

## TC 2.3 Program Subcommittee Minutes – Kansas City

Tuesday, 25-June-2019, 12-12:45p  
2208, KCCC

Attendees: Kevin Kwong, Jeff Roseberry, Kia Kiantag, Sanjeev Hingorani, Paula Levasseur, Gemma Kerr, Matt Middlebrooks, Brian Krafthefer, Henry Greist, Marilyn Listvan, Scott Sherwood, Kyung-Ju Choi

Seminar, Forum, Workshop, Debate and Panel Proposals Due August 2, 2019

**Orlando, FL, Feb. 1-5, 2020, Austin TX, June 27-July 1, 2020, Chicago, IL, Jan 23-27, 2021, Phoenix, AZ, June 26-30, Las Vegas, Jan. 29-Feb. 2**

Program statistics for Kansas City: Seminars • 110 submitted • 73 presented, Workshops • 8 submitted • 4 scheduled, Forums • 3 submitted • 0 scheduled, Debates • 3 submitted • 2 scheduled

Programs for Kansas City:

Program	Sponsor	Date	Time	RM	Title	Chair
Seminar 13	2.3	6/23 (Sun)	11:00 – 12:30	KCCC 2104A	The Role of Gas Filtration on Improving IAQ	K-J Choi
Seminar 46	Education Council	6/25 (Tue)	10:20 - 10:45	KCCC 2204	IAQ and Energy Implication of High Efficiency Filters in Residential Buildings: A Review (RP-1649)	Reinhard Radermacher
Workshop 4	2.4	6/26 (Wed)	9:45 - 10:45	KCCC 2103C	Filter Forecast: The Future of Filtration	Kathleen Owen

	Session	Title	Sponsor/Co-sponsor	Champion	Location	Was held/Due
1	Seminar	Do you know what you are breathing? Gas-Phase Air Cleaners	2.3	KJ	Orlando	will resubmit
2	Seminar	The use and effectiveness of gas-phase air filtration in data center / mission critical facilities	2.3/ 9.9	Chris Muller	Orlando	
3	Seminar	Don't Gamble with IAQ: Guidance on Estimating and Monitoring the Performance of Gas-Phase Air Filters		Chris Muller	TBD	
4	SSPC62.1-sponsoring Workshop	Misapplication of IAQ Procedure (Hoy, Marwa and Charlene)	/2.3, EHC,	Erica Stewart		
5	Workshop	Filters Don't Use Energy (Jon Rajala and Jenny Berens) – Resubmit	2.4/2.3, GPC35	Geoff Crosby, Mike Corbat	Orlando	
6	Seminar	Smart Filters (Sensors & Filter Operations), Smart Fibers No one wants to talk about smart filters – Jeff has volunteered, others have not	2.4/2.3	Brian Krafthefer – Brent, Seigel, Chuan He KJ – textile speaker		
7	Seminar	Sensors in filtration and IAQ – Bio	2.3/2.4	Krafthefer	Chicago	
8	Workshop	Occupant related indoor air pollution (Chang Seo)	2.3/2.4	Charlene		
9	Workshop	Review and Evaluation of Standard 145.2 Test Data		Owen		
10	Seminar	What not to do for filter installation (Field examples)	2.3/2.4	Paula Levasseur	Austin	
11	Seminar	How to choose a gas-phase filter	2.3/TRG4, 62.1, SSPC 145	Ashish		
12	Seminar	IAQ from extraordinary environmental events	2.3/2.4, 2.10, EHC	Marilyn Listvan	Chicago	
13	Seminar	3D printers – control of effluents	2.3/2.4	Gemma Kerr Marilyn Listvan	Austin	

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 session 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.

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**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.

### Orlando, FL, Feb. 1-5, 2020,

1. HVAC&R Fundamentals and Applications: 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: Maggie Moninski,

2. Systems and Equipment: HVAC&R Systems and Equipment are constantly evolving to address the changing requirements of the built environment. Papers and programs in this track will 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: Sonya Pouncy.

3. Refrigeration and Refrigerants: Refrigeration is a critical element of modern life, from preserving food and medicine to maintaining comfort. With significant changes on the horizon for refrigerant regulations, along with new applications for refrigeration systems being frequently applied, there is more need than ever to understand both the fundamental and advanced concepts and issues related to refrigeration. Papers and programs in this track will focus on refrigerants, refrigerant regulation, refrigeration cycles and refrigeration applications. Track Chair: Stephen Idem

4. Cutting Edge Approaches: This track focuses on novel approaches to HVAC&R systems and buildings due to changing energy, economic, and environmental concerns. Papers and programs will focus on emerging approaches such as the critical Water-Energy nexus, natural/emerging refrigerants and other cutting edge approaches pertaining to HVAC&R systems and buildings. Track Chair: Marianna Vallejo,

5. High Efficiency Design and Operation: Submissions are requested regarding high efficiency design and operation of commercial and residential buildings, including specialty building types. Track Chair: Ryan MacGillivray,

6. Big Data and Smart Controls: This track examines the use of big data, advanced algorithms, occupancy-based control strategies, data mining and other analytical techniques to economically automate buildings. Given the intersection with the larger world of IT, cybersecurity is also a topic of interest in this track. Track Chair: Leticia De Oliveira Neves,

7. Ventilation, IAQ and Air Distribution Systems: This track solicits submissions pertaining to the design, operation and study of ventilation and air distribution systems in residential and commercial buildings. The intersection of these systems with respect to indoor air quality and health effects are also of significant interest for this track. Track Chair: Robert Cox,

8. Standards, Guidelines and Codes: ASHRAE is a leader in the development of standards and guidelines pertaining to the indoor environment; these standards and guidelines are used to shape codes. This track invites submissions pertaining to standards for buildings, HVAC&R systems and IAQ, Track Chair: Lee Riback,

### 2020 Annual Conference (Austin, TX), June 27-July 1

Track 1: Fundamentals and Applications,

Track 2: HVAC&R Systems and Equipment,

Track 3: Research Summit Kristen Cetin,

Track 4: Professional Development, Devin Abellon,

Track 5: Grid-Interactive Efficient Built Environment,

Track 6: Multifamily and Residential Buildings, Sonya Pouncy,

Track 7: Resilient Buildings and Communities, Christine Reinders-Caron,

Track 8: Zero Energy Buildings and Communities: Opportunities and Challenges, Raul Simonetti,