

**ASHRAE MEETING MINUTES- Orlando  
TC 2.3 Program Subcommittee Meeting**

Tuesday, Jan. 26, 2016, 12-12:45p  
Clear Lake (L)

Attendees

- Gemma Kerr
- Paula Levasseur
- KJ Choi
- Lu Liu
- Kathleen Owen
- Brad Stanley
- Ashish Mathur
- Brian Krafthefer
- Chang-Seo Lee
- Jeff Roseberry
- Charlene Bayer
- Chris Muller
- Marilyn Listvan

St. Louis, June 25-29, 2016 [www.ashrae.org/stlouis](http://www.ashrae.org/stlouis)

2016, Las Vegas, Jan 28-Feb 1, 2017, Long Beach, June 24-28, 2017, Chicago, Jan 20-24, 2018, Houston, June 23-27

Dates: St. Louis Meeting – Seminar/forum/workshop by February 8, 2016

For Las Vegas: Conference Papers: Abstracts are due March 14, 2016. Upon acceptance, papers will be due July 6, 2016. These “final” papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length. Full Technical Papers, which are due April 18, 2016. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

For Orlando: total 107 available slots, Conf. Paper: 84/87, Tech Paper: 37/41, Seminar: 69/113, Forum: 4/10, Workshops: 5/11

Speakers rating below 3.5 will receive letters indicating that if they receive two additional low rating they will be required to provide proof that they have received speaker training before they will be permitted to speak again: 14/Atlanta

Seminar 60 “Do you know what you are breathing? Contaminants of emerging concern”, January 27, 2016, 8:00-9:30am, Orlando Ballroom V, Chair: K-J Choi, Speakers: Ying Xu, Donghyun Rim and Chang-Seo Lee, Sponsor: 2.3, Cosponsors: SSPC 62.1 and Environmental Health Committee

Type	Title	Co-Sponsor	Chair	When	Due Date
Seminar	SVOC		K-J Choi	Orlando	Accepted
Forum	What will Filtration look like in 2035?	TC2.4	Brian Krafthefer	Orlando	Not accepted
Workshop	Chemical Media Consumption		Chris Muller	Orlando	Not accepted
Workshop	What’s that smell – is it time to change your Gas Phase Filters	SSPC62.1	Chris Muller	St. Louis	
Seminar	Do you know what you are breathing	TC2.4	KJ Choi	St. Louis	
Workshop	What will Filtration look like in 2035?	TC2.4	Brian Krafthefer	St Louis	
Seminar	Filter breakthrough methods and sensors	TC2.3 Cosponsor	Brian Krafthefer	Las Vegas	
Seminar	Gambling with your filter cost – what you don’t know can cost you	TC2.4	Brian Krafthefer	Las Vegas	
Workshop	Guideline 29	TG2 TC2.3 co-	Scott Campbell	Las Vegas	

**ASHRAE MEETING MINUTES- Orlando**  
**TC 2.3 Program Subcommittee Meeting**

Tuesday, Jan. 26, 2016, 12-12:45p  
Clear Lake (L)

		sponsor			
Workshop	Occupant related indoor air pollution (Chang Seo)	TC2.4	Charlene	Las Vegas	
Seminar	Snake Ions – Can you filter the air with no pressure drop?	TC2.4 SSPS 62.1	Chris Muller	Las Vegas	
Seminar	Air Cleaning for Mars	TC2.4 and others	Chang-Seo	Long Beach	
Seminar	Field Application of gas-phase filters		Ashish	Long Beach	
Conference Paper	Interpreting 145.2 Results: Which Filter is Best		Brad Stanley	Long Beach	

**2016 ASHRAE Annual Conference** — June 25 - June 29, 2016 | St. Louis, MO, USA

- **Track 1: Advances in Refrigeration Systems and Alternative Refrigerants**

Track Chair: Frank Schambach,

This track seeks papers and programs that explore the wide range of refrigeration systems under development with special emphasis on the use of alternative refrigerants in vapor compression machines to address environmental concerns.

- **Track 2: Research Summit**

Track Chair: Jeffrey Spittler,

The fourth annual Research Summit seeks papers that report results on any aspect of ASHRAE-related research including heating, cooling, ventilation, other energy uses in the engineered environment and associated environmental aspects.

- **Track 3: Fundamentals and Applications**

Track Chair: David E. Claridge,

Fundamental information and applications of fundamentals related to all aspects of HVAC&R are welcome. This can range from psychrometric properties and processes to combustion, controls, HVAC system and envelope fundamentals and beyond.

- **Track 4: HVAC Systems and Equipment**

Track Chair: Alan Neely

This track will include presentations on best practices to implement traditional, non-traditional, and hybrid approaches to achieve successful HVAC&R systems design. Objectives include high performance systems and equipment, LEED certified designs and sustainable buildings.

- **Track 5: Smart Building Systems/Remote Monitoring and Diagnostics**

Track Chair: Samir Traboulsi,

Smart buildings address HVAC&R equipment operation (chiller sequencing, soft start), integration into complete systems and can potentially interface with multiple building complexes and micro grid operation. This track includes papers on advanced communication protocols, system integration, BMS tools, data management and analysis.

- **Track 6: Indoor Environment: Health, Comfort, Productivity**

Track Chair: Dennis Alejandro,

Buildings and other enclosed spaces are increasingly required to provide safe, healthy environments in an energy efficient manner. Papers in this track will review the balance between environmental health and energy efficiency in buildings and help define future education, policy and research directions.

- **Track 7: Professional Skills Beyond Engineering**

Track Chair: Rachel Romero,

This track seeks to ensure professional skills are being developed and maintained beyond engineering essentials. Emphasis will be placed on meeting the professional development and business needs of today and converting them into the building blocks of tomorrow's success.

- **Track 8: Renewable Energy Systems and Net Zero Buildings**

Track Chair: Kevin Gallen

Wind, hydroelectric and solar are just a few of the alternative and/or renewable energy sources that are being used in HVAC design as we strive for Net-zero and high efficiency buildings. This track will address recent advances in alternative energy systems and equipment and new design strategies for achieving Net-zero buildings.

**Conference Program Chair: Tom Kuehn**

**2017 ASHRAE Winter Conference** — Las Vegas, Jan 28-Feb 1, 2017

- Track 1: Fundamentals and Applications

Track Chair: Chuck Curlin

Engineering fundamentals are the foundation to understanding modeling, design, construction and operation of HVAC&R applications. This track provides opportunities for papers and presentations on theories, models, designs and shared experiences for both theoretical and applied concepts.

- Track 2: HVAC&R Systems and Equipment

# ASHRAE MEETING MINUTES- Orlando

## TC 2.3 Program Subcommittee Meeting

Tuesday, Jan. 26, 2016, 12-12:45p  
Clear Lake (L)

Track Chair: Michael Collarin

Selection of equipment and design of systems is critical for effective HVAC&R operation, and for achieving building operators' goals. The papers and programs in this track will assist designers and building operators in the use of traditional, non-traditional and hybrid equipment and systems; with an emphasis on high performance, sustainable and LEED-certified buildings.

- Track 3: Water-Energy Nexus

Track Chair: Gary C. Debes

The interdependencies between our water and energy systems are clear and are becoming more prominent as development requires the use of more resources while over-use and climate change make some resources scarcer. On the macro level, water is used in all phases of energy production and electricity generation (including renewables); and energy is required to extract, convey and deliver water, and to treat wastewaters prior to their return to the environment. On the micro level, the water-energy nexus is a major consideration for the HVAC&R community in determining equipment and system selection and design as well as building operation. This track will present papers and programs highlighting recent research on this issue as well as technologies and designs intended to reduce the gap between energy and water efficiency.

- Track 4: Commercial and Industrial IAQ

Track Chair: Kevin Marple

Indoor Air Quality is a vital consideration in the built environment. As people spend increasingly more time in industrial and commercial facilities, IAQ is closely linked to occupant comfort, satisfaction, productivity and health. This track will offer papers and programs to inform building owners and operators on the value of improving IAQ.

- Track 5: Mission Critical Design and Operation

Track Chair: Carrie Anne Crawford

As societies become more dependent on mission critical facilities, the design and operation of these facilities has undergone rapid change. This track will present papers and programs which will highlight advances in technologies, controls, design and operation of mission critical facilities to meet their increasing loads while also minimizing their impact on energy/water usage.

- Track 6: Effects of Climate Change on HVAC&R

Track Chair: Rocky Alazazi

Climate change will have an increasing effect on the design and operation of the built environment. How does the HVAC&R community design for buildings today that are intended to be highly functional and efficient well into a future where today's standards, codes and practices may not be sufficient to meet tomorrow's climatic conditions? This track seeks papers and programs that will inform the selection of strategies, designs and approaches that will increase building resilience and facilitate climate adaptation.

- Track 7: Energy Efficient Industrial Buildings

Track Chair: Corey Metzger

Industrial facilities often have different HVAC&R requirements than do commercial and institutional facilities. Oftentimes these are a result of the processes that occur within industrial facilities as well as the life safety issues these processes create. This track will present papers and programs that will inform how energy efficiency can be achieved without compromising life safety considerations.

- Track 8: Building Operation and Performance

Track Chair: Cynthia Moreno

Modeling has become an essential factor in the design of all aspects of many buildings. Often the operational results of the building do not match the modeled outcome that the owner/operator expected. This can lead to much "finger pointing" or worse. This track will present papers and programs to update modelers, designers, contractors and owners/operators on how to better match building performance with modeled expectations.

Conference Program Chair: Leon Shapiro