

**TC 2.5 Global Climate Change
Main Committee Meeting Agenda
January 22, 2023, Monday 2:30-4:30 pm CST
McCormick Place West, W175C (1)**

<https://events.rdmobile.com/Sessions/Details/2097179>

Meeting#: 2346 757 5552 Password: yKt8VJqtv74

Scope of 2.5

TC 2.5 is concerned with the impact that activities of the HVAC&R industry may have on the global environment, including climate change and stratospheric ozone depletion. This TC enhances ASHRAE member awareness of these impacts and coordinates activities and planning for the Society to address these issues. This includes identifying factors within the scope of the HVAC&R industry, which may impact favorably and unfavorably, the global environment and the role that ASHRAE serves.

Proposed: (Scott Sherwood)

TC 2.5 is concerned with the impact that activities of the HVAC&R industry have on the global environment (refrigerants, energy, and emissions) and the impact that climate change will have on the built environment (floods, extreme weather, pandemics, etc.). This TC enhances ASHRAE member awareness of these impacts and coordinates activities and planning for the Society to address these issues.

1.. Call to Order (Scott Sherwood-Chair)

a. Introduction of members and guests; In-Room & Virtual.

b. ASHRAE Code of Ethics Commitment:

“In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, and we shall avoid all real or perceived conflicts of interests.” (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)

c. ASHRAE Commitment to Care. View on ASHRAE website.

d. [ASHRAE DIVERSITY AND INCLUSION COMMITMENT](#)

ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of everyone. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative, and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socioeconomic status, belief systems, sexual orientation or education.

e. Establish quorum of voting members. (Scott Sherwood 6/2024, Janice Means 6/2024, Enrica Galasso 6/2026, Daniel Villa 6/2026*, Renee Clair 6/2024, Matt Clark 6/2026, Beth Tomlinson (6/2027)

NOTE: 7 voting members, require 50%+1 or 4 Voting Members for quorum.

e. Review Agenda; update, and/or accept agenda.

f. Approvals:

i. Meeting Minutes – February 2023 Winter Meeting - Atlanta (will distribute before meeting)
Meeting Minutes – June 2023 Summer Meeting – Tamp Bay (will distribute before meeting)

2. Chair's Announcements (Scott Sherwood)

- a. Report of TC/TG Chair's Meeting
- b. Review of previous action items –
ASHRAE Position Document (PD) on Climate Change.
Approved June 27, 2018, Reaffirmed June 23, 2021 (Expires – 12/23/23)
TAC approved Total Revision and Position Document Committee:
Update – Don Brundage – Chair

3. Roster Updates (Scott Sherwood)

1. Beth rolled on as voting member 7/1/23.
2. Scott, Janice, and Renee roll off 6/2024.
Request volunteers to become voting members that can voted for 7/2024 start: minimum 4-5
3. Welcome all new members of TC2.5.
4. Any issues with membership status, or to discuss increased participation; please email me directly at TC0205@ashrae.net

4. Subcommittee Reports

- a. Programs (Daniel Villa) – Aida Rezaei has volunteered to replace Dan as Programs Chair. (Require VOTE)
- b. Handbook (Janice Means) – Status of revision of Climate Change Chapter in Fundamentals Handbook
- c. Website (Gerardo Alfonso)
- d. Research (Elizabeth Jedrlnic)
 - i. RTAR 1947 (DVilla) – Comments & Work Statement (WS) Update & Discussion.
 - ii. Future RTAR projects
- e. Standards (Enrica Galasso)
- f. MTG.LowGWP (Larry Burns, John Karakash)

5. Liaison Reports

Note : In Tampa Bay it was briefly discussed that TC2.5 needs a liaison to Building Decarbonization Task Force.

- a. Handbook – Javier Korenko
- b. Standards – Niels Bidstrup
- c. Research - William Hutzal
- d. Standards – Gerald J. Kettler, PE
- e. Staff – Steve Hammerling
- f. TC 2.7 Noise, Vibration, Wind – Matt Clark
- g. TC 2.8 Sustainability – Renee Clair
- h. TC 2.10 Resilience & Security – Scott Sherwood
- i. TC 7.1 – Eric Haley
- j. TC 9.9 Mission Critical – Gerardo Alfonso
- k. SSPC 90.1 – Don Brundage
- l. Previously suggested: TC 4.2, TC 5.10, TC 6.7, TC 7.9, SSPC 189.1, SSPC 100.

6. Update Reports on Related Treaties, Accords, and Activities (Round Table Discussion)

7. New Business

- a. Governmental Affairs – Coordinate with Local Chapters to develop database of resources for policy change.(Beth T.)
- b. Building Decarbonization Task Force – Provide update to Guidelines, Standards, Standard 240.
- c. Title and Scope – (Should we re-write to include Decarbonization focus?)
- d. Climate Change Public Policy Brief
- e. New items

8. Adjourn

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ADDITIONAL NOTES:

TC2.5 Committee Meetings for Winter Chicago Conference

TC 2.5 Research/Programs - Subcommittee Virtual meeting

January 8, 2024 Monday 3:00pm – 5:00pm CST (4:00-6:00pm EST)

<https://events.rdmobile.com/Sessions/Details/2097048>

TC 2.5 Handbook - Subcommittee Virtual meeting

January 16, 2024 Tuesday 11:00am – 1:30pm CST (12-2:30pm EST)

<https://ashrae.webex.com/ashrae/j.php?MTID=m2ae25c5fd22e142c77cf8ff8a497ed4f>

TC 2.5 Main Hybrid Meeting

January 22, 2024 Monday 2:30pm – 4:30pm CST (3:30-5:30pm EST)

McCormick Place West, W175C

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Table 1. TRACKS for 2024 SUMMER ASHRAE Conference – Indianapolis

1. **Fundamentals** are the foundation for understanding applications in engineering. Key components of ASHRAE fundamentals include thermodynamics, psychrometrics, 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

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, 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

3. **Research Summitt** Active research, and the exchange of those research findings, are critical to the development of our HVAC&R industry and built environment. The 11th Annual Research Summitt 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 Summitt includes a partnership with ASHRAE's archival journal, *Science and Technology for the Built Environment*.

Track Chair: **Kristin Cetin** | cetinkri@msu.edu

4. **Professional Development**. As members of a professional organization, we participate not only for the great value of technical exchange, but also the interpersonal exchange. 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. The Professional Development Track covers all aspects of business outside of engineering/technical applications and lends itself to interactive session types such as workshops and forums.

Track Chair: **Ahmed Abdelsalam** | ahmed.abdel-salam@usask.ca

5. **Electrification: Possibilities and Pitfalls** Global legislative efforts are pushing for full electrification of the building sector. This track features programs that explore the required technology to meet legislative targets and the seen and unforeseen challenges and consequences of rapidly electrifying the built environment in parallel with other sectors. Submissions are encouraged in the areas of relationships between electrification and decarbonization, electrification of space and water heating, building/grid interactions in a highly electrified environment, onsite energy generation and storage, district energy systems and all other areas related to the electrification of building systems.

Track Chair: **Kevin Brown** | kevin@kbsquared.net

6. **Artificial Intelligence and The Built Environment**. Artificial Intelligence and Machine Learning have the potential to transform how we design, optimize and operate buildings and equipment. From the automated design of heat exchangers to adaptive controls to the development of new working fluids, the possibilities are vast. This track highlights papers, case studies, and programs that separate the hype from reality and explore the possibilities of AI and ML tools for advancing technology for the built environment.

Track Chair: **Vinod Venugopal** | vinodpvqopal@gmail.com

7. **Building Life Cycle Assessment**. The explosion of computational capacity and data collection capability is rapidly expanding the scope, complexity, and practical applications of modeling and performance characterization both during design, construction, end-of-life, but even more so for fault detection, diagnostics, and operational optimization. These data can provide better insights on the whole life cycle impact of building construction and operation on efficiency and decarbonization goals. This track welcomes programs related to all aspects of building life cycle assessment, with a particular interest in successful applications that have extended modeling into operational phases of the building life cycle.

Track Chair: **Money Khanna** | khannamoney@gmail.com

8. **Legislation, Standards, Codes, and Guidelines**. Legislation such as the US Inflation Reduction Act (IRA) of 2022 and global F-Gas regulations can dramatically impact the building sector by incentivizing different technologies and approaches to managing building energy systems. In addition, ASHRAE is well known for its standards and design guidelines and their continuous evolution to improve the built environment and its systems in terms of IEQ, resource efficiency and energy consumption. ASHRAE members must be able to keep up with the rapidly evolving legislative environment and prepare to inform future legislation, standards and codes. The programs in this track highlight recent changes and opportunities to inform new legislation, standards and guidelines and their impact on the buildings sector.

Track Chair: **Cindy Callaway** | cindy.callaway@p2sinc.com