

**ASHRAE MEETING AGENDA - ATLANTA**  
**TC 2.3 Program Subcommittee Meeting**  
 Tuesday, 30-June-2015, 12-12:45p  
 Hilton, 210

**Attendees:**

Brian Krafthefer  
 Kathleen Owen  
 Chang-Seo Lee  
 Nick Agopian  
 Chris Muller  
 Kim Megonell  
 Paula Levasseur  
 Dave Schaaf  
 Marilyn Listvan  
 Ashish Mathur  
 Brad Stanley  
 Gemma Kerr  
 Kyung-Ju Choi

**ADHRAE Meeting Information**

Orlando, Jan 23 – 27, 2016 [www.ashrae.org/orlando](http://www.ashrae.org/orlando)  
 St. Louis. June 25-29, 2016, Las Vegas, Jan 28-Feb 1, 2017, Long Beach, June 24-28, 2017, Chicago, Jan 20-24, 2018

**Dates:**

**Orlando Meeting** – Seminar/forum/workshop by August 10, 2015

**For St. Louis:** Conference Papers: Abstracts are due September 14, 2015. Upon acceptance, papers will be due January 4, 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 September 14, 2015. 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 Atlanta: Conf. Paper: 67/74, Tech Paper: 36/52, Seminar: 66/104, Forum: 4/10, Workshops: 5/15

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.

Workshop 1 “Do we need a performance rating system for gas phase filters?” Sunday, June 28, 2015 at 8:00-9:00am, 206/207, 22 attended. Chair: Ashish Mathur, Speakers: Kathleen Owen and Paula Levasseur.

Seminar 22 “PM2.5 and gases’ impact on environment and health”, June 29, 2015 at 8:00-9:30am, 204/205, 27 people attended. Chair: K-J Choi, Speakers: Arsen Melikov, Brent Stephens, John Zhang and Thad Ptak.

Conference Paper 21: Ventilation and IAQ, “Evaluation of ozone removal performance of UVPCO air cleaning system” by Chang-Seo Lee, July 1, 11:45am, 206/207

Type	Title	CoSponsor	Chair	When	Due Date
Seminar	Do we need a test standard for residential applications	TC2.4 TC2.3 will cosponsor	Tom Justice	Orlando	<b>August 10</b>
Workshop	Chemical Media Consumption	62.1 proposed	Chris Muller	Orlando	<b>August 10</b>
Seminar	Do you know what you are breathing - Contaminants of Emerging Concern	62.1 proposed	K-J Choi	Orlando	<b>August 10</b>
Seminar	Filter breakthrough methods and sensors	TC2,4 proposed 62.1 and 62.2	Brian Krafthefer	Orlando	<b>August 10</b>

		Proposed			
Tech Paper	By Chang-Seo Lee	TC2.3	Research Journal	Orlando	<b>August 10</b>
Workshop	What TC2.3 Can Do For You?		Charlene Bayer	St. Louis	
Seminar	Residential IAQ		Nick Agopian	St, Louis	
Technical Paper	Case Studies of 145.2			Future	
Seminar	Smart Filter		Brian Krafthefer	Future	

**2016 ASHRAE Winter Conference** — January 23 - 27, 2016 | Orlando, FL, USA

- **Track 1: Systems and Equipment**

Track Chair: Gary C. Debes

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: Cynthia Moreno

Fundamentals are the foundation for understanding applications in engineering. Key components of ASHRAE fundamentals include thermodynamics, psychrometrics, fluid and mass flow, IAQ, and building envelope. 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: Design Build**

Track Chair: James Liston

Joining the contractor and the designer into the same team, the design-build method of project delivery is increasing in percentage of projects awarded in the US. This track explores the challenges and benefits of D-B project delivery. Highlight successful projects; discuss contracts; review management responsibilities; offer alternative design and construction processes. These topics and more will be included.

- **Track 4: International Design**

Track Chair: Leon Shapiro

Design for various environmental elements, geography and culture demand that new and innovative strategies be developed. As an international organization, ASHRAE strives to meet the needs of a global membership. HVAC&R systems vary globally and this track provides an opportunity to share innovative and necessary design elements that can be shared internationally.

- **Track 5: Standards, Guidelines and Codes**

Track Chair: Michael Collarin

ASHRAE is known for its standards and design guidelines – and they are constantly evolving with the intent on improving the built environment and its systems. Designers, Contractors, Architects and Owners must be able to keep up with the continuing changes in the current cycle but to also be prepared for the future changes. In addition, there is a large interaction of ASHRAE with the code authorities and government to incorporate these standards and guidelines. The series of sessions in this track highlight the changes to the standards and guidelines, their projected path and optimum design techniques to meet or exceed the standards.

- **Track 6: Cutting-Edge Technologies**

Track Chair: Ann Peratt

As energy codes become increasing more stringent, we are challenged to find creative ways to improve efficiencies in the effort to achieve net zero buildings. This track will include the most recent advances in HVAC&R system design, equipment, and construction techniques. Programs included will focus on efficiency, responsible use of resources and energy recovery.

- **Track 7: The Great Debate**

Track Chair: Chuck Curlin

Engineers commonly weigh multiple solutions to find the best match for a certain project. Centralized or Decentralized heating and cooling? Chemical or non-chemical water treatment? These sessions and papers will present divergent methods for accomplishing the same task. Hear all sides of the debate and decide for yourself.

- **Track 8: Modern Residential Systems**

Track Chair: Jennifer E. Leach

Engineering for residential HVAC and plumbing systems and equipment used to be referred to as catalog engineering: for a two bedroom house choose one from Column A; for a three bedroom house choose one from Column B. Recent years have seen a boom in energy efficient solutions for the savvy, fiscally-conscience home owner. From glazing to water heating to lighting, this track will provide you with the latest advances for the residential market.

**Conference Program Chair: Jennifer Leach**

**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 Galle,

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***