

**AGENDA – 2025 Annual Conference**  
**ASHRAE Technical Committee 7.2**  
**HVAC&R Construction & Design Build Technologies**  
**Orlando, FL**

**Hilton, Orlando, Key Largo B (Lower Level) George Pullman (3)**

**Sunday, February 9, 2024**  
**10:30PM to 12:00PM Eastern**

Committee Scope: TC 7.2 is concerned with enhancing the collaboration of Contractors and Design Build Firms with the entire ASHRAE membership to ensure that the relevant research, publications, and educational materials promote the design, construction, and operation of resource efficient buildings.

1. Call to Order/Scope/Introductions
2. ASHRAE Code of Ethics
  - A. *As members ASHRAE or participation in ASHRAE activates, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct. We will avoid conflict of interest and behavior that is discriminatory and/or harassing.”*
3. ASHRAE Commitment to Care
  - A. <https://www.ashrae.org/file%20library/conferences/annual%20conference/commitment-to-care.pdf>
4. ASHRAE’s COVID-19 Acknowledgement of Risk, Waiver and Release of Liability
  - A. [https://www.ashrae.org/file%20library/conferences/annual%20conference/ashrae-covid19-waiver-release\\_final\\_annual.pdf](https://www.ashrae.org/file%20library/conferences/annual%20conference/ashrae-covid19-waiver-release_final_annual.pdf)
5. Voting Member Role Call
6. Review Agenda
7. Society Liaisons and Guest Presentations
  - A. TAC Section Head: Money Khanna
8. Approval of Previous Meeting Minutes – Annual 2024
9. ASHRAE Administrative/Correspondence/Announcements - NA
10. Subcommittees
  - A. Programs – Wes Davis
    - i. Submitted for Orlando
    - ii. Outstanding submissions – See Annual 2024 Minutes
    - iii. Phoenix June 21-25, Sheraton Phoenix Downtown  
(Annual Conference) Program Tracks
      1. **Fundamentals and Applications** are the foundation for understanding applications in

engineering. Key components of ASHRAE fundamentals include thermodynamics, psychometrics, heat transfer, fluid and mass flow. This track provides opportunities for papers and presentations of varying levels across a large topic base. Concepts, design elements and shared experiences for theoretical and applied concepts of HVAC&R design are included. Track Chair: Atilla Biyikoglu, [abiyik@gazi.edu.tr](mailto:abiyik@gazi.edu.tr)

2. **HVAC&R Systems and Equipment** are constantly evolving to address the changing requirements of the built environment. Papers and programs in this track focus on the development of new systems and equipment, novel applications of existing systems and equipment, improvements to existing systems and equipment and the proper application and operation of systems and equipment. Track Chair: Ng Yong Kong, [nyk@nyk.com.my](mailto:nyk@nyk.com.my); Co-Track Chair: Ng Yong Kong, [nyk@nyk.com.my](mailto:nyk@nyk.com.my)
3. **Research Summit** Active research, and the exchange of those research findings, are critical to the development of our HVAC&R industry and built environment. The 2023 Annual Research Summit invites researchers to share those results, including ASHRAE-sponsored research and research of interest to the ASHRAE community. Researchers are invited to present papers, extended abstracts, seminars, forums or participate in panel discussions. The Research Summit includes a partnership with ASHRAE's archival journal, Science and Technology for the Built Environment. Track Chair: Kristin Cetin, [cetinkri@msu.edu](mailto:cetinkri@msu.edu)
4. **Workforce Development** As members of a professional organization, we recognize that the single greatest strength of our organization is its membership. This track is designed to allow those professionals an opportunity to develop in the areas of presentation skills, leadership, team-building, understanding various business operations, interpersonal skills, etc. In short, the Workforce Development Track will cover all aspects of business and career development outside of engineering/technical applications and lends itself to interactive session types such as workshops and forums. Track Chair: Anuj Gupta | [anuj@design2occupancy.com](mailto:anuj@design2occupancy.com)
5. **Industrial Ventilation, Refrigeration, Air Conditioning and Energy Utilization** The industry sector accounts for roughly one third of the energy use in the US. Increasing efficiency demands are creating the impetus for new technology, targeted at industrial facilities. This track will explore these technologies and regulatory pressures facilitating them. This includes ventilation, refrigeration, and air conditioning for industrial facilities and strategies that can improve energy utilization such as, waste-heat recovery, high-temperature heat pumps, and ventilation techniques/strategies. Track Chair: Vinod Venugopal | [vinodpvgopal@gmail.com](mailto:vinodpvgopal@gmail.com)
6. **Heat Pumps, Refrigerants and Decarbonization** Decarbonization is omnipresent and encapsulates many different elements. This track will focus on the development of heat pumps supporting decarbonization efforts. This includes improvements to legacy technologies, the refrigerant transition and component development. Additionally, this track will further explore more novel approaches that includes not in-kind technologies and less popular heat pump solutions such as ground-source heat pumps. Track Chair: Money Khanna | [khannamoney@gmail.com](mailto:khannamoney@gmail.com)
7. **Onsite Energy Storage** Thermal and electrical energy storage can alleviate the mismatch between renewable energy availability and peak building energy demands, enabling the incorporation of more renewable energy into the grid. Integration of onsite storage (either thermal or electrical) with residential and commercial building envelopes or HVAC systems would reduce buildings' heating and cooling loads, level out peak energy demand, reduce HVAC size, increase energy savings, improve occupants' thermal comfort and allow flexibility for shedding and shifting building loads. These benefits will improve grid resiliency, thereby enabling more cost-effective electrification of buildings. Papers and programs in this track focus on advances in cost-effective materials and systems, design, optimization and control as well as the integration of onsite storage in building envelopes or HVAC systems and grid resiliency. Track Chair: Kevin Brown | [kevin@kbsquared.net](mailto:kevin@kbsquared.net)

iv. Las Vegas and New Topic Ideas

v. ALI Course on Design-Build

- B. Standards – David Ballard
- C. Handbook – No Handbook Chapter
- D. Research – Matt Walters
- 11. Liaisons to other Sub-Committees
  - A. TC7.01 – Joe Chin / Mitchell Swann
- 12. Old Business
  - A. Review TC Roster/Positions for 2024-2025
    - i. Rolling Off
      - 1. Schopplein
      - 2. Golovko
    - ii. Continuing Voting Members
      - 1. Goll 2026
      - 2. Kiland 2026
      - 3. Davis 2028
      - 4. Farrell 2027
      - 5. Villaume 2027
      - 6. Alderman 2027
      - 7. Holcomb 2026
    - iii. Need 2 new voting members to start in June 2025
    - iv. Committee Positions
      - 1. Chair – Schopplein
      - 2. Vice Chair – Kiland
      - 3. Secretary –
      - 4. Webmaster –
      - 5. Programs – Davis
      - 6. Research – Walters
      - 7. Standards – Ballard
- 13. New Business
- 14. Next meeting: June 2023 – Indianapolis
- 15. Adjournment

1.140.001.1 As members of ASHRAE or participants in ASHRAE committees, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct.

- A. Efforts of the Society, its members, and its bodies shall be directed at all times to enhancing the public health, safety and welfare.
- B. Members and organized bodies of the Society shall be good stewards of the world's resources including energy, natural, human and financial resources.
- C. Our products and services shall be offered only in areas where our competence and expertise can satisfy the public need.
- D. We shall act with care and competence in all activities, using and developing up-to-date knowledge and skills.
- E. We shall avoid real or perceived conflicts of interest whenever possible and disclose them to affected parties when they do exist.
- F. The confidentiality of business affairs, proprietary information, intellectual property, procedures, and restricted Society discussions and materials shall be respected.
- G. Each member is expected and encouraged to be committed to the code of ethics of his or her own professional or trade association in their nation and area of work.
- H. Activities crossing national and cultural boundaries shall respect the ethical codes of the seat of the principal activity.