

ASHRAE TC 6.9, Thermal Energy Storage

Program Subcommittee Report

Bruce Lindsay, PE, Chair

January 23, 2023

Subcommittee Meeting, Feb 6, 2:00 PM – 4:00 PM

- Omni CNN Center, Grand Ballroom C (M4-North)

Full Committee Meeting, Feb 6, 4:00 PM – 6:00 PM

- Omni CNN Center, Grand Ballroom C (M4-North)

AGENDA

ASHRAE-Atlanta Presentations (7)

- Feb 5, 8:00 AM – 9:00 AM EST
Seminar 3: Cutting-Edge Japanese Technologies on Grid Resilience and Thermal Storage: SHASE Annual Award Winners
Georgia World Congress Center, A402
 - Hirotaka Kubo, Nikken Sekkei LTD
 - Shunichi Nakamoto, Shimizu
 - Jun Yoshida, Takenaka Corporation
- Feb 5, 9:45 AM – 10:45 AM EST
Seminar 11: Optimizing Thermal Energy Storage Integrated with HVAC
Georgia World Congress Center, A408
 - Zhenning Li, ORNL
 - Li Song, PhD, University of Oklahoma
 - Zhiyao Yang, PhD, Texas A&M University
- Feb 5, 11:00 AM – 12:30 PM EST
Seminar 15: The Evolution of Thermal Energy Storage for Cooling Applications: The Past, Current and Future
Georgia World Congress Center, A402
 - Bruce Lindsay, PE, Trane Technologies
 - Paul Catanzaro, McDermott
 - Mark MacCracken, PE, Trane Technologies
- 1:30 PM – 3:00 PM EST
Seminar 21: Optimizing Design and Controls for Thermal Energy Storage at the Building and Community Scale
Georgia World Congress Center, A405

- Karl Heine, Embry Riddle Aeronautical University
 - Nelson Janes, NREL
 - Wale Odukumaiya, NREL
- Feb 6, 8:00 AM – 9:30 AM EST
Seminar 25: Decarbonizing Campuses Utilizing Heat Pumps and Thermal Energy Storage
 Georgia World Congress Center, A404
 - Blake Ellis, PE, Burns & McDonnell
 - Jeff Urlab, PE, Salas O’Brien
- Feb 6, 4:00 PM – 5:00 PM
AHRI Session, Innovation in Thermal Energy Storage and the Inflation Reduction Act of 2022
 AHR Expo
 - Samantha Slater, AHRI
 - Wei-Tai Kwok, Thule Energy Storage
 - Guy Frankenfield, PE, DN Tanks
 - Boaz Ur, Nostromo
 - Mike Filler, PE, Trane Technologies
- Feb 7, 8:00 AM – 9:30 AM EST
Seminar 41: Supporting Grid Resilience with CHP and TES
 Georgia World Congress Center, A402
 - Mike Filler, PE, Trane Technologies
 - Gearoid Foley, Integrated CHP Systems
 - Richard Sweetser, Exergy Partners Corp

ASHRAE-Tampa Presentations, June 24-28, 2023

- Inflation Reduction Act of 2022 and Provisions for Tax Credits Using Thermal Energy Storage
 - Overview of IRA, Mike Filler, Trane Technologies
 - Ice Storage
 - Chilled Water Storage
 - Hot Water Storage
- Retrofit of Existing Air-Cooled Chillers with Ice Storage
 - City of Melbourne Police Headquarters, Bruce Lindsay, Trane Technologies
 - City of Melbourne City Hall, Mason Green, Florida Institute of Technology
 -
- ASHRAE & DOE Partnership for K12—Thermal Storage
 - Overview of the ASHRAE & DOE Partnership for K12, John Constantinide, PE, US Space Force
 - Brevard County Public Schools in Disadvantaged Communities, Energy Audits, and Ice Storage Retrofit, Hamid Najafi, PhD, Florida Institute of Technology
 -

ASHRAE-Chicago Presentations and Tour, January 20-24, 2024

- 30 Years of Thermal Energy Storage and District Cooling in Chicago
 - Update on McCormick Place Tri-Energy Plant, TBD
 - Update on Northwind (Centrio Energy) Plant, Geoff Bares, Centrio
 - Update on the Latest District Cooling Plant Using Thermal Energy Storage, TBD
- Tour of Centrio Energy Plant