
ATLANTA – With more than five new tracks, 100 sessions and 400 speakers, the Technical Program at ASHRAE’s 2015 Winter Conference capitalizes on the wide range of systems, equipment and applications in the Chicago area to present several relevant and timely programs.

With the Conference being held in the big city of Chicago, the Technical Program itself is going big with a focus on big projects, the big picture and big impacts with the intent of presenting big results for engineers, contractors, manufacturers and building professionals, Doug Cochrane, Conference chair, said.


The Technical Program begins Sunday, Jan. 24, with special hour-long interactive sessions with audience participation, followed by a networking coffee break. It concludes Wednesday, Jan. 28.

The Technical Program offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license. The Conference features papers and programs for eight tracks, which address trends in the industry and also are relevant to the design community in the area.

The tracks are:

- **Fundamentals and Applications**: Basic HVAC&R principles are key in any project. Knowing what they are helps to apply in specific projects. This track covers a broad array of pertinent information.
- **New! Industrial Facilities**: Manufacturing and processes can have different requirements for HVAC&R. This track explores design and practices for industrial buildings.
- **New! Large Buildings**: Mission Critical Facilities and Applications: Facilities like data centers have different characteristics. This track looks at what is required for these unique applications.
- **Energy Efficiency**: Energy efficiency is on everyone’s mind as energy costs continue to rise. This track covers an array of considerations to help drive toward net zero energy.
- **New! Safety**: This encompasses egress, sprinklers, alarms, emergency lighting, smoke barriers and special hazard protection. This track provides the tools for all the factors to consider in life safety and lessons learned.
- **New! Design of Energy and Water Efficient Systems**: The trend is to green sustainable buildings. This track looks at what works and what doesn’t to attain these efficient systems.
- **New! Hospital Design and Codes**: Healthcare design takes into account some unique aspects. This track explores design and code requirements to ensure patient comfort.

**Systems and Equipment**: The proper selection of HVAC&R for a job is critical. This track covers considerations for a proper functioning system.
Happy New Year to all members and friends of our chapter. I hope you all had a good, even if busy, holiday season. The month of January has a few things going on that I hope some of you find interesting. For this month’s program meeting we are pleased to present Mr. Wei Sun, ASHRAE Distinguished Lecturer, and his presentation on airborne infection control spaces in healthcare facilities. With the large number of healthcare oriented buildings in our local area, this should be a very good educational opportunity.

Coming up in February we will not have a program meeting, as it is the month where the Tri-Cities Engineers Week Banquet is held. With that comes a call for local engineers and engineering societies, such as our ASHRAE Chapter, to nominate a colleague for Tri-Cities Engineer of the Year Award. Any team of three registered Professional Engineers or any local engineering society can nominate. We will be taking action on this at our January 26th Board of Governor’s Meeting as the deadline for nominations is February 12th. If you would like our chapter to consider someone for a nomination, please let me know. My email address is on page 4 of this newsletter. We will also be deciding at that meeting if there is enough interest in our chapter purchasing a table (8 people) for the banquet, to be held at the Red Lion Hotel in Kennewick (NOT in Richland as in previous years). The banquet is on February 27th.

I hope to see you at this month’s event or at next month’s Engineers Week Banquet.

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ASHRAE/IES Proposes Expansion of Climate Zones for Energy Standard

ATLANTA – New proposed climate data could make the ASHRAE/IES energy standard more applicable for global use.


The addendum was developed in response to an update of ASHRAE Standard 169-2013, Climatic Data for Building Design Standards, which now contains updated climate data and additional Climate Zone 0 with humid (0A) and dry (0B) zones. Addendum w adds this climate zone to 90.1. This has global implications for the standard as Climate Zone 0 does not exist in the United States and is primarily used in the equatorial regions of South America, Africa, Middle East, southern Asia and the south Pacific.

“It gives the standard more of an international view with maps and data never before available to users,” Dru Crawley, chair of the Standard 169 committee, said. “Previously there was the single U.S. map. Now there are high-level (1 deg latitude/longitude) maps of the world, covering each continent and major countries.”

Other addenda open for public review from Dec. 5, 2014, until Jan. 4, 2015 are:

- v revises fenestration orientation requirements
- y adds a new approach to simplified building lighting
- z clarifies and modifies the modeling of a baseline HVAC system with air source heat pumps and electric auxiliary heat
- aa clarifies an exception in a table in the design model section
- ad revises the preheat coil requirement for the baseline building model in Appendix G
- ae updates a section related to definitions used with motors
- af restores the specification of the rating conditioners for measuring efficiency of heat pump pool heaters
- ag limits mechanical cooling for vestibules
- ah clarifies lighting requirements.
This Month’s Event!

The Mid-Columbia Chapter of ASHRAE is pleased to present ASHRAE Distinguished Lecturer Mr. Wei Sun, for this month’s program.

Mr. Sun served as the Chairman of ASHRAE Technical Committee TC9.11 (Clean Spaces) from 2007-2010. Currently he serves as the Principal Author and leads over 30 co-authors in writing of “ASHRAE Cleanroom Design Guide” book which is expected to be published in 2013. He is also a member of ASHRAE Technical Committees TC9.10 (Laboratory Systems) and TC9.6 (Healthcare Facilities). In other leadership roles, he served as a Regional Vice Chair for ASHRAE Region V (Ohio, Indiana and Michigan) in 2008-2010, and President of ASHRAE Detroit Chapter in 2010-2011. Currently he serves as ASHRAE society OTTC committee Chair. He is the society Vice President of US IEST (Institute of Environmental Science and Technology) in charge of all technical issues, he also serves as the Working Group WG-12 (Considerations of Cleanroom Design) Chair of IEST and is in charge of the “Recommended Practices’ 2014 edition.

HVAC Systems Design for Airborne Infection Control Spaces in Healthcare Facilities

WHEN: Friday, January 16th, 2015. 12:00pm noon.

WHERE: Pacific Northwest National Laboratory: Environmental Technology Building (ETB), Columbia River Room. Go north on George Washington Way past Battelle Boulevard and into the parking lot. There is visitor parking available there. The Columbia River Room is immediately to the right after entering ETB.

Cost: Free. Bring your own lunch if you wish.
Mid-Columbia ASHRAE Chapter

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The Mid-Columbia Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers was chartered in 1981 in Richland, Washington. We are part of ASHRAE Region XI and represent ASHRAE members in Eastern Washington State.

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How would you like to place your business card in front of more than seventy eastern Washington ASHRAE members? For a low $10 an issue, we can place your business card with company logo in a prominent location in our newsletter.

Interested??? Contact
Derek Archer at (509) 737-6982
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Important Notice About Future Meeting Dates

Regular Mid-Columbia ASHRAE Board of Governor’s Meeting:
January 26th, 5pm. Meier Architecture-Engineering Offices,
Kennewick, WA

January 24-28, 2015.

2015 Region XI Chapter Regional Conference, Calgary, Alberta,
Canada. Spring 2015. Details to be announced.

2015 ASHRAE Annual Meeting, Atlanta, GA. June 27th-July 1,
2015.