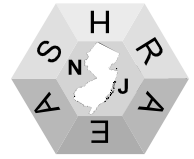




THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW.NJASHRAE.COM

SEPTEMBER 2007

REPLY@NJASHRAE.COM

CHAPTER OFFICERS

PRESIDENT

PETER FRANGISKOU P.E.
201-945-9999

PRESIDENT - ELECT

MARK RICHTER P.E.
212-354-5656

VICE-PRESIDENT

JANET SHIPTON
732-380-1100

TREASURER

JANET SHIPTON
732-380-1100

SECRETARY

CHRIS PHELAN
973-777-6700

BD. OF GOVERNORS

LINDA CAROLAN
908-663-2180

JORI FAHRENFELD
609-520-1600

ROBERT DALY P.E.
212-566-5764

HANK VITALE
908-753-1777

RUSS GRAHAM
908-663-2180

ROGER SHULTZ
973-396-4152

COMMITTEES

MEMBERSHIP

RUSS GRAHAM
908-663-2180

RESEARCH PROMOTION

CHRIS PHELAN
973-777-6700

STUDENT ACTIVITIES

PETER FRANGISKOU P.E.
201-945-9999

REFRIGERATION

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ROSTER/DIRECTORY

OPEN



OCTOBER 4 , 2007

Woodbridge Sheraton
Route 1, Gill Lane, Iselin, NJ

Cost: \$50.00 Members
\$55.00 Guests
\$ 5.00 Student

RSVP: **REPLY@NJASHRAE.COM**
NO LATER THAN OCTOBER 3RD , 2007

SCHEDULE: 4:30 Board of Governors Meeting
5:30 Guest Registration /Cocktail Hour
6:30 Chapter Announcements
7:15 Dinner and Presentation

DINNER TOPIC: **"Control Valve Sizing"**
PRESENTED BY Mr. Robert Rybka
Northeast Marketing Manager, Belimo America

Presentation will focus on sizing of Control Valves, overview and advantages of Pressure Independent Control Valves. Subjects will include; flow characteristic, rangeability, hydronic design consideration evaluation of pressure independent control valves versus globe valves, evaluation on cost comparison of control valves. By the end of the presentation, you will be able to:

- Cite the design criteria of PI Control Valves and the benefits of PI Control Valves in hydronic systems.*
- Identify the difference between equal percentage flow characteristic and linear output.*
- Explain valve authority and how valve authority affects the controllability of a valve.*
- Define the meaning of pressure independence by describing the operation of a pressure independent control valve.*
- Provide a comparison between the functionality of a pressure independent control valve, a flow limiting valve and a pressure dependant valve.*
- Cite the advantages of pressure independent control valves over non pressure independent control valves within the context of energy savings.*

COMMITTEES
(CONTINUED)

- CTTC – TEGA**
MARK RICHTER P.E.
212-354-5656
- NEWSLETTER ADS**
OPEN
- NEWSLETTER EDITOR**
MARK RICHTER P.E.
212-354-5656
- NOMINATING**
JORI FAHRENFELD
609-520-1600
- PROGRAM**
MARK RICHTER P.E.
212-354-5656
- SEMINARS**
MARK RICHTER P.E.
212-354-5656
- TECHNICAL SESSIONS**
MARK RICHTER P.E.
212-354-5656
- SCHOLARSHIP**
RUSS GRAHAM
908-663-2189
- SPECIAL EVENTS/GOLF OUTING**
CHRIS PHELAN
973-777-6700
- AUDIT**
RUSS GRAHAM
908-663-2189
- BUDGET**
JANET SHIPTON
732-380-1100
- HISTORIAN**
BOB DALY
212-566-5764
- ATTENDANCE/RECEPTION**
CHRIS PHELAN
973-777-6700
- HONORS & AWARDS**
JEFFREY GRANT
908-272-6755
- WEB PAGE DESIGN**
LINDA CAROLAN
908-663-2189
- CHAPTER BYLAWS**
LINDA CAROLAN
908-663-2180

WWW.NJASHRAE.COM
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ASHRAE ATLANTA
TOLL FREE NUMBER
1-(800)-527-4723

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Message from the President

I hope everyone enjoyed their summer and are eager for a new year of ASHRAE activities and involvement.

I would like to thank our past president, Jori Fahrenfeld, who continues to serve the chapter on the Board of Governors as well as the Officers and Board of Governors who are very dedicated in keeping our local chapter active. Our board and officers have been involved in the local ASHRAE chapter for a number of years and are looking for additional help. We realize that everybody's work schedule is very demanding but a couple of hours a month would be a great dedication to your Society and local chapter.

This year we have an exciting curriculum where some of the speakers will offer accredited PDH points for the Professional Engineers. We are also planning an all day Refrigeration tour and seminar.

With the world focused on environmental and energy issues, sustainability is a crucial topic where the federal government has enlisted ASHRAE's help. With all the new Green Building and LEED standards and topics, we are focusing our year on these topics in greater detail to keep our chapter members informed.

We are hoping to see more Consulting Engineering firms present at our local meetings and dinners.

We will also have our annual golf outing next spring. The last golf outing was a great success and turnaround. Everyone went home with a gift.

Once again, please join us in our monthly meetings and bring a friend or even a student. The next meeting will be held at the Sheraton in Woodbridge on October 4, 2007.

Hope to see you there.

Peter Frangiskou
Chapter President

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October Speaker Biography

Mr. Robert J. Rybka / Belimo America

Mr. Rybka has 39 years experience in installation, service, development, sales and technical training for process, HVAC, hydronic systems, and controls.

Since 2000, Mr. Rybka has been the Control Engineer Marketing Manager, Northeast Belimo Americas. His responsibilities include development of training programs for control engineers, developing markets for Belimo products, providing technical training in sizing and selection of control valve and damper actuators through direct digital and logic controllers. He is also involved in Product and Application Development.



Calendar of Upcoming Events

- October 4th** *NJ ASHRAE DINNER MEETING, WOODBRIDGE SHERATON*
SPECIAL GUEST - MR. LEE LOOMIS—RVC/CTTC ASHRAE REGION 1
“CONTROL VALVE SIZING” PRESENTED BY MR. BOB RYBKA
- November 1st** *NJ ASHRAE PAST PRESIDENT’S NIGHT DINNER MEETING,*
WOODBRIDGE SHERATON
“HIGH EFFICIENCY CONDENSING BOILER DESIGN
CONSIDERATIONS”, PRESENTED BY MR. PETER RIMASSA OF AERCO
- November 8th** *THE CROSSROADS IAQ/IEQ CONFERENCE*
SPONSORED BY NATIONAL ALLIANCE ENVIRONMENTAL SPECIALISTS AND
AFFILIATED-EHS, SHERATON HOTEL, MAHWAH N.J.
- December 6th** *NJ ASHRAE RESEARCH AND PROMOTION DINNER MEETING,*
WOODBRIDGE SHERATON
“RADIANT HEATING/SNOW MELTING”, PRESENTED BY
WATTS RADIANT
- January 16th** *NJ ASHRAE JOINT DINNER MEETING WITH N.J. MECHANICAL*
CONTRACTOR’S ASSOCIATION, WOODBRIDGE HILTON
DINNER PRESENTATION & SPEAKER TBA
- January 20th—24th** *ASHRAE 2008 WINTER MEETINGS,*
N.Y. HILTON, NEW YORK, N.Y.
- AHR EXPOSITION*
JAVITS CONVENTION CENTER, NEW YORK, N.Y.

CHAPTER COMMITTEES.....

Membership

ATTENTION ALL PRINCIPALS OF ENGINEERING FIRMS!

New Jersey ASHRAE and ASHRAE society need your help! Please encourage your associates to attend our monthly meetings and to take advantage of the opportunity to enhance their professional development. Attendance and participation are at an all time low and it is vital that we re-double our efforts to involve all of our members.

We need your feedback in order to improve our ability to serve you and your employees. New Jersey boasts one of the largest chapters, by membership, in the world and we need greater involvement in order to be successful. **Please help us to help you.**

Russ Graham

Research Promotion

The New Jersey Chapter would like to thank last year's donors again for investing in *ASHRAE Research*. We sincerely hope that you and your company will renew its support in this program so ASHRAE can continue its support of the HVAC&R industry. Not only does your generous contribution insure the future of our industry; it also influences the health and well being of all of us today and for future generations to come.

ASHRAE Research is benefiting the HVAC&R industry in many ways. For example, results from the research program help shape and revise the ASHRAE Handbook, which is used by professionals around the world. They are incorporated into ASHRAE standards to benefit the public and the HVAC&R industry. The results are being published in many formats so ASHRAE members and the HVAC&R industry can readily find and use the data and results.

Your investment in *ASHRAE Research* is doubly important because ASHRAE has a policy of matching contributions dollar for dollar from the revenues generated in its Winter AHR Expo. These funds are currently funding over 71 projects around the globe valued at over \$7 million. While this is impressive, ASHRAE has an additional 8 projects in negotiations that will need another \$1 million of investments!

Your investment is needed today because next year's research budget is based on contributions received this year by June 30th! Please consider renewing your support as soon as possible so we can put your investment to work starting the first thing in July.

Your investment should be sent to the New Jersey Chapter and we will forward it onto Headquarters. Please visit ASHRAE's website at www.ashrae.org for more information on ASHRAE's research and education programs. If you have any further questions, please feel free to contact me.

Thank you in advance for your consideration and continued support.

Chris Phelan
Resource Promotion Chair

CTTC

As incoming CTTC Chair, I am excited at the opportunity to provide Chapter Members with the latest information at both the Society and State Levels, which includes Technology, Government Affairs, or Refrigeration topics. Each Month, news clips are presented in the Thermogram, under Society News, which highlight current topics at the national level. However, I need your input on what is happening at the local level!

What's going on in our Great State of New Jersey! ? Have you designed, constructed, commissioned any unique projects, which could be submitted for both Society CTTC and Refrigeration award competitions as "State of the Art" or "One of Kind" projects. This national competition offers high visibility for your firm and yourself.

The CTTC Committee has many responsibilities to keep our members informed. As this industry is ever-changing, information sharing becomes more important. As such, I need Volunteers to assist as Refrigeration and Government Affairs Chairs, to arrange Refrigeration Tours, technical seminars, programs, trade shows, etc.. **Please help us to help you!**

Mark J. Richter, P.E / *CTTC Chair*

NEW JERSEY ASHRAE CHAPTER

CURRENTLY SEEKING VOLUNTEERS....

for various Chapter Committees to assist in providing our Chapter Members with more services, including expanding programs throughout the year.

Requirements:

- *A little bit of Commitment*
- *A little extra free time*
- *A little bit of Creative talent*

Benefits:

- *Learn about the latest technologies presented in the program sessions*
- *Attain continuing education credits*
- *Meet Industry associates in Networking Environment*
- *Enjoy a social hour.*

VOLUNTEERING ONE'S TIME CAN BE REWARDING, ON A PERSONAL LEVEL, AND WILL GO A LONG WAY TO BENEFITING THE CHAPTER FOR ALL.

We need volunteers in our industry to devote a small amount of their time and effort through the year to support our chapter.

If you would like to place an Help Wanted in the Thermogram, please contact Mark Richter @ 212-354-5656 or via email mrichter@AKF-eng.com for further details.

HELP WANTED

CUH2A (www.cuh2a.com) is a leader in the Science & Technology arena. We are currently seeking a **Sr. Instrumentation & Controls Engineer** for our Princeton office.

Requirements:

10 or more yrs experience in the design, documentation and specification of commercial/light industrial automatic control systems related to HVAC systems, including boilers and chilled water plants. Competency in the design of control systems associated with cGXP areas, clean rooms and sterile suites, as well as BSL-2 and BSL-3 laboratories. Experience in pharmaceutical, research facilities, government, institutional research, academic, corporate and/or emerging technology. B.S. degree in related field, P.E. license, strong communication skills. (LEED accreditation preferred). Selected candidate will perform inter-discipline coordination, estimate project budgets, construct instrumentation & control diagrams, and also run projects independently. CUH2A employees enjoy competitive salaries, comprehensive benefits, stimulating projects & a great work environment with high employee retention. To apply, pls. send your resume to recruiting@cuh2a.com with "NJ-ASHRAE Ad" on subject line.

T&M Associates is an award-winning, multi-discipline Consulting Engineering firm in business over 40 years. Join our 300 employees in Central Jersey and be a part of our continuing growth.

Current opportunities at our Middletown, NJ location include:

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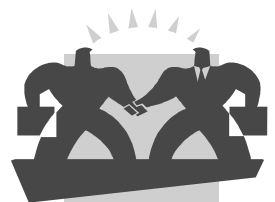
MECHANICAL ENGINEER

Design projects for educational, municipal, industrial, pharmaceutical and commercial facilities. Minimum 5 years mechanical design experience, including HVAC design, required. AutoCad experience preferred. BSME required. EIT preferred.

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Send resume with cover letter including salary requirements. Ref: T/ME:

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resumes@tandmassociates.com
EEO/AA Employer



ASHRAE Region I 2007-08 Executive Committee & Society Contacts

DRC – Director & Regional Chair

Garry N. Myers
Flack + Kurtz Inc.
73 Bonnie Way
Allendale, NJ 07401
212-951-2815
Garry.Myers@ny.fk.com

ARC – Assistant Regional Chair & Treasurer

Spencer Morasch
Jersey Central Power & Light
331 Newman Springs Road
Red Bank, NJ 07701
732-212-4133
smorasch@firstenergycorp.com

Nominating Committee Member

Emery Otruba, P.E.
262 Johnson Hill Rd
Hoosick Falls, NY 12090
518.686.4436
eotruba@verizon.net

Nominating Committee Alternate

Cliff Konitz
4 Dennis Road
Wappingers Falls, NY 12590
845-297-5864
c.konitz@verizon.net



RVC Membership Promotion

Joseph Furman
Belimo Americas
43 Old Ridgebury Road
Danbury, CT 06810
203-749-3163
joe.furman@us.belimo.com

RVC Research Promotion

Ron Swarthout
921 Forest Road
Endwell, NY 13790
607-754-7590
rswarthou@cs.com

RVC Chapter Technology Transfer

Lee Loomis
Center for Environmental Information
55 St. Paul St.
Rochester, New York 14604
585-738-3079
leeloom@aol.com

RVC Student Activities

Richard Vehlow
NYS Office of General Services
33rd floor Corning Tower GNARESP
Albany, NY 12242
518-486-1510

CRC 2007 REGION 1

Congratulations to NJ ASHRAE for a successful CRC!

Every year the chapters that comprise Region 1 (which includes NJ) meet at the Chapter Regional Conference (CRC) to discuss and vote on chapter, regional and society items of interest. Results of all of the CRC's are then taken to the Society meeting, so we have a voice in what happens with our organization.

This year's meeting was hosted by the Niagara Frontier Chapter and held at Niagara Falls, NY. The NJ Chapter Delegate, Jori Fahrenfeld and Alternate, Peter Frangiskou and committee chairs attended and represented our chapter. The committee chairs attending were Mark Richter, Chris Phelan, and Russ Graham.

New Jersey came away with numerous awards at the conference including the Full Circle Award, the Presidential Award of Excellence for Sustainability Activities, and the Presidential Award of Excellence Special Citation for significant improvement in membership, attendance, research promotion, education, chapter programs and technology. New Jersey was also recognized for the 50th Anniversary of the Chapter's Chartering, September 24, 1944 (our actual anniversary was in 2004, this is actually the chapter's 53rd anniversary).

New Jersey is well represented at the Regional level with Garry Myers as ASHRAE Region 1 Executive Committee DRC (Director and Regional Chair) and Spencer Morasch as the ARC (Assistant Regional Chair). Both are past presidents of NJ ASHRAE.

If you would like to submit project or technical articles in the Thermogram, please contact Mark Richter @ 212-354-5656 or via email mrichter@AKF-eng.com for further details.

SOCIETY NEWS.....

Performance Measurement, Carbon Metrics Studied by ASHRAE

ATLANTA – Just like the events in Alice in Wonderland, building performance isn't always what it seems. To ensure that buildings are designed to and actually operate at peak efficiency as intended, ASHRAE is developing tools related to carbon metrics and performance measurement.

ASHRAE, the Chartered Institute of Building Services Engineers and the U.S. Green Building Council are collaborating to provide guidance on measuring and reporting building performance. They are examining what should be measured and in what way to consistently achieve high-performance buildings over time.

The goal is to provide a consistent method of measuring, expressing and comparing energy use, water use and indoor environmental quality (IAQ, thermal comfort, acoustics and lighting) of buildings. Baseline criteria will be established in each of these areas.

"The design community needs a method for evaluating building performance that is objective, consistent and repeatable across a wide variety of building types and systems," said Lynn Bellenger, chair of ASHRAE's Technology Council, which is overseeing both studies. "This undertaking will produce procedures and benchmark performance that designers can use to evaluate their projects and gauge the impact of sustainable design on actual building performance. We have made significant strides in energy modeling and improving building designs – these new tools will help ensure that those successes result in improved indoor environmental quality and reduced water and energy use."

The initial phase of the study, an extensive literature evaluation, is expected to be completed Sept. 1, 2007.

In other research, ASHRAE is working to provide measures of the carbon emission equivalents of the energy used in buildings (gas, electricity, and other fuels).

While first order estimates are available from U.S. Environmental Protection Agency tools, the conversion factors need to be known by region and by time of day, including benchmarks. This would allow accurate tools to be made available to designers to evaluate the carbon footprint of their proposed designs.

"More than ever before, the design community is focused on making wise energy choices early in the design stages," Bellenger said. "A carbon metrics estimating tool that is specific to regional and time-of-day variations will assist architects and engineers in understanding the impact of those choices and in selecting systems and products that ultimately reduce the building's carbon footprint."

ASHRAE to Provide Design Guidance for Green Health Care Facilities

ATLANTA – Working to make advanced energy efficiency guidance mainstream, ASHRAE is developing a code-intended baseline sustainability standard for health care facilities.

Proposed Standard 189.2, Design, Construction and Operation of High-Performance Green Health Care Facilities, will prescribe the procedures, methods and documentation requirements related to high performance green health care facilities.

"ASHRAE has long understood the unique qualities that define the health care facility," Rick Hermans, a member of ASHRAE's technical committee related to health care design. "High-performance green design, construction, and operation must recognize those unique qualities in order to be effective in the context of the health care environment. This standard will carefully comply with the requirements of health care givers while implementing the necessities of sustainability."

It will apply to patient care areas and related support areas, including hospitals, nursing facilities and outpatient facilities. The standard will also apply to new buildings, additions to existing buildings and alterations to existing buildings.

ASHRAE currently is seeking members to form a committee to write the standard. In addition, public comment is being sought until Sept. 3 on the proposed title, purpose and scope of the standard. For more information, visit www.ashrae.org/publicreviews, and look for the standards action notice dated July 20.

SOCIETY NEWS.....

Varied HVAC Systems Featured in ASHRAE Headquarters Renovation

ATLANTA – Once completed, ASHRAE's renovated headquarters building in Atlanta will feature two separate HVAC systems as part of its role as living lab.

ASHRAE's Board of Directors has given the project its final stamp of approval. ASHRAE staff will move into temporary offices in September. The renovation is expected to be completed in June 2008 at an estimated cost of \$5.4 million. The renovated building will feature a new learning center and will serve as a living lab.

"The living lab will support the ASHRAE research program with a rich resource of data on building, system and equipment performance, a demonstration of performance monitoring, and space for 'real world' investigations in an operating building," said Bill Harrison, ASHRAE president-elect who serves as chair of the committee overseeing the project.

Complete information on the renovation can be found at www.ashrae.org/building.



Level one of the building will feature air-cooled multi-split variable refrigerant flow fan coil units with zoned inverter-driven outdoor heat pumps. Level two will feature ground source direct expansion heat pumps for cooling and heating.

Both systems will use a common dedicated outside air system (DOAS), served by a 100 percent outside air unit with energy recovery wheel, series desiccant dehumidification wheel, electrostatic enhanced filters and DX air-cooled R410 multi-stage compressor/condensers.

ASHRAE plans to apply for a LEED Gold certification under the U.S. Green Building Council's Leadership in Energy and Environmental Design rating system.

SOCIETY NEWS.....

ASHRAE Strives to Provide Advanced Energy Savings by 2010

ATLANTA – Declaring that the building industry must improve building energy efficiency, ASHRAE is striving to increase building energy efficiency in Standard 90.1.

ASHRAE is committed to continually improving building energy performance. The savings are part of ASHRAE's goal to achieve market-viable net-zero energy buildings by 2030.

"Building energy standards and codes play a vital role in helping reduce future U.S. building energy consumption by setting the minimum energy efficiency requirements that all new and renovated buildings must meet," Kent Peterson, P.E., ASHRAE president, said. "But we must improve minimum building energy efficiency standards if we are to truly improve energy performance of the built environment. As such, ASHRAE is making a more aggressive effort to improve the minimum energy efficiency of new building construction not only in the United States but throughout the world."

The plan to achieve 30 percent savings in 2010 is based on an average for all building types and climate weighted energy cost savings and may not be achieved for every building in every climate. Other elements of the plan are:

- Estimates of energy savings improvement be based on the total annual energy cost of the facility
- Energy savings estimated on ongoing basis
- Improvement calculations made in conjunction with technical resources made available by the Department of Energy.

Any changes to Standard 90.1 will continue to follow ASHRAE's standards development process, which is approved by the American National Standards Institute and based on achieving consensus.

Those interested in contributing ideas on the advanced energy savings can submit comments via www.ashrae.org/technology/page/812.

Schumer Energy Plan Reinforces ASHRAE Guidance

ATLANTA – With the announcement of Sen. Charles Schumer's (D-NY) amendments to H.R. 6, the CLEAN Energy Act of 2007, the American Society of Heating, Refrigerating and Air-Conditioning Engineers' goal of moving toward net-zero energy use in buildings is reinforced. Sen. Schumer has included ASHRAE guidance in the amendments, specifically future versions of ANSI/ASHRAE/IESNA Standard 90.1, ASHRAE's flagship building energy standard.

A vote on the proposed legislation is expected within the next week in the Senate.

Sen. Schumer's plan calls for a 30 percent increase in energy efficiency in Standard 90.1 over the 2004 version by 2015 and 50 percent improvement by 2022. ASHRAE's current goal is to achieve 30 percent energy savings by 2010. Standard 90.1 is currently the basis for buildings codes across the United States.

While ASHRAE has no official stance on the plan and is not offering an endorsement, ASHRAE President Terry Townsend appreciates the attention being given to sustainable buildings and the importance of Standard 90.1. "ASHRAE has been involved in creating standards for more efficient buildings since the energy crisis of the 1970s," says Townsend. "We appreciate the recognition of the importance of Standard 90.1, and we will continue on our mission of moving toward achieving net-zero-energy buildings. We welcome this topic being discussed in the national spotlight."

ANSI/ASHRAE/IESNA Standard 90.1 was developed during the energy crisis to create a baseline for energy use in buildings. Now, more than 30 years later, the standard has been adopted into building codes worldwide.

ASHRAE offers substantial guidance on building energy reduction through its series of Advanced Energy Design Guide publications that give prescriptive guidance on achieving 30 percent energy savings. ASHRAE aims to follow up the 30 percent series with 50 percent reduction guidance, beginning early next year. The first and second guides were for small office and small retail buildings, respectively, and guides for K-12 schools and warehouses will be published in December 2007.

SOCIETY NEWS.....

Schumer Energy Plan Reinforces ASHRAE Guidance - Continued

ASHRAE's energy efficiency related activities also include offering technical guidance to cities involved in the Clinton Climate Initiative, which recently announced its Energy Efficiency Building Retrofit Program, which will reduce energy use in existing buildings in 16 of the world's largest cities. "Buildings in the United States account for 40 percent of total energy use," says Townsend. "Making existing buildings more efficient is key to reducing energy and carbon emissions."

ASHRAE also continues work on proposed Standard 189, developed in conjunction with the U.S. Green Building Council and the Illuminating Engineering Society of North America. Out for public review until July 9, the standard will provide minimum guidelines for green building practices. Standard 189, applicable to new commercial buildings and major renovation projects, will address energy efficiency, a building's impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality. The organizations involved in its creation

ASHRAE, United Nations Partner on Emission Reduction

ATLANTA – As the 20th anniversary of the signing of the Montreal Protocol approaches, two international organizations focused on the environment have joined forces to reduce emissions and encourage energy-efficient refrigeration and air conditioning systems and building designs.

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the United Nations Environment Programme (UNEP), Division of Technology, Industry and Economics (DTIE) have formalized an agreement to cooperate in several technical issues, such as assessing and addressing remaining chlorofluorocarbon-based chillers. The two organizations also will promote sustainable activities in areas such as emissions reduction and energy efficient systems and building design.

In the mid-1980s, worldwide concern occurred over damage to the ozone layer from the use of ozone-depleting substances such as chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs). These substances have important applications, including refrigerants, heat transfer fluids and blowing agents for insulating foams.

In 1987, the Montreal Protocol was adopted after a hole was discovered in the ozone layer over Antarctica. Under the Protocol, CFC use for new equipment has ceased in developed countries, and HCFC usage has been capped and is scheduled to be phased out. Developing countries have agreed to phaseout schedules for both CFCs and HCFCs and have made substantial progress in meeting this commitment. Many new technologies to replace CFCs and HCFCs have emerged with hydrofluorocarbons (HFCs), which have zero ozone depletion potential but positive global warming potential, as one of the most popular.

"ASHRAE and the heating, ventilating, air-conditioning and refrigerating (HVAC&R) industry are responding to growing global demand for new technologies that do not contribute to ozone depletion and are energy efficient," Terry Townsend, ASHRAE president, said. "Energy efficiency is a key issue because the burning of fossil fuels to generate electric power is considered a major greenhouse gas emitter. By partnering with UNEP/DTIE, we can further our respective work by mutual exchange of technical guidance."

"Thirty months from now, CFCs will only be found in history books with a remaining burden to deal with thousands of tones banked in existing systems," Rajendra Shende of UNEP said. "An international debate has just also triggered about accelerated scenarios for phasing out HCFCs as well as the future of higher global warming HFCs refrigerants. It's quite clear that HVAC&R industry has and will continue evolving rapidly to respond to such global concerns and movements. Joining hands with ASHRAE as a world pioneering association in HVAC&R will definitely have its positive impact in addressing many clients with latest technologies and updates."

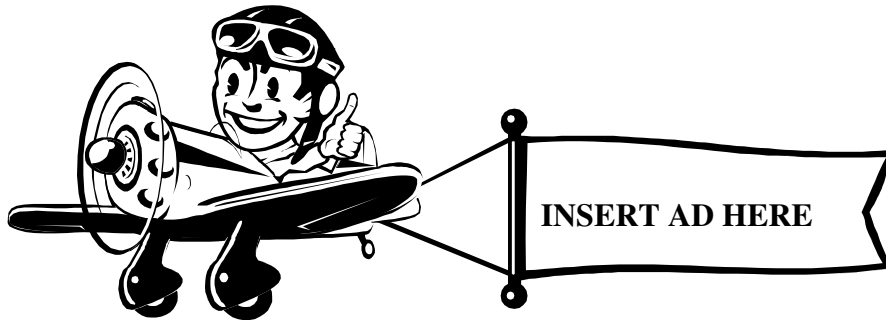
ASHRAE and UNEP previously collaborated on a smaller scale with the signing and implementation of a regional cooperation agreement between the UNEP regional office in West Asia and ASHRAE's local chapters.

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.

UNEP, the United Nations Environment Agency, is an Implementing Agency under the Multilateral Fund for the implementation of the Montreal Protocol and the Global Environment Facility. Under these mandates, UNEP/DTIE's OzonAction Branch assists developing countries and countries with economies in transition to comply with the control measures set by Montreal Protocol and its amendments.



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