

TC2.3 Program Subcommittee Meeting Minutes for Chicago on January 23, 2024

ASHRAE Code of Ethics: <https://www.ashrae.org/about/governance/code-of-ethics>

Attendees: Matt Middlebrooks, Christopher Vizcaino, Kevin Kwong, Tori Binz, Caitlin Naske, Henry Geist, Chris Muller, Richard Mackay, Vivek Gaur, Sanjeev Hingorani,

Mick Flom, Gemma Kerr, Marilyn Listvan, Jeffrey Roseberry, John Randtke, Sissi Liu, K-J Choi (17)

Seminar, Forum, Workshop, Debate and Panel Proposals Due Monday, February 26, 2024

Indianapolis, June 22-26, 2024, Orlando, Feb. 8-12, 2025, Phoenix, June 21-25, 2025, Las Vegas, Jan. 31-Feb 4, 2026, Austin, TX, June 27-July 1, 2026

	Session	Title	Co-sponsor	Champion	Status/Location
1	Seminar	What Should We Do About Gas Stoves & Ovens?		John Randtke	Resubmit for Indianapolis
2	Seminar	Stinky Air? Dangerous Gases in your air? How Test Methods Determine Which Air Cleaners work?		K-J	Resubmit for Indianapolis
3	Seminar	Gases and particles from wild fire		Caitlin	Indianapolis
4	Seminar	Does this air cleaner work in my room? New ASHRAE Tests in Chambers (Linda Lee on 185.3, Caitlin Naske on 145.4, Kathleen Owen on 185.5)	TC 2.3	Kathleen Owen	Indianapolis
5	Seminar	Back to basic		Chris Muller	Orlando
6	Forum/Seminar	Ventilation for 3D printers		Marilyn	Orlando and beyond
7	Seminar	Exploring Gas to Particle Transition/ Brandon Boor and Stevens	TC 2.4	Brian	Orlando and beyond
8	Workshop /Forum	Testing Reactive Air Cleaners		Owen	Orlando and beyond
9	Workshop	Review/Evaluation of Standard 145.2 Test Data and Improve SSPC 145.2		Owen	Orlando and beyond
10	Workshop	Occupant related indoor air pollution (Chang Seo)	TC2.4	Charlene	Orlando and beyond
11	Seminar	Particle Loading of Gas Phase Filters- Is it a Problem? (Matt, Paula, Vijay, Brian)	TC2.4, TC5.10	Brian	Orlando and beyond
12	Workshop/forum	Breathing in your home		Nick	Orlando and beyond

Types of Presentations

Paper Sessions: These sessions present both technical and conference papers. Conference papers are written on current applications or procedures, as well as papers reporting on research in process. These papers differ from technical papers in that they are shorter in length and undergo a much less stringent peer review. Technical papers cover current applications or procedures, as well as papers resulting from research on fundamental concepts and basic theory. Papers presented in these sessions have successfully completed a rigorous peer review. PowerPoint presentations with audio descriptions of the presentations are posted online in the Virtual Conference. Preprints of the papers are available to all attendees who have purchased a conference registration.

Forums are “off-the-record” discussions held to promote a free exchange of ideas. Reporting of forums is limited to allow individuals to speak confidentially without concern of criticism. There are no papers attached to these forums.

Debates highlight hot-button issues. Experts, either on teams or as individuals, present different sides of an issue in debate format. Each participant presents evidence for or against a specific statement or question such as ‘Is Sustainability Really Sustainable?’.

Panel discussions can feature a broad range of subjects and explore different perspectives on issues in the industry. A panel may feature discussions about integrated project delivery among designers, builders and facility management professionals.

Seminars feature presentations on subjects of current interest. Papers are not available from the Society; however, seminar PowerPoint presentations with audio descriptions of the presentations are posted online in the Virtual Conference. Access is free for attendees who purchase a conference registration. Seminars are available as a collection via subscription to the Technology Portal online and include video files synched with audio, audio files and PDF files of the presentations.

Workshops enable technical committees and other ASHRAE committees to provide a series of short presentations on a topic requiring specific expertise. These short presentations are provided with an increased emphasis on audience participation and training in a specific set of skills. PowerPoint presentations with audio descriptions are posted online in the Virtual Conference.

TRACKS for 6/22-26/2024 Annual ASHRAE Conference – Indianapolis

1. Fundamentals and Applications are the foundation for understanding applications in engineering. Key components of ASHRAE fundamentals include thermodynamics, psychrometrics, fluid flow and heat and mass transfer. 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

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

3. Research Summit, 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 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

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

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

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

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

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