Dear ASHRAE Members,

Spring is upon us; our winter wasn’t much of one, but since our last newsletter we have had another Winter Conference come and go; Student Night and a Past-Presidents Dinner.

The exposition attracted nearly 58,000 registered attendees, including a record 39,000 plus visitors. It was also the largest AHR Expo in the Show’s 82-year history, at nearly 430,000 square feet, making it 5 percent bigger than the Show held in Chicago in 2006.

The biggest buzz at the ASHRAE Winter Conference was the announcement of ASHRAE’s rebranding, which includes a new logo and tagline, as well as a move to refer to the Society as simply “ASHRAE,” as opposed to its full name. A trend to enforce that ASHRAE is truly an international organization.

Student night was held in February. Thank you to Lipscomb University for hosting us. We had a great turn out from both exhibitors and students. 3 Scholarships were handed out; one from Society for the Donald C Nichols and 2 from our local chapter. This year was also the first to award the Michael J. Saunders Scholarship. All together, the scholarships totaled $7,000.00. Thank you for all who were able to make this happen.

-Matt Fruetel

ASHRAE NEWSLETTER

March 2012

Chapter Meeting

TOPIC:
Wire to Water Pump Optimization

Date:
Tuesday, March 13th, 2012

Location:
TN Engineering Center @ The Adventure Science Center

Meeting Time:
11:30 – 1:00

Presenter:
Chris Huston

ASHRAE President Ron Jarnigan to Speak at Nashville Chapter May Meeting

Nashville ASHRAE is pleased to announce that Ron Jarnigan, 2011-2012 ASHRAE President, will address our chapter at the May meeting. Ronald “Ron” Jarnigan is a staff scientist, Pacific Northwest National Laboratory, Richland, Wash.

As ASHRAE’s president, Jarnigan directs the Society’s Board of Directors and oversees the Executive Committee. His presidential theme is Sustaining ASHRAE Through Leadership. Please see his message on Page 5.

Many thanks to Michael Coradini, Nashville Chapter Vice-President and Programming Chairman, for his efforts to secure such a wonderful line-up of speakers and presenters this year. Way to go Mike!
About Our Presenter – Mr. Chris Huston

Chris Huston is the National Sales Manager for Systecon Inc, a manufacturer of modular central utility plant solutions. Mr. Huston has nearly 20 years’ experience in the HVAC industry and has spent the last 8 years at Systecon in his current role. Prior, Mr. Huston spent the first portion of his career as a VP of Sales for a large equipment rep firm specializing in central plant products. Mr. Huston’s current focus is the promotion of the modular central utility plant model to the commercial market, specifically relating to plant controls and operational optimization. Mr. Huston received his BS in Industrial Engineering from Purdue University, and has previously served on numerous local ASHRAE committees.

Congratulations to ASHRAE Scholarship Winners!

Nashville ASHRAE was pleased to name Mr. Zachary Henderson and Mr. Christopher Loftis. Zachary was the first Recipient of the Michael J. Saunders Scholarship.

Society also awarded the Donald C. Nichols Scholarship to Mr. Arturo Ruiz.

Upcoming Chapter Event Schedule for 2011-2012

ASHRAE Upcoming Events:

January 10th – David Romeo – Cooling Tower Water Filtration
February 21st – Student Night – Lipscomb University Hughes Center
March 13th – Chris Huston – Wire to Water Pump Optimization
April 10th – Gordon Holness – ASHRAE Standard 100
May 8th – Ron Jarnigan, President, ASHRAE – Sustaining ASHRAE Through Leadership

The meetings are held at the Tennessee Engineering Center at 11:30 AM to 1:00 PM, except as noted. The Tennessee Engineering Center is located in the Adventure Science Center at, 800 Fort Negley Blvd., Nashville, TN 37203. Please RSVP to these programs. The meal cost is included in your yearly dues, but we still have to order the correct amount of food for each meeting. The monthly newsletter will give more details concerning these meetings.

Costs:
Members who have PAID local chapter dues: Included
Members who have NOT PAID local chapter dues: $15.00
Guests: $15.00
ATSALNTA – Changes to help make buildings and systems more sustainable are part of the newly published version of the high performance green building standard from ASHRAE, the U.S. Green Building Council (USGBC) and the Illuminating Engineering Society (IES).

ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, provides a green building foundation for those who strive to design, build and operate high performance buildings. It covers key topic areas of site sustainability, water-use efficiency, energy efficiency, indoor environmental quality and the building’s impact on the atmosphere, materials and resources. When first introduced in 2009, the standard was the first code-intended commercial green building standard in the United States.

“Since Standard 189.1 was first published, we have received much input from the industry offering suggestions on how to strengthen it in all areas,” chair Dennis Stanke said. “This 2011 version incorporates much of that input. More importantly, the 2011 version incorporates updated connections to its referenced standards – primarily ANSI/ASHRAE/IES 90.1-2010 and ANSI/ASHRAE 62.1-2010. Compliance with these updated provisions will result in further improvements to indoor environmental quality, while further reducing energy use and environmental impact through high-performance building design, construction and operation.”

The most significant change in energy-related provisions results from new requirements in ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, adding to and superseding requirements in the 2007 version. In October 2011, the U.S. Department of Energy found that the 2010 version of Standard 90.1 contains significant energy savings over the 2007 standard. The energy savings in the Standard 90.1-2010 provisions also result in energy savings for building projects complying with Standard 189.1, according to Stanke.

In addition, mandatory and prescriptive renewable energy requirements were clarified to reduce confusion and simplify calculations; now both mandatory provisions to prepare for on-site renewable energy and provisions to produce prescribed levels of renewable energy must be met. Additionally, buildings that meet the prescriptive requirement for renewable energy production are now deemed to comply with the mandatory requirement for renewable energy site-preparation.

The standard also updates the performance option for energy efficiency (Appendix D) so that it refers to Appendix G of Standard 90.1-2010, which is now a normative appendix. Appendix G of 90.1 applies to projects seeking to reduce annual energy cost more than 10% by simply meeting the requirements of that standard. Appendix D in Standard 189.1, on the other hand, provides a performance option for compliance as an alternative to the less-complex prescriptive option; it must show that the project design results in annual energy cost equal to or less than would be possible by meeting the mandatory plus prescriptive requirements of the standard, according to Stanke.

Additional changes to the 2011 standard include:

- More stringent Lighting Power Density allowances due to the change in reference to Standard 90.1-2010. Both interior and exterior values are now set as a percentage of the Standard 90.1 allowances, based on building, space or area type.
- Automatic controls are now required for lighted signs visible during daytime hours; controls must reduce the lighting power to 35 percent of full power. For other outdoor signs, automatic controls must now turn off lighting during daytime hours and reduce the lighting power to 70 percent of full power after midnight.
- Open-graded (uniformed size) aggregate and porous pavers (e.g., open-grid pavers) qualify as a hardscape surface for heat island mitigation with no further testing. Permeable pavement and permeable pavers must meet a minimum percolation rate rather than a minimum solar reflectance index (SRI).

Standard 189.1 is currently a jurisdictional compliance option in the International Green Construction Code developed by the International Code Council, ASTM International and the American Institute of Architects.


To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.
ASHRAE Announces Call for Papers for the 2013 Winter Conference, Jan. 26-30th in Dallas TX

ATLANTA – ASHRAE has announced a call for papers for its 2013 Winter Conference in Dallas, Texas, Jan. 26-30.

The Conference’s technical program will focus on core HVAC&R tracks and, with the re-branding of ASHRAE highlighting its efforts in building technology, the Conference presents timely tracks on Large Building Design and Facility Management.

The Large Building Design track seeks papers that highlight the opportunities presented to the design and construction team with “larger than life” facilities and systems throughout the world.

The Facility Management track seeks papers that address energy conservation measurement case studies; new and revived management tools, e.g. building information modeling; increased technologies for automation systems; and overall facility management with an eye toward financial management.

The Energy Conservation track seeks papers that will highlight case studies and research that expand on the simple to the complex energy savings measures being implemented in today’s and tomorrow’s designs. This track addresses how designs are using more techniques to reduce energy with the use of heat wheels and pipes, solar hot water, PV systems, higher efficient equipment and many other concepts that are pushing to be standard design practice.

The Standards, Guidelines and Codes track brings to the forefront ASHRAE’s work in standards and their intent on improving the built environment and its systems. Papers in this track seek to illustrate the changes to the standards and guidelines, their projected path and good design techniques to meet or exceed the standards.

The 2013 ASHRAE Winter Conference program includes additional tracks on HVAC&R Systems and Equipment, HVAC&R Fundamentals and Applications, Refrigeration and a Special Interest Track, which will be determined on the basis of papers and programs received.

“I am excited about the potential of the Special Interest Track developing into a mini-conference within the main Conference, covering the Industrial and Manufacturing sector that is very prevalent in Texas,” Wade Conlan, an ASHRAE member who serves as chair of the technical program for the Conference, said. “The Conference seeks to draw on the expertise from those markets to present design, construction and operational case studies and generally accepted practices to the Conference attendees.”

ASHRAE offers two types of paper submissions:

- Conference Paper Abstracts due March 19, 2012. Authors submit an abstract of the paper (400 words or less) for review by March 19. After acceptance, papers will be due July 9, 2012. 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 due April 16, 2012. 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.

To submit a Conference paper abstract and for more information about submitting a technical paper and the tracks, go to [www.ashrae.org/Dallas](http://www.ashrae.org/Dallas).

Held in conjunction with the 2013 Winter Conference is the AHR Exposition, Jan. 28-30, 2013, which is expected to attract more than 40,000 visitors and exhibitors.
My fellow ASHRAE members,

I have some exciting news to share regarding a rebranding of our great Society. For more than 100 years, ASHRAE has provided guidance for HVAC&R. As time and technology have changed, so has ASHRAE, moving from focusing solely on HVAC&R to providing guidance for total building design, reconstruction, construction and operation.

In recognition of this evolution, ASHRAE is making some changes regarding how we brand the Society. Our promise for sustainability encourages us to improve the quality in the built environment while leaving a lasting legacy for future generations. The new ASHRAE brand supports our focus on improving engineering standards and our market position as a community of engineers and related professionals united by knowledge, mission and a code of ethics to design, construct and operate better places for people to live, work and play.

First, and most visible, is a refreshing of the ASHRAE logo. Market research showed us that the logo had a dated brand presence (the logo was created in 1959 to recognize the merger between The American Society of Refrigerating Engineers and the American Society of Heating and Ventilating Engineers) and that we needed a more modern look that fully reflects the evolving structure of the Society and our aspirations. Along with this logo, we have created an [ASHRAE Logo Guide document] to ensure that we maintain a consistent brand image.

In addition, we have created a tagline to help explain to outside audiences the expanded role of ASHRAE in the world around us. “Shaping Tomorrow’s Built Environment Today” presents ASHRAE as the dynamic and innovative Society it is today and promises our members, the industry and the world that whatever the future brings in the built community, ASHRAE will be at the forefront for research and guidance.

Lastly, we are doing business as “ASHRAE” vs. using our full legal name of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. Use of ASHRAE reflects our global membership and that our services will continue evolving globally.

In addition, the rebranding coincides with a redesign of ASHRAE.org. With this redesign comes better navigation, a better search engine and better tracking, all of which will help you find the information you need whether it’s for your role in the industry or ASHRAE.

An announcement regarding the rebranding was made today at the Society’s 2012 Winter Conference being held in Chicago. We also shared an inspirational video with the audience that tells the story of ASHRAE. You can view the video [here].

Following the Conference, we will provide additional guidance and information for our grassroots regions, chapters and student branches on how this change impacts how these groups conduct business. In addition, we have created a [Frequently Asked Questions document] that provides answers to some of the questions you may have.

This is an exciting time for our Society! I look forward to working with you and our more than 52,000 members around the world to shape tomorrow’s built environment today.

Thank you.

Ron Jarnagin
2011–12 ASHRAE President