

**ASHRAE MEETING AGENDA - CHICAGO**  
**TC 2.3 Program Subcommittee Meeting**

Tuesday, 27-January-2015, 12-12:45p  
 Price, Palmer House 5<sup>th</sup> Floor

**Attendees:**

John Zhang  
 KJ Choi  
 Chris Muller  
 Arsen Melikov  
 Kathleen Owen  
 Paula Levasseur  
 Charlene Bayer

Gemma Kerr  
 Brad Stanley  
 Matt Middlebrooks  
 Brian Krafthefer  
 Ashish Mathur  
 Mick Flom  
 Bill Lull

**Program Information**

Atlanta, June 27-July 1, 2015 [www.ashrae.org/atlanta](http://www.ashrae.org/atlanta)

Orlando, Jan 23 – 27, 2016, St. Louis. June 25-29, 2016, Las Vegas, Jan 28-Feb 1, 2017, Long Beach, June 24-28, 2017

**Dates:**

**Atlanta Meeting** – Seminar/forum/workshop by Feb. 9, 2015

**Orlando Meeting** – Conference Paper Abstracts due March 23, 2015, Technical Papers due by April 20, 2015

For Chicago: Conf. Paper: 49/56, Seminar: 64/117, Forum: 5/11 for Workshops: 8/18

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. Seattle: 26 speakers had below 3.5/5.0

Seminar 34 “Testing Filters for Removing Gas-Phase Air Contaminants” chair by Kathleen Owen

Monday, January 26, 2015 at 2:15-3:45 – Red Laquer (4)

Seminar 40 “The IAQ Procedure is Alive and Well: Current Status of Standard 62.1, TRG4.IAQP and LEED v4.0” chair by Chris Muller

Tuesday, January 27, 2015 at 8:00-9:30 – Monroe (6)

**Proposed Future Sessions**

Type	Track #	Title	Co-Sponsor	Chair	When	Due Date
Workshop		Is there a need for a filter rating system for charcoal filters?		Ashish Mathur	Atlanta	<b>Feb 9</b>
Workshop	6	Will Filtration be alive in 2035 - re-submit <b>Submit, but will default to publication time slot if not accepted.</b>	2.4	Brian Krafthefer	Atlanta	<b>Feb 9</b>
Workshop		Chemical Media Consumption - Measuring chemical media consumption both on laboratory scale and full scale. Talk about 145.2, ISO,...Speakers: Chris, Paula		Chris Muller	Atlanta	<b>Feb 9</b>
Seminar		PM2.5 – PM 2.5 and Gas Impact on Environment and Health. Potential speakers (Hosten, Kathleen, Brandt Steens) Chris will also check with 62.1 see if they want to cosponsor	2.3	K.J.	Atlanta	<b>Feb 9</b>
Conference Paper		UVPCO (Hugo Destail..., LBL) 1457 Report (Ramses, U of W)		???	???	???

Seminar	6	Filter breakthrough methods and sensors		Brian Krafthefer	Orlando	
Seminar		SVOC		K-J Choi	Orlando	
Workshop		What TC2.3 Can Do For You? (Charlene will do 2.3 overview: 15 minutes. 145.1 & 2: Kathleen		Charlene Bayer		
Seminar		Residential IAQ		Stephanie Mason		
Technical Paper		Case Studies of 145.2				
Conference Paper		Interpreting 145.2 Results: Which Filter is Best		Brad Stanley		

## Notes:

- For Orlando, seminar package is due August 10, 2015
- There was a discussion on holding workshop or forum sessions during the TC2.3 Publications time slot

## ASHRAE Tracks for Atlanta and Orlando

### Atlanta: Seminar/Forum/Workshop by 2/9/15

- **Track 1: HVAC&R Systems and Equipment**  
**Track Chair: Jon J. Cohen / Rocky Alazazi**  
This track solicits papers and presentations on all aspects of HVAC&R Systems and Equipment. Efficiency is always important, so information on new and improved equipment and systems offering improved efficiency is particularly welcome.
- **Track 2: HVAC&R Fundamentals and Applications**  
**Track Chair: Ann Peratt / Cynthia Moreno**  
Fundamental information and applications of fundamentals related to all aspects of HVAC&R are welcome. This can range from fundamental psychrometrics to combustion, system and envelope fundamentals and beyond.
- **Track 3: Research Summit**  
**Track Chair: Thomas H. Kuehn / Samir Traboulsi**  
This track will continue the highly successful Research Summit tracks pioneered at Denver and Seattle. Research results related to any aspect of heating, cooling and other energy uses in buildings are solicited.
- **Track 4: Refrigeration**  
**Track Chair: Gary C. Debes / Monte G. Troutman**  
Refrigeration is a critical element of modern life, from preserving our food to maintaining comfort. The ozone depleting potential of the older refrigerants has led to adoption of non-ozone depleting refrigerants, with the focus now shifting to refrigerants with low global warming potential. These factors when combined with multiple drivers toward energy efficiency may lead to a diverse set of different refrigerants and processes for different cooling applications. This track will have presentations and papers from all areas of refrigeration and will particularly explore related technologies that will reduce the use of traditional refrigerants including evaporative cooling and desiccants.
- **Track 5: Building Operation, Maintenance and Optimization/Commissioning**  
**Track Chair: Alan Neely / Mike McDermott**  
Operation and maintenance have always accounted for a major portion of building expenses and a much smaller level of engineering effort aimed at controlling these expenses. Over the last one to two decades, there has been an increasing realization that real engineering applied to operation, maintenance and operational optimization or “commissioning” can bring increased comfort and offers huge financial returns. This track solicits papers and presentations related to any and all aspects of this topic.
- **Track 6: Indoor Air Quality**  
**Track Chair: Chuck Curlin / Dennis Alejandro**  
Indoor air quality has become a vital consideration during all phases of a building’s life. It is closely linked to comfort and to occupant satisfaction, productivity and health. This track seeks presentations and papers that explore these links, particularly in ways that make the case for high levels of indoor air quality compelling to building owners.
- **Track 7: Modeling throughout the Building Life Cycle**  
**Track Chair: Jeffrey Spitler / Michael Collarin**  
Modeling was originally concerned primarily with building and system design specifications. The demands of energy efficient operation brought about the need for modeling of part-load operation for a variety of off-design conditions. The explosion of computational capacity and data collection capability is rapidly expanding the scope, complexity and practical applications of modeling both during design, but even more so for fault detection, diagnostics and operational optimization. Thirty years ago, people were dreaming of doing some of the things that Building Information Modeling is now bringing to reality. Presentations and papers

are solicited related to all aspects of building modeling, with a particular interest in successful applications that have extended modeling into operational phases of the building life cycle.

- **Track 8: High Performance Buildings**

**Track Chair: Rachel Romero / Andrea Zarour / Mary Ann Piette**

This track seeks papers and presentations on the design and measured performance of high performance commercial and industrial buildings in North America and around the world. There are numerous examples of buildings designed for high performance that have fallen considerably short of the design intent and papers that identify reasons for these shortfalls are of particular interest.

- **Track 9: Moving Advanced Energy Design Guidance to the Mainstream**

**Track Chair: James Liston / Paul A. Torcellini / Frank Schambach**

This track focuses on the Advanced Energy Design Guides, with a circulation of over 500,000, and other like methods for reaching a broad audience with advanced energy efficiency. The target is a 50% reduction in energy. Papers and sessions focus on methods for using the guides including actual building case studies, educational curriculum, and other documented uses to move the market towards energy efficiency. Also, papers and sessions focus on the methods to create the guidance.

**Orlando, Jan 23-27, 2016**

**Conference Paper: max 8 single spaced pages, single blind review, abstract by 3/23/2015, full paper by 7/6/2015**

**Technical Paper: max 30 double spaced pages, double blind review, paper by 4/20/15**

- **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: Rocky Alazazi

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.