

FOG DISPENSER



January 2013 LUNCH MEETING

MAIN PROGRAM: INTRODUCTION TO SIMERGY, THE NEW INTERFACE FOR ENERGYPLUS

SPEAKER: PHILIP HAVES, FELLOW ASHRAE



Philip Haves is the Leader of the Simulation Research Group in the Building Technologies and Urban Systems Department at Lawrence Berkeley National Laboratory. He has worked on many different aspects of commercial buildings since 1986, with particular interest in simulation and building operations. He is a Fellow of ASHRAE, a member of ASHRAE's Research Administration Committee and a former chair of its Technical Committees on Energy Calculations and on Building Operation Dynamics. He is a Fellow

of the International Building Performance Simulation Association (IBPSA) and a past president of IBPSA-USA. He has a B.A. in Physics from Oxford University and a Ph.D. in Radio Astronomy from Manchester University. A major current activity is leading the public/private partnership to develop Simergy, a practitioner-oriented graphical user interface for the EnergyPlus building simulation program

PRESENTATION SUMMARY

The presentation will start with a brief overview of EnergyPlus, including the reasons for its adoption by the California Energy Commission as the new reference model for

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**THURSDAY, JANUARY 10,
(11:30 PM TO 1:30 PM)**

**PEC, 851 HOWARD STREET,
SAN FRANCISCO**

AGENDA:

- 11:30 am**
Registration and Social Hour
- 12:00 pm**
Lunch with announcements and introductions
- 12:30 pm**
Main Program
- 1:30 pm**
Adjourn

COST:

**GG ASHRAE Members,
please register**

Before 3 pm, Mon. 1/7	\$40
After 3 pm, Mon. 1/7	\$50

**Non-Members,
please register**

Before 3 pm, Mon. 1/7	\$50
After 3 pm, Mon. 1/7	\$55

Students/Voucher Holder
Free, but please register

**GOLDEN GATE ASHRAE
FOG DISPENSER
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JANUARY 2013 COVER**

JANUARY LUNCH MEETING

Title 24 in place of DOE-2. It will then describe the process of designing the Simergy interface for EnergyPlus, summarize its main features and explain the work flows for different stages of design. There will then be a short demonstration of Simergy and a description of the current beta-testing program. The presentation will conclude with a discussion of the further developments planned for Simergy, including real-time support for building operations.

2012-2013 EVENT CALENDAR:

- **THURSDAY, JAN. 10** **11:30am – 1:30 pm**
LOCATION: PEC, 851 Howard Street, San Francisco
TOPIC: Introduction to Simergy, the new interface for EnergyPlus
SPEAKERS: Philip Haves, Fellow ASHRAE

- **THURSDAY, FEB. 14** **5:30 pm - 8:45 pm**
LOCATION: Scott's Seafood, Jack London Square, Oakland
TOPIC: Air Change Effectiveness in Laboratory Tests of Combined Chilled Ceiling and Displacement Ventilation
SPEAKERS: Fred Bauman, CBE; Stefano Schiavon, CBE; Julian Rimmer, Price Industries

- **THURSDAY, MARCH 14** **5:30 pm – 9:00 pm**
LOCATION, TOPIC, SPEAKERS: TBD

- **THURSDAY, APRIL 11** **5:30 PM - 8:45 PM**
LOCATION: Scott's Seafood Jack London Square, Oakland
TOPIC: Geothermal design – case studies
SPEAKERS: Marco Alves, PAE Consulting Engineers

- **APRIL 2013 TOUR ALL TBD**

- **THURSDAY, MAY 9** **5:30 PM - 9:00 PM**
LOCATION: PG&E Pacific Energy Center, 851 Howard Street, San Francisco
TOPIC: Awards and Product Show
SPEAKERS: Award Winners and Scholarship Recipients

- **THURSDAY, JUNE 13** **5:30 PM - 9:00 PM**
LOCATION: Scott's Seafood, Jack London Square, Oakland
TOPIC, SPEAKERS: TBD

TBD = To Be Determined. Visit www.ggashrae.org/calendr.htm for updates, presentation summaries, speaker biographies and to register for the meetings.

Dear Golden Gate ASHRAE members and friends,

As I write my "January" message it is not yet "New Year's", and with the holiday season in full swing my thoughts are on everyone's busy preparations and errands to fulfill what I hope is a wonderful time of year for all! Hopefully you are able to take a break, pause and enjoy it.

On December 13th we had our joint meeting with the San Jose Chapter and learned that saving energy using dual maximum control sequences with low minimum flow VAV set points can also provide improved comfort! During the meeting Mr. Gwelen Paliaga and Dr. Hui Zhang presented their very interesting findings. This kind of knowledge, when shared with others, represents the true value of our Society by advancing our understanding of the real impact of our work as engineers. I would like to thank Isabelle Lavedrine and Mike Cleary for arranging this informative evening for all us. If you were not able to attend I suggest that you obtain a copy of the presentation for your reference and learning.

With January 1st just around the corner it will soon be time to begin anew, and resolve to accomplish and complete a goal. Setting personal and professional goals is an important decision that one makes. I suggest that this year you challenge yourself, stretch yourself, and choose something big!!

As the Golden Gate Chapter of ASHRAE we also have goals: membership goals, research promotion goals and scholarship goals to name just a few. We need you to get involved, come to a meeting and reach out to a board member, and help us reach our goals now and in the future. There are many ways to contribute so please remember to renew your membership this coming year in ASHRAE.

Please join us January 10th for our lunch meeting at the Pacific Energy Center, San Francisco, for a presentation on **"Introduction to Simergy--The New Interface for EnergyPlus"** to be presented by Mr. Philip Haves, ASHRAE Fellow. I look forward to seeing you there.

Enjoy the holidays and see you soon,

Respectfully Yours,

Thomas S. Weaver, P.E.



January 2013

ASHRAE Golden Gate Chapter receives 75-Year Certificate!!

Tom Gilbertson, Chapter Historian

"ASHRAE"...Golden Gate Chapter!---75 years old...Lets see ...what was going on in 1937 when the fledging chapter was formed?

Golden Gate Bridge opens...

U.S. Minimum Wage Act is passed...and unless you are exempt.....
one MUST be paid \$0.25 per hour...

"The Hobbit" is written...

Amelia Erhart is lost!...

Air-conditioning sales for the entire Country reach \$30-million!..



NOW WHAT'S HAPPENING 75-YEARS LATER?

New Bay Bridge soon to open...

Minimum wage...in San Francisco is \$10.00 per hour...

The movie "Hobbit" is released...

Amelia Erhart is found!...

Individual air-conditioning jobs can reach \$30-million!...

Not much changes...except for the changes in prices...maybe history does repeat itself?...But maybe this is not true?

Think about it...in 1937 the entire Nation only spend \$30-million in total for air-conditioning!...

Clearly our industry has been a genuine growth industry and has spawned tremendous opportunities for those in the industry... and the industry has delivered an improved quality of life for more people than any other collection of technology!

Another area of unimaginable growth has been the proliferation of codes and standards...Look at the volumes that comprise the State of California Building Code Matrix...These codes and standards seek to legislate performance standards, and drive the designer to meet these new "standards"...I wonder if in 75-years someone will look back and see what drove our industry...and if it will have made a difference?...as of now we seem to be imagining that massive changes in energy consumption will be legislated by the proliferation of the building codes and standards...certainly we are moving at a faster rate of "knowledge introduction"...but maybe the best way to reduce energy consumption is to just raise the price of energy?...

75-years is a nice "window" to observe our industry...from a relatively humble beginning...to almost the center piece of activity that saves energy for the Nation...a great 75-year run to have enjoyed....

Congratulations Golden Gate Chapter on 75-years of involvement in the most enabling industry that the Nation has!

**David Blindheim, ASHRAE Golden Gate CTT
Committee Chair**

If you like to assist the chapter and get involved with ASHRAE, the Chapter Technology Transfer Committee is one of the best places and we could use your help. Talk to a board member or contact David Blindheim at dblindheim@integralgroup.com.

MARBLE DRAW



There was no marble draw at the December joint meeting with San Jose, so the odds of winning are still 1 in 9.

We are always looking for sponsors for our meetings. Please contact us if you are interested in sponsoring the prizes for future meetings. If your company donates prizes, your company's logo will display on a slideshow during the non-speaker portions of the meeting. You'll also know that your firm helped to fund ASHRAE research and scholarships!

**Please contact Christine Lee for more details:
Christine.Lee@arup.com – 415.957.9445**

ANNOUNCEMENTS

Job Posting:

WSP Flack + Kurtz seeks HVAC Engineers in San Francisco – multiple openings

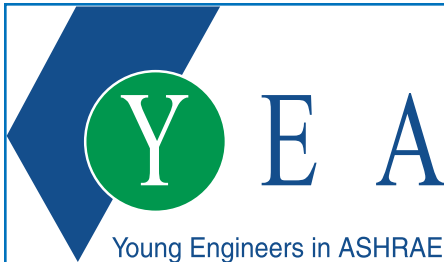
WSP Flack+Kurtz works with architects and owners from around the world on large, complex projects focusing on sustainability, energy performance and innovative design.

About the Job

Our Engineers work on high quality, high-profile, national and international projects. You will actively participate in the full project cycle, from the design phase through the final construction close-out, and assist in Project Management and Client Care. WSP Flack + Kurtz offers excellent growth opportunities.

Requirements

Successful candidate should have BS in HVAC engineering, 5+ years experience, excellent communication and technical skills. Salary and benefits BOE. Visit www.wspfk.com for more information. Apply to careers@wspfk.com



<http://ggyea.org>

YEA promotes young ASHRAE members to engage in the local chapter and to get everyone excited about our industry. If you are interested in joining our committees monthly discussion, please contact Michelle Dionello at michelle.dionello@arup.com.

Also, please make sure to check out our new facebook page at: www.facebook.com/YEAGoldengate and our Golden Gate YEA website where we showcase past and upcoming events: www.ggyea.org

Next Event- Joined GG SJ YEA HVAC Controls 101

Introduction to HVAC Controls Seminar

DATE: January 17, 2012 (Thursday)

TIME: 5:30pm- 7:00pm

PLACE: Siemens Industry, Inc.
25821 Industrial Blvd, Suite 300
Hayward, CA 94545



***Appetizers and drinks provided

BMS, DDC, EMS or "the box on the wall"...whatever you want to call it, HVAC controls are evolving quickly. There is an increasing demand for precision of control, complex algorithms, and storage of data. But what is all this needed for? And how is it accomplished?

Please join the Young Engineers of ASHRAE (YEA) for an introduction to HVAC controls. You will receive AIA credit for attending!

- *Learn about the basics of Building Automation Systems*
- *Understand the concept of a BAS Point*
- *Be able to identify various components*
- *How the components and controllers form a BAS control system*

Please RSVP via email to Elliot Tham elliott.tham@siemens.com or Kevin Manhen kevin.manhen@arup.com by 1/15/13.

Also, a friendly reminder that the NCEES registration for the April 2013 California PE Exam has opened on Dec 17, 2012.



Past Event - YEA PE Study Session:

The YEA PE Study Session took place on Nov 29, 2012 at Arup's office in San Francisco. Thanks to past YEA PE takers Kyle Adams and Warren Seto for sharing their experience, study tips and things to expect on the day of the exam. Seven future YEA PE takers attended this PE Study Session where Milk, Wine and Cookies were served.

Thanks to the ASHRAE society for all the YEA mugs.

Continued on next page

Past Event - YEA Ugly Sweater Pub Crawl:

YEA members were able to meet on Wednesday Dec 19, 2012, right before the holidays on Polk Street and celebrate the end of a great YEA year full of events.

The YEA group started at Vertigo, moved on to McTeagues, Playland, Big Foot Lodge, Kozy Kar.



MEMBERSHIP PROMOTION

Erica Stewart, Membership Promotion Chair

Remember that January is your second chance to get a free meal: if you bring a non-member to dinner and they join Society and the Chapter by the close of business, Friday, January 11, 2013, you will get your next meeting on us!

Please join me in welcoming all the following new members:

AFFILIATE:

Mr. Dennis Livchak

ASSOCIATE:

Mr. Branko Bogicevic

Mr. Jason Lesser

Mr. Avram Pearlman

MEMBER:

Mr. Michael Heath

STUDENT:

Mr. William Stober

Mr. David Vu

Mr. Aaron Zorndorf

And to congratulate **Glen Leggoe** in advancing to full Member.

To become a member of the Golden Gate Chapter you must first be a Society member (www.ashrae.org/membership/page/589). If you are currently a member of Society and wish to join the Chapter, you can synchronize your renewal dates by paying pro-rated Chapter dues. Society membership is \$190 for Affiliates, Associates and Members and \$20 for students; Chapter membership is \$50 for Affiliates, Associates and Members and \$20 for students. Full time students dine free all year and Student Transfer membership allows you to maintain a reduced membership for the two years following graduation. Contact me for more information (erica.stewart@kp.org).

MEMBERSHIP ADVANCEMENT

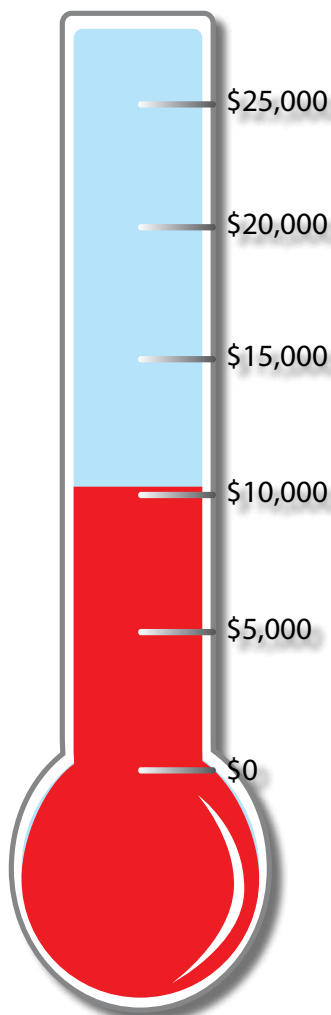
If you are an Associate member, becoming a full member may be easier than you think. The following count toward the 12 points necessary to advance to full Member status. You must update your biography on the Society web site and email membership@ashrae.org to advance.

Non-accredited degree = 4 points

Accredited degree = 6 points

P.E. = 3 points

Every year working in industry = 1 point



Following individuals and companies have generously supported ASHRAE Research and the Golden Gate Chapter for the 2012-13 Campaign.

Your contributions are much appreciated. Thank you for making a difference and shaping tomorrow's built environment.

ORGANIZATIONS

\$1000 & Over

Golden Gate ASHRAE Chapter
PG&E (Pacific Gas and Electric Company)
SOM (Skidmore, Owings & Merrill LLP)

\$250 to \$999

Acutherm
AEI – Affiliated Engineers
DMG North
Dadanco
Ideate
Taylor Engineering
Trane
Trox

INDIVIDUALS

\$1000 & Over

Glenn Friedman

\$250 to \$999

Hormoz Janssens
David Nazzaro
Gurdaver Singh
Steve Taylor

Up to \$249

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Cliff Blythe
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Glen Leggoe
Mon Lum
Wasil Popow
Matt Russell
Max Sherman
Benjamin Sun
Dennis Thompson
Scott Wayland
Tom Weaver
Michelle Whatsitt
Matthew Williamson
Yin Yin Wu

Donations are tax deductible, by check, credit card or online at www.ashrae.org/contribute

For more information, please contact Zberri Alvi 510-346-7755, zalvi@dmgn.com

***Our goal for this year is to raise \$24K for ASHRAE Research and
\$310 for Lynn Bellenger Scholarship Endowment***

Goal: \$24,310

Contributions: \$10,056

Society regularly sends out press releases to anyone who has signed up. Some releases have been reprinted here for our readers' pleasure. For a complete listing of press releases, or for more information, please visit <http://www.ashrae.org/news/2012>.

Press Release Contact: Jodi Scott
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678-539-1140
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Roll Call: ASHRAE Responds 'Present' in STEM Education Efforts

The United States produces approximately 74,000 engineers a year, a number that has remained essentially flat for the past two decades. With the impending retirement of the Baby Boomer generation, an anticipated shortage of engineers will affect virtually every aspect of our environment, society and lifestyle. ASHRAE is increasing its efforts in expressing the importance of science, technology, engineering and math (STEM) education – most notably, in the area of public policy.

To accomplish this, ASHRAE has joined the STEM Education Coalition. The Coalition works to inform federal, state and local policymakers on the critical role that STEM education plays in keeping the U.S. competitive in the global marketplace, as well as in guaranteeing future economic prosperity. The Coalition advocates for policies that will improve STEM education and provide greater access to STEM programs. As members of the Coalition's Leadership Council, ASHRAE will work with other member organizations to advance the Coalition's policy aims through direct advocacy and grassroots education efforts.

"I took an interest in engineering when I was very young, and my science and math classes in school only fueled that curiosity," Tom Watson, ASHRAE president, said. "Working with the STEM Education Coalition demonstrates ASHRAE's commitment to education, and we are eager to be a part of high-level discussions and collaboration to promote such important educational topics."

ASHRAE hopes to unite its grassroots efforts with other organizations of the coalition that have similar goals at the state and local level. For example, ASHRAE encourages policymakers to implement the following recommendations:

- *Increase federally funded research to improve teaching and learning of STEM concepts and critical thinking skills.*
- *Recruit, train and retain qualified STEM teachers through the development of programs recognizing educators who excel in STEM education, and incentives that encourage the best and brightest scientists and engineers to teach.*
- *Foster partnerships among educational institutions, industry, and non-profit organizations and their members.*
- *Encourage the adoption of curriculum standards that cultivate high student performance; the development of curricula that foster creativity, experiential problem solving and critical thinking; and the development of assessments aligned with these standards and curricula.*
- *Create opportunities and incentives for women and minorities to pursue STEM coursework and careers.*

ASHRAE also provides resources for its members to reach out to schools and students to promote STEM education. An online resource guide for kindergarten through 12th grade is available at www.ashrae.org/ashraek12. The site includes suggested classroom projects, career videos from the Society and materials for teacher use.

Proposals to Keep Water from "Going Down the Drain" Made for Green Building Standard

Measures to improve water efficiency, including limitations on full-flush volume for toilets and use of municipal reclaimed water for irrigation, are being proposed for a green building standard.

ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, provides a design standard for those who strive for high performance buildings. It covers key topical areas of site sustainability, water-use efficiency, energy efficiency, indoor environmental quality and the building's impact on the atmosphere, materials and resources.

The changes regarding water are proposed via addendum v, which is open for public review from Nov. 30-Jan 14, 2013. To comment on the proposed changes or for more information, visit www.ashrae.org/publicreviews.

[To read the rest of this press release, please visit <http://www.ashrae.org/news/2012>.]

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Standard for High Performance Green Health Care Facilities Open for Public Review

A prescription for the design, construction and operation of high performance health care facilities would be provided through a proposed standard from ASHRAE and the American Society for Healthcare Engineering (ASHE).

ASHRAE/ASHE Standard 189.3P, Standard for the Design, Construction and Operation of Sustainable High-Performance Health Care Facilities is open for public comment from Dec. 7, 2012-Jan. 21, 2013. Visit www.ashrae.org/publicreviews for more information.

"Healthcare facilities are often the largest and most energy intensive buildings in a community," Standard 189.3 committee chair Michael Sheerin said. "In today's competitive and regulated market, these facilities are challenged to provide capital for increasingly complex new buildings that meet sustainability objectives as they experience decreasing finances for life-sustaining services. In addition, health care facilities are home to services that require energy use for patient safety."

Proposed Standard 189.3 would help facilities in meeting those multiple needs by providing the procedures, methods and documentation requirements for the design, construction and operation of high performance sustainable health care buildings. It would apply to patient care areas and related support areas within health care facilities, including hospitals, nursing homes and licensed outpatient facilities.

The standard covers key topical areas of site sustainability, water use efficiency, energy efficiency, indoor environmental quality and the building's impact on the atmosphere, materials and resources. Additionally the standard has a special section to address the emissions, effluents and pollution that is commonly discharged from these facilities.

Proposed Standard 189.3 provides guidance to achieve improved energy efficiency for the selection of materials and furnishings and for utilizing green facility operating processes.

The standard builds upon the guidance for creating high performance buildings addressed in a parallel standard, ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, while accommodating the unique factors that impact health care facilities.

Specific ventilation requirements for health care facilities are addressed in ANSI/ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities.

Chiller Efficiency Improvements Proposed for Standard 90.1

Chiller efficiencies for air and water cooled chillers would be boosted to more than 20 percent under a proposed addendum to the ASHRAE/IES energy standard.

Proposed addendum ch to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, changes the requirements for air and water cooled chillers as defined in section 6.4.2.1 and the efficiency requirements listed in table 6.8.1C. This change is a continuation of the efficiency improvements that were implemented in 2010 by further improving the efficiency requirements, according to Dick Lord, a member of the committee who developed the proposal through a working team of the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) chiller section.

Addendum ch is open for public review from Nov. 30, 2012-Jan. 14, 2013. For more information, visit www.ashrae.org/publicreviews.

In 2010, a Path B was added to the standard for part load intensive water cooled chillers. Proposed addendum ch would expand Path B by adding requirements to include air cooled chillers. Also as part of this change, efforts were made to bring the efficiency requirements for water cooled positive displacement and centrifugal chillers together while considering the available technology, and to chillers to be applied at other application conditions where one technology may better suited than the other. If approved, the new efficiency requirements would go into effect on Jan. 1, 2015.

The proposed efficiency requirements in addendum ch increase annual energy savings to 23.1 percent vs. Standard 90.1-2004 and 8.3 percent vs. Standard 90.1-2010. In 2010, the overall weighted average savings resulted in a 16.2 percent improvement in chiller annualized energy use vs. Standard 90.1-2004.

Lord noted the average payback was calculated at 6.3 years, given some units that exceed the scalar limits. Chiller manufacturers are aware of this and know that redesign and cost reduction will be required, but do support the proposal, he said. Lord also noted that we are reaching maximum technological limits at a component level and that in the future the industry will have to look at the full HVAC system for further improvements. AHRI is in the process of forming a new working group to address systems approaches for efficiency improvements and will work closely with Standard 90.1.

[To read the rest of this press release, please visit <http://www.ashrae.org/news/2012>.]

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Is Moisture an Unwanted Occupant In your Building?

No designer wants to see the unwelcome guests of mold and mildew show up in their building. Guidance on how to prevent moisture that causes their appearance is offered in several sessions at ASHRAE's 2013 Winter Conference in Dallas.

"Sooner or later, HVAC professionals throughout Texas and the Gulf Coast come up against the problem of preventing or getting rid of mold," Lew Harriman, a speaker at the Conference and author of ASHRAE's ASHRAE Guide for Buildings in Hot and Humid Climates, said. "In June 2012, the ASHRAE Board of Directors approved a totally revised and updated Position Document on Indoor Mold and Dampness in Buildings. The Dallas Conference includes a comprehensive briefing on what ASHRAE experts have found to be the HVAC-related causes of mold in buildings, and what owners, contractors and designers can do to prevent the problem."

The 2013 Winter Conference takes place Jan. 26-30 at the Sheraton Dallas. To register and for complete Conference information, visit www.ashrae.org/dallas. The International Air-Conditioning, Heating, Refrigerating Expo, held in conjunction with the Winter Conference, will run Jan. 28-30. The Expo, www.ahrexpo.com, is held at the Dallas Convention Center.

The technical program features more than 200 sessions addressing energy conservation; facility management: operations, technology and energy improvements; large building design; standards, guidelines and codes; HVAC&R systems and equipment; HVAC&R fundamentals and applications; and refrigeration. The full Technical Program offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits and runs Jan. 27-30.

[To read the rest of this press release, please visit <http://www.ashrae.org/news/2012>.]

Rep. Peter Welch New Co-Lead for High-Performance Buildings Congressional Caucus

High-performance buildings help create local jobs, while lowering overall costs and enhancing their communities. In recognition of the critical need to improve our nation's public and private buildings, where people spend about 90 percent of their time, U.S. Representative Peter Welch (D-VT) has taken up the important task of co-leading the High-Performance Buildings Congressional Caucus.

Formed in 2008, the Caucus heightens awareness among federal policymakers about the major impacts that buildings have on the health, safety and welfare of the general public, and the opportunities to design, construct and operate buildings addressing these factors.

Specifically, the Caucus focuses on the eight aspects of high-performance buildings outlined in the Energy Independence and Security Act of 2007:

- *Accessibility*
- *Aesthetics*
- *Cost-Effectiveness*
- *Functionality*
- *Historic Preservation*
- *Productivity*
- *Safety and Security*
- *Sustainability*

"This Caucus is about finding practical ways to make progress in Washington," Welch said. "Despite the heated political rhetoric, common ground does exist. For example, while there are big differences on energy policy, everyone agrees that using less energy is a good thing. So why not work together make homes and buildings more energy efficient? It's simply common sense. This Caucus will help identify more areas where we can work together, and I am pleased to serve as its co-chair."

"The Coalition is delighted with Welch's new leadership role as the Democratic Co-Chair of the Caucus," Doug Read, chair of the Caucus Coalition, said. "His leadership over the years on building energy efficiency and sustainability has resulted in the introduction and passage of several key bills in Congress. The Coalition looks forward to working with him and the rest of the Caucus to continue educating members of Congress on the importance of high-performance buildings issues."

The Caucus is supported by the High-Performance Building Congressional Caucus Coalition (www.hpbccc.org), a broad-based group of over 160 technical societies, associations, and businesses. Since 2008, the Coalition has held over 40 briefings on Capitol Hill to help educate policymakers and bridge the gap between the often highly technical and highly political worlds inhabited by the building community and Congress.

DECEMBER DINNER MEETING PHOTOS



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ADVERTISING RATES:

• One time rate: \$25 • 4-month rate: \$90 (\$22.50/mo.) • Yearly Rate (9 issues): \$150 (\$16.67/mo.)

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