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UVC, Turbine Cooling Included in New ASHRAE Handbook

ATLANTA – New chapters related to ultraviolet lamp systems and combustion turbine inlet cooling are featured in ASHRAE's new 2008 Handbook volume.

HVAC Systems and Equipment discusses systems and the equipment that comprise them, including features and differences. It is designed to help system designers and building operators select and use equipment. It contains 48 chapters.

The chapter on ultraviolet lamp systems addresses the use of such systems to improve indoor air quality. "Use of ultraviolet germicidal irradiation has increased as concerns about the transmission via ductwork of pathogenic organisms, such as tuberculosis and even bioterrorism agents, have escalated among designers," Walter Grondzik, chair of the subcommittee that coordinated publishing of the 2008 volume, said.

The new combustion turbine inlet cooling chapter provides discussion on how the cooling is used to help improve combustion turbine performance. It was added to address use of such cooling to improve the environmental and economic performance of combustion turbine installations, typically used for electric power generation.

"Inlet cooling can mitigate the negative effects of high inlet air temperature, a critical consideration in this era of rapidly increasing energy costs and depleting resources," he said.

The cost of the 2008 *ASHRAE Handbook, HVAC Systems and Equipment,* print edition (either I-P or SI and includes a CD of all content in both I-P and SI units) is $195. The 2008 volume also is available in CD format for $155.

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.

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ASHRAE Leads Briefing on New High Performance Building Report to Congress, Caucus

ATLANTA – A new assessment report to the U.S. Congress and a new Congressional caucus, both addressing high-performing buildings, will be unveiled next week at a briefing with ASHRAE as the lead sponsor.

The briefing for Congressional staff takes place from 11:30 a.m.-1:30 p.m. June 18 in room 2325 of the Rayburn House Office Building. Scheduled to take part are Rep. Judy Bigger (R-IL) and Rep. Russ Carnahan (D-MO), co-chairs of a newly formed High Performance Building Congressional Caucus.

"Rising energy costs and the increased global awareness of the potential impact of climate change continues to drive home the need for low-energy, environmentally responsible, high-performance buildings are the future," Kent Peterson, P.E., ASHRAE president, said. "As such, we need to be more determined to deliver buildings that perform. I am encouraged by the efforts I am seeing in the recommendations contained in this report and formation of the caucus to encourage design, operation and maintenance of high-performance buildings."

Congress drafted Section 914 of the Energy Policy Act of 2005 to address not just more energy efficient buildings but rather high-performance buildings that combine the objectives of reducing resource energy consumption and improving the

comfort and productivity of building occupants. Congress maintains that achieving both these goals would have a positive economic and societal impact.

Former ASHRAE president Bill Coad served as chair of the committee that wrote the soon-to-be-released assessment to the U.S. Congress and the U.S. Department of Energy on high performance buildings. Overseen by the National Institute for Building Sciences, the report contains seven recommendations to assist in encouraging the creation and operation of high-performance buildings. Coad is scheduled to speak at the briefing, along with Get Moy, current chair of the High Performance Building Council.

In addition, the recent formation of the High Performance Building Congressional Caucus will be announced. The Caucus was formed in part to address the recommendations outlined in the assessment report. The caucus will work to heighten awareness and inform policymakers about the major impact buildings have on health, safety and welfare. ASHRAE is one of 14 organizations that form the Caucus.

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Outstanding Achievements Recognized at ASHRAE's Annual Meeting

SALT LAKE CITY - The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recognized 86 members for contributions to ASHRAE and the HVAC&R industry at the Society's 2008 Annual Meeting being held here June 21-25.

The Louise and Bill Holladay Distinguished Fellow Award honors an ASHRAE Fellow for continuous preeminence in engineering or research work. The recipient is Presidential Member James E. Hill, Ph.D., Fellow ASHRAE, Moneta, Va.

The Andrew T. Boggs Service Award recognizes a past Distinguished Service Award recipient for continuing, unselfish, dedicated and distinguished service. The recipient is Presidential Member Presidential Donald G. Rich, Fellow ASHRAE, Life Member, retired from Carrier-UTC, Fayetteville, N.Y.

The Exceptional Service Award recognizes Distinguished Award recipients who have continued to serve the Society faithfully and with exemplary effort. 10 recipients were recognized:

- William P. Bahnfleth, Ph.D., P.E., Fellow ASHRAE, a professor of architectural engineering and director of the Indoor Environment Center, The Pennsylvania State University, University Park, Pa.
- Michael F. Beda, P.E., president, Process Equipment Co., Tulsa, Okla.
- Darryl K. Boyce, P.Eng., assistant vice president (Facility Management and Planning), Carleton University, Ottawa, Ontario, Canada.
- Presidential Member H.E. "Barney" Burroughs, Fellow ASHRAE, Life Member, CEO and president, Building Wellness Consultancy, Alpharetta, Ga.
- Kenneth W. Cooper, Ph.D., Fellow ASHRAE, Life Member, director, special projects, PoolPak International, York, Pa.
- Presidential Member Harley W. "Bill" Goodman Jr., P.E., Fellow ASHRAE, Life Member, president, Goodman Engineers, Little Rock, Ark.
- Maureen Grasso, Ph.D., Fellow ASHRAE, dean, the Graduate School, University of Georgia, Athens, Ga.
- Birol I. Kilkis, Ph.D., Fellow ASHRAE, Scientific Committee member, European Union HEGEL Poly-Generation Project, Ankara, Turkey, and Torino, Italy.
- Stanley L. Leitsch, P.E., Fellow ASHRAE, Life Member, Audubon, Pa.
- Michael Woodford assistant vice president, Standards, Air-Conditioning, Heating and Refrigeration Institute, Arlington, Va.

The Distinguished Service Award salutes members of any grade for giving freely of their time and talent to the Society. The following 31 members were selected:

- Gaylen V. Atkinson, president, Atkinson Electronics, Salt Lake City, Utah.
- Michael R. Brambley, Ph.D., a staff scientist, Energy and Efficiency Division, Pacific Northwest National Laboratory, Richland, Wash.
- Arden V. Davis, retired, Idaho Power Co., Boise, Idaho.
- Douglas W. Dunford, Gresham, Oreg.
- Mark W. Fly, P.E., director of engineering, AAON, Tulsa, Okla.
- Kenneth L. Fulk, P.E., principal and chief mechanical engineer, Reed, Wells, Benson and Co., Dallas, Texas.
- Arthur L. Giesler, director of sales, PermAlert, a subsidiary of Perma-Pipe, Hurst, Texas.
- Leon R. Glicksman, Ph.D., professor of building technology and mechanical engineering, Massachusetts Institute of Technology, Cambridge, Mass.

- Charles E. Gulledge III, P.E., design engineer, AC Corp., Greensboro, N.C.
- John L. Harrod, P.E., senior mechanical engineer, The Benham Companies, Oklahoma City, Okla.
- Adam W. Hinge, P.E., managing director, Sustainable Energy Partnerships, Tarrytown, N.Y.
- Pamela M. Immekus, president, Sunbelt Engineering Group, Kennesaw, Ga.
- L. Lane Jackins, owner and president, Applied Mechanical Equipment, Jacksonville, Fla.
- Gerald J. Kettler, P.E., president/owner, Air Engineering and Testing, Dallas, Texas.
- Birol I. Kilkis, Ph.D., Fellow ASHRAE, Scientific Committee member, European Union HEGEL Poly-Generation Project, Ankara, Turkey, and Torino, Italy.
- Ben A. Leppard Jr., P.E., principal, Leppard, Johnson and Associates, Tucker, Ga.
- Dennis A. Littwin, P.E., vice president of engineering, Fujikoki America, Dallas, Texas.
- William M. Malphus, branch manager, G.L. Spies Co., Cape Coral, Fla.
- Florentino J. Mendez, P.E., Fellow ASHRAE, Life Member, director, energy engineering, The Benham Companies, Oklahoma City, Okla.
- Ramon Pons, Ph.D., P.E., partner and business consultant, CMTR, S.A.-International Services, Barcelona, Spain.
- T. Agami Reddy, Ph.D., P.E., Fellow ASHRAE, professor, Drexel University, Philadelphia, Pa.
- Michael CA Schwedler, P.E., manager, applications engineering, Trane, La Crosse, Wis.
- Frank Spevak, marketing and sales manager, Energy Conservatory, Minneapolis, Minn.
- William E. “Ed” Tinsley, P.E., managing principal, TME, Little Rock, Ark.
- Samir R. Traboulsi, Ph.D., P.Eng., general manager, Thermotrade Sal-Heating and Air Conditioning, and senior lecturer, American University of Beirut, Lebanon.
- Iain S. Walker, Ph.D., scientist, Lawrence Berkeley National Laboratory, Berkeley, Calif.
- William F. Walter, manager, Industry Relations, Carrier Corp., Syracuse, N.Y.
- James K. Willson, P.E., solution development leader, Honeywell International, Indianapolis, Ind.
- Gary L. Wingfield, P.E., Fellow ASHRAE, group lead mechanical engineer, Haskell Co., Jacksonville, Fla.
- Xudong Yang, Ph.D., Chang-Jiang professor, Tsinghua University, Beijing, China.
- Jianshun S. Zhang, Ph.D., a professor and director of Energy and Indoor Environmental Systems, Department of Mechanical and Aerospace Engineering, Syracuse University, New York.

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 15 members are receiving this award:

- Peter J. Basso, P.E., Fellow ASHRAE, Life Member, chairman, Peter Basso Associates, Troy, Mich.
- Richard E. Batherman, Life Member, president, Vico, New York, N.Y.
- Warren E. Blazier Jr., Fellow ASHRAE, Life Member, a consultant on building acoustics, structural dynamics, mechanical noise and vibration control, San Francisco, Calif.
- Robert H. Braun, P.E., Fellow ASHRAE, Life Member, principal, Robert H. Braun and Associates, San Mateo, Calif.
- Francis A. Govan, P.E., Fellow ASHRAE, Life Member, Cary, N.C.
- Hem C. Gupta, P.E., Fellow ASHRAE, Life Member, Chicago, Ill.
- Guy W. Gupton Jr., P.E., Fellow ASHRAE, Life Member, Livingston, Mont.
- Donald C. Hardin, Life Member, retired from Enviromatic Systems, Grand Prairie, Texas.
- Eoin Kenny, Fellow ASHRAE, Life Member, Dublin, Ireland.
- Milton Meckler, P.E., Fellow ASHRAE, Life Member, president/CEO, Design Build Systems, St. Petersburg, Fla.
- Frank J. Powell, Fellow ASHRAE, Life Member, Jacksonville, Fla.
- Walter R. Ratai, P.E., Fellow ASHRAE, Life Member, a consulting engineer in Sarasota, Fla.
- Ernest W. Schumacher, Fellow ASHRAE, Life Member, retired vice president, Fujikoki American, Yantis, Texas.
- Michael F. Sisti, P.E., Fellow ASHRAE, Life Member, formerly of East Brunswick, N.J., is being honored posthumously.
- Harold B. Swygert Jr., P.E., Fellow ASHRAE, Life Member,West Columbia, S.C.

The Journal Paper Award honors the best paper or article published in ASHRAE Journal. Frederick H. Rohles Jr., Ph.D., Fellow ASHRAE, is the recipient for his article, Temperature & Temperament: A Psychologist Looks at Comfort. He resides in Manhattan, Kan.

The Crosby Field Award honors the best paper presented at an ASHRAE meeting. Francis Farrell, Thomas Fitch and Michael Morgan receive the award for Development and Performance of a Retrofittable, High-Efficiency Grease Filter System for Kitchen Hoods, which also receives an ASHRAE Poster Presentation Award. Farrell is with Phillips Plastics Corp., Prescott, Wis. Fitch is a research engineer, Phillips Plastics Corp., Prescott, Wis. Morgan is sales development manager, Captive Aire Systems, Allentown, Pa.

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

- James Braun, Ph.D., P.E., Fellow ASHRAE, for Impact of Control on Operating Costs for Cool Storage Systems with Dynamic Electric Rates. He is a professor, Purdue University, Ray W. Herrick Laboratories, West Lafayette, Tenn.
- Vladimir Vukovic and Jelena Srebric, Ph.D., for Application of Neural Networks Trained with Multizone Models for Fast Detection of Contaminant Source Position in Buildings. Vukovic is a doctoral candidate and Srebric is an associate professor, Department of Architectural Engineering, The Pennsylvania State University, University Park, Pa.

· William Tschudi, P.E., and Stephen Fok, P.E. for Best Practices for Energy-Efficient Data Centers Identified through Case Studies and Demonstration Projects. Tschudi is program manager, Lawrence Berkeley National Laboratory, Berkeley, Calif.; Fok is senior program engineer, Pacific Gas and Electric Co., San Francisco, Calif.

The ASHRAE Poster Presentation Award is given to peer-reviewed technical papers with the best visual and technical information presented at Society meetings. The recipients are Sherwood Talbert, P.E., Stephen Ricci, Ph.D., Matthew Goshe, Laura Aume and Rodney Osborne, Ph.D., P.E., for Reentrainment of Building Exhaust Air by Packaged HVAC Economizers. Talbert and Ricci are senior research engineers; Goshe and Aume are research scientists, and Osborne is associate manager of energy systems, Battelle Memorial Institute, Columbus, Ohio.

The Willis H. Carrier Award is given to an ASHRAE member 32 years of age or younger for presenting an outstanding paper at a Society meeting. Joseph Firrantello, mechanical engineer, James Posey Associates, Baltimore, Md., is the recipient for Use of Factorial Sensitivity Analysis in Multizone Airflow Model Tuning, which also received an ASHRAE Transactions Paper Award. Co-authors also receiving the Transactions Paper Award are William Bahnfleth, Ph.D., P.E., Fellow ASHRAE, professor of architectural engineering and director of the Indoor Environment Center, The Pennsylvania State University, University Park, Pa.; Amy Musser, Ph.D., P.E., principal, Vandemusser Design, Asheville, N.C.; James Freihaut, Ph.D., associate professor, The Pennsylvania State University, University Park, Pa.; and Jae-Weon Jeong, Ph.D., assistant professor, Department of Architectural Engineering, Sejong University, Seoul, South Korea.

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 Alan Neely, regional manager, Pittsburgh Corning-Foamglass Insulation, The Woodlands, Texas.

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 Thomas Kroeschell, P.E., Northbrook, Ill.

The Chapter Program Star Award recognizes excellence in chapter program endeavors. The recipient is Don Hay, general director, TECSIR Sa De CV, Monterrey, Mexico..

The William J. Collins Jr. Research Promotion Award is given to the chapter research promotion chair who raises the most money for ASHRAE research. The recipient is John K. Sealy, a mechanical engineer, University of Tennessee, Knoxville, Tenn.

The Lou Flagg Historical Award recognizes a chapter Gold Ribbon award winner for compiling information on outstanding historical projects or persons related to HVAC&R. The recipient is Oswaldo Bueno, owner, Oswaldo Bueno Engenharia E Represetacoes, Sao Paulo, Brazil.

The Environmental Health Award recognizes excellence in volunteer service focused on environmental health issues. The recipient is Hal Levin, Fellow ASHRAE, president of and a research architect, Building Ecology Research Group, Santa Cruz, Calif.

The Standards Achievement Award recognizes significant and exceptional service in the area of standards leadership and technical contribution. The recipients are Byron W. Jones, Ph.D., associate dean for research and director of the Engineering Experiment Station, Kansas State University, Manhattan, Kans.

The Ralph G. Nevins Physiology and Human Environment Award is given to a researcher under the age of 40 for significant accomplishment in the study of bioenvironmental engineering and its effect on human comfort and health. The recipient is Henry Willem, Ph.D., post-doctoral research fellow, National University of Singapore.

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 recipient is Manuel Belino, Ph.D., dean, School of Mechanical Engineering, Mapua Institute of Technology, Manila, Philippines.

The Homer Addams Award is presented to a graduate student involved in outstanding HVAC&R research. The recipient is Bereket Nigusse, Ph.D., a senior associate, ICF International, Fairfax, Va.

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Market Transformation Taking Place with Advanced Energy Design Guide

ATLANTA – Nine million tons of carbon dioxide. $600 million in energy costs.

That's the potential savings represented by 100,000 copies in the *Advanced Energy Design Guide* series now in circulation. More than 88,000 of the publications have been obtained via free download since January.

The series includes publications on small retail and small office buildings, K-12 school buildings, and warehouses and self-storage units. The books provide guidance on how to achieve 30 percent energy savings over building code minimum based on ANSI/ASHRAE/IESNA Standard 90.1-1999.

Calculations show that if every guide downloaded resulted in a single building designed to save 30 percent beyond code minimum, the estimated energy and carbon savings would be 52 trillion btus and 9 million tons of carbon dioxide. With an average cost of electricity of 5 cents per kwh and gas at $7 per mmbtu, the estimated cost of energy savings is over $600 million.

The guides are developed by ASHRAE, the American Institute of Architects, the Illuminating Engineering Society of North America and the U.S. Green Building Council, with support from the U.S. Department of Energy. The downloads are available at www.ashrae.org/freeaedg.

"ASHRAE is committed to energy optimization and producing guidance that will help move the building industry toward market-viable net-zero energy and carbon neutral buildings," ASHRAE President Kent Peterson, P.E., said. "The call for these high performing buildings is transforming our industry, and the guidance in the Advanced Energy Design Guide series is useable technology guidance to help owners, architects and engineers in accomplishing high-performing buildings."

"This is proof positive that there are substantial economic benefits to green building strategies," said AIA President Marshall E. Purnell, FAIA. "Hopefully this will help convince skeptics of the value and payback of green building design and that practitioners will take advantage of this excellent resource so that we can move closer to reaching our shared goal of carbon neutral buildings by 2030."

"IES is pleased to part of the team developing these important guides, whose success demonstrates that collectively the collaborating organizations are raising awareness about how to achieve energy savings and developing a receptive audience for future guidance on net-zero energy and carbon neutral buildings," said Rita M. Harrold, IESNA director of technology.

"The green building movement offers an unprecedented opportunity to respond to the most-important challenges of our time, including global climate change, dependence on non-sustainable and expensive sources of energy, and threats to human health," said Rick Fedrizzi, President, CEO & Founding Chair, U.S. Green Building Council. "Working with ASHRAE, AIA and IESNA on the Advanced Energy Design Guide series is part of a critical collaborative effort to provide the industry with the tools it needs to make an immediate and measurable impact."

Upcoming publications in the series include 30 percent guidance books for highway lodging, existing buildings and small health care facilities. For more information on the *Advanced Energy Design Guide* series, visit www.ashrae.org/aedg.

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ASHRAE Installs New Officers, Directors

SALT LAKE CITY - The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) installed new officers and directors at its 2008 Annual Meeting held here June 21-25.

The new president is William Harrison, president, Trane Arkansas, Little Rock, Ark. His presidential theme, *Maintain to Sustain – Delivering ASHRAE's Sustainability Promise,* focuses on operating buildings to deliver the energy efficiency inherent in their design, including effective commissioning, improved documentation, and programs to educate and certify building operators.

"If the studies are accurate, we have a no-regrets method to reduce energy use in buildings by 10 to 40 percent, solely by improving building operations," Harrison said. "All we have to do is communicate and educate more effectively. It is our duty. We are pledged to deliver ASHRAE's promise of sustainability, and to do that we must maintain to sustain, we must train to sustain, and we must influence the operation of our buildings to conserve energy. "

Other officers installed for a one-year term are:

- President-Elect:Gordon V. R. Holness, P.E., Fellow ASHRAE, Life Member, consulting engineer, Grosse Pointe Shores, Mich.
- Treasurer: Lynn G. Bellenger, P.E., Fellow ASHRAE, partner, Pathfinder Engineers, Rochester, N.Y.
- Vice President: Jim Fields, vice president, Superior Mechanical Services, Greensboro, N.C.
- Vice President: Andrew Persily, Ph.D., Fellow ASHRAE, group leader, National Institute of Standards and Technology, Gaithersburg, Md.
- Vice President: Vincent Tse, Fellow ASHRAE, managing director, Parsons Brinckerhoff (Asia), Hong Kong.
- Vice President: Thomas Watson, P.E., chief engineer, McQuay International, Staunton, Va.

ASHRAE installed the following directors to serve a three-year term from 2008-2011:

- Region VII Director and Regional Chair:Pat Kempf, retired from Gulf Power Co. (a Southern Co. subsidiary), Pensacola, Fla.

- Region VIII Director and Regional Chair:Kenneth Fulk, P.E., partner, Reed, Wells, Benson and Co., Consulting Engineers, Dallas, Texas.
- Region IX Director and Regional Chair:Rich Rose, owner/general manager, Mechanical Technology, Billings. Mont.
- Region X Director and Regional Chair:Jack Zarour, lead mechanical engineer, Genentech, San Francisco, Calif.
- Region-at-Large Director and Regional Chair**:** Walid Chakroun, Ph.D., chairman, Mechanical Engineering Department, College of Engineering and Petroleum, Kuwait University, Kuwait.
- Director-at-Large:Tim Dwyer, principal lecturer, London South Bank University, London.
- Director-at-Large**:** Wayne Reedy, Fellow ASHRAE, recently retired engineering manager, Carrier Corp., Indianapolis, Ind.
- Director-at-Large:Kay Thrasher, vice president, Townsend Engineering, Chattanooga, Tenn.

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Improving Building Performance Strong Focus of ASHRAE Meeting

ATLANTA – Tremendous opportunities for improving the performance of existing buildings were highlighted at the ASHRAE 2008 Annual Meeting held in Salt Lake City.

The meeting theme of "Building Performance" was reinforced by focus of the newly elected president on operation and maintenance, introduction of a new "sustainable footprint" project and launch of the Society's certification program for high performance building design professionals.

Some 1,670 members came together to support the Society's mission of advancing HVAC&R to serve humanity and promote a sustainable world.

"The beautiful Rocky Mountains surrounding Salt Lake City was the perfect scene for another productive ASHRAE meeting," Bill Harrison, ASHRAE president, said. "When you're in the mountains, hiking up those steep walls of rock, it may seem like the climb will never end. But when you take a step back and look at those slopes, the mountains don't seem so unbearable. With our meeting theme of Building Performance, ASHRAE showed that our climb to our goal of energy efficiency for the world's buildings doesn't look so far away. In fact, it seems we are almost there."

Harrison was inducted as the Society's president for 2008-09. Through his theme, *Maintain to Sustain – Delivering ASHRAE's Sustainability Promise*, Harrison will focus on operating buildings to deliver the energy efficiency inherent in their design, including effective commissioning, improved documentation, and programs to educate and certify building operators.

"We must maintain to sustain, we must train to sustain and we must influence the operation of our buildings to conserve energy," he said.

To read his presidential address, visit www.ashrae.org/harrison.

At the meeting, ASHRAE launched its first sustainable footprint project – designed to leave behind a lasting sustainable footprint in the cities where the Society's meetings are held. Thanks to funds and equipment donated by members and others, a solar hot water heating system was installed at the YWCA of Salt Lake City's Teen Home. More than $9,000 in money and equipment was raised to install the system, with a ribbon cutting held as part of the meeting.

ASHRAE provided four flat solar panels and additional storage capacity for domestic hot water use. The solar panels will replace approximately 100 decatherms of natural gas per year and reduce the carbon footprint for the home by over 10,000 lbs. of CO_2 annually, saving the YWCA more than $650. For more information, visit www.utahashraesolar.tzo.com.

ASHRAE Learning Institute courses related to natural ventilation and solar applications were well-attended, illustrating that "technology as usual" is no longer the norm for building design, construction and operation.

Top-attended technical program sessions included *Utilizing VFD for Building HVAC System Performance*; *Issues Update: Performance Based Energy Labels for Buildings*; *Improving Building Performance by Using the IAQ Procedure*; *Balancing Energy and Water Conservation in HVAC Cooling Systems: A Total Consumption Approach*; *Benchmarking Performance of Ventilated and Non-Ventilated Attics*; *Modeling Data Center Airflow and Cooling Performance*; and the keynote technical plenary speaker Arah Schuur with the Clinton Climate Foundation**.**

Top-selling publications at the meeting were the *ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings*; ASHRAE Guideline 1.1-2007*, HVAC&R Technical Requirements for The Commissioning Process,* ANSI/ASHRAE Standard 62.1-2007, *Ventilation for Acceptable Indoor Air Quality*, and its User's Manual, and ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings.*

ASHRAE also launched its second certification program in high-performance building design with some 60 people taking part. The examination will be available on computer at testing centers in the U.S. and Canada by mid-August.

The next certification program will focus on operation and maintenance, and is scheduled to launch at the 2008 Winter Meeting, followed by a program on commissioning at the 2009 Annual Meeting. For more information, visit www.ashrae.org/certification.

ASHRAE will hold its 2009 Winter Meeting, Jan. 24-28 in Chicago, accompanied by the AHR Expo, Jan. 26-28.

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ASHRAE Announces Staffing Changes Related to Technology

ATLANTA – Two senior management changes are being announced related to ASHRAE's Technology Department.

Bruce Hunn, Ph.D., who has served as ASHRAE's director of technology since 1997, has been named to a newly created position, director of strategic technical programs. Claire Ramspeck, who formerly served as assistant director of technology for standards and special projects, has been named director of technology.

"These changes allow for better support of ASHRAE resources as the demand for ASHRAE's technical expertise and collaborative projects continues to grow," Jeff Littleton, ASHRAE executive vice president, said. "This will enhance ASHRAE's efforts in key technical areas such as net-zero-energy policy and the advancement of our activities with other organizations in the building industry."

As director of strategic technical programs, Hunn will oversee ASHRAE's special projects, such as development of its *Advanced Energy Design Guide* series, the upcoming *Advanced Indoor Air Quality* guide and other documents that will provide design guidance to achieve net-zero-energy buildings.

Prior to joining ASHRAE, Hunn served as head of the Building Energy Systems Program, Center for Energy Studies, the University of Texas at Austin.

Ramspeck will direct staff support of ASHRAE's $3 million per year research program, its 90-plus technical committees and its 120-plus standards as well as technical services.

She has worked at ASHRAE since 1995, previously serving as manager of technical services and manager of standards. Prior to working at ASHRAE, she was a design engineer for Bechtel.

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BACnet Looks at Improving Standardized Communications

ATLANTA – A new standard way of representing building data will give BACnet new capabilities for standardized communications between a wide range of applications.

A definition for an XML syntax which can be used to represent building data in a consistent, flexible and extensible manner, is defined by addendum *t*, recommended for public review by the BACnet committee during ASHRAE's recent 2008 Annual Meeting.

The Extensible Markup Language (XML) is a popular technology in the data processing and communications worlds, based on its ability to model a wide range of data, and its ability to be transformed and extended.

"With this new IT-friendly way of representing building data, we are opening up a whole range of possible new ways to share data. XML can be used for exchanging files between systems, integrating buildings with energy utilities, and expanding enterprise integration with richer Web services." said Dave Robin, incoming BACnet chair.

In a busy three-and-a-half day session during the meeting, the BACnet committee moved eight other addenda toward publication.

Addendum *g*, a new means for securing BACnet messages using updated encryption technologies, was recommended for another public review following an extended period of revision and analysis by the Network Security working group following the preceding public review.

The Life-Safety and Security working group, comprised of BACnet and physical security industry experts, recommended another public review for Addendum *j*, which proposes physical access control extensions for BACnet.

"We received only nine comments on the previous public review," said working group convener David Ritter, "and they were all positive and constructive comments."

The Testing and Interoperation working group revised its definitions of several new types of BACnet operator workstations following the first public review of addendum *l* last fall.

"These definitions will not only allow users to specify the capabilities of different workstations, but are necessary for defining the tests done on those workstation by BACnet testing labs," said working group convener Carl Neilson.

Addenda *h*, *r* and *s*, all comprised of a number of independent changes, were also recommended for public review.

After reviewing the comments submitted for two addenda, the BACnet committee determined that addenda *b* and *m* had passed spring public review and will be submitted for publication. Both addenda are comprised of several independent changes but include user-oriented extensions such as the Event Log object, which keeps a history of BACnet alarms in a standard fashion.

Also during the meeting, outgoing BACnet chair Bill Swan announced the publication of BACnet 2008, incorporating the five addenda that have been approved since the publication of BACnet 2004.

The BACnet committee continues to work on a broad range of other items, such as architectural and theatrical lighting controls, developing standard profiles for various building automation devices, CCTV control, and elevator monitoring.

For Release:
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ASHRAE Raises More Than $2 Million for Research Promotion

ATLANTA –Five hundred twenty-five thousand six hundred minutes. How do you measure, measure a year?

So goes the song from the hit play Rent. But at ASHRAE, we've measured the past year in dollars: $2,081,422 to be exact. Exceeding the 2007-2008 fiscal year's $2 million goal, ASHRAE's efforts on the chapter and Society level for raising funds for research have led to a record-breaking year.

"Surpassing our goal for Research Promotion truly signifies the dedication of our volunteer base," says Bill Harrison, ASHRAE president. "ASHRAE volunteers are the backbone of our Research Promotion program, which is a grassroots effort. I thank each of the 160 dedicated fundraising volunteers on the chapter level for helping fund our research program, which is widely respected in the building industry."

With 6,000 total donations for the year, nearly half came from individual ASHRAE member donations, with corporate donations comprising the remainder. With an increase of nearly $300,000 over the previous year, the money raised will fund research projects beginning in the 2008-2009 fiscal year. ASHRAE conducts about $8 million in research in any given year, with projects often spanning several years. Currently, there are 92 active research projects, including ones focusing on hospital operating room air distribution and air quality on board commercial aircraft.

Individual chapters raise funds in a variety of ways, including golf tournaments, auctions and educational seminars. ASHRAE's Region VIII, which covers Oklahoma, Texas, Arkansas and Louisiana, led the regions in total funds raised with $375,591.

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ASHRAE Announces Scholarship Recipients

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has announced the recipients of 16 scholarships totaling $85,000 for the 2008-09 academic year.

The students, all pursuing courses leading to a career within the HVAC&R industry, will receive the following undergraduate ASHRAE scholarships:

- Reuben Trane Scholarships: $10,000 over two years, Jonathan Jenkins, University of Kansas, architectural engineering; Carrie Baughman, North Carolina State University, mechanical engineering; and Ashanti Hepburn, NC A&T State University, architectural engineering. The scholarship was established in 1991 when The Trane Co. established an endowment fund in memory of its founder.
- Willis H. Carrier Scholarship: $10,000 for one year, Felipe Pinsheira, Southern Illinois University-Carbondale, mechanical engineering; James Newman, Kansas State University, architectural engineering. The scholarship was established by The Carrier Corp. in memory of its founder, a pioneer in the HVAC&R industry known for his contributions to establishing air conditioning as an industry.
- Frank M. Coda Memorial Scholarship: $5,000 for one year, Martin Nolan, City College of the City University of New York, mechanical engineering. The scholarship is named in memory of ASHRAE's former executive vice president.

The following one-year $3,000 scholarships will be awarded:

- Henry Adams Scholarship: Alyssa Adams, Pennsylvania State University, architectural engineering. The scholarship was established by the consulting firm of Henry Adams Inc. in memory of its founder.
- Duane Hanson Scholarship: Susan Nagel, Kansas State University, architectural engineering. The scholarship's namesake was president of Gayner Engineers in San Francisco, Calif.
- Alwin B. Newton Scholarship: James Gawthrop, Pennsylvania State University, architectural engineering. The scholarship's namesake was an industry pioneer who was granted 219 patents and strived to provide knowledge to younger people in the industry.
- ASHRAE Region VIII Scholarship: Tanushree Thote, University of Arkansas, biological engineering.
- ASHRAE Scholarships: Clinton Gechter, University of Kansas, architectural engineering; and Paul Schack, University of Wisconsin-Madison, electrical engineering.
- Memorial Scholarship: Eric White, Southern Illinois University-Carbondale, mechanical engineering.
- Associate of Engineering Technology Scholarship: Jeffrey Normandy, Massasoit Community College, HVAC technology; Benjamin LaRose, State University of New York (Canton), air-conditioning engineering technology.
- Bachelor's Engineering Technology Scholarship: Jeffrey Hansen, Alfred State University (SUNY), mechanical engineering technology.

ASHRAE has awarded 180 scholarships during the past 19 years totaling more than $925,000. The ASHRAE scholarship program encourages and assists HVAC&R education through scholarships and fellowships.

In addition, ASHRAE has launched a Web page for its scholarship program – www.ashrae.org/scholarships. The page provides a summary of all ASHRAE scholarship opportunities for students seeking scholarship information, along with testimonials from former scholarship recipients.

For more information, visit the scholarships page or contact Lois Benedict, scholarship administrator, at lbenedict@ashrae.org.

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ASHRAE Publishes New Guidance on Commissioning Process

ATLANTA – Specific tasks to successfully implement the commissioning process for HVAC&R systems and assemblies are featured in a new guideline from ASHRAE.

ASHRAE Guideline 1.1, *HVAC&R Technical Requirements for the Commissioning Process*, describes the technical requirements for the application of the commissioning process described in ASHRAE Guideline 0-2005 that will verify that the HVAC&R systems achieve the owner's project requirements.

"The quality-oriented process outlined in the guideline provides improved quality and greater cost effectiveness compared to commissioning as currently practiced by many commissioning providers," Walter Grondzik, secretary of the committee that wrote the guideline, said. "One problem with the current practice is that 100 percent checking is performed

during the construction phase of the project delivery process, and this checking usually focuses on limited or targeted systems. Quality-based sampling is not used, and so the current approach has limited quality-based random inspection procedures."

The guideline contains more than 100 pages of annexes, providing concrete examples of forms and documents to assist the commissioning team and owners in their efforts to deliver quality buildings that meet the owner' s project requirements. Twenty-five sample checklists, covering pre-design, design and construction, are included along with a sample owner's project requirements verification test procedure.

The cost of ASHRAE Guideline 1.1, *HVAC&R Technical Requirements for the Commissioning Process*, is $69 ($55, ASHRAE members).

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

SIDEBAR

Why should you use the commissioning process? Commissioning a building (and systems within a building) helps ensure that:

- The owner's project requirements are complete, feasible and well-documented;
- The design team's solutions adequately address the owner's requirements;
- Construction is complete and of appropriate quality;
- The owner receives the training and project documentation to successfully operate the project;
- The many players in the project acquisition process can cooperate for the common good.

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Recreation Center Focus of ASHRAE Student Design Competition

ATLANTA – Healthy bodies and a healthy building go hand-in-hand in the winning entries for ASHRAE's 2008 Student Design Competition.

This year's competition featured architectural design as well as selection and design of HVAC&R systems for a 60,000-square-foot community recreation center. The center features a gym with two full-size basketball courts and a running track, a wellness center with fitness equipment room and aerobics room, a natatorium with a six-lane swimming pool and indoor racquetball courts.

First place in the HVAC system selection category is awarded to Alyssa Adams, James Gawthrop Jr., Amy Leventry, Gregory Smithmyer, Calvin Douglass, Justin Herzing and Michael Smith of The Pennsylvania State University, University Park, Pa. Their advisor is William Bahnfleth, Ph.D., P.E.

The students chose a ground-source heat pump with active chilled beams or fan coils in a four-pipe system configuration for both heating and cooling and a dedicated outdoor air system for all spaces with an enthalpy wheel for energy recovery and a solar assisted LiCl dehumidification unit in the natatorium space.

"This solution was found to be the most sustainable of all the systems considered," the students wrote. "It uses heat transfer from the earth as opposed to burning fossil fuels and utilizes solar energy from the solar thermal collection panels, reducing the amount of energy supplied to the building and the energy footprint of the facility. Electricity used by the facility is directly translated into emissions at the power plant. Therefore, minimizing the onsite energy consumption not only saves energy but also reduces carbon emissions."

First place in the HVAC system design category goes to Chaowanaphan Lekkham, Patarapol Puangkum, Pakorn Nontiwatwanich, Wiroj Ekwongmunkong and Supayos Suveepattananont of Chulalongkorn University, Bangkok, Thailand. Their faculty advisor is Chirdpun Vitooraporn, Ph.D.

The students chose an electric air-cooled chiller system with 134a as a primary refrigerant and water as a secondary refrigerant. Elements of the system include variable-speed drives, outside air units, CO2 sensors, and heat pipe and heat recovery wheel units.

"The relative energy consumption as well as relative operating and maintenance costs determined that the system is not only beneficial for the building owner and users but for the environment as well," the students wrote. "We believe our design provides a functional, economical, environmentally friendly and sustainable HVAC system for serving the center."

First place in the architectural design category is awarded to Alexandra Gibson, Justina Jones, Bryan Quarles and Bazigha Tufail of The University of Kansas, Lawrence, Kan. Their advisor is Brian A. Rock, Ph.D., P.E.

Their design was based on their goal of using sustainable technologies for HVAC&R, lighting, energy supply and water use. Key features include a green roof to combat the urban heat effect and to provide extra roof insulation as well as

contributing to CO2 absorption/oxygen output; rainwater harvesting; development of proper lighting controls detecting the amount of daylight penetration, efficient illumination fixtures and the use of light shelves for indirect lighting; and photovoltaic panels to minimize electricity use.

"To produce a building that includes all of these ideas while remaining beautiful and also acting as an educational tool, integration of these systems from the beginning from the design was a key element," the students wrote.

Awards will be presented at ASHRAE's 2009 Winter Meeting Jan. 24-28 in Chicago. Winning student groups will each have a poster presentation to display their projects at the meeting.

The competition recognizes outstanding student design projects, encourages undergraduate students to become involved in the profession, promotes teamwork and allows students to apply their knowledge of practical design.

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New Package from ASHRAE Gives Users Tools for LEED

ATLANTA – With a new package, ASHRAE has put the tools for making the most out of your LEED-intended project at your fingertips—at a discount.

To help architects, program managers, building owners, and others meet and learn about LEED requirements and the development of high-performing buildings, ASHRAE has put together a new package that includes three ASHRAE standards frequently used in conjunction with LEED v.2.2. Also included are the Standard 62.1 and Standard 90.1 User's Manuals and three books from the popular ASHRAE Advanced Energy Design Guide series.

"The ASHRAE Tools for LEED package is an unbeatable source of technical information for creating sustainable buildings," says W. Stephen Comstock, publisher. "ASHRAE standards have long been a part of the LEED program's technical requirements, and we are pleased to offer these standards together to best benefit the building industry."

The hard-copy-only package price is $426 ($335 ASHRAE members), a 30 percent discount. To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at www.ashrae.org.

The full package includes:

• ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P edition)

• 90.1-2004 User's Manual

• ANSI/ASHRAE Standard 62.1-2004,Ventilation for Acceptable Indoor Air Quality

• 62.1-2004 User's Manual

• ANSI/ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy

• Advanced Energy Design Guide for Small Office Buildings

• Advanced Energy Design Guide for Small Retail Buildings

• Advanced Energy Design Guide for K–12 School Buildings

• Procedures for Commercial Building Energy Audits

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ASHRAE, The Green Grid Collaborate to Develop Data Center Efficiency

ATLANTA – Publications that provide improved guidance for data center design and operation will result from a new agreement between ASHRAE and The Green Grid.

The cooperative publication agreement between ASHRAE and The Green Grid encourages the sharing of technical information, particularly guidance regarding energy efficiency, between the two groups.

With datacom center operations running 24 hours a week, 7 days a week, approximately three times the annual operating hours of most commercial properties, energy use is typically large and concentrated. As a result, issues such as sustainable design, energy efficiency and operating cost become critically important for these facilities.

"This agreement raises our collaboration efforts in the electronics industry and enhances our efforts to provide data center operators with important information to improve the energy efficiency of data centers, paralleling the work already being done by ASHRAE to improve energy efficiency in all types of buildings," said Roger Schmidt, chair of ASHRAE's technical committee on mission critical facilities, technology spaces and electronic equipment. "ASHRAE's unique membership makeup of manufacturers, designers, facility managers, architects and code officials will go a long way in assisting the member companies of The Green Grid."

"With energy shortages and rising energy costs now topping the list of concerns for large scale organizations, the movement to reduce data center and other IT energy usage patterns is quickly gaining momentum," said Geoffrey Noer, a director of The Green Grid. "We believe achieving greater IT energy efficiency is a crucial step to ensuring that growing companies can control costs while enabling future expansion."

The Green Grid, www.thegreengrid.org, is a global consortium dedicated to advancing energy efficiency in data centers and business computing ecosystems.

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ASHRAE, Global Cold Chain Alliance Ban to Promote Mutual Refrigeration Interests

ATLANTA – Under a new agreement, ASHRAE and the Global Cold Chain Alliance will work together in a strategic partnership to advance and promote the mutual interests of refrigeration and facility professionals.

Potential collaborative efforts include development of a refrigerated warehouse guide, updating the existing refrigeration warehouse chapter and other guidance in the ASHRAE Handbook, Refrigeration, and co-sponsoring of research related to refrigeration.

"ASHRAE's involvement in refrigeration began more than 100 years ago, and since that time the Society has been a strong link in the cold chain through our research, education and other technical information," ASHRAE President Bill Harrison said. "Through our agreement with the Global Cold Chain Alliance, we will strive to revitalize refrigeration to better serve the needs of the world. Working together, we must seek the best in refrigerants, efficiency, cost reduction, reliability and energy utilization."

"This signed agreement for Strategic Partnership between the Global Cold Chain Alliance and ASHRAE is an example of the strength of an industry addressing the challenges of a safe and efficient cold chain around the world. ASHRAE members represent a key element in the success of this initiative," Bill Hudson, president and CEO of the Global Cold Chain Alliance, said.

Comprised of its Core Partners, including the International Association of Refrigerated Warehouses, the World Food Logistics Organization, the International Refrigerated Transportation Association, and the International Association for Cold Storage Construction, the Global Cold Chain Alliance (GCCA) represents all major industries engaged in temperature-controlled logistics. GCCA unites partners to facilitate communication, networking, and education for the perishable food industry. For more information, visit www.gcca.org.