Opening Session
Wednesday March 23, 2022
9:00 am - 10:55 am | Expo Hall A

Introductions
Eric Oliver, PE, CEM, LEED AP
President-Elect
Association of Energy Engineers
9:00 - 9:05 am

Welcome to Cincinnati
Aftab Pureval
Mayor, City of Cincinnati
9:05 - 9:20 am

Welcome from AEE
Bill Kent, CEM
Executive Director
Association of Energy Engineers
9:20 - 9:35 am

Keynote
M. Beth Trombold
Public Utilities Commissioner
Public Utilities Commission of Ohio (PUCO)
9:35 - 10:15 am

P&G Journey Towards Net Zero
Steve Skarda
Senior Director of Greenhouse Gas Technical Innovation, Proctor and Gamble
10:15 - 10:55 am

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Aftab Pureval
Mayor, City of Cincinnati
9:05 - 9:20 am

M. Beth Trombold
Public Utilities Commissioner
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**AT A GLANCE**

**Day 2 | Thursday**

**7:30 - 9 am** Room 230/231
**CWEEL Breakfast and Keynote Presentation**
Free breakfast, presentation and networking event in support of women-owned businesses, and the unique barriers and opportunities these firms encounter in the marketplace.

**9 - 11 am** Jr. Ballrooms
**Technical Sessions**
Four concurrent tracks:
- Track A - State and Federal Energy Policy
- Track B - Energy Auditing
- Track C - Net Zero and Sustainable Construction
- Track D - Industrial Energy Efficiency Solutions

**10 am - 12 pm** Expo Hall A
**Technology Expo**

**12 - 1 pm** Expo Hall A
**Networking Luncheon**

**12 - 1:30 pm** Room 230/231
**AEE Chapter Lunch and Keynote Presentation**
AEE’s chapters invite you to this chapter meeting and keynote presentation.

**1 - 2 pm** Expo Hall A
**Technology Expo**

**2 - 4 pm** Jr. Ballrooms
**Technical Sessions**
Four concurrent tracks:
- Track A - Water
- Track B - The Dynamic Capability of Building: Grid and IAQ
- Track C - EVs and Transportation
- Track D - Decarbonization and the Grid

Yardi® Pulse Suite helps you benchmark and optimize your utility spend as you reduce your environmental impact. Use automated solutions to make utility payments, as well as manage costs, consumption and ESG reporting.

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- Simplify portfolio benchmarking
- Improve sustainability

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EXPO Hall X

Forum Presentations
Wednesday

11:00 am
**ElectroCell**
Paul McLaine, Founder & President
Visit their Booth 407

11:30
**ioAirFlow**
Matt Schaubroeck, CEO
Visit their Booth 509

1:00
**Resolute Building Intelligence**
Chris Hallendy, CEO
Visit their Booth 409

Networking and Coffee
Available at the EXPO Wednesday & Thursday Mornings

Opening Session Location & Conference Attendee Luncheons

Conference Attendee Networking Reception
Wednesday 4 – 6 pm in the Expo Hall - An excellent way for conference attendees, speakers, and exhibitors to connect after the first day of events.

Contact
Diane McCullum
email: diane@aeecenter.org
Tel: 205-222-1634

Exhibit & Sponsor Events for 2022
Visit Booth #621
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<th>SESSION 1A - JR BALLROOM A</th>
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<td><strong>ENERGY BASICS</strong></td>
<td><strong>COMMISSIONING</strong></td>
<td><strong>HEALTHY AND HIGH PERFORMANCE BUILDINGS</strong></td>
<td><strong>RENEWABLES AND ENERGY STORAGE</strong></td>
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<td>CHAIR: Kathleen Stanley, Principal, Energy Advocates LLC</td>
<td>CHAIR: John Avina, PE, CEM, CMVP, CEA, CxA, President, Abraxas Energy Consulting</td>
<td>CHAIR: Kristin Sullivan, Senior Manager Sustainability Solutions, ENGIE Impact</td>
<td>CHAIR: Stephen Roosa, CEM, CMVP, REP, CSDP, CRM, BEP, CBCP, President, RPM Asset Management</td>
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<td>The Role of Data in Achieving ESG Goals John Petze, Co-Founder, SkyFoundry</td>
<td>Existing Building Commissioning: Securing Stakeholder Buy-in is the Key to Success Nathaniel Fanning, CEM Commissioning Group Leader, Fitzemeyer &amp; Tocci Associates, Inc.</td>
<td>The Cheapest Energy Is the Energy You Don’t Use: New Technologies to Reduce Energy Demand in Older Buildings Vytau Virskus, Principal, Millenium Energy Company</td>
<td>Renewable Energy: How 3M plans to meet the 50% RE100 target 4 years early Tanmay Soni, CEM, CMVP, CRE, MMSc, Senior Energy Analyst, 3M</td>
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<td>Energy Leaders: The Powerhouse of Energy Management at 3M Kalie Lazarou, Advanced Energy Engineer, 3M</td>
<td>Implementing a Monitoring-Based Commissioning Program Elizabeth Hitchman, MBA, MSM, PMP, Senior Energy Efficiency Program Manager, Pepco Holdings – An Exelon Company</td>
<td>City of Cincinnati’s Solar Story Michael Forrester, Director, Office of Environment and Sustainability, City of Cincinnati</td>
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### SESSION 2A - JR BALLROOM A
**STATE AND FEDERAL ENERGY POLICY**

**CHAIR:** Fotouh Al-Ragom, PhD, CEM, CSDP, CEA, Energy Efficiency Technologies Program Manager, Kuwait Institute for Scientific Research /EBRC/EET

**9:00 - 9:30 AM**
The Implications of the New Tax Legislation & Reforms for the Energy Industry
Jacob Goldman, Vice President and Chief Engineer, Energy Tax Savers

**9:30 - 10:00 AM**
Refer to the website for the most up to date information

**10:00 - 10:30 AM**
Refer to the website for the most up to date information

**10:30 - 11:00 AM**
Refer to the website for the most up to date information

### SESSION 2B - JR BALLROOM B
**ENERGY AUDITING**

**CHAIR:** Asit Patel, CEM, CEA, EBCP, President, ANP Energy Consulting Services Corp.

**9:00 - 9:30 AM**
Philip Chiarappa, President, Control Concepts of Ohio, LLC

**9:30 - 10:00 AM**
**Energy Auditing Basics**
Fredric Goldner, CEM, CEA, President, Energy Management & Research Associates

**10:00 - 10:30 AM**
**Energy Auditing: ASHRAE 211P-2018 Review with Examples from the Field**
Thomas Sherman, CEM, CEA, CDSM, CCASS, President, Sustainable Energy Services, Inc.

**10:30 - 11:00 AM**
**Holistic Energy Audits for Electrification**
Richard Niese, PE, Mechanical Engineer, World Energy Innovations

### SESSION 2C - JR BALLROOM C
**NET ZERO AND SUSTAINABLE CONSTRUCTION**

**CHAIR:** Michael Berning, PE, CEM, LEED Fellow, Chief Innovation Officer, HEAPY

**9:00 - 9:30 AM**
**CSR... ESG... ETC... The New Sustainability Alphabet Soup**
Michael Berining, PE, CEM, LEED Fellow, Chief Innovation Officer, HEAPY and Dr. Bill Paolillo, Doctorate of Management, Vice President Strategic Alliances & Advanced Technologies, JW Didado, Quanta Services Co.

**9:30 - 10:00 AM**
**Cloud-based Energy Analytics - Benefits and Cost Justification**
Thomas Yeh, CEM, CMVP, CBCP, CDSM, Technical Advisor, NYSERDA and Lauren De La Fuente, Program Coordinator, New York State Energy Research and Development Authority (NYSERDA)

**10:00 - 10:30 AM**
**Reaching Efficiency and Sustainability Goals through Integrated Energy Strategies**
Rajiv Bazaj, Executive Director, Solution Sales, Constellation

**10:30 - 11:00 AM**
**Building Better: Driving the Triple Bottom Line With Design**
Daniel Lessing, LEED AP BD+C, CEM, Client Leaders, BHDP Architecture

### SESSION 2D - JR. BALLROOM D
**INDUSTRIAL ENERGY EFFICIENCY SOLUTIONS**

**CHAIR:** Timothy Janos, BEP, CDSM, CEA, CEM, CRM, CSDP, President, Spectrum Energy Concepts, Inc.

**9:00 - 9:30 AM**
Reducing GHG Impacts by Controlling Fugitive Emissions and Parasitic Frictional Losses
Drew Troyer, Principal, T.A. Cook Consultants, Inc. - Part of Accenture

**9:30 - 10:00 AM**
**Industrial Energy Management: 3M’s Energy Management Toolbox**
Rashmi Brackenbury, Adv Energy Engineer, 3M

**10:00 - 10:30 AM**
**Leveraging Combined Energy Projects to Maximize ROI with Energy Efficiency Programs**
Kenneth C. Flannery, MET, CEM, CMCP, Director of Engineering, Bender Energy Group, LLC

**10:30 - 11:00 AM**
**Estimating the Cost of Compressed Air System Leaks**
Tim Stearns, CEM, CEA, CMVP, Senior Energy Consultant, VEIC

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### SESSION 3A - JR BALLROOM A
**WATER**

**CHAIR:** Richard Costello, PE, CEM, MSEM, BSME  
President, Acela Energy Group, Inc.

2:00 - 2:30 PM  
**A Cheap and Reliable Approach to Recover Phosphorus from Wastewater**  
George William Kajjumba, PhD, Environmental Engineer, Southern Nevada Water Authority

2:30 - 3:00 PM  
**Enhance Performance of Water and Energy Related to Cooling Tower, Chillers Boilers**  
Paul McLaine, President and Founder, ElectroCell Systems Inc.

3:00 - 3:30 PM  
**Innovative Way to Reduce Your Buildings Hot Water Temperature & Energy Consumption**  
Michael Albertson, Senior Vice President, WaterFurnace

3:30 - 4:00 PM  
**Sustainable Energy as a Service: Own the Solution, not the Equipment**  
Richard Costello, PE, CEM, MSEM, BSME, President, Acela Energy Group, Inc.

### SESSION 3B - JR BALLROOM B
**THE DYNAMIC CAPABILITY OF BUILDING: GRID AND IAQ**

**CHAIR:** Timothy Unruh, PhD, CEM, PE, Executive Director, National Association of Energy Service Companies

2:00 - 2:30 PM  
**Rapid Return Efficiency Retrofits**  
Scott Milne, BPI, RESNET, LEED GA, President, Rocky Mountain Efficiency Group

2:30 - 3:00 PM  
**Using IoT to Unify Building Systems for Comprehensive Energy Analytics**  
Deepinder Singh, Founder & CEO, 75F

3:00 - 3:30 PM  
**The Efficient Building --- And the Real Truth about Demand (hint: Demand is King)**  
Michael Catanzaro, President-Founder, The Utilities Group Inc

3:30 - 4:00 PM  
**Sustainable Energy as a Service: Own the Solution, not the Equipment**  
Kip Barrett, Director of Business Development, Metrus Energy

### SESSION 3C - JR BALLROOM C
**EVS AND TRANSPORTATION**

**CHAIR:** Maryanne McGowan, CPA, CEM, Vice President, Strategic Development, The Utilities Group

2:00 - 2:30 PM  
**Microgrids for Fleet Electrification**  
Tim Victor, LEED AP BD+C, EIT, Business Development and EV Infrastructure, Scale Microgrid Solutions

2:30 - 3:00 PM  
**A Step Towards Sustainable Transport**  
Kameel Kishek, EMIT, Graduate Research Assistant/MSc Candidate, University of Texas - Austin

3:00 - 3:30 PM  
**The Quest for Net-Zero**  
Garyne Evans, Senior Director - Development Engineering, Ameresco

### SESSION 3D - JR BALLROOM D
**DECARBONIZATION AND THE GRID**

**CHAIR:** Laurie Wiegand-Jackson, CEP, President, Utility Advantage, LLC

2:00 - 2:30 PM  
**Stability of the Power Grid and the High Costs of Power Disruption**  
Brent Tracy, CEM, Key Segment Manager - Manufacturing, Duke Energy Sustainable Solutions

2:30 - 3:00 PM  
**Decarbonization through electrification of building heating - The Surprises?**  
Scott Greenbaum, PE, CEM, CBCP, CPHC, GBE, Principal, Greene Energy Consultants, LLC.

3:00 - 3:30 PM  
**The Quest for Net-Zero**  
Garyne Evans, Senior Director - Development Engineering, Ameresco

3:30 - 4:00 PM  
**Refer to the website for the most up to date information**

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