

ASHRAE BLUEPRINT

December 2013

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PRESIDENT'S MESSAGE Rob Marshall

**Chapter Meeting: Wednesday, December 11th, 2013 @ Westward Ho
Social 11:00 AM, Lunch 11:30 AM, Program 12:00 PM**

RSVP at the link below no later than Friday, December 6th.

<https://www.surveymonkey.com/s/S5CSJZW>

ASHRAE Members and Guests,

I hope everyone had a relaxing Thanksgiving break and were able to get a good start on your holiday shopping. Based on the forecast for later this week, I think it's safe to say that winter is officially upon us! Westward Ho always does an excellent job of providing a warm and inviting lunch venue during the holiday season, so I hope you can join us on December 11th. Our guest speaker will be David Day from Ebtron. David will be presenting on Airflow Monitoring. Please see David's bio below in our CTTC section of the BluePrint.

We had an excellent turnout for our Revit seminar last month. We had 11 attendees at our 2-day event which provided 16 Professional Development Hours to each attendee. The seminar was well received by the attendees and raised over \$1,000 for our local ASHRAE Chapter. A special thank you to Jeremy Eitrem for his help with the seminar and to TSP for allowing us to use their conference room.

Another reminder that the 2014 ASHRAE AHR Expo will be in New York City at the Hilton from January 18-22nd. See the official announcement and registration information further down in the BluePrint.

Happy Holidays to all of you and your families! Please be safe during this holiday season.

Looking forward to seeing you at the Ho!

Rob

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CTTC The CTTC position is open

We are pleased to have David Day from Ebtron as our guest speaker this month. David will be speaking on Airflow Monitoring.

David has a BS degree from the University of Portland and is a member of Phi Alpha Theta (Honor Society) with over 30 plus years of experience in the HVAC and industrial steam markets. David's been a member of ASHRAE (Associate) for over 35 years. He's performed a variety of roles in the industry, as a sales engineer for both private and national temperature controls companies, manufacturer's representative and a regional sales manager for a major actuator manufacture. The last 10 years David's been the western United States and Canadian regional manager for a manufacturer of airflow measurement equipment. David's responsibilities have included, but not been limited too, presentations to local ASHRAE and NEBB meetings, and individual architectural, mechanical and contracting firms, educating the HVAC market on the benefits of airflow measurement which enhances not only building control but reduces the overall energy footprint, aids in meeting green building objective's like LEED, but can provide compliance with building codes and ASHRAE IAQ standards.

Grassroots Government Advocacy Brian Miller

Data Center Energy Efficiency Addressed by Congress at Capitol Hill Briefing

Members of Congress and industry leaders gathered together on Capitol Hill earlier this week to discuss the prescient need to improve data center energy efficiency. The focus was the Energy Efficient Government Technology Act ([H.R.540](#)), a bipartisan bill introduced by Representatives Anna Eshoo (D-CA) and Mike Rogers (R-MI) that would help make federal data centers for energy efficient by:

- Establishing performance goals for federal data centers that include overall targets, benchmarks, and specifications for energy efficiency and energy savings.
- Recommendations and best practices for how the benchmarks may be attained.
- Requiring federal agencies to develop and implement a strategy for the maintenance, purchase, and use of energy efficient and energy savings information and communications technologies and practices.
- Establishing a Government-wide Data Centers Task Force that would be charged with identifying and exchanging best practices, and working with the private sector to improve federal data center energy efficiency.

ASHRAE has informed Representative Eshoo and other leading Members of Congress of the Society's development of Standard [90.4P](#), Energy Standard for Data Centers and Telecommunications Buildings, and is exploring opportunities for either referencing the forthcoming standard in the Energy Efficient Government Technology Act or otherwise being of technical assistance as the important issue of data center energy efficiency is further considered by Congress.

National Stakeholders and Congressional Leaders Join to Celebrate & Urge Action On Energy Efficiency

Leaders in the U.S. House and Senate joined together with energy efficiency advocates earlier this week to remind Congress of the overwhelming support among federal policymakers and throughout the country for improving efficiency

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and doubling energy productivity by 2030. The event is called the Great Energy Efficiency Day (GEED), and featured presentations and inspirational talks from a number of high-level speakers, including:

- Dr. David Danielson, Assistant Secretary for the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE)
- Dr. Kathleen Hogan, Deputy Assistant Secretary for Energy Efficiency in EERE
- Senator Rob Portman (R-OH)
- Senator Jeanne Shaheen (D-NH)
- Representative Michael Burgess (R-TX)
- Representative David McKinley (R-WV)

Among the major topics discussed was the Energy Savings and Industrial Competitiveness Act ([S.1392](#)), commonly known as Shaheen-Portman. This bill is the most prominent energy efficiency measure working its way through Congress right now (additional information on Shaheen-Portman can be found [here](#)). Negotiations are ongoing regarding which amendments may be offered to the bill when it comes to the Senate floor again, which is likely to occur early next year.

GEED is an annual event organized by the Alliance to Save Energy, which represents over 150 businesses and organizations who are committed to advancing energy efficiency – including ASHRAE. For additional information on GEED and the Alliance, please visit <http://www.ase.org/events/2013-great-energy-efficiency-day>

The 2013-2014 South Dakota Chapter ASHRAE Line-up:

Sept 12	Noon	Tom Meyer – Building Water Systems – Water, Water Everywhere. Which Drop to Drink? <i>ASHRAE Distinguished Lecturer</i>
Oct 2	Evening	Eric Ollerman, Data Center Systems Jay Ries, Liebert <i>Data Center Thermal Management Student Night / Membership</i>
Nov 6	Evening	Tony Tedder, ColdStream Software <i>Revit Past Presidents Night</i>
Dec 11	Noon	David Day, Ebtron – Airflow Monitoring
Jan 8	Noon	Camfil Farr – Filtration
Feb 14 or 15	Valentines Event	
Mar 5	Evening	Scott Martin, RVC – Research Promotion Night
April 2	Evening	Refrigerants <i>Student Night</i>
May 3		<i>Fishing</i>
May 30		<i>Golf</i>

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Membership Keith Luke

If you know of anyone that may be interested in joining ASHRAE, be sure to tell them about ASHRAE and invite them to a meeting. Membership information can be found at www.ashrae.org/members/ or call Keith at 605-261-7086 with questions.

From ASHRAE HQ

ASHRAE, AHR Expo Return to New York City for 2014 Winter Conference

ATLANTA— New York City's iconic skyline serves as the perfect backdrop for the 2014 ASHRAE Winter Conference. With a special focus on the design, development and operation of tall buildings, the Conference's Technical Program examines themes relevant to NYC, as well as the basics of HVAC systems, refrigeration and many other topics significant to the building industry.

The 2014 Winter Conference takes place Jan. 18-22 at the New York Hilton. To register and for complete Conference information, visit www.ashrae.org/newyork.

The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, runs Jan. 21-23. The Expo, held at the Javits Convention Center, takes place Tuesday, Wednesday, Thursday as opposed to the traditional Monday, Tuesday, Wednesday. More information is available at www.ahrexpo.com.

More than 100 New York PDHs, AIA LUs, PDHs and LEED AP credits are available through ASHRAE Learning Institute courses and Technical Program sessions.

The Technical Program features more than 200 sessions addressing building information systems; hydronic system design; improving building performance; indoor environmental air health/IEQ; refrigeration; HVAC&R systems and equipment; and HVAC&R fundamentals and application.

Two particular tracks of note are Tall Buildings, which examines opportunities in the design, development and operation of tall and super-tall buildings, and International Design, addressing innovative design strategies to meet environmental elements, geography and cultures.

Also, choose from 23 Professional Development Seminars and Short Courses to help you stay current on HVAC trends. The ASHRAE Learning Institute offers new updates to Standards 90.1 and 62.1, in addition to 11 new courses that include Standard 55, building enclosure commissioning, electric rates and regulations, health care facilities, building energy audits and ground source heat pumps. ALI courses are approved for renewal of professional engineer and professional architect licenses, as well as for industry certification programs. For a list of all courses, visit www.ashrae.org/newyorkcourses.

Additionally, ASHRAE offers a special administration of all six certification examinations on Thursday, Jan. 23: Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Commissioning Process Management Professional (CPMP), High-Performance Building Design Professional (HBDP), Healthcare Facility Design Professional (HFDP) and Operations & Performance Management Professional (OPMP). More information on each certification can be found at www.ashrae.org/certification.

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ASHRAE Conference technical tours give you a first-hand look at technology developed by members to further the industry. Tours include the Tishman Speyer Rockefeller Center central refrigeration plant, building management system and ice storage facility; the cogeneration project at One Penn Plaza; and the cooling system of the New York Hilton, to name just a few.

The Conference's Plenary will feature Mark Sanborn, president of Sanborn & Associates, Inc., an idea lab for leadership development. In addition to his experience leading at a local and national level, Sanborn has written or co-authored eight books, and is the author of more than two dozen videos and audio training programs on leadership, change, teamwork and customer service. He has presented over 2,400 speeches and seminars in every state and a dozen countries. The Plenary takes place on Saturday, Jan. 18.

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, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today.

General Information from ASHRAE

HVAC&R Manufacturers Strongly Optimistic About Prospects for 2014

WESTPORT, Conn.—Optimism for improving economic business prospects in the HVAC&R industry continues to grow, according to a recent ASHRAE Journal/AHR Expo survey sent to more than 1,000 HVAC&R manufacturers worldwide. Nearly 80% of the respondents said their prospects for business were either "excellent" (19%) or "good" (60%) for the coming year. The remaining 21% felt prospects were "fair." No one responding to this year's survey felt economic prospects would worsen in 2014. In keeping with the positive outlook for next year, 90% of the HVAC&R manufacturers said they believe sales will increase, with 32% expecting sales increases of more than 10%. Thirty-one percent forecast sales increases between 5% and 10%, and 27% expect increases of less than 5%. Ten percent believe sales will remain the same, while no one predicted sales will decrease. "Hospitals/Health Care" is the market segment cited by the most respondents as the most promising for 2014.

LEED v4 Officially Launches

PHILADELPHIA—LEED v4, the newest version of the LEED green building program, launched Nov. 20 at the annual Greenbuild International Conference and Expo. LEED v4 features new market sector adaptations for LEED, including data centers, warehouses and distribution centers, hospitality, existing schools, existing retail and mid-rise residential projects. It also includes new impact categories: climate change, human health, water resources, biodiversity, green economy, community and natural resources. More than 120 beta projects around the world are already using LEED v4.

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in New York, NY

2 WAYS TO REGISTER

Internet: www.ashrae.org/newyorkcourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

Commercial Building Energy Audits **NEW!**

Saturday, Jan 18 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design & Applications

Saturday, Jan 18 – 8:00 a.m. to 3:00 p.m.

Significant Changes to Standard 90.1-2010 and IECC-2012 **NEW!**

Tuesday, Jan 21 – 9:00 a.m. to 4:00 p.m.

Energy Modeling Best Practices and Applications

Tuesday, Jan 21 – 9:00 a.m. to 4:00 p.m.

Effective Energy Management in New and Existing Buildings

Wednesday, Jan 22 – 9:00 a.m. to 4:00 p.m.

Operations and Maintenance of High-Performance Buildings

Thursday, Jan 23 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2013 **NEW!**

Thursday, Jan 23 – 8:00 a.m. to 3:00 p.m.

Introduction to Building Enclosure Commissioning **NEW!**

Thursday, Jan 23 – 8:00 a.m. to 3:00 p.m.

Half-Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Electric Rates, Rules and Regulations **NEW!**

Saturday, Jan 18 – 12:00 p.m. to 3:00 p.m.

Laboratory Design: The Basics and Beyond

Sunday, Jan 19 – 2:00 p.m. to 5:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Sunday, Jan 19 – 2:00 p.m. to 5:00 p.m.

Mathematical Optimization Techniques and their Applications: to HVAC&R Systems and Components

Sunday, Jan 19 – 2:00 p.m. to 5:00 p.m.

Combined Heat & Power: Design through Operations

Monday, Jan 20 – 8:30 a.m. to 11:30 a.m.

High-Performance Building Design: Applications and Future Trends

Monday, Jan 20 – 8:30 a.m. to 11:30 a.m.

IAQ Best Practices for Design, Construction and Commissioning **NEW!**

Monday, Jan 20 – 8:30 a.m. to 11:30 a.m.

Commissioning for High-Performance Buildings

Monday, Jan 20 – 2:45 p.m. to 5:45 p.m.

Designing High-Performance Healthcare Facilities **NEW!**

Monday, Jan 20 – 2:45 p.m. to 5:45 p.m.

Exceeding Standard 90.1-2013 to Meet LEED® Requirements **NEW!**

Monday, Jan 20 – 2:45 p.m. to 5:45 p.m.

Data Center Energy Efficiency

Tuesday, Jan 21 – 1:00 p.m. to 4:00 p.m.

Fundamentals and Applications of Standard 55 **NEW!**

Tuesday, Jan 21 – 1:00 p.m. to 4:00 p.m.

Design of Commercial Ground Source Heat Pumps **NEW!**

Tuesday, Jan 21 – 1:00 p.m. to 4:00 p.m.

Applications of Standard 62.1-2013: Multiple Spaces Equations and Spreadsheets **NEW!**

Wednesday, Jan 22 – 9:00 a.m. to 12:00 p.m.

Troubleshooting Humidity Control Problems

Wednesday, Jan 22 – 1:00 p.m. to 4:00 p.m.

HVAC Design Training

March 17 – 19, 2014 --- Level I - Essentials --- Atlanta, GA and Toronto, Canada

March 20 – 21, 2014 --- Level II - Applications --- Atlanta, GA

HVAC Design: Level I – Essentials - Registration is \$1,239, \$989 (ASHRAE Member)

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$829, \$679 (ASHRAE Member)

In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, and 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register

ASHRAE Certification Programs

Receive the recognition you deserve by earning an ASHRAE Certification at the 2014 ASHRAE Winter Conference and AHR Expo.

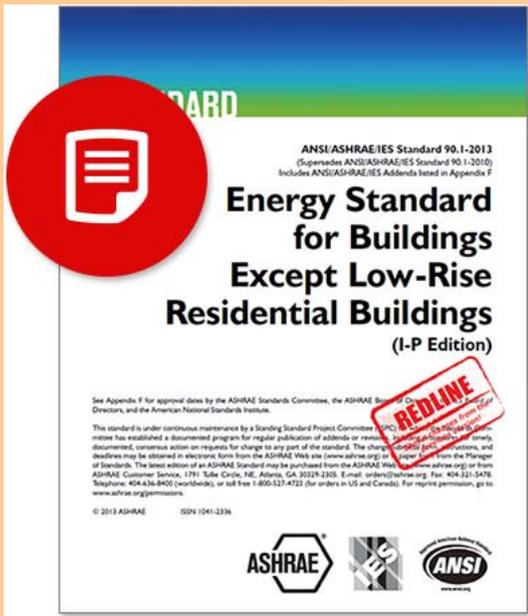
Take advantage of ASHRAE's special administration of the certification examinations on January 23, 2014. All exams will begin at 9:00 a.m. (candidates must report to the testing room at 8:30 a.m.). These exams are being offered in conjunction with the 2014 ASHRAE Winter Conference and AHR Expo in New York City. Refresh your knowledge in preparation of earning an ASHRAE certification with learning opportunities at the show and conference.



For more information, visit www.ashrae.org/NYCExams

Hot Products from ASHRAE

Latest Edition of Standard 90.1 Now Available as a Redline



Priced from \$135 (Members Pay \$115)
Available now in I-P or SI units

Use the redline to instantly identify updates in the 2013 revision of Standard 90.1.

This expanded document compares the 2013 edition to 2010, ensuring you know exactly what changes have been made from one edition to the next.

It's an indispensable reference for engineers and other professionals involved in the design of buildings and building systems. Select the redline upgrade in print or digital format to receive two documents; the clean, active version of the standard and the redline version.

About Standard 90.1-2013: *Energy Standard for Buildings Except Low-Rise Residential Buildings (ANSI approved; IES co-sponsored)*

provides the minimum requirements for energy-efficient design of most buildings. Learn more

About Redlines: A redline document is a quick, easy way to compare all the changes between the active standard and the previous version. Redlines allow users to instantly identify additions, deletions, and other formatting and content changes. Learn more

Visit www.ashrae.org/bookstore to learn more about this and other outstanding ASHRAE publications!