

## TC 2.9 UV Air & Surface Treatment

### Program Sub Committee Meeting Agenda

February 5, 2023, Monday 8:00-10:00 pm Eastern Time

Georgia World Congress Center A401 (4)

- 1.. Call to Order (Scott Sherwood – Program Chair)
  - a. Introduction of members and guests (sign in)
  - b. ASHRAE Code of Ethics Commitment:  
“In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity 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.
2. Chair’s Announcements (Scott Sherwood)
  - a. Report of Programs Submissions for Atlanta (Table 1)
  - b. Report of Programs Submissions for Tamp Bay (Table 2)
  - c. TC2.9 Handbook meeting afterwards 10:00am-12:00noon – same room
  - d. TC2.9 Standards, SPC 185, GPC37 1:00pm-3:00pm - same room
3. Roster (Scott Sherwood)
4. Programs under consideration:
  - a. Want to Live Longer: How IAQ..
    - i. Nick Agopian, Christine Taylor, Scott Sherwood (Speakers)
  - b. UVC & Decarbonization
    - i. (Speakers)
  - c.
    - i. (Speakers)
  - d.
  - e.
5. New Business
6. Adjourn

Table 1 . proposals Submitted for Atlanta , and % accepted.

Session Type	Proposals Submitted	Proposals Scheduled	% Acceptance
Debate	1	1	100%
Forum	9	2	22%
Panel	7	4	57%
Seminar	136	71	51%
Workshop	2	2	100%
Total	155	80	52%

Table 2. TRACKS for 2023 Summer ASHRAE – Tampa Bay

**2023 ASHRAE Annual Conference Technical Chair:** Bert Phillips | [phillips@unies.mb.ca](mailto:phillips@unies.mb.ca)  
**Overview of Conference Tracks:**

**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 | [nyk@nyk.com.my](mailto:nvk@nyk.com.my)

**Co-Track Chair:** Atilla Biyikoglu | [abiyik@gazi.edu.tr](mailto:abiyik@gazi.edu.tr)

**2. Fundamentals and Applications** 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 | [Brian.Fronk@psu.edu](mailto:Brian.Fronk@psu.edu)

**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 | [dziviani@purdue.edu](mailto:dziviani@purdue.edu)

**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 | [rkrim@aeieng.com](mailto:rkrim@aeieng.com)

**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 | [sp@sp.engineering](mailto:sp@sp.engineering)

**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 | [raul.simonetti@carel.com](mailto:raul.simonetti@carel.com)

**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 | [ahaabdel salam@gmail.com](mailto:ahaabdel salam@gmail.com)