

For Houston : 1 seminar / 1 co-sponsored Forum  
 For Atlanta & beyond : 2 workshops / 5 seminars

# TC 2.3 Program Subcommittee Meeting - Chicago

Tuesday, 23-January-2018, 12-12:45p  
 Spire (6)

Conference Paper Due March 5, 2018 for Atlanta  
 Seminar, Forum, Workshop, Debate and Panel Proposals Due Feb 9, 2018 (received 155 already), Presentation uploads by June 1, 2018

Houston, June 23-27, 2018, [www.ashrae.org/houston](http://www.ashrae.org/houston), Atlanta, Jan 12-16, 2019, [www.ashrae.org/atlanta](http://www.ashrae.org/atlanta), Kansas City, June 22-26, 2019, Orlando, FL, Feb. 1-5, 2020, Austin TX, June 27-July 1, 2020

Starting with 2017 Winter Meeting in Las Vegas, there is a 3 strike policy for speakers who do not up load their presentation by the published deadline. If a speaker receives 3 strikes, they will not be able to present for the following year (two conferences).

Program statistics for Chicago: Seminar: 67/115, Workshop: 5/10, Panel: 1/11, Forum: 2/16, Debate: 3/10, Conference Paper: 67/92, Technical Paper: 18/21

12 speakers from Long Beach had speaker ratings below 3.5 out of 5.0. These speakers were sent letters indicating that if they receive two additional low ratings they will be required to provide proof that they have received speaker training before they will be permitted to speak again.

## Program for Chicago:

Wednesday, January 24 11:00 AM - 12:30 PM, Seminar 64: Combo Filters for IAQ and Energy Savings, Track: Systems and Equipment

Room: State, Sponsors: TC 2.3, TC 5.4, TC 2.4, Chair: K-J Choi,

1. Developments in the Application and Use of Combination Particulate/Chemical Filters for IAQ and Energy Savings Christopher Muller, Member, Purafil, Filtration Group, Doraville, GA

2. Development of a Combinatorial Filter for Removing Both Particle and Organic Vapor in Residential Homes: Approach and Challenges Jianshun Zhang, Ph.D., Fellow ASHRAE, Syracuse University, Syracuse, NY

3. A Combination-Filter for Residential HVAC Filtration John Zhang, Ph.D., Member, 3M Personal Care Division, St. Paul, MN

4. A Combination Filter Used in Pollution Control Device: Kitchen Ventilation Derek Schrock, Halton Company, Scottsville, KY

5. Particulate and Gas-Phase Residential Filtration Thad Ptak, Ph.D., Member, A. O. Smith Corporation, Milwaukee, WI

Panel	The Effectiveness of Electronic Air Cleaners Against VOCs and Other Gaseous Chemical Contaminants	SSPC145, TRG4, TC2.9 SSPC 62.1	Chris Muller	Chicago	During SSPC 145 on 1/21/2018 32 attended
Seminar	Combo filters for IAQ and Energy Savings	TC2.4, TC5.4	KJ	Chicago	Seminar 64 On 1/24/2018
SSPC62.1 Co-sponsoring Workshop	Misapplication of IAQ Procedure (Hoy, Marwa and Charlene)	TC 2.3, EHC, SSPC62.1	Erica Stewart	<del>Chicago</del> Atlanta and beyond	
Seminar	Sensors in filtration	TC2.4	Krafthefer	<del>Chicago</del>	"
<del>Seminar</del>	<del>Assessment of the Potential Impacts of Vent-Free Gas Products on Indoor Air Quality</del>		<del>Dave Delaquila</del>	<del>Chicago</del>	
Seminar	Don't Gamble with IAQ: Guidance on Estimating and Monitoring the Performance of Gas-Phase Air Filters		Chris Muller	Houston	TBS
Workshop	Occupant related indoor air pollution (Chang Seo)	TC2.4	Charlene	Houston and beyond	TBS
Seminar	Back to basics, how to choose a carbon filter	TRG4, 62.1, SSPC 145	Ashish	Houston	TBS
Seminar	Cannabis Indoors	TC2.4	Charlene	Atlanta	TBS
Workshop	Review and Evaluation of Standard 145.2 Test Data			Atlanta and beyond	
	Room Air Cleaner: Can it improve IAQ?				"

Attendees:

Call for Papers for the ASHRAE's 125<sup>th</sup> Anniversary by Historical Committee: Technologies and topics that occurred between the year 1920 - 2000  
 Abstracts due by March 2018, Papers due by September 2018, for more information, contact Jeff Haberl at [jhaberl@tamu.edu](mailto:jhaberl@tamu.edu)

**Conference Paper Sessions.** 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. PowerPoint presentations with audio descriptions of the presentations are posted online in the Virtual Conference. Preprints of conference papers and an online papers collection are available for purchase in the ASHRAE Bookstore.

**Debates.** 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?" Forums. 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.

**Panels.** 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.** 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, and access will also be available for purchase. Orders can be taken in the ASHRAE Bookstore.



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**Technical Paper Sessions.** 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. You are invited to comment on these papers. Forms for written comment are available at each session. Power point presentations with audio descriptions of the presentations are posted online in the Virtual Conference. Preprints of papers and an online papers collection are available for purchase in the ASHRAE bookstore.

**Workshops.** 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 Houston, TX, June 23-27, 2018.**

**Track 1: HVAC&R Systems and Equipment,** Track Chair: Frank Schambach, Email: [frankschambach@mindspring.com](mailto:frankschambach@mindspring.com)

Selection of equipment and systems is paramount to HVAC&R design. Papers and programs in this track will assist designers, engineers, and operators in the design, selection, and operation of HVAC&R systems and equipment.

**Track 2: Fundamentals and Applications,** Track Chair: Dennis Alejandro, Email: [denzjac@yahoo.com](mailto:denzjac@yahoo.com)

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 3: District Energy and Cogeneration Plants,** Track Chair: Kimberly Pierson, Email: [kdpwildcat@gmail.com](mailto:kdpwildcat@gmail.com)

As our world resources become more and more sparse there is an industry-wide movement toward efficiency and sustainability. One of the ways in which we can look to minimize our carbon footprint is to combine our resources. District energy systems and cogeneration plants do just that and are quite popular in some locales but have yet to gain traction in other developed cities. We will look at the advantages and limitations, do's and don'ts and best practices of utilizing this type of shared system.

**Track 4: Safeguarding your HVAC&R System,** Track Chair: Rich Rose, Email: [richr@mticontrols.com](mailto:richr@mticontrols.com)

From seismic events to power outages and human error, how secure is your HVAC&R System? Mechanical, plumbing, electrical, and control systems all work together to create our living buildings, so it is imperative that designers and operators take into account the reactivity and interaction of these systems in response to natural disasters, human interference and other catastrophic events. Topics in this track include considering your design layout and accessibility, backup systems, supports and bracing, and more.

**Track 5: Residential - Modern Buildings in Hot and Humid Climates,** Track Chair: Dimitris Charalambopoulos, Email: [dimitris@ashrae.gr](mailto:dimitris@ashrae.gr)

Residential dwellings require designers to consider a different scope of building functions, occupant use, and comfort. With increasing utility rates and a movement toward net zero housing, the traditional residential design models are continuously diversifying and evolving. This track will discuss how we can integrate modern residential design and building practices into hot and/or humid climates with specific challenges ranging from indoor comfort to ventilation and mold.

**Track 6: Professional Skills,** Track Chair: Kevin Marple, Email: [kmarple@benzco.com](mailto:kmarple@benzco.com)

This track is designed to provide professionals an opportunity to develop in the areas of presentation skills, leadership, teambuilding, understanding various business operations, interpersonal skills, etc. In short, the Professional Skills Track can cover all aspects of business outside of engineering/technical applications and lends itself to interactive session types such as workshops and forums.

**Track 7: Research Summit,** Track Chair: Melanie Derby, Email: [derbym@ksu.edu](mailto:derbym@ksu.edu)

Active research, and the exchange of those research findings are critical to the development of our HVAC&R industry and environment. The sixth annual research summit invites researchers to share those results; and this year we announce an exciting collaboration with ASHRAE's archival research publication, *Science and Technology for the Built Environment* (STBE). Researchers are invited to present papers, seminars, forums or participate in panel discussions. Authors may also pursue an opportunity to further develop their submissions for later publication in STBE. A Research Summit is planned for the 2018 Annual Conference in Houston, TX.

This track is designed to highlight ASHRAE-sponsored research and other research of interest to the ASHRAE community. New for the Conference, we are collaborating with ASHRAE's archival research journal, *Science and Technology for the Built Environment* (STBE), to advance opportunities for research publication.

**Track 8: HVAC&R Control Freaks,** Track Chair: Gary C. Debes, Email: [gdebes@verizon.net](mailto:gdebes@verizon.net)

This track will focus on all things controls (note: please see track 9 "MiniTrack" as well). We invite you to join this exchange addressing one of the most dynamic areas in HVAC&R. Topics may range from design innovations spreading through our industry to the latest in building integration and observation, or even troubleshooting the most common issues occurring in building management systems.

**Track 9: HVAC&R Analytics,** Track Chair: Vikrant Aute, Email: [vikrant@umd.edu](mailto:vikrant@umd.edu)

This track will focus on the application of analytics algorithms/tools to automate systems. The tools and data are readily available, but the challenge is in using them in a timely and effective manner to add value to our HVAC&R Systems. By discussing the basics of analytics, methods, case studies and lessons learned we can consider if machine learning is ready to replace conventional controls.

Conference Program Chair: Cindy Moreno, Email: [cindym@tmmechanical.com](mailto:cindym@tmmechanical.com)

Staff Support: Tiffany D. Cox, Assistant Manager of Conference Programs, Email: [tcx@ashrae.org](mailto:tcx@ashrae.org)

#### **Tracks for Atlanta, GA, January 12-16, 2019.**

**Track 1: Systems and Equipment,** Track Chair: Joe Firrantello, Email: [jfirrantello@gmail.com](mailto:jfirrantello@gmail.com)

**Track 2: Fundamentals and Applications,** Track Chair: Rick Hermans, Email: [herma015@umn.edu](mailto:herma015@umn.edu)

**Track 3: Refrigeration,** Track Chair: Sonya Pouncy, Email: [sonya.pouncy@gmail.com](mailto:sonya.pouncy@gmail.com)

**Track 4: Construction, Operation, and Maintenance of High Performance Systems,** Track Chair: Leticia De Oliveira Neves, Email: [leneves@gmail.com](mailto:leneves@gmail.com)

**Track 5: Common System Options and Misapplications,** Track Chair: Lee Riback, Email: [lee.riback@gmail.com](mailto:lee.riback@gmail.com)

**Track 6: 207.2 (55+62.1+90.1): The Convergence of Comfort, Indoor Air Quality, and Energy Efficiency,** Track Chair: Ashish Rakheja, Email: [ashish.rakheja@aeonconsultants.in](mailto:ashish.rakheja@aeonconsultants.in)

**Track 7: Building Integrated Renewables and Natural Systems,** Track Chair: Maggie Moninski, Email: [Maggie.moninski@gmail.com](mailto:Maggie.moninski@gmail.com)

**Track 8: The Engineer's Role in Architecture,** Track Chair: Ashu Gupta, Email: [ashu.energy@gmail.com](mailto:ashu.energy@gmail.com)