

THE HOT AIR DIFFUSER

Idaho ASHRAE Chapter Newsletter

OCTOBER 2011

Volume 18 Issue 2



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OCTOBER PROGRAM*

This month's chapter meeting will be a tour of the Idaho State Capitol Building. Following a \$120M renovation completed in January 2010, the Capitol Building now features an upgraded HVAC system, new fire alarm and fire protection systems, new wireless building management system, historic renovation of the interior and exterior of the building, and the addition of two underground wings. Idaho has the nation's only capitol building heated by geothermal water.

When: WEDNESDAY, Oct. 12
(11:45AM-1:00PM)

Where: THE STATE CAPITOL
700 W. Jefferson
Boise, Idaho

***Please RSVP at www.idahoashrae.com**

PRESIDENT'S MESSAGE

The President's message will be delivered in a separate e-mail this month.

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ATTENTION: ASHRAE MEMBERS

The Chapter is now accepting advertisements in the monthly newsletter.

Sponsorship Rates are as follows:

	Per Issue	Annual (9 issues)
★ Business Card	\$10.00	\$50.00
★ Quarter Page	\$25.00	\$200.00
★ Half Page	\$40.00	\$325.00
★ Full Page	\$60.00	\$450.00

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.

IMPORTANT DATES

OCT. 12, 2011—ASHRAE MONTHLY MEETING

NOV. 9, 2011—ASHRAE MONTHLY MEETING

DEC. 14, 2011—ASHRAE MONTHLY MEETING

JANUARY 11, 2012—ASHRAE MONTHLY MEETING

RESEARCH PROMOTION

Last year the Idaho Chapter was blessed by the generosity of its members. With your help, we reached a level that has never been seen before (or at least in the last 10 years for sure!) in support of ASHRAE Research. We finished the campaign with in \$11,390 in donations!! That was 137% of our goal, so way to go all! Please join me in thanking the following companies for their generous support: NEC, Idaho Power, Tikker Engineering, Building Systems Technologies, Midgley-Huber, Northwest Energy Efficiency Alliance, Felts House Engineering, Musgrove Engineering, RoBar Technical Services, ATS Inland Northwest, DeBest Plumbing & Mechanical, YMC, Technical Air Products, Cloverdale Plumbing, CTA, Engineering Inc, Intermountain Gas, MircoMetl, Paige Mechanical, Robertson's LLC, Atkinson Electronics, Drake Plumbing & Heating, Kartchner Engineering, Northwest Service Technologies, Sabol & Rice, FM Sheet Metal and Columbia Hydronics. The individuals contributing are as follows: Andrew Beall, Dean McKellip, Cory Law, Dennis Fox, Carl Marcum, Laura Rasmussen, Scott Mackay, Jeff Robenstein, Ben Kohler, Henry Bauer, Spencer Shepard, Bruce Cleveland, Sam Parkins and Randy Reed.

As in years past, the recognition certificates are being prepared for distribution at the November meeting. It is my privilege to present these items to you. If you have not received your coin from last year or your coin holder is full, please let me know and I will help you out.

Lastly, we already have a growing list of donors for this year's campaign. Northwest Service Technologies and Cory Law have taken the initiative to get their names on the list early this year. Thank you very much! Remember that you can make your donation 24 hours a day online at www.ashrae.org/contribute with your credit or debit card, or call me and I will do whatever I can to facilitate your donation. Thanks again to everyone who has given so generously to further the mission of ASHRAE! Your gift is very much appreciated. I look forward to seeing you all at the monthly meeting!

Scott Mackay

Idaho ASHRAE Research Promotion Chair

HISTORY LESSON

Five Years Ago

The chapter president was Arden Davis. The meeting was held on Friday, October 13, 2006, at the Idaho Power Building. Max Black, Ada County's State Representative, gave a presentation on the approval and implementation of the 2006 International Building Code in Idaho.

Ten Years Ago

The chapter president was Greg Hobbs. The meeting was held on Friday, October 12, 2001, at St. Luke's Meridian Medical Center. The meeting was followed by a tour of the new St. Luke's Hospital.

Fifteen Years Ago

The chapter president was Chuck Keene. The meeting was held on Friday, October 11, 1996, at the Red Lion Riverside. Steven Affleck, Chairman of the Boise State University Engineering Department, presented an update on the Engineering Advisory Board, the revised and new engineering curriculum, the new engineering faculty, and the laboratory and classroom facilities.

Twenty Years Ago

The chapter president was Ken Tewksbury. The meeting was held on Friday, October 11, 1991. Terry O'Rouark, Chairman of the Warm Springs Water District, talked about the history of the Warm Springs Water District and discussed studies underway to determine how much water there really is, where it comes from, and what limitations might lie ahead.

Twenty Five Years Ago

The chapter president was Adrian Fannin. The meeting was held on Friday, October 10, 1986, at the Kings Table Restaurant. Larry Kissler, President, Norco, and Idaho Chairman for the 100th anniversary Statue of Liberty Celebration, gave a presentation on the Statue of Liberty Restoration Project.

NEWS FROM THE HOME OFFICE

New ASHRAE Handbook Volume Tackles Tall Buildings

ATLANTA – Tall buildings can be a tall order for HVAC designers. The newly published 2011 ASHRAE Handbook—HVAC Applications has a new chapter that focuses on the unique design issues that tall buildings present. 2011 HVAC Applications also contains 60 other chapters on a broad range of applications, written to help HVAC&R design engineers and others use the fundamentals, equipment and systems described in other ASHRAE Handbook volumes.

"HVAC Applications has up-to-date, real-world guidance from many of the world's leading authorities in their areas of expertise," Rex Noble, chair of the subcommittee that supervised the 2011 revision of the volume, said. "This volume covers an incredibly wide variety of topics, from residential, commercial, educational and health care facilities to agriculture, aircraft, fire and smoke management, solar energy, seismic- and wind-resistant design—even nuclear facilities. In addition to the new chapter on tall buildings, we have a second new chapter on ultraviolet germicidal irradiation."

The cost of the 2011 ASHRAE Handbook—HVAC Applications is \$195 for the print version, which includes a searchable CD, or \$165 for the CD only. ASHRAE members receive the print/CD version as a member benefit. The 2011 HVAC Applications volume also is being added to ASHRAE Handbook Online, (available at <http://handbook.ashrae.org>).

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

Outstanding Achievements Recognized at ASHRAE's Annual Meeting

MONTREAL – Fifty-nine people were recognized by ASHRAE for their contributions to the Society and the building industry at the Society's 2011 Annual Conference held here June 25-29.

The Louise and Bill Holladay Distinguished Fellow Award, given to an ASHRAE fellow for continuous preeminence in engineering or research work, is awarded to Byron W. Jones, Ph.D., P.E., Fellow ASHRAE, associate dean for research, College of Engineering, Kansas State University, Manhattan, Kan.

The Andrew T. Boggs Service Award recognizes past recipients of the Distinguished Service Award for continuing unselfish, dedicated and distinguished service to the Society. It is awarded to Presidential Member Richard B. Hayter, Ph.D., P.E., Fellow ASHRAE, Life Member, associate dean of engineering for external affairs emeritus, College of Engineering, Kansas State University, Manhattan, Kan.

The Exceptional Service Award recognizes Distinguished Award recipients who have continued to serve the Society faithfully and with exemplary effort. Ten recipients were recognized:

- Constantinos Balaras, Ph.D., P.E., is research director, Institute for Environmental Research & Sustainable Development, National Observatory, Athens, Greece
- Van Baxter, P.E., is senior research and development engineer, Oak Ridge National Laboratory, Oak Ridge, Tenn.
- Tim Dwyer, C.Eng., Fellow ASHRAE, is teaching fellow, University College London, England
- William Fleming, Fellow ASHRAE, Life Member, is owner, Jacwill Services, St. Petersburg, Fla.
- Sheila Hayter, P.E., Fellow ASHRAE, is manager, U.S. Department of Energy's National Renewable Energy Laboratory, Golden, Colo.
- Richard Hermans, P.E., ASHRAE Certified Healthcare Facility Design Professional, is director of training and advanced applications, McQuay International, Minneapolis, Minn.
- Tom Lawrence, Ph.D., P.E., is senior public service associate, University of Georgia, Athens, Ga.
- Michael Ohadi, Ph.D., Fellow ASHRAE, is professor and co-director, Center for Environmental Energy Engineering, Department of Mechanical Engineering, University of Maryland, College Park, Md.
- Stanley Westhoff, Life Member, is technical sales associate, Unilux Advanced Manufacturing, Schenectady, N.Y.
- Alexander Zhivov, Ph.D., is senior researcher, U.S. Army Engineer Research and Development Center Construction Engineering Research Laboratory, Champaign, Ill.

The Distinguished Service Award salutes members of any grade for giving freely of their time and talent to the Society. The following 17 members were selected:

- Walid Chakroun, Ph.D, Fellow ASHRAE, is professor of mechanical engineering, College of Engineering, Kuwait University, Safat, Kuwait
- Tim Dwyer, C.Eng., Fellow ASHRAE, is teaching fellow, University College London, England
- Cynthia Gage, Ph.D., Fellow ASHRAE, is senior research engineer, U.S. Environmental Protection Agency, Research Triangle Park, N.C.
- Kevin Gebke is new product development engineer, Duct-Sox Corp., Peosta, Iowa
- David Godwin, P.E., is environmental protection specialist, U.S. Environmental Protection Agency, Arlington, Va.
- Cecily Grzywacz is facilities scientist in facilities management, National Gallery of Art, Washington, D.C.
- Robert Hu, Ph.D., Fellow ASHRAE, is lead researcher and deputy general director, Green Energy & Environment Research Labs, Industrial Technology Research Institute, Chutung, Hsinchu, Taiwan.
- Phillip Johnson, P.E., is engineering director, applied development center, McQuay International, Staunton, Va.
- Georgi Kazachki, Ph.D., Fellow ASHRAE, is director of advanced technologies, DRS Technologies, Florence, Ky.
- Essam Khalil, Ph.D., Fellow ASHRAE, is professor of mechanical engineering, Cairo University, Egypt
- William Knight Jr., P.E., is director of energy management, Greenville County Schools, Greenville, S.C.
- Spencer Morasch is advanced engineer, customer support, Jersey Central Power & Light, FirstEnergy Corp., Red Bank, N.J.

- Guy Perreault, ing., is president, Evap-Tech MTC, Inc., Quebec City, Quebec, Canada
- Larry Sun, P.E., is principal, Tsuchiyama Kaino Sun & Carter Engineer, Irvine, Calif.
- Samuel Toub, P.E., Fellow ASHRAE, Life Member, is chief engineer, BKT Consulting Engineers, Dallas, Texas
- Xinlei Wang, Ph.D., is associate professor, University of Illinois at Urbana-Champaign, Urbana, Ill.
- Alexander Zhivov, Ph.D., is senior researcher, U.S. Army Engineer Research and Development Center Construction Engineering Research Laboratory, Champaign, Ill.

The Distinguished 50-Year Member Award is given to persons who have been a member of the Society for 50 years and have performed outstanding service to the Society. The following six members are receiving this award:

- Richard Harju, P.E., Life Member, is retired and lives in Saint Paul, Minn.
- Frederick Holste, P.E., Fellow ASHRAE, Life Member, is principle and founder, Holste & Associates, Inc., Houston, Texas
- Charles Knights, Life Member, is retired and lives in Louisville, Ky.
- Oliver Lewis, P.E., Fellow ASHRAE, Life Member, is retired and lives Lawrenceville, Ga.
- Fareed Ossi, P.E., Fellow ASHRAE, Life Member, is president, Ossi Consulting Engineers, Inc., Tampa, Fla.
- Thomas Smith, F.R.Eng, C.Eng, Fellow ASHRAE, Life Member, is retired and lives in Herts, England

The Journal Paper Award honors the best paper or article published in ASHRAE Journal. Steven T. Taylor, P.E., Fellow ASHRAE, and C. Hwakong Cheng receive the award for their article, "Economizer High Limit Controls and Why Enthalpy Economizers Don't Work." Taylor is principal and Cheng is senior mechanical designer, Taylor Engineering, Alameda, Calif.

Frank Lu, Ph.D., P.E., Matthew Sitzmann, P.E., and Steve R. Smith, P.E., receive an ASHRAE Poster Presentation Award for "Effects of Dents in Condenser Fins on Air Conditioner Performance." The award is given to peer-reviewed technical papers with the best visual and technical information presented at Society Conferences.

Jeffrey D. Spitler, Ph.D., P.E., Fellow ASHRAE, and Bereket A. Nigusse, Ph.D., are the recipients of the Crosby Field Award. Their paper, "Refinements and Improvements to the Radiant Time Series Method," was judged to be the best paper presented before the Society in 2010. The Crosby Field Award is named for Presidential Member Crosby Field, whose ideas and hard work helped shape the industry. Both Spitler and Nigusse also receive an ASHRAE Paper Award, which recognize the authors of the best papers presented at Society meetings. Spitler is Regents professor and C.M. Leonard Professor, Oklahoma State University, Stillwater, Okla. Nigusse is a research engineer, Florida Solar Energy Center, University of Central Florida, Cocoa, Fla.

Michael S. Waring, Ph.D., is the recipient of the Willis H. Carrier Award, which is given to an ASHRAE member 32 years of age or younger for presenting an outstanding paper at a Society meeting. In addition, Waring and co-author, Jeffrey A. Siegel, Ph.D., receive an ASHRAE Paper Award for their paper "The Influence of HVAC Systems on Indoor Secondary Organic Aerosol Formation." Waring is an assistant professor, Drexel University, Philadelphia, Pa. Siegel is an associate professor and the J. Neils Thompson Centennial Teaching Fellow, Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin.

The following papers were selected to receive ASHRAE Paper Awards, which recognize the authors of the best papers presented at Society meetings.

- Keisuke Sekiguchi, Dr. Eng., Shisei Waragai, Dr. Eng., Tsuneo Uekusa, Dr. Eng., and Kenji Yamasaki receive an award for "Development of a High-Efficiency Air Cooled Packaged Air Conditioner for Data Centers." Sekiguchi is a research engineer, NTT Facilities Inc., Tokyo, Japan. Waragai is executive manager, Environment and Energy Systems Development Division, Research and Development Headquarters, NTT Facilities Inc., Tokyo, Japan. Uekusa is executive manager, NIPPON Telegraph and Telephone West Corp., Osaka, Japan. Yamasaki is a senior engineer, Hitachi Appliances Inc., Shizuoka-shi, Japan.
- Christian A. Gueymard, Ph.D., and Didier Thevenard, Ph.D., P.Eng., receive an award for "Updating the ASHRAE Climatic Data for Design and Standards." Gueymard is president, Solar Consulting Services, Colebrook, N.H. Thevenard is principal, Numerical Logics Inc., Waterloo, Ontario, Canada.

The Lincoln Bouillon Award recognizes a member who performs the most outstanding work in increasing the membership of the Society during the course of the year. The recipient is G. Ramesh Kumar, manager, products division, ETA Engineering, Bangalore, India.

The Dan Mills Technical Award recognizes a Chapter Technology Transfer Committee (CTTC) chair who excels in meeting CTTC goals in technical, energy and government activities. The recipient is Keith H. Reihl, P.E., ASHRAE-Certified High Performance Building Design Professional, president, Reihl Engineering LLC, Houston, Texas. Reihl is also receiving the Chapter Program Star Award, which recognizes excellence in chapter program endeavors.

The William J. Collins Jr. Research Promotion Award is given to the chapter research promotion chair that raises the most money for ASHRAE research. The recipient is George W. "Billy" Austin Jr., P.E., principal, Shultz Engineering Group, Charlotte, N.C.

The Hong Kong Chapter receives the Society's Government Activities Award, which recognizes an ASHRAE chapter for outstanding effort and achievement in state, provincial and local government activities in connection with technical issues related to the activities of the Society.

The Standards Achievement Award recognizes significant and exceptional service in the area of standards leadership and technical contribution. The recipient is Mick Schwedler, P.E., manager, Applications Engineering, The Trane Co., La Crosse, Wis.

Robert Bean, R.E.T., P.L.(Eng.), Bjarne W. Olesen, Ph.D., Fellow ASHRAE, and Kwang Woo Kim are the recipients of the Society's Lou Flagg Historical Award, which recognizes a chapter Gold Ribbon Award winner for compiling information on outstanding historical projects or persons related to HVAC&R. The award is named in recognition of Presidential Member Lou Flagg, who promoted an interest in history at the chapter and Society levels. Bean is a building and IEQ consultant, Healthy Heating, Calgary, Alberta, Canada. Olesen is a professor, Department of Civil Engineering, and director of the International Center for Indoor Environment, Technical University of Denmark. Kim is a professor, Seoul National University, Seoul, South Korea.

The ASHRAE Student Activities Achievement Award recognizes a Chapter Student Activities chair for service related to the goals and growth of student activities at all levels. The recipients are Clayton A. Lampman, P.E., Life Member, president, C.A. Lampman Associates Inc., Arcadia, Calif.; Harmohindar Singh, Ph.D., P.E., Fellow ASHRAE, professor of architectural and mechanical engineering, and director of the Center for Energy Research and Technology, North Carolina A&T State University, Greensboro, N.C.

The Milton W. Garland Commemorative Refrigeration Award for Project Excellence award recognizes the designer and owner of a non-comfort cooling refrigeration application that highlights innovation and/or new technologies. The recipient is John Bittner, P.E., research engineer, Research and Development, Hill Phoenix Inc., Conyers, Ga.

Jan Kaczmarczyk, assistant professor and vice chair of the Department of Heating, Ventilation and Dust Removal Team, Silesian University of Technology, Gliwice, Poland, is the recipient of the Ralph G. Nevins Physiology and Human Environment Award, which is given to a researcher under the age of 40 for significant accomplishments in the study of bioenvironmental engineering and its effect on human comfort and health.

Sebastian Herrmann is the recipient of the Homer Addams Award, which honors a graduate student who has been engaged in an ASHRAE research project. The Homer Addams Award is intended to encourage graduate student research. Herrmann is a doctoral student at the University of Rostock, Germany.

ASHRAE Installs New Officers, Directors

MONTREAL – ASHRAE installed new officers and directors at its 2011 Annual Meeting held here June 25-29.

The new president is Ronald "Ron" Jarnagin, staff scientist, Pacific Northwest National Laboratory, Richland, Wash. His presidential theme is Sustaining ASHRAE through Leadership.

Other officers installed for a one-year term are:

- President-Elect: Thomas "Tom" Watson, P.E., Fellow Life Member, chief engineer, McQuay International, Staunton, Va.
- Treasurer: William "Bill" Bahnfleth, Ph.D., P.E., Fellow ASHRAE, professor, The Pennsylvania State University, University Park, Pa.

- Vice President: Constantinos A. Balaras, Ph.D., P.E., research director at the Institute for Environmental Research and Sustainable Development, National Observatory of Athens, Greece
- Vice President: Ross D. Montgomery, P.E., ASHRAE-Certified Building Energy Modeling, Building Energy Assessment and Commissioning Process Management Professional, owner, Quality Systems and Technology, Inc., Palmetto, Fla.
- Vice President: T. David Underwood, P.Eng., Fellow Life Member, ASHRAE-Certified Commissioning Process Management Professional, retired, resides in Oakville, Ontario, Canada.
- Vice President: Timothy G. Wentz, P.E., Fellow ASHRAE, ASHRAE-Certified High Performance Building Design Professional, associate professor, University of Nebraska – Lincoln.

ASHRAE installed the following directors to serve a three-year term from 2011-2014:

- Region VII Director and Regional Chair: Jeffry W. Gatlin, P.E., vice president and co-owner, Thompson Engineers Inc., Memphis, Tenn.
- Region VIII Director and Regional Chair: John L. Harrod, P.E., ASHRAE-Certified Healthcare Facility Design Professional, senior mechanical engineer, SAIC Energy, Environment and Infrastructure LLC, Oklahoma City, Okla.
- Region IX Director and Regional Chair: Richard J. Bowman, owner, Mechanical Concepts LLC, Wichita, Kan.
- Region X Director and Regional Chair: Michael T. Burgess, P.E., ASHRAE-Certified Commissioning Process Management Professional, president, Burgess Group, San Diego, Calif.
- Region-at-Large Director and Regional Chair: Ashok K. Virmani, managing director and owner, Suvidha Engineers India Pvt. Ltd., Noida, India.
- Director-at-Large: Roberto R. Aguilo, P.E., owner, Ing. Aguilo and Associates, Buenos Aires, Argentina, and professor, Universidad Nacional de Luján, Argentina.
- Director-at-Large: Patricia Graef, P.E., Fellow ASHRAE, director, evaporative media core technology, Munters Corp., Fort Myers, Fla.
- Director-at-Large: Stephen D. Kennedy, territorial affairs manager, Georgia Power Co., Atlanta, GA.

ASHRAE Conferences Brings Together Industry Professionals

ATLANTA – Perspectives on design styles and experiences from around the world were shared by nearly 2,000 built environment industry professionals at ASHRAE's 2011 Annual Conference. The theme of the Conference, Sustainability Knows No Borders, highlighted the international reach of ASHRAE's membership.

Some 1,690 people attended the Conference, held June 26-29, in Montreal, Quebec. Attendance was higher than the last three ASHRAE annual conferences, which took place in Albuquerque, Salt Lake City and Louisville.

The ASHRAE Conference offered a technical program with nearly 300 presentations, nine educational courses and numerous social events. The meeting also featured nearly 400 meetings of technical, standards and standing committees, developing guidance for the future of the industry and ASHRAE.

The Plenary session, where nearly 60 members were honored for their service to ASHRAE, also served as the platform for Presidential Member Lynn G. Bellenger's final address to the Society as ASHRAE president.

Technical program highlights included several sessions that provided new applications and current practices, such as: case studies of new buildings without commissioning, using building energy information in a smart grid, selecting fans for minimum energy usage, emerging wireless technologies for HVAC&R applications, improving performance of refrigeration systems, back to basics on airflow in unitary systems, energy recovery issues in dedicated outdoor-air systems, unique applications of photovoltaic systems, applications of high temperature cooling and low temperature heating and HVAC&R design checklists that work. As usual, sessions on ground source heat pumps and radiant cooling systems drew large audiences.

Net zero energy-related sessions were the highest-attended, especially methodologies for determining environmental impacts of buildings, renewable energy technologies for achieving net-zero energy design, challenges in making green buildings a way of life, design strategies for net-zero energy residential buildings, combined heat and power for net zero energy buildings, and alternate heating, cooling and domestic water heating technologies to reduce building energy usage.

Also offered were two Professional Development Seminars and seven short courses from the ASHRAE Learning Institute. The most popular courses were Advanced High-Performance Building Design; Energy Management in New and Existing Buildings; and Basics of High-Performance Building Design.

Top selling publications included Standard 189.1-2009, Standard for the Design of High-Performance, Green Buildings; Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality; and the 2011 Annual Conference pre-prints CD, which contains all papers presented at the conference.

Ron Jarnagin took office as the Society's 2011-2012 president. His theme for the year, Sustaining ASHRAE through Leadership, focuses on developing future leadership, building the Society's global presence and strengthening the industry.

Additionally, six students from Polytechnique de Montréal, along with members of the Montreal Chapter, are working to improve the quality of life at Accueil Bonneau, a local homeless shelter, as part of ASHRAE's Sustainable Footprint project. The project is intended to leave behind a lasting sustainable footprint in the cities where the Society's conferences are held. The members hope to reduce operating expenses of the shelter through the overall design and commissioning of a domestic water heating solar system which will significantly reduce costs of water heating.

ASHRAE Supports Funding for Important Building Data Survey on the House Floor

ATLANTA—ASHRAE received Congressional support from co-chairs of the High-Performance Buildings Congressional Caucus regarding the Society's call to the federal government to resume work on the 2011 Commercial Buildings Energy Consumption Survey (CBECS).

On July 13, Representatives Judy Biggert (R-Ill.) and Russ Carnahan (D-Mo.) delivered a colloquy on the House floor in strong support of funding and resuming work on the 2011 CBECS. Joining in the colloquy, the chairman and ranking Democrat of the House Energy and Water Development Appropriations Subcommittee, Representatives Rodney Frelinghuysen (R-N.J.) and Peter Visclosky (D-Ind.), also lent their support to the importance of CBECS data.

Carnahan quoted a letter from ASHRAE issued in May, strongly urging Congress to include funding for CBECS in the Fiscal Year 2012 appropriations bills to allow work on the 2011 edition of the Survey to continue. The letter was submitted to the Congressional Record. "If funding is not provided, work on the 2011 CBECS data will likely not continue, and the government and industry will be forced to rely on data that is nearly a decade old, resulting in potential missed opportunities to increase building efficiency," Carnahan read from the ASHRAE letter on the House floor.

Earlier this year the U.S. Energy Information Administration (EIA) announced it would not be releasing the results of the 2007 CBECS due to data collection errors. As a result of funding reductions, EIA also announced that it would halt work on the 2011 edition of the Survey. Currently, the latest version of CBECS data is from 2003.

"Many members of the High Performance Building Coalition have come to us to express their concern about an updated CBECS since the latest data is nearly a decade old," Biggert said while addressing the House. "Substantial investments in the commercial building sector have been made since the last CBECS was published in 2003. The updated data is not only valuable to building owners looking to make improvements, but also necessary to inform the Annual Energy Outlook that we, in Congress, rely on."

ASHRAE led the establishment of the HPB Congressional Caucus in 2008 to heighten awareness and inform policymakers about the major impact buildings have on our health, safety and welfare and the opportunities to design, construct and operate high-performance buildings that reflect our concern for these impacts.

What is Energy Use Intensity? ASHRAE Seeks to Define, Educate

ATLANTA – While the importance of building energy performance metrics to reduce energy use is accepted worldwide, there is no single generally accepted definition of that metric. Currently, proposed relative energy use reduction targets are subject to interpretation and difficult to verify.

Under a new initiative, ASHRAE is working to define one clear, logical metric to move the building industry toward producing net zero energy buildings by 2030. The U.S. Congress has mandated a series of relative fossil fuel energy use reductions in federal buildings ending in a 100 percent reduction of fossil fuel energy by 2030. Congress is considering applying similar relative energy use reductions in all buildings through the use of building energy codes adopted by state and local government.

“We must address buildings as entire living entities,” ASHRAE President Ron Jarnagin said. “As such, we need to establish energy targets for building design that provide a total building energy use goal to strive toward that can subsequently drive the development and application of any number of prescriptive solutions.”

A forum seeking input on the energy target initiative was held at ASHRAE’s 2011 Annual Conference in Montreal, June 25-29. Also, ASHRAE has developed a public policy brief asking Congress to foster collaboration among the U.S. Department of Energy, the National Institute of Standards and Technology and the U.S. Environmental Protection Agency and ASHRAE along with partner organizations to:

- Establish a single objective definition of energy use intensity (EUI) for the design of commercial buildings
- Determine a single objective baseline EUI for design of commercial buildings from which to measure relative energy use reductions
- Create a performance environment that will support reduction in energy consumption associated with all loads in commercial buildings
- Identify a single objective set of commercial building types and simulation models for establishment of target design EUIs
- Produce one set of design target EUIs for the commercial building sector to guide the development of future energy codes and standards and building energy codes adopted by state and local government

“EUIs are very helpful for setting performance- based designs goals,” Jarnagin said. “The current focus on reduction of energy use in building stock has made the use of EUIs popular by governmental organizations, non-government organizations and building industry groups, including ASHRAE. Given that there is no clear single definition for EUIs, comparing one organization’s EUI goals to another’s is confusing, particularly since everyone tends to use the same units, kBtu/ft²-yr. Our goal is to develop and promote technical tools to assist the commercial building design and construction industry in moving toward higher performing buildings. Defining design energy use targets is a large part of achieving that goal.”



Donate to ASHRAE Research NOW at www.ASHRAE.org/contribute, call Scott Mackay at 319-0629, or clip and mail coupon with your check:

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c/o Scott Mackay
McKinstry
950 West Bannock Street, Suite 805
Boise, Idaho

Your contribution brings our chapter closer to our goal. Please send what you can today! Individual gifts of \$100 or more and Corporate gifts of \$150 or more will receive this year’s Commemorative Coin and Honor Roll status.

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