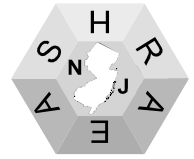




THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW.NJASHRAE.COM

FEBRUARY 2007

REPLY@NJASHRAE.COM

CHAPTER OFFICERS

PRESIDENT

JORI FAHRENFELD
609-520-1600

PRESIDENT - ELECT

PETER FRANGISKOU P.E.
201-945-9999

VICE-PRESIDENT

MARK RICHTER P.E.
212-354-5656

TREASURER

OPEN

SECRETARY

JANET SHIPTON
732-380-1100

BD. OF GOVERNORS

LINDA CAROLAN
908-663-2180

RUTH GIACOBBE
732-968-4850

YOGESH SHAH P.E.
201-447-6400

CHRIS PHELAN
973-777-6700

RUSS GRAHAM
908-663-2180

COMMITTEES

MEMBERSHIP

CHRIS PHELAN
973-777-6700

RESEARCH PROMOTION

YOGESH SHAH P.E.
201-447-6400

STUDENT ACTIVITIES

PETER FRANGISKOU P.E.
201-945-9999

REFRIGERATION

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MARCH 1, 2007

WOODBIDGE SHERATON ROUTE 1, GILL LANE, ISELIN, NJ

SPECIAL EVENING

“ROLL BACK DINNER PRICES”

COST \$30.00 MEMBERS, \$35.00 GUESTS & \$5.00 STUDENT

RSVP TO:

WWW.REPLY@NJASHRAE.COM
NO LATER THAN FEB 28, 2007

4:30 BOARD OF GOVERNORS MEETING
5:30 GUEST REGISTRATION / COCKTAIL HOUR
6:30 CHAPTER ANNOUNCEMENTS
7:15 DINNER AND PRESENTATION

DINNER TOPIC:

“BASIC PRINCIPLES OF AIR DISTRIBUTION”

PRESENTED BY:

MR. PETER PETRACCO
NEW JERSEY AIR PRODUCTS

The presentation topic addresses the principles in air outlet and air terminal types, their applications, and misapplications.

IN ORDER TO PROVIDE OUR CHAPTER MEMBERS WITH MORE SERVICES, INCLUDING EXPANDED AND INTERESTING PROGRAMS, WE NEED VOLUNTEERS IN OUR INDUSTRY TO DEVOTE A SMALL AMOUNT OF THEIR TIME AND EFFORT THROUGH THE YEAR. VOLUNTEERING ONE'S TIME CAN BE REWARDING WILL GO A LONG WAY TO BENEFITING THE CHAPTER FOR ALL. IF INTERESTED, PLEASE CONTACT ONE OF THE OFFICERS OR BOARD OF GOVERNORS.

COMMITTEES
(CONTINUED)

CTTC – TEGA

MARK RICHTER P.E.
212-354-5656

NEWSLETTER ADS

OPEN

NEWSLETTER EDITOR

MARK RICHTER P.E.
212-354-5656

NOMINATING

RUSS GRAHAM
908-663-2189

PROGRAM

PETER FRANGISKOU P.E.
201-945-9999

SEMINARS

MARK RICHTER P.E.
212-354-5656

TECHNICAL SESSIONS

PETER FRANGISKOU P.E.
201-945-9999

SCHOLARSHIP

RUSS GRAHAM
908-663-2189

SPECIAL EVENTS/GOLF OUTING

CHRIS PHELAN
973-777-6700

AUDIT

LINDA CAROLAN
908-663-2189

BUDGET

MARK RICHTER
212-354-5656

HISTORIAN

BOB DALY

ATTENDANCE/RECEPTION

MARK MCLEOD
973-633-7730

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
WWW.REPLY@NJASHRAE.COM

ASHRAE ATLANTA
TOLL FREE NUMBER
1-(800)-527-4723

NJ ASHRAE CHAPTER WE NEED VOLUNTEERS !!!

ASHRAE Members Get Energized in Dallas

ATLANTA – The adage that everything is bigger in Texas proved true for the 2007 ASHRAE Winter Meeting held last week in Dallas.

ASHRAE can boast of a large turnout for overall meeting attendance, record attendance at social events, and high attendance at the International Air Conditioning, Heating, Refrigerating (AHR) Exposition cosponsored by ASHRAE and the Air-Conditioning and Refrigeration Institute (ARI).

“Obviously our members took the meeting theme of ‘get energized in Dallas’ to heart,” Terry Townsend, P.E., ASHRAE president, said. “Our meetings are an integral part of our Society, providing attendees with a first-hand look at the latest technology and allowing them to advance their education, network with fellow members from all over the world and influence technology.”

The ASHRAE meeting had a total attendance of 2,634, an increase of nearly 200 over the 2006 Winter Meeting in Chicago. Registration for social events, also up over previous years, was more than 800 for the Welcome Party; more than 600 for the president’s luncheon; and 557 for the Members’ Night Out.

Two big events were motivational speaker Diana Nyad, who received a standing ovation for her inspiring story about setting the world record for completing the longest swim in history – 102.5 miles from the coast of Bimini to the Florida shore, and Dennis Dimick, executive editor at National Geographic Magazine, who discussed three 2004 National Geographic magazine articles, “Signs from Earth” that document emergent effects of climate change observed worldwide.

Top-selling publications at the meeting were the new ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings; HVAC Simplified, the Advanced Energy Design Guide for Small Retail Buildings and the ASHRAE Handbook CD+.

The ASHRAE Learning Institute courses also were well-attended by nearly 1,000 people. The top-drawing courses dealt with green buildings, Standard 90.1, health care facilities design and commissioning.

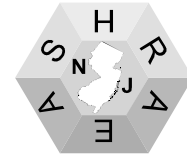
The AHR Expo, sponsored by ASHRAE and ARI also proved to be “Texas-sized” with 1,789 total exhibiting companies and 354,057 square feet of net exhibit space. Total Expo attendance topped 47,000, including 28,130 visitors and 19,065 registered exhibitor personnel.

Comparatively, the first co-sponsored show in the Southwest held in Dallas in 1976 drew 284 exhibiting companies and 90,197 square feet of net exhibit space.

ASHRAE will hold its 2007 Annual Meeting in Long Beach, June 23-27, followed by its 2008 Winter Meeting, Jan. 19-23 in New York, accompanied by the AHR Expo, Jan. 22-24.



NJ ASHRAE 2006 – 2007
DINNER MEETING SCHEDULE



MARCH 1, 2007
AIR OUTLET DESIGN AND DISTRIBUTION
MR. PETER PETRACCO
N.J. AIR PRODUCTS

APRIL 5, 2007
STUDENT NIGHT
CHILLED CEILING IN PARALLEL WITH DEDICATED OUTDOOR AIR
SYSTEMS (DOAS)
ASHRAE DISTINGUISHED LECTURER
MR. STANLEY MUMMA, PHD

MAY 3, 2007
SCHOLARSHIP AWARD NIGHT
INSTALLATION OF OFFICERS
JOINT MEETING WITH N.J. USGBC
TBD

JUNE 7, 2007
SPOUSES NIGHT

2006-2007 PRESIDENTIAL AWARD OF EXCELLENCE (PAOE) SUMMARY

Chapter #	Chapter Name	Chapter Members/ students	Member Promotion	Student Activities	Research Promotion	CTTC	History	Chapter Operations	Chapter PAOE Totals
007	N.J.	831	260	490	330	280	75	610	2045

HELP WANTED

Company:	Clive Samuels and Associates	Location:	Princeton New Jersey
Company Profile:		Other Categories:	
Specialty Field:	Commercial	Training/Education:	BSME; PE License Required
Experience:	10+	Salary Range:	TBD

Specific job responsibilities / qualifications required including certifications:

Would you like to be part of the MEP Design Engineer industry? Do you want to be challenged by opportunities that expose you to many facets of building design development?

As a Mechanical Lead Engineer for our Princeton NJ based MEP Consulting Engineering Firm (Division of Emerson Electric a Fortune 200 Corp), you will play a key role in performing complex engineering, design, analysis and other technical tasks utilizing current technology and available standards.

Perform a technical leadership role supervising, coordinating and directing others in the production of customer-focused design services that meet established project requirements.

Participate in business development activities including sales, proposal preparation and client presentations.

Requirements:

- + Senior-level engineering assignment to a project or organizational team, or as a Lead Engineer for a specific discipline or larger projects
- + Independently develops and/or supervises the creation of engineering documents that meet customer quality requirements; typical responsibilities may include detailed calculations and analyses, drawing review, technical reports, proposal evaluations, design and installation packages and development of specifications
- + May supervise or mentor one or more subordinates and provide input regarding performance.
- + Responsible for selection, layout and sizing of applicable systems and equipment
- + Identifies problems, establishes work scope, prepares budget and schedule, plans work, provides technical direction, and reports work status
- + Performs internal and external project management responsibilities as required
- + Represents design team at project and client meetings
- + Reviews, signs and seals drawings, specifications, calculations, reports and other documents.

CSA offers a competitive salary and excellent benefits, including medical, dental, life insurance, 401K with company match. We are an Equal Opportunity Employer and hire regardless of race, color, religion, general, natural origin, disability or veteran status.

Clive Samuels and Associates

105 College Road East 105 College Road East 105 College Road E
Princeton, NJ

HELP WANTED

WANTED – TOP NOTCH ENGINEERS / TECHNICIANS!!

Specializing in hands-on field testing and evaluation of HVAC systems and site utilities, the Dome-Tech Group provides engineering services, energy consulting and project development and implementation to optimize building performance, reduce energy expenses and improve indoor environmental quality. Dome-Tech is actively hiring for the following challenging career positions:

Commissioning Field Technician / Engineer

The ideal candidate must have 5+ years of field related experience with HVAC systems such as air/water balancing, system start-up and commissioning, service/maintenance, operations and troubleshooting. Experience conducting functional tests of chillers, boilers, AHUs, VAVs and other HVAC equipment required. An engineering or technology degree is desired.

Energy Engineer

Dome-Tech Energy Advisors is seeking qualified energy engineers to support demand for its energy consulting services. The ideal candidate will possess either a BSME or BSEE (PE, CEM desired) with experience in energy auditing, project screening and energy engineering.

Project Engineer

Dome-Tech Energy Solutions (DES) is seeking qualified project engineers to support the growing demand for our turnkey design/build services. The ideal candidate will possess a BSME (PE, CEM desired) and mechanical design experience with central plant utility systems (chilled water & steam). Candidate must have design experience in heating / cooling load calculations, pipe sizing and pressure drop calculations, combined heat and power analysis, and energy conservation measures, including life cycle cost analysis.

Sr. Project Engineer – Pump Systems

Dome-Tech Energy Solutions (DES) is seeking a qualified project engineer to support the growing demand for pump system projects for our municipal and utility customers. The ideal candidate will possess a BSME and have experience identifying and analyzing root causes of pump system degradation or failure. Candidate must be able to identify opportunities to improve pump system performance (repair, upgrade, replace) as part of energy conservation management program. Experience with numerous pumps / pumping system designs is essential – utility, HVAC and process pumps.

Salary / Benefits: Competitive salary commensurate with experience, medical/dental benefits, 401K, flexible spending account, paid vacation and holidays.

Please email resumes to recruiting@dome-tech.com or fax to 732-590-0129.

Joe Martino, Technical Staffing

Phone: (732) 590-0122, ext. 133

Fax: (732) 590-0129

E-mail: recruiting@dome-tech.com

Website: www.dome-tech.com

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HELP WANTED

HVAC Engineer wanted for Princeton, New Jersey consulting firm. Experience in design of HVAC systems for institutional and commercial buildings required. AutoCad proficiency is a must. Position is for a hands-on, production oriented individual.

Our firm provides full building systems design services for a variety of building types, including theaters, government, university and historical structures.

Work is interesting and challenging in an informal atmosphere with opportunity for advancement.

Candidate should have worked at a consulting firm doing similar work for a minimum of two years.

Four year college degree desirable, EIT a plus.

Send resumes to contact@pegllc.com.

Princeton Engineering Group, LLC

100A Forrestal Road

Princeton, NJ 08540



SHINE ENGINEERING, P.A.

Shine Engineering a multi-disciplined engineering firm seeks HVAC Design Engineer with a minimum of 3 years experience in designing commercial spaces. Must be proficient with AutoCAD. This represents an excellent opportunity to work for a small company and learn all phases of the business including project management, design, engineering and building surveys.

Qualifications:

- Excellent communication skills and have ability to articulate conceptual ideas with clients.
- BSME Required
- Autocad

Responsibilities:

1. Mechanical design engineer on multiple projects from schematic through construction phases.
2. Complete design and specifications with supervision.
3. Coordinate project work between mechanical, electrical & plumbing engineering's.

Salary/Benefits:

Competitive salary, 100% full medical, retirement plan

Submit resume via email with salary requirement to: john@shineengineering.com

SHINE ENGINEERING, P.A.

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Montville, New Jersey 07045

Tel (973) 402-2125 Fax (973) 402-2126

HELP WANTED

Arup is a leading international planning & design firm comprised of about 7,000 employees worldwide in 70+ offices. We are involved in the design of some of the most prestigious building & transportation projects locally & worldwide.

Due to the growth of our NY and NJ office locations Arup is currently accepting resumes for the following positions:

Sr. HVAC Design Engineer (NJ)
Tunnel Ventilation Design Engineer (NY)
Mid Level HVAC Design Engineer (NY)
Mid – Senior Level Electrical Engineer (NY/NJ)
Civil Engineer (w/ I Rail or In Roads exp.) (NY)

To apply & for a full listing of current job vacancies please visit our website at www.arup.com/americas .

SOCIETY NEWS.....

ASHRAE, REHVA Partner to Encourage Sustainability

ATLANTA - ASHRAE and the Federation of European Heating and Air-Conditioning Associations (REHVA) have formalized a longtime relationship through signing of a new memorandum of understanding. The memorandum, signed today at ASHRAE's 2007 Winter Meeting, calls for increased cooperation between the two associations.

"The challenges of the insecure energy situation and the public's request for better and more secure buildings are huge," Olli Seppänen, president of REHVA, said. "ASHRAE and REHVA must work together to find the best sustainable technology for superior indoor environment for buildings. Coordination and cooperation is needed so that duplication of efforts is avoided and that the limited resources are used most efficiently."

Europe is committed to a strong energy policy, Seppänen noted. The goal for energy saving is set at 20 percent by the year 2020 in Europe. Steps toward this goal include an energy efficiency and energy services directive from April 2006 that sets the goal for energy savings in the member states at 1 percent per year during the next nine years, and requests national energy efficiency plans in June 2007. The European commission also prepares a directive for minimum energy performance standards for 14 priority energy products in 2007.

ASHRAE is pursuing a similar goal, with hopes of achieving net-zero energy use by the year 2020.

"This agreement strengthens the long-time relationship between ASHRAE and REHVA," Terry Townsend, president of ASHRAE, said. "We must continue to work together to gain technical knowledge and to share it. The engineers who belong to ASHRAE and REHVA are searching for new technology and guidance to develop safe, comfortable, healthy energy-efficient buildings. This agreement encourages our organizations to work together to ensure more sustainable environments all around the world."

REHVA represents 30 national engineering associations in Europe representing more than 100,000 experts in the area of heating, air-conditioning, ventilation and refrigeration. It is based in Brussels, Belgium.

ASHRAE, founded in 1894, is an international organization of 55,000 persons from 130 countries. 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.

SOCIETY NEWS.....

ASHRAE Recognizes Outstanding HVAC&R Industry Achievements

DALLAS - The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recognized 42 people for their contributions to ASHRAE and the HVAC&R industry at the Society's 2007 Winter Meeting held in Dallas Jan. 27-31.

The ASHRAE Hall of Fame honors deceased members of the Society who have made milestone contributions to the growth of HVAC&R technology. The Society inducts Mary Engle Pennington, Ph.D., whose pioneering work improved the safety of perishable foods, into the ASHRAE Hall of Fame. Pennington was the first female member of and a Fellow of The American Society of Refrigerating Engineers (ASRE), an ASHRAE predecessor Society. She was known for her outstanding contributions to the refrigerated preservation of foods in storage.

The ASHRAE/ALCO Medal for Distinguished Public Service recognizes distinguished public service by an ASHRAE member. The recipient is David McKenney, P.E., Life Member, chairman and executive officer, McKenney's Inc.: Mechanical Contractors and Engineers, Atlanta. Fellow ASHRAE is a membership grade that recognizes distinction in the arts and sciences of environmental technology. The honor is earned through achievement as a researcher, designer, educator or engineering executive. The Society elevated 19 members to the grade of Fellow ASHRAE:

- William A. Acorn, P.E., principal of Acorn Consulting Services, Tucson, Ariz.
- Robert A. Bunn, P.E., Life Member, consulting engineer, Nashville, Tenn.
- Richard C. Cavestri, Ph.D., director and owner of Imagination Resources, Inc., Dublin, Ohio, a research firm.
- Florea Chiriac, Ph.D., professor of thermodynamics, refrigeration and air conditioning at the Technical University of Civil Engineering, Bucharest, Romania.
- Cynthia L. Gage, Ph.D., senior research engineer with the U.S. Environmental Protection Agency in Research Triangle Park, N.C.
- Eckhard A. Groll, Ph.D., professor and the director of global initiatives, cooperative education and professional experience in the Department of Mechanical Engineering at Purdue University.
- Jeff S. Haberl, Ph.D., P.E., professor in the Department of Architecture and the director of the Energy Systems Laboratory at Texas A&M University, College Station, Texas.
- Mark M. Hydeman, P.E., principal at Taylor Engineering, Alameda, Calif.
- Jiin-Yuh Jang, Ph.D., professor and chairman of the Department of Mechanical Engineering at National Cheng-Kung University, Tainan, Taiwan.
- K. S. Kannan, Ph.D., P.Eng., C.Eng., chief project coordinator at the Malaysia Energy Centre, Selangor, Malaysia.
- Yuguo Li, Ph.D., associate professor in the Department of Mechanical Engineering at the University of Hong Kong.
- Kent Peterson, P.E., founding principal and chief engineer of P2S Engineering, Long Beach, Calif.
- Laurentino Punsalan, P.E., Life Member, managing partner of L.R. Punsalan & Associates, Makati City, Philippines.
- K. Reinhard Radermacher, Ph.D., professor and a director/founder of the Center for Environmental Energy Engineering in the Department of Mechanical Engineering at the University of Maryland.
- Peter Simmonds, Ph.D., associate with IBE Consulting Engineers, Sherman Oaks, Calif.
- Sriram Somasundaram, Ph.D., staff scientist at Pacific Northwest National Laboratory in Richland, Wash.
- Shin-ichi Tanabe, Dr.Eng., professor in the Department of Architecture at Waseda University, Tokyo, Japan.
- Kuan-Hsiung Yang, Ph.D., professor in the Department of Mechanical and Electro-Mechanical Engineering, National Sun Yat-Sen University, Taiwan.
- Hiroshi Yososhino, Ph.D., professor in the Department of Architecture and Building Sciences at Tohoku University, Sendai, Japan.

SOCIETY NEWS.....**ASHRAE Recognizes Outstanding HVAC&R Industry Achievements—continued**

The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building designs, which incorporate ASHRAE standards for effective energy management and indoor air quality. Three projects received first-place ASHRAE Technology Awards:

- Matt Younger, P.E., principal of Stantec Consulting, Seattle, Wash., received first place in the new health care facilities category for his design for the Washington Department of Veterans Affairs, Retsil, Wash.
- Receiving first place in the new industrial facilities or processes category are Pierre Roussel, P.E., vice president of the mechanical division, and Jacques Lagace, P.E., vice president of innovation and major projects, at Bouthillette Parizeau & Associates for their design of the thermal plant at the Pierre-Elliot Trudeau Airport in Montreal, Quebec, Canada.
- Daniel Pare, project manager for IBM in Bromont, Quebec, Canada, received first place in the existing industrial facilities or processes category for his design for an IBM semiconductor packaging facility in his hometown.

Projects receiving ASHRAE Technology Awards honorable mentions are:

- Ronald Gagnon, president, Concept-R Inc., Sorel-Tracy, Quebec, Canada, new commercial buildings category, Comptoir Richelieu Botanix, Sorel-Tracy, Quebec, Canada.
- George Karidis, P.E., vice president and director of mechanical engineering, SmithGroup Inc., Detroit, new commercial buildings category, Visteon Village's corporate headquarters in Van Buren Township, Michigan.
- Ronald Henning, P.E., principal, SmithGroup Inc., Detroit, new institutional buildings category, University of Michigan's Life Sciences Institute, Ann Arbor, Michigan.
- Norman J. Brown, P.E., principal, CDi Engineers, Lynwood, Wash., public assembly category, Seattle Center Marion Oliver McCaw Hall Renovation, Seattle, Wash.

The ASHRAE Student Design Project Competition challenged teams of undergraduate students to focus on the mixed-use renovation of the Dallas Power & Light building in a historic area of Dallas. First place winners in the HVAC system selection and HVAC system design categories are awarded to the same team from The Pennsylvania State University: Justin Bern, Kevin Kaufman, David Melfi, Jon Gridley, Jessica Lucas and Yulien Wong. Their faculty advisor is William P. Bahnfleth, Ph.D., P.E. First place in the architectural design category was awarded to Alissa Ogen and Sonia Carias of Savannah College of Art and Design. Their faculty advisor is Emad M. Afifi, Ph.D.

The E.K. Campbell Award honors outstanding achievements by engineering educators. The recipient is Ronald H. Howell, Ph.D., P.E., Fellow ASHRAE, Life Member, who serves as an adjunct lecturer at Boise State University in Boise, Idaho.

The John F. James International Award is given to an ASHRAE member who has done the most to enhance the Society's international presence. The recipients are Constantinos Balaras, Ph.D., P.E., is research director, Institute for Environmental Research and Sustainable Development, National Observatory of Athens, Greece, and Ross Montgomery, P.E., president, QST Honeywell Controls, Palmetto, Fla.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

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SOCIETY NEWS.....

ASHRAE Technology Awards Highlight Outstanding Building Projects

ATLANTA – A range of innovative technologies, including natural ventilation, use of grey water and incorporation of phase change materials, are highlighted in the winning ASHRAE Technology Award projects.

The awards recognize members' exceptional achievements that incorporate elements of innovative building design in the areas of occupant comfort, indoor air quality (IAQ) and energy conservation. Winners have applied ASHRAE standards for effective energy management and IAQ. The awards were presented at ASHRAE's 2007 Winter Meeting being held this week in Dallas.

Matt Younger, P.E., principal of Stantec Consulting, Seattle, Wash., received first place in the new health care facilities category for his design for the Washington Department of Veterans Affairs, Retsil, Wash.

The fully naturally ventilated building features large, independently operated windows that aid with a passive cooling system. The system's design is predicted to save 45 percent over Standard 90.1 requirements, even without taking into account the deletion of comfort cooling requirements because the building is naturally ventilated.

Younger used intensive thermal modeling as a critical design tool on this project. Through testing of different design parameters, a whole-building integrated design solution was developed.

Receiving first place in the new industrial facilities or processes category are Pierre Roussel, P.E., vice president of the mechanical division, and Jacques Lagace, P.E., vice president of innovation and major projects, at Bouthillette Parizeau & Associates for their design of the thermal plant at the Pierre-Elliot Trudeau Airport in Montreal, Quebec, Canada.

One of the challenges they faced was the proximity of the air traffic control tower and the possibility of the smoke plume from boiler combustion gases interfering with traffic control activities.

The team designed a system to avoid this scenario, incorporating measures such as running the boilers' flue gases through a direct contact economizer to cool them using grey water. This also allows the system to reclaim the heat and creates efficiency of up to 99 percent.

Daniel Pare, project manager for IBM in Bromont, Quebec, Canada, received first place in the existing industrial facilities or processes category for his design for an IBM semiconductor packaging facility in his hometown.

His use of a thermal energy system with phase change materials combined with free cooling, a variable frequency drive chiller and predictive algorithm control is a first in North America. Phase change materials are substances that can accumulate and release energy during phase change. In this case, a change from liquid to solid.

His design will produce energy savings of six percent annually in part by using artificial phase change materials in the chiller with different melting points between 28°F and 40°F. The system also uses a natural cooling exchanger, which runs from September to May to take advantage of Mother Nature's natural cooling season.

Honorable mention winners are as follows:

- Ronald Gagnon, president, Concept-R Inc., Sorel-Tracy, Quebec, Canada, new commercial buildings category, Comptoir Richelieu Botanix, Sorel-Tracy, Quebec, Canada.
- George Karidis, P.E., vice president and director of mechanical engineering, SmithGroup Inc., Detroit, new commercial buildings category, Visteon Village's corporate headquarters in Van Buren Township, Michigan.
- Ronald Henning, P.E., principal, SmithGroup Inc., Detroit, new institutional buildings category, University of Michigan's Life Sciences Institute, Ann Arbor, Michigan.
- Norman J. Brown, P.E., principal, CDi Engineers, Lynwood, Wash., public assembly category, Seattle Center Marion Oliver McCaw Hall Renovation, Seattle, Wash.

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SOCIETY NEWS.....

BACnet Access Control, Lighting, Network Addenda Approved for Review

ATLANTA – Six proposed addenda to ASHRAE's BACnet standards have been recommended for public review.

The addenda are expected to be released for public review March 16, 2007. If approved, they would become part of Standard 135, BACnet® - a Data Communication Protocol for Building Automation and Control Networks, and Standard 135.1, Method of Test Conformance to BACnet®.

"This was a barnstormer session," said BACnet chairman Bill Swan. "The committee has been working hard to expand BACnet's coverage of building systems, and several items came out together."

Proposed addendum j to BACnet-2004, will add physical access control to BACnet's support for building automation.

"Our committee has worked on these proposals for four years to ensure that we address the state-of-the-art practices of the security industry while building on the proven BACnet platform," said David Ritter, convener of the BACnet Life-Safety and Security Working Group, which is comprised of representatives from both the HVAC and physical security industries from around the globe.

Addendum j rounds out the working group access control extensions to BACnet, which began with the Access Door object presented in addendum f. The committee is actively soliciting comments on these extensions from the access control industry.

Proposed addendum g to 135-2004, a new means for securing BACnet network communications, provides part of the base on which proposed addendum j is built. Developed by the Network Security Working Group, addendum g draws on significant advances in encryption and authentication technologies since BACnet became a standard.

"This system is very flexible," said Dave Robin, BACnet Network Security Working Group convener. "You can scale it up for high security or way down for simplicity. It provides multiple levels of access, with a general key for read/write access to basic system data, and application-specific keys plus authentication for critical systems including access control and fire."

Robin also notes that "with addendum g going out for its second public review, with little changed from first public review, trial implementations are underway."

Proposed addendum 135-2004 i presents several extensions to the BACnet standard to support lighting control systems. Said Steve Karg, Lighting Application Working Group convener, "These extensions are aimed at supporting both sophisticated and simple lighting systems." The working group, comprised of representatives from lighting controls manufacturers and BACnet experts, has been working for several years on developing lighting extensions to BACnet.

The BACnet committee continues its work on a broad range of items including developing profiles for VAV controllers and VFDs, incorporating wireless capabilities, accommodating and adopting new IP technologies; and extending conformance testing to cover new BACnet capabilities.

Also recommended for review are 135h, which would include miscellaneous changes to the standard; 135.1b, involving new and revised tests, and 135.1c, updating references in 135.1 from 135-2001 to 135-2004.

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.

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