in Healthcare Facilities  
Presenter:  **Kara Brooks**, American Society for Healthcare Engineering  
Utility-Sponsored Energy Efficiency Program for Hospitals and Health Care Facilities  
Presenter:  **Jennifer McWilliams**, DNV GL  
A Home-Based Approach to Treat Asthma Patients  
Presenter:  **Amanda Gramigna**, Elevate Energy  
Prescribed Home Energy Retrofits for Patients with Biotoxin Sensitivity  
Presenter:  **Brett Bishop**, Build It Green

3:00–4:00 pm  CLOSING PLENARY – WISHING WELL

**D.H. Holmes Room**

The conference will conclude with a facilitated group discussion aimed at identifying the most promising opportunities for health, environment, and energy professionals to work together for the public good. Participants will be asked to dream up solutions that maximize the benefits that are possible at this intersect, no matter how unattainable, extreme, and impractical. Once this ‘wishes’ are identified, the session will hone in on a select few so that the group can consider and discuss with the aim of identifying new but realistic concepts to pursue.
Thank you to our conference sponsors and ACEEE Ally members!