

THE HOT AIR DIFFUSER

Chapter Newsletter

JANUARY 2015

Volume 21 Issue 1



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JANUARY CHAPTER MEETING

JANUARY:

Topic: PE Requirements of the Future

This month's speaker will be Keith A. Simila, the Executive Director of the Idaho Board of Licensure of Professional Engineers and Professional Land Surveyors since June 1, 2013. Keith graduated with degrees in Civil as well as Forest Engineering from Oregon State University and passed both the FE & FS examinations in Oregon and later became licensed as a professional engineer in Idaho. He went to work for the US Forest Service upon graduation and served in various positions in Boise, Salmon and Priest River, Idaho, Washington D.C., Missoula Montana and Juneau, Alaska. He also received a Master of Administrative Management from the Regent University School of Business in Virginia Beach, VA. He is retired as the Regional Director of Engineering with the USFS Intermountain Region in Ogden, UT.

Keith has been asked to use our monthly meeting as an opportunity to educate the ASHRAE chapter membership on topics the State Board feels we should be aware of. There will be an opportunity for questions at the end.

Please Register online at:
www.idahoashrae.com

When:

Wednesday, January 14th, 2015
11:45am to 1:00pm MST

Where:

Idaho Power Building
1221 West Idaho Street
Boise, ID 83702

DECEMBER:

Topic: HP Data Center Tour

The December meeting was held at Hewlett Packard. We toured an 800 kW data center which included four custom air handlers with direct evaporative cooling.



ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

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HISTORY LESSON

JANUARY

Ten Years Ago

The chapter president was Tony Sutton. The meeting was held on January 14, 2005 at the Doubletree Riverside. Jim Sether, Melink Corporation, gave a presentation on demand ventilation for commercial cooking hoods.

Fifteen Years Ago

The chapter president was Ben Strawn. The meeting was held on January 14, 2000 at the Doubletree Riverside. The program was a 30 minute video titled “SMACNA Research Destroys Design Myths” to gain a better understanding of duct design.



PRESIDENT'S WELCOME MESSAGE

Hello All and Happy New Year,

I hope things are starting to settle down in your lives again after all the fun and excitement of the holiday season. If you were not good last year, to add insult to injury, coal prices are on the decline, sorry about that. However, now is your chance to be good again by becoming more involved in your local ASHRAE chapter. At the start of this New Year we have two great ways for you to do that. First we will be voting on our new chapter bylaws at the January meeting. So please attend and vote. The draft of the bylaws can be found on our Idaho ASHRAE website (www.idahoashrae.org) on the lower left 'Quick Link'. ASHRAE National suggest every five years that chapters update their bylaws. To make it easier for you we have supplied an excel document with the list of changes and modifications. We have made many small changes so our bylaws match the current model bylaws supplied by National. The most significant change is the addition of a new Board of Governors Chair and Committee. The Grass Roots Committee is charged with supplying the membership with the most up to date information relative to government activities relative to our industry. As such the chapter meeting this month, is about just that. We will have a talk from Keith Simila, P.E. who is the new Executive Director of the Idaho Board of Licensure of Professional Engineers and Professional Land Surveyors. Mr. Simila will be letting us know about the latest issues which involve our profession with regard to licensure.

The second great way you can get involved is to be on the Nominating Committee for next year's officers and Board of Governor members. The job of the Nominating Committee is to supply the Secretary with names of members in good standing to server as officers and Board of Governor members for next year. If you would like to be involved in this committee, please let me or another officer know.

Lastly, I would like to announce that Dan Russell, our Resource Promotions (RP) Chair, is keeping us on track by reaching 30% of our RP goal for the year. We still have a long way to go, but thanks to Dan's hard work we are in a good spot. If you have not yet given, please contact Dan and help ASHRAE continue to do important research for our industry.

Regards,

Brad Acker

President, Idaho ASHRAE



NEWS FROM THE HOME OFFICE

ASHRAE Announces Call for Paper for 2016 Winter Conference, January 23-27, Orlando

ATLANTA—ASHRAE has announced a call for papers for its 2016 Winter Conference in Orlando, Fla., Jan. 23-27.

"The 2016 ASHRAE Winter Conference will have a fresh feel with new tracks focused on design-build practices and residential systems. We'll continue our emphasis on energy efficiency and sustainability while addressing current engineering and construction practices outside of the U.S. and Canada. We're also taking one of the most attended conference program styles and making an entire track out of debates. I think we'll be offering our attendees some great programs that align well with current trends in HVAC&R engineering," Jennifer Leach, conference chair, said.

The increasing choice of **Design Build** project delivery brings the contractor and designer together on the same team. The track explores the challenges and benefits, highlights successful projects and addresses several topics, including contracts and alternative design and construction processes.

The **Modern Residential Systems Track** presents energy efficient solutions and the latest advances ranging from glazing to water heating to lighting for the residential market.

The inventive aspect of engineering is covered in the **Cutting Edge Technologies Track**, exploring the efforts to achieve net zero energy buildings. Papers and programs address recent advances in HVAC&R system design, equipment and construction techniques including the responsible use of resources and energy recovery.

With ingenuity comes the debate as to the best practices where there may be divergent methods for accomplishing the same task. **The Great Debate Track** seeks to bring a lively discussion in a point, counterpoint format on the "best" approach for a certain project. In addition, the 2016 ASHRAE Winter Conference also seeks papers addressing advances and practices across HVAC&R systems, equipment, fundamentals and applications, especially for the **International Design Track**.

ASHRAE offers two types of paper submissions:

- Conference Paper Abstracts due March 23, 2015. Upon acceptance, papers will be due July 6, 2015. 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 20, 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.
- To submit a Conference paper abstract or a technical paper and for more information about the tracks, go to www.ashrae.org/orlando.
- The 2016 Winter ASHRAE Conference takes place at the Hilton Orlando.
- Held in conjunction with the 2016 Winter Conference is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 25-27, 2016 Orlando Convention Center. The AHR Expo will attract some 60,000 professionals and the ASHRAE Conference will attract some 4,000 attendees and meeting participants.

ASHRAE Expands Scope, Renames Research Journal

ATLANTA—In recognition of the changing role of HVAC&R since it was first published 20 years ago, ASHRAE's *HVAC&R Research* has a new title, an expanded scope and an updated look. Beginning in January 2015, the journal will be known as *Science and Technology for the Built Environment*. All manuscripts in process now will be published in the journal under its new name. Learn more at www.ashrae.org/stbe.

"This new name reflects its expanded scope, which includes papers in many areas of science and technology for the built environment," Reinhard Radermacher, Journal editor, said. "In addition to traditional areas of research in HVAC&R, the Journal's papers now often cover topics that have come to be associated with the industry since the Journal was first published in 1995. These include smart buildings, thermal comfort, aircraft ventilation and automotive climate technology. *Science and Technology for the Built Environment* will offer comprehensive reporting of original research in science and technology related to the stationary and mobile built environment."

Future article topics include:

- Indoor environmental quality, occupant health, comfort and productivity
- HVAC&R and related technologies
- Thermodynamic and energy system dynamics, controls, optimization, fault detection and diagnosis, smart systems and building demand-side management
- Experiments and analysis related to material properties, underlying thermodynamics, refrigerants, fluid dynamics, airflow, and heat and mass transfer
- Renewable and traditional energy systems and related processes and concepts
-

NEWS FROM THE HOME OFFICE CONTINUED...

- Integrated built environmental system design approaches and tools
- Novel simulation approaches and algorithms and validated simulations
- Building enclosure materials, assemblies, and systems for minimizing and/or regulating space heating and cooling modes
- Review articles that critically assess existing literature and point out future research directions

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.

Addendum w is one of 10 proposed addenda to ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, open for public comment starting Dec. 5, 2014. The proposed addendum closes for review Jan. 19, 2015. To comment or learn more, visit www.ashrae.org/publicreviews.

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 condition-

ers for measuring efficiency of heat pump pool heaters

- ag limits mechanical cooling for vestibules
- ah clarifies lighting requirements

LG Merges its Appliance and HVAC Business Units

LG Electronics (LG) merged its Home Appliance and Air Conditioning & Energy Solution business units to create a consolidated LG Home Appliance & Air Solution (H&A) Company.

Seong-jin Jo, President and CEO of the LG Home Appliance Company, will assume responsibility of the newly created Home Appliance and Air Solution (H&A) Company. The merger of the HA and AE Companies will strengthen the company's ability to provide total solutions for the home based on LG's proprietary core technologies.

Other realignments within LG are designed to strengthen LG's competitiveness in the business-to-business (B2B) sector.

Hwan-yong Noh, current President and CEO of the LG Air Conditioning & Energy Solution Company, will take on the new role of B2B Officer to position LG as a leader in the commercial sector, which includes information displays, commercial air conditioning systems, and energy-related initiatives.

Executive Vice President Sang-bong Lee will lead the LG Energy Business Center, a new division created from the strengths of three existing businesses: Solar, Lighting and Energy Storage System (ESS).

Juno Cho, President of LG Corp., LG Electronics' holding company, will take on the role of President and CEO of the LG Mobile Communication Company with Dr. Jong-seok Park moving into the newly created position of Chief Technology Advisor.

Bong-suk Kwon, head of the Synergy Division of LG Corp., will be promoted to Executive Vice President and CEO of the LG Home Entertainment Company. He previously was responsible for the HE Company's monitor business.

LG's Chief Technology Officer Dr. Scott Ahn will take on the additional role of head of LG's Innovation Business Center to identify and develop new business areas based on future technologies.

Global Sales and Marketing Officer Wayne Park will assume the new title of Executive Vice President and CEO of LG's Overseas Sales and Marketing Company, which will oversee 53 of LG's sales subsidiaries world-

NEWS FROM THE HOME OFFICE CONTINUED...

Sang-gyu Choi, head of LG's Korean sales and marketing operations, has been promoted to President and CEO of Korea Sales and Marketing Company.

US Imposes Steep Tariffs on Chinese Solar Panels

By Diane Cardwell

The Commerce Department began closing a chapter in a protracted trade conflict with China over solar equipment Tuesday, approving a collection of steep tariffs on imports from China and Taiwan.

The decision, intended to close a loophole that had allowed Chinese manufacturers to avoid tariffs imposed in an earlier ruling by using cells — a major module component — made in Taiwan, found that the companies were selling products below the cost of manufacture and that the Chinese companies were benefiting from unfair subsidies from their government.

The department announced anti-dumping duties of 26.71 percent to 78.42 percent on imports of most solar panels made in China, and rates of 11.45 percent to 27.55 percent on imports of solar cells made in Taiwan. In addition, the department announced anti-subsidy duties of 27.64 percent to 49.79 percent for Chinese modules.

"These remedies come just in time to enable the domestic industry to return to conditions of fair trade," said Mukesh Dulani, president of SolarWorld Americas. "The tariffs and scope set the stage for companies to create new jobs and build or expand factories on U.S. soil."

But others in the industry were quick to criticize the ruling.

"Taxing solar trade undermines both the spirit and efficacy of pledges made by the U.S. and China to work together in the battle against global warming," Jigar Shah, president of the Coalition for Affordable Solar Energy, said in a statement. "These unnecessary taxes inhibit competition and put upward pressure on solar panel prices needed by U.S. homeowners, installers and utilities."

SolarWorld has had a string of victories since it originally filed a complaint in 2011. In 2012, the Commerce Department began imposing tariffs on Chinese imports. This year, in preliminary decisions in a second case, the department expanded the scope of the ruling to include imports from Taiwan, leading to tariffs of about 19 to 55 percent.

The most recent decision makes that ruling final, but trade officials could not immediately say what the total tariff margins would be because there is some overlap between the anti-dumping and subsidy rates.

The conflict has its roots in a flood of inexpensive Chinese solar products that pushed many American manufacturers out of business but proved a boon to developers and installers who could offer their services at greatly reduced prices.

Some solar executives and advocates argue that the low prices have helped spur wider adoption of solar energy in the United States, creating thousands of customers and jobs. Others say that expansion has come at too high a cost in employment on the manufacturing side.

As a result, the industry split over the case, a long-simmering conflict that bubbled to the surface Tuesday with executives from PetersenDean, a privately held roofing and solar company, calling for leaders at the Solar Energy Industries Association to resign because of the trade organization's opposition to the case and its ties to Chinese-owned solar companies.

Erin Clark, the company's president of solar, said in a statement that the trade association's position was in conflict with its stated purpose to keep America competitive.

"SEIA has become nothing more than a tool used by Chinese companies to try and bankrupt and destroy American solar manufacturing," he said.

The Solar Energy Industries Association did not respond to a request for comment.

American officials continue to hope for a negotiated settlement with the Chinese, but that has yet to materialize, and the trade issues are far from settled. The final determination in the original SolarWorld case, over Chinese cells, has been going through an appeal process that is not due to end until January.

The main beneficiary of the ruling is likely to be Malaysia, a Southeast Asian nation that is already the second-largest exporter of solar panels to the United States, after China and narrowly ahead of Taiwan. Western, Japanese and Korean companies are pouring investment into extensive operations there, seeing it as a stable country with a fairly low cost yet highly skilled labor force, and without China's persistent trade frictions with the West.

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ASHRAE Region IX Dinner Chicago Winter Meeting

During the Winter and Annual Meetings we typically get together as a Region for dinner one night. This has traditionally been on Monday evening due to other ASHRAE events. For this year's Winter Meeting in Chicago we are going to try and do something a little different and have the Regional Dinner on Sunday evening and it is a little later than normal. This is open to anyone in the region, so please pass this information on to the members of your chapter. This is an 11 minute walk (according to Bing) from the Palmer House. For those leaving from the Palmer House, we will meet in the lobby around 7:30pm and we will leave promptly 7:45pm.

Region IX Dinner

Date: **Sunday, January 25th**
Time: **8:00pm**
Location: Giordano's
223 W. Jackson Boulevard
Chicago, IL 60606
(312) 583-9400

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