

TC2.3 Program Subcommittee Meeting Agenda for Atlanta, Feb. 4-8, 2023

Tampa, June 24-28, 2023, Chicago, Jan. 20-24, 2024, Indianapolis, June 22-26, 2024, Orlando, Feb. 8-12, 2025, Phoenix, June 21-25, 2025

Seminar 6: Sunday, February 5 8:00 AM – 9:00 AM, “Testing of Gas Phase Air Cleaners,” Chair: Bjarne Olesen, Georgia World Congress Center, A405

Seminar 12: Sunday, February 5 11:00 AM – 12:30 PM EST, LIVESTREAM: “ASHRAE Standard 62.1, Indoor Air Quality Procedure: 2022 Updates and Application”, Chair: Marwa Zaatari, Speakers include: Chris Muller and Kathleen Owen

	Session	Title	Co-sponsor	Champion	Status/Location
1	Seminar	Emerging Gas-phase Technologies -- What You Need to Know		KJ	Not Scheduled
2	Seminar	Exploring Gas to Particle Transition/ Brandon Boor and Stevens	TC 2.4	Brian	Not Scheduled
3	Seminar	Performance of Air Cleaners: latest test methods and results		Bjarne W. Olesen	Scheduled
4	Workshop/Forum	Testing Reactive Air Cleaners		Owen	Tampa or beyond
5	Seminar	Don't Gamble with IAQ: Guidance on Estimating and Monitoring the Performance of Gas-Phase Air Filters		Chris Muller	Tampa or beyond
6	Seminar	Gases and particles from wild fire		Caitlin/Brian	Tampa or beyond
7	Seminar	How to Choose a Gas-phase Filter	TRG4, 62.1, SSPC 145	Ashish Mathur	Tampa or beyond
8	Workshop	Review and Evaluation of Standard 145.2 Test Data		Owen	Tampa or beyond
9	Workshop	New and improve SSPC 145.2		Matt	Tampa or beyond
10	Workshop	Occupant related indoor air pollution (Chang Seo)	TC2.4	Charlene	Tampa or beyond
11	SSPC62.1 Workshop	Misapplication of IAQ Procedure (Hoy, Marwa and Charlene, Chris Muller)	TC 2.3, EHC,	Marwa	Tampa or beyond
12	Workshop/forum	Particle Loading of Gas Phase Filters- Is it a Problem? (Matt, Paula, Vijay, Brian)	TC2.4, TC5.10	Brian	Tampa or beyond
13	Workshop/forum	Breathing in your home		Nick	Tampa or beyond

Notes:

Technical Paper Session: These sessions present papers on 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. Forms for written comment are available at each session and sent to respective authors for reply and publication in ASHRAE transactions, if received by a certain date.

Conference Paper Session: These sessions present papers 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.

Seminar: These sessions feature presentations on subjects of current interest. There are not papers attached to seminars.

Workshop: These sessions 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. There are not papers attached to workshops.

Forum: The sessions 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 not papers attached to forums.

Panel Discussion: Panel discussions can feature a broad range of subjects and explore different perspectives on industry related topics. This session format includes a panel of 3-4 speakers each addressing a facet of the session topic, followed by an interactive discussion lead by the session chair. Panel Discussions may be 60 minutes or 90 minutes in length and will be posted online in the Virtual Conference.

Debate: Debates highlight hot-button issues commonly faced by our membership. Industry experts, either on teams or as individuals, argue opposing sides of an issue, concluding with position summaries and audience feedback. Debate sessions may be 60 minutes or 90 minutes in length and will be posted online in the Virtual Conference.

Tampa, June 24-28, 2023

Track 1: HVAC&R Systems and Equipment: Ng Yong Kong and Atilla Biyikoglu

Track 2: Fundamentals and Applications: Brian Fronk

Track 3: Research Summit: Davide Ziviani

Track 4: Pathways to Net Zero Energy and Decarbonization: Rafi Karim

Track 5: Future-Proofing the Built Environment: Scott Peach

Track 6: Building Automation and Control Systems: Raul Simonetti

Track 7: Professional Development and Education: Ahmed Abdel-Salam

1. 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 |
Co-Track Chair: Atilla Biyikoglu |

2. Fundamentals are the foundation for understanding applications in engineering. Key components of ASHRAE fundamentals include thermodynamics, psychrometrics, 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: Brian Fronk |

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: Davide Ziviani |

4. Pathways to Net Zero Energy and Decarbonization: Decarbonization is urgently needed to slow climate change that is affecting the wellbeing of our planet. Whether it is new construction, renovation or routine maintenance, ASHRAE and its members are leading in the advancement of carbon neutral, net zero energy and decarbonization strategies in building and HVAC&R design.

>> This track highlights: case studies and research that expand on the simple to the complex methods being developed to reduce carbon impact on the global environment; tools and resources to make zero energy design and operation more easily achievable; innovative and state-of-art technologies and strategies to achieve zero energy communities and campuses; policies and regulations, codes and standards, and utility programs for adoption and scale up of net zero (or net-positive) energy building and community initiatives.

Track Chair: Rafi Karim |

5. Future-Proofing the Built Environment: In the face of climate change and weather extremes (hotter, colder, wetter, drier, wilder winds, wildfires, seawater rise, etc.) and energy supply disruptions and shortages, methods of designing, constructing and operating buildings and HVAC&R systems for resilience and sustainability are paramount to long-term success.

>> This track invites papers, abstracts, seminars and forums that highlight innovative technologies and strategies that reimagine our relationship with the built environment now and into the future, including advancements in: grid resilience; thermal storage systems; demand response; HVAC systems, equipment and design strategies for extreme climates and weather (e.g., outdoor and passive cooling, water scarcity); appropriate responses to energy supply disruptions; and how all the above are tied to resilience and energy conservation efforts.

Track Chair: Scott Peach |

6. Building Automation and Control Systems: As sensor systems, internet connectivity, building management software and data collection become more sophisticated and ubiquitous, there are substantial opportunities to make buildings and HVAC system and equipment “smarter”, with improved security, performance, efficiency and maintenance, and better utilization of renewable energy resources, including wind and solar energy and energy storage.

>> Submissions in this track may include IoT, cyber security, fault detection and diagnosis, big data analytics and applications, smart building, grid-enabled equipment and appliances, and HVAC design and operation for load flexibility, time-of-day practices, utility programs, etc.

Track Chair: Raul Simonetti |

7. Professional Development and Education: We participate in ASHRAE functions for the great value of technical exchange, and also for valuable interpersonal connections and exchanges. This track is designed to provide opportunities to develop and share knowledge in the areas of presentation skills, leadership, teambuilding, understanding various business operations, interpersonal skills, etc., and an opportunity for educators to share knowledge in the teaching and education of current and future generations of professionals. It also provides a venue for presentations on the importance of ethics and benefits of diversity, equity and inclusion (DEI) in our professional and personal development.

>> In addition to seminars, submissions to this track may lend themselves to interactive session types such as workshops, panels and forums.

Track Chair: Ahmed Abdel-Salam |