



THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

www.njashrae.com

June 2009

reply@njashrae.com

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Vice-President

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Treasurer

Chris Phelan
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Secretary

Roger Shults
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Robert Daly, P.E.
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ASHRAE
Engineering
for
Sustainability

NJ Chapter of ASHRAE Social Event

Saturday, June 20th, 2009

5:30 pm

at

**Pegasus Restaurant
Meadowlands Race Track**

Cost: \$20.00 per person

**RSVP: REPLY@NJASHRAE.COM or call 732-218-7463
By June 17th, 2009**

**Come join us for this Social Event. Bring your spouse, your friends,
your clients - for what will be an enjoyable evening at the Meadowlands**



Meadowlands Event Additional Details on pages 6 and 7

NJ ASHRAE Golf Outing: See page 9

ASHRAE 2009 Annual Conference: Details page 13



COMMITTEES
(continued)

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Membership
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Research/Promotion
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Scholarships
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Seminars
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Special Events/ Golf Outing
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973-777-6700

Student Activities
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Calendar of Upcoming Meetings



The June Meadowlands event will be our last large group get together of the 2008-09 calendar year.

Look for announcements of the first meeting of the 2009-10 calendar year on our website.

Do you have a topic of interest that you would like to present at a NJ ASHRAE meeting?

Presentations of a non-commercial nature are always welcomed. Contact any chapter officer or committee chairperson for more information.

www.njashrae.com
WWW.REPLY@NJASHRAE.COM

ASHRAE Society
Toll Free Number
1-800-527-4723



Message to the President and Incoming Officers & Board

Dear Mark Richter, Incoming Officers & Board, and Chapter Members,

We have been very fortunate to have had Mark Richter as President of NJ ASHRAE this year. He has provided a year's worth of outstanding leadership. Mark worked diligently to make sure we had expert guest speakers at our meetings and that we 'stayed on track' through the year.

Mark steps onto the Board of Governors for the 2009-10 membership year, where he will continue to be a valuable asset to NJ ASHRAE.

I know you'll join me in thanking Mark for a great year and welcoming Janet Shipton as incoming President, Chris Phelan as President-Elect, Roger Shults as Treasurer and James Sarno as Secretary.

Please take a look at the Committees listed in the newsletter—there are openings on all of them and new members are always welcome. For additional information, call any board or committee member.

Have a great summer and hope to see you at the Meadowlands on June 20th and at our 2009-10 meetings.

Jori Fahrenfeld
Newsletter Editor



Have a great summer!

2008-2009 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. | 787 | 480 | 1557 | 460 | 1210 | 225 | 815 | 4747 |



NJ ASHRAE Officers and Board of Governors 2009-2010

Officers

- ◆ President - Janet Shipton
- ◆ President Elect - Chris Phelan
- ◆ Vice President - Vacant
- ◆ Treasurer - Roger Shults
- ◆ Secretary - James Sarno P.E.

Board of Governors

- ◇ Linda Carolan
- ◇ Jori Fahrenfeld
- ◇ Mark Richter, P.E.
- ◇ John Tellefsen P.E.
- ◇ Scott Smith



Region 1 CRC– Invite from Garry Myers, Region I DRC

Greetings fellow ASHRAE Region I members. The annual Chapter's Regional Conference (CRC) is where the membership meets ASHRAE society. Chapters give their annual reports, the Regional officers present update on their committee activities, and motions for change are brought forward and acted upon. This year the Region I CRC will be held in Albany, New York and is hosted by the Northeast Chapter. The conference kicks off on Thursday, August 27th.and concludes on Saturday the 29th.

As this is a week earlier than usual, I thought I would get the official flyer to you early to facilitate your planning. The CRC '09 committee has been working hard for two years planning this event and has a lot to offer. Please mark your calendar and join us for this exciting event.

- Garry Myers

Visit www.ashraeregion1.org website for additional information and event registration form



Green ASHRAE News: Coalition Looks to Producing High-Performance Federal Buildings

As Congress looks toward measures to reduce energy use in federal buildings, the leadership of the High Performance Building Congressional Caucus Coalition has issued recommendations that would allow the widespread development of high-performance federal buildings.

The report, *Producing High-Performance Federal Buildings*, was developed at the request of Rep. Russ Carnahan, D- Mo., co-chair of the High-Performance Building Congressional Caucus, by the leadership of the High Performance Building Congressional Caucus Coalition, which works to heighten awareness and inform policymakers about the major impact buildings have on health, safety and welfare.

The report is being issued to other High-Performance Building Congressional Caucus members as well as other relevant Congressional offices.

“These recommendations, if implemented through upcoming energy legislation, will provide an effective transition to reduced energy consumption, enhanced sustainability, improved building operation and maintenance, and more efficient use of national resources in the federal building stock,” said Doug Read, program director of government affairs for the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and chair of the Coalition.

The recommendations include:

- Require true life-cycle analysis and decision-making for the acquisition of federal buildings
- Require total building commissioning for the federal building stock
- Require integrated project delivery, including whole building design, procurement and construction for federal buildings
- Require building information modeling and support building data interoperability for federal buildings
- Require comprehensive education and training and higher levels of competence in the federal building design, property management, operations and maintenance, and procurement communities
- Require the collection, storage, dissemination and utilization for federal building performance data

More information on the Coalition and a copy of the report can be found at www.hpbccc.org.

The High-Performance Buildings Congressional Caucus Coalition (HPBCCC) is a private-sector coalition providing guidance and support to the High-Performance Building Caucus of the U.S. Congress. The High-Performance Buildings Congressional Caucus Coalition will work with the Congressional Caucus to promote and showcase best practices in building design and focus on issues reflecting all aspects of high-performance buildings including: accessibility, aesthetics, cost-effectiveness, functionality, historic preservation, productivity, safety and security, and sustainability.



NJ Chapter of ASHRAE Social Event

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**RSVP: REPLY@NJASHRAE.COM or call 732-218-7463
By June 17th, 2009**

**Buffet Dinner includes
Extensive Buffet of Fresh Salads and Appetizers
Varied Hot entrees including Carving Station
and Dessert Table
Coffee and Tea service included
Cash Bar**



**Come join us for this Event.
Bring your spouse, your friends, your clients -
for what will be an enjoyable evening at the Meadowlands**

*** Business Casual Attire ***



ALL ROADS LEAD TO THE MEADOWLANDS

From the George Washington Bridge:

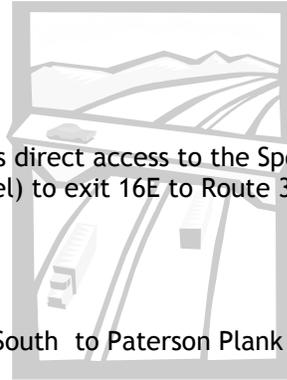
Follow Interstate 95 South signs to the New Jersey Turnpike South western spur (Sports Complex) to exit 16W), which provides direct access to the Sports Complex parking areas.

From the Lincoln Tunnel:

Follow Route 3 West directly to the Sports Complex.

New Jersey Turnpike Northbound or Southbound:

Follow the western spur (Sports Complex to exit 16W), which provides direct access to the Sports Complex parking areas. If congested, use eastern spur (Lincoln Tunnel) to exit 16E to Route 3 West, follow directions above.



Garden State Parkway Southbound:

Garden State Parkway south to exit 163 (Route 17). Follow route 17 South to Paterson Plank Road. Take Paterson Plank Road east to the Sports Complex.

Garden State Parkway Northbound:

Garden State Parkway North to exit 153A (Route 3). Follow Route 3 East to the Sports Complex.

Holland Tunnel, Brooklyn/Staten Island Bridge Crossings, Jersey City & Bayonne:

Take the New Jersey Turnpike extension to the Turnpike North. Follow directions above.

New York Port Authority (41st Street Bus Terminal):

For more information call (800) 772-2222.



Parking:

General Parking: Complimentary
Valet Parking: \$10.00 per Car

Entrance:

Pegasus: Far right facing racetrack





HISTORY OF GARRY N. MYERS

Garry grew up in northern New York State (“the North Country”). He enlisted in the Navy and served his time as an electrician at Guantanamo Bay, Cuba and aboard ship in Charleston, SC. After serving in the Navy, he joined Johnson Controls as an application engineer. He was assigned to Tom Brown who later founded TSBA Controls. advanced under his guidance. After moving on and working for such companies as Robertshaw Controls, Syska & Hennessy, and Scallop Thermal Management, he founded Tee Square Services in 1987. He spent the majority of his time consulting for Flack + Kurtz before joining the firm full time in 2000.



He joined ASHRAE in 1974 to have access to engineers in the area. “New Jersey Chapter meetings are a great place to get to know engineering principals in a relaxed professional but non-business venue”. At one meeting, he was asked by Roger DeLuca to join the Education Manpower committee. Several years later, he became the committee chair. It gave him a great deal of satisfaction. He was elected to the Board of Governors. He went through the Chapter chairs and was elected New Jersey Chapter President in 1988. He hired a chapter administrator to handle to growing chapters needs. Garry’s upbeat and humorous leadership enlivened meetings. He was also known to do things out of character for ASHRAE. One example: He hired a mind reader to provide entertainment at a spouses’ night meeting.

He attended Chapters Regional Conference (CRC) every year with his family and many of us, watched his daughter grow up, He encourages everyone to attend their Regional CRC to not only learn the operation of ASHRAE as a society, but to learn form the technical sessions and form professional relationships that will benefit the individual for years to come.

He then spent ten years with Research Promotion. Three years as Regional Vice Chair (RVC), Region I, for Research Promotion (RP), three more years as Society Vice Chair of the RP Committee, chair of RP Committee, and then three more years on Technology Council as the RP representative. During his tenure, he established the “Full Circle Award” which is awarded to commend participation at the honor roll level by chapter and regional officers.

Garry served in several other positions before being elected Director and Regional Chair (DRC) for Region I and serving on Society Board of Directors from 2006 until 2009. He instituted monthly teleconference calls with chapter presidents. He found that by having chapters interact and share ideas all year all year, they could quickly focus business issues at the CRC. Along the way, he was honored with the Chapter Service Award, Regional Award of Merit, and the Distinguished Service Award.

When asked about his years in ASHRAE, he stated he received so much from his participation. He felt he must give back effort in the hope of others doing the same to continue the wonderful accomplishments of ASHRAE.

At his company Flack + Kurtz, sustainability is not only part of the built environment design but is, also, the philosophy of the office operation. His company is committed to sustainability. Last year when the firm moved to its present location, it redesigned the space to achieve LEED Gold certification. Among other things, you will not find a paper cup nor a styrofoam cup in their office. Bicycle racks were installed in the employee entrance of the office to accommodate transportation choice of employees. They have water conservation and successful use of waterless urinals in the office rest rooms whose operation is guaranteed by an implemented maintenance program. “You must talk the talk and walk the walk.”

I asked Garry how he feels after completing his term as DRC. He said in a way he has mixed feelings. So much more needs to be done, but that is for the next DRC to start working on. (continued next page)



History of Garry N. Myers (continued)

He will remain active helping new DRC Spencer Morasch take over the responsibilities as well as becoming a Board appointed member of the Society nominating committee. Sustainability, involving young engineers, and making sure members have fun are his three priorities

Garry has been married for over 38 year to his lovely wife Rose. They spend as much time as possible with their daughter's family. Dina & Steven and two grand daughters Theresa and Catherine.

Written by Robert Daly, PE, NJ Chapter Historian and Alexander Weiss, PE, NY Chapter Historian



Golf Outing in Memory of Gordon Stillwell

Over seventy people came out to play golf and remember Gordon Stillwell at this year's golf outing at Fox Hollow Golf Club.

A good time was had by all as the rain held off until everyone was finished golfing. Every golfer went home with memories of a good day of golf plus a prize from the raffle.

Congratulations to Chris Phelan for organizing another great event!

We would like to thank our sponsors:

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Technical Air Systems





Virtual Congressional Visits Day Hosted by High-Performance Buildings Caucus Coalition

The building industry is encouraged to reach out to Congress to promote high-performance buildings during an upcoming High-Performance Buildings week.

The High-Performance Building Congressional Caucus Coalition (HPBCCC) is hosting the first annual Virtual Congressional Visits Days during the week of June 15-19. Members of the HPBCCC participating organizations are asked to contact their member of Congress by phone and e-mail and encourage them to join the High-Performance Building Congressional Caucus and to focus on high-performance building issues. The week has been dubbed "High-Performance Buildings Week."

Co-Chairs of the High-Performance Building Congressional Caucus, Representative Russ Carnahan (D-MO) and Representative Judy Biggert (R-IL) introduced a Resolution (H.Res.492) supporting the goals and ideals of High-Performance Building Week.

"ASHRAE's Washington Office is leading the program and would like to have ASHRAE members participate in full force," said Bill Harrison, ASHRAE president. "ASHRAE set the foundation for energy efficiency with Standard 90.1, and we are working to build on that foundation by providing guidance related to high-performance buildings. To ensure the design, construction and operation of high-performance buildings, it is vital we have the support of the federal government."

Information on the program including fact sheets, contact templates, and participating organizations is available at www.hpbccc.org/cvd.

The High-Performance Buildings Congressional Caucus Coalition (HPBCCC) is a private-sector coalition providing guidance and support to the High-Performance Building Caucus of the U.S. Congress. The High-Performance Buildings Congressional Caucus Coalition will work with the Congressional Caucus to promote and showcase best practices in building design and focus on issues reflecting all aspects of high-performance buildings including: accessibility, aesthetics, cost-effectiveness, functionality, historic preservation, productivity, safety and security, and sustainability.

ASHRAE Operations and Performance Management Certification Available Worldwide

ASHRAE's Operations and Performance Management (OPMP) Certification program has joined the Society's two other existing certification offerings available at testing centers around the world.

ASHRAE member Jim Newman took the exam when it was first offered at ASHRAE's 2009 Winter Conference.

"I teach classes to facility engineers on proper operating and maintenance techniques," said Newman, ASHRAE certified OPMP, Newman Consulting Group, Bloomfield Hills, Mich. "This exam covered all the aspects of operations and maintenance that an engineer would need to know to properly perform not only O&M in a building, but also know what to do to be more effective. Receiving the OPMP designation shows that a person is truly proficient in his/her craft."

The web-based exam is offered at testing centers in more than 200 locations in almost 20 countries. In addition to the United States and Canada, the exam is now offered in countries such as Australia, China, Egypt, Guam, India, Japan, Jordan, Kuwait, Lebanon, Philippines, Puerto Rico, Qatar, Saudi Arabia, Singapore, South Africa, South Korea, Taiwan, the United Arab Emirates, and the United Kingdom. Applicants first apply for the examination through ASHRAE, and if they meet the certification qualifications, register for the examination at a testing center.

"ASHRAE's OPMP certification helps professionals attest that they are well prepared to manage and maintain buildings to fully achieve reliability and their potential energy savings," said Richard Rooley, chair of the committee who developed the exam. "These ASHRAE certified professionals will keep your building's design from fading from green to grey, ensuring the full potential of the energy conserving systems they manage."

Other ASHRAE certifications currently available at testing centers are Healthcare Facility Design Professional and High-Performance Building Design Professional Certification. ASHRAE's Commissioning Process Management Professional launches in June at the Society's 2009 Annual Conference in Louisville, Ky., and will be available at testing centers by the end of August.

For information on ASHRAE certification, visit www.ashrae.org/certification



Proposed Standard 189.1 Begins Third Public Review with Increased Energy Savings *The first draft of the reconstituted committee boasts increased user friendliness*

With additional energy savings over the previous draft, the nation's first standard for high-performance green buildings began its third public review period May 1, marking the first draft released by the newly reconstituted Standard 189.1 committee. Comments on the draft standard will be accepted through June 15.

Proposed Standard 189.1, Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings, is being developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers in conjunction with the Illuminating Engineering Society of North America (IESNA) and the U.S. Green Building Council (USGBC). This is the first such green building standard in the United States.

"Standard 189.1 is essential for the further promotion of high-performance green buildings in the United States and for reaching net-zero-energy goals," says Kent Peterson, chair of the committee. "The committee is confident that this standard, with its increased energy savings over Standard 90.1, will help building owners and operators as well as local jurisdictions meet their sustainability targets."

The third public review draft has been reorganized to be more user-friendly while focusing on delivering and maintaining energy and water efficiency performance over the life of the building. Compared to the previous draft, this draft provides increased energy savings over ANSI/ASHRAE/IESNA Standard 90.1, Energy Standard for Buildings Except Low Rise Residential Buildings.

Eliminated in this version is the requirement for 30% additional ventilation beyond Standard 62.1 in classrooms and office spaces, with instead an emphasis on source contaminant control to improve indoor air quality.

Meant to provide minimum criteria for green building practices, the standard is applicable to new commercial buildings and major renovation projects. When completed, it will address energy efficiency, a building's impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality, among other high-performance green building issues.

The committee was expanded late last year to 34 voting members after an open call for members to broaden the expertise from a variety of interested categories. The proposed standard has generated substantial public interest, with more than 900 comments received during each of two previous public reviews.

To view a copy of the public review draft, go to www.ashrae.org/publicreviews. Copies of public review drafts are only available during public review periods. Publication of the standard is expected by early 2010.

Introduction to Building Automation Systems

Course offered through ISA and ASHRAE Learning Institute



This new, real world based course will provide a broad introductory understanding of the specific issues involved with Building Automation Systems (BAS). Explore the processes that occur at every level in the air conditioning industry including digital controls, sensing and measurement, actuation, analog output devices and relays.

Computer interfaces are also discussed, including web interfaces. This overall survey of the world of BAS includes: future of BAS, Digital Direct Control (DDC) Basics, field Devices, The Human Machine Interface (HMI), BAS Design and Specification, Energy Conservation Control Strategies, and System Maintenance.

Class is 3 days from 8:00 am to 4:00 pm, awards 2.1 CEU credits. Fees apply.

Visit the ISA or ASHRAE websites for further information and registration form.



SOCIETY NEWS

Guidance on Sustainability Latest Addition to ASHRAE Handbook

As economies transition from carbon-based to other forms of more sustainable energy, engineers are being challenged to meet an ever-increasing tide of regulation and demand.

To assist the building environment industry in meeting this challenge, guidance on designing for effective energy resource use is being emphasized in the newest edition of the ASHRAE Handbook.

The 2009 *ASHRAE Handbook - Fundamentals*, covers basic principles and provides essential data for HVAC&R design. In all, the *Fundamentals* volume includes more than 1,000 pages and 39 chapters on a variety of HVAC&R topics, covering general engineering information, basic materials, load and energy calculations and duct and pipe design.

The new chapter on sustainability defines this concept for HVAC&R and describes the principles, design considerations, and detailed evaluations needed in designing sustainable HVAC&R systems.

“HVAC&R engineering design on projects concerned with performance and sustainability requires understanding of more than just HVAC&R,” said Dave Grumman, who oversaw writing of the chapter on behalf of ASHRAE’s technical committee on building environmental impacts and sustainability. “Engineers must consider projected energy and water demands, storm water runoff generation, waste generation and air quality impacts. The guidance in this new chapter will assist engineers as they strive for overall sustainability in buildings.”

The chapter covers characteristics of sustainability, factors impacting sustainability, primary HVAC&R considerations in sustainable design, factors driving sustainability into design practice and designing for effective energy resource use.

Another change is addition of climate data for 5,564 stations on the CD accompanying the book, an increase of 1,142 stations compared to the 2005 Handbook on the CD accompanying the book. A subset of data for selected stations is included in the printed chapter, Climatic Design Information.

Other new information can be found in chapters titled *Psychrometrics, Mass Transfer, Fundamentals of Control, Thermal Comfort, Indoor Environmental Health, Fenestration, Ventilation and Infiltration, Nonresidential Cooling and Heating Load Calculations, Space Air Diffusion, Duct Design, Insulation for Mechanical Systems, Airflow Around Buildings, Refrigerants, Thermophysical Properties of Refrigerants, and Measurement and Instruments*.

The 2009 ASHRAE Handbook is published in two editions. One contains inch-pound (I-P) units of measurement, and the other contains the International System of Units (SI).

The cost of the 2009 *ASHRAE Handbook - Fundamentals*, which includes the CD is \$195, in I-P or SI. The 2009 ASHRAE Handbook CD, which contains both the I-P and SI editions, costs \$155.

To order, contact ASHRAE Customer Service at 1-800-527-4723, fax 404-321-5478, or visit at www.ashrae.org/bookstore.



ROI for Your NJ ASHRAE Membership



Lots of talk about ROI (Return on Investment) these days. What is the ROI on your NJ ASHRAE Membership? Your dues welcome you into the extensive world of ASHRAE. You can receive an ASHRAE Guide. You can attend ASHRAE meetings, conferences, conventions. You can interface with other professionals who work in HVAC—whether as engineers, designers, contractors, manufacturer’s representatives, or installers.

Excellent opportunity to discuss projects or problems. Meet with other people who work in the trade and be able to ‘mine’ their expertise. Perhaps you’re working on a type of project that you’ve never designed before or with a type of equipment that you are not familiar with....there’s bound to be someone at a meeting who has done this before and can offer some tips and techniques.

First time you get an idea or information that enables you to perform your job better, with more information, more efficiently—you’ve gotten an excellent ROI.



ASHRAE Rolls into Louisville for 2009 Annual Conference

The pounding hoof beats into the final turn. Ice tinkles in the glass of a frosted mint julep. The plaintive echoes of rivercraft are heard as they signal the drawbridge. These are the sights and sounds of Louisville...the home of ASHRAE's 2009 Annual Conference.

"*Rolling on the River* serves as the conference theme and echoes ASHRAE's mission," Bill Harrison, ASHRAE president, said. "A steady flow of rapidly advancing standards and research, both complimented by our technical and educational program, will enhance ASHRAE's ability to drive the ongoing transformation to a more sustainable built environment."

The ASHRAE Annual Conference takes place June 20-24. To register or for more information, visit www.ashrae.org/louisville. Most events take place at the waterfront Galt House Hotel.

The ASHRAE technical program, with nearly 100 sessions, focuses on optimal indoor air quality. It begins Sunday, June 21, and ends Wednesday, June 24, with all sessions at the Galt House. Complete program details will soon be available at www.ashrae.org/louisville. The technical program features a large building systems track that begins with an introduction to large buildings and addresses sustainable large building design, energy modeling, smoke control and specifically indoor sports facilities, entertainment venues, and museums and libraries. Other tracks with multiple programs include systems and equipment, indoor air quality, exergy and sustainability.

The conference keynote speaker is Susan Roaf, professor of architectural engineering at Heriot Watt University, Edinburgh. Roaf's thought-provoking comments include a range of building- and climate-related risks that individuals will face in the future along with a range of actions that homeowners and legislators can take to future-proof lifestyles against the growing challenges of the 21st century. She speaks at the Plenary Session on Saturday and the technical plenary on Sunday.

The ASHRAE Learning Institute offers two full-day professional development seminars and four half-day short courses, focusing on a range of HVAC&R related topics. New sessions include *Data Center Energy Efficiency* and *Air-to-Air Energy Recovery Systems*. ASHRAE's Standard 90.1 course has been revamped to focus on using the standard to meet LEED and federal tax credit requirements.

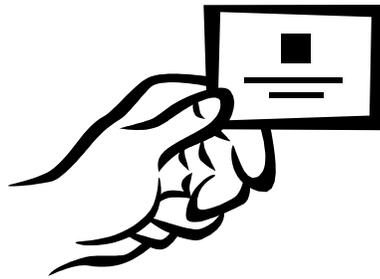
ASHRAE also launches its newest certification program - Commissioning Process Management Professional. The certification recognizes that those who manage the commissioning process need to have people- and project-management skills in addition to knowledge of building design, construction, operations and maintenance. For more information, visit www.ashrae.org/cpmp.

ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours include the central steam and chilled water plant at Louisville Medical Center, an HVAC system for a Class 100/1000 cleanroom at the University of Louisville, the CMTA Corporate Headquarters Building, and the Scribner Place YMCA and Aquatic Center.

In addition, ASHRAE President-Elect Gordon Holness, P.E., Fellow ASHRAE, Life Member, a consulting engineer and chairman emeritus, Albert Kahn Associates Inc., Detroit, Mich., takes office as 2008-09 president. Holness presents his inaugural address at the president's luncheon on Monday, June 22, focused on energy efficiency in existing buildings.



BUSINESS CARD ADVERTISEMENTS



Contact us to place
your ad here

HELP WANTED:

MECHANICAL ENGINEER (HVAC)

The Port Authority of New York & New Jersey is a bistate public agency responsible for promoting transportation and commerce, operating some of the busiest and most important transportation links in the region including bridges, tunnels, bus terminals, airports, PATH, AirTrain systems, and the NY/NJ seaport.

The Port Authority is seeking to fill a position of **Mechanical Engineer (HVAC)** in the Engineering Department's Engineering/Architecture Design Division. As a Mechanical Engineer you will be responsible for the design of heating, ventilation and air conditioning (HVAC) systems and central heating and refrigeration plants (CHRPS) for buildings and structures at various Port Authority facilities. You will also develop project scopes and design criteria, as well as budget for design services and design schedules, provide technical advice and assistance to facility and other Port Authority personnel, and prepare the technical scope of work and audit the mechanical engineering designs performed by consultants.

Requirements:

- Bachelor's Degree in Mechanical Engineering
- Minimum of ten years diversified experience in the design of heating, ventilation and air conditioning systems for commercial/industrial buildings, central heating and refrigeration plants, air handling and thermal distribution systems
- Working knowledge of New York State, New York City and New Jersey building codes
- Direct experience in the preparation of contract drawings and specifications
- Working knowledge of AutoCad
- P. E. License desirable

Application Process:

We offer a competitive salary and outstanding benefits package and a professional environment that supports development and recognizes achievement.

Interested applicants can apply directly online to this position by visiting www.JoinThePortAuthority.com. Follow the instructions to view Job Postings, type the following reference number **7924** in the keyword search box.

Only applicants under consideration will be contacted.

If you would like to submit project or technical articles for the *THERMOGRAM* or if you would like to place an advertisement, please contact Jori Fahrenfeld @ 609-520-1600 or via email Jori.Fahrenfeld@Emerson.com for further details

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