



The PENNANT

Newsletter of the
ASHRAE® Central Pennsylvania Chapter

<http://www.cenpenn.ashraechapters.org/>

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President's Message...



Members,

First I want to thank Jack Gornik and Paul Valenta for presenting to our chapter last month. Both sessions were extremely good. If you're not looking at ice storage for your large chiller plant projects, you should be! Ice storage could be a cost and space neutral option that will save your client a lot of operating dollars.

This month's program will be held at Johnson Controls (old York headquarters) and will highlight water-to-water heat pump technology and applications. Ray Good of Johnson Controls will be presenting on how you can lower your customer's energy bill and carbon footprint. Also on the slate is a technical session on Under Floor Air Distribution Systems. Tim Irvin, also of Johnson Controls, will review design considerations and actually demonstrate the operation of a UFAD in summer mode.

I want to continue to remind you of the upcoming PDS on March 19th.

Energy Code Requirements – ASHRAE/IESNA Standard 90.1-2004.

The all day event will feature five presenters:

Lawrence G. Spielvogel, PE, an ASHRAE Fellow and Distinguished Lecturer

Lou Rugulo, P.E., CEM, Adjunct Professor at Stevens Institute of Technology

Larry Kouma, a Senior Product Manager at Johnson Controls, Inc.

Carl M. Watson, PE, LC award winning lighting designer, author, and electrical engineer

Cyrus Nasser, leader of the Design, Operation, Maintenance, and Procurement Program in the Federal Energy Management Program at the U.S. Department of Energy. The seminar is being held jointly with the PA Department of Environmental Protection and the Governor's Green Government Council. Space will be limited and we expect a lot of interest, so put it in your calendar and keep an eye out for the official announcement

Finally, we are starting the nomination process for next year's officers, chairs, and committee people. If you would like to get involved this is your invitation! If you know somebody that you would like to nominate, please do. The more volunteers that we have the less work for everyone and the stronger the chapter is.

Hope to see you on February 13th!

Sincerely,

Bob Miller

Inside this Issue

February Meeting Information
2007/2008 Schedule
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Employment Opportunities
Professional Development Seminar

Wednesday February 13th, 2008
Johnson Controls
631 South Richland AVE, York, PA 17403

5:15 – 6:00 Tech Session: Under Floor Air Distribution (UFAD) System Overview and Summer Simulation
6:15 – 7:00 Dinner
7:00 – 8:00 Program: Water to Water Heat Pumps

Tech Session

Timothy W. Irvin (Commercial Products Application Engineering Manager - Johnson Controls, York, PA) will provide an overview of a UFAD system, including basic principles, HVAC load diversity, energy conservation possibilities, LEED implications, and installation DOs and DON'Ts. In addition, through the use of a sophisticated indoor environmental chamber and a typical open office mock-up, the comfort and controllability of a UFAD system will be demonstrated during a summer weather simulation.

Mr. Irvin has been with Johnson Controls for 10 years, in a variety of marketing, application, and engineering roles. Prior to joining Johnson Controls, he spent 15 years as a consulting engineer.

Program

Ray Good (Application Specialist - Johnson Controls, York PA) will introduce us to large capacity water to water heat pumps for building heating requirements. Ray will present the advantages of water to water heat pumps in reducing building heating costs and lowering the carbon footprint. Fundamentals, economics, application and case studies will be covered in the presentation.

Mr. Good provides technical guidance on large and complex chiller and heat pump projects. Previous roles at YORK included Manager of Sales Training and Service Product Manager. He began his HVAC career with the Carrier Corporation where he held various positions in chiller marketing and service. Graduated with a BS in Mechanical Engineering Technology from Old Dominion University in Norfolk, VA and is a licensed Professional Engineering in the Commonwealth of Virginia. He currently resides in York, PA with his wife and three children.

Reservations: mat@ba-inc.com or (717) 845-7654 ask for Mark Tome

Deadline: Monday, February 11th at 1:00 p.m. PLEASE!

Chapter Members: **\$30.00** Non members: **\$40.00** Retired: **\$ 5.00** Students: **Free**

Note to all Chapter Officers and Committee Chairs: [Chapter Officers, Board Members and Committee Chairs have standing reservations.](#) If you do not RSVP by the deadline, you will be billed for the fun time you missed.

Johnson Controls
631 South Richland AVE, York, PA 17403



From Harrisburg

83 South To Exit 16B (Queen Street)
North on Queen Street to Rathton Rd. (3rd light)
Turn left onto Rathton Rd., this will turn into Country Club Rd. at the 1st light.
Stay on Country Club Rd. to Richland Ave.
Turn right onto Richland Ave., to JCI on right.

From Lancaster

Take Rt. 30 West
To Rt. 83 South
To Exit 16B (Queen Street)
North on Queen Street to Rathton Rd. (3rd light)
Turn left onto Rathton Rd., this will turn into Country Club Rd. at the 1st light.
Stay on Country Club Rd. to Richland Ave.
Turn right onto Richland Ave., to JCI on right.

Upon arrival, follow the covered walk-way to the main entrance. We will be meeting for the tech session just inside these doors. Be prompt if you wish to attend the Tech Session; space is limited in the lab and we will be splitting into groups for the tour and presentation.

ASHRAE Central PA – Current Schedule of Events

DATE & Location	Event	Description
September 12 – ABC Harrisburg Tech Session Program	Past Presidents TBD ASHRAE President Kent Peterson	Greater Efficiency Today Blue Skies Tomorrow
October 10 – ABC Harrisburg Tech Session Program	Membership Promotion Sheet Metal Shop Tour New SMCNA Duct Construction Manual	Bring a new member and you both get in Free! Eli Howard from SMCNA
November 7 – ABC Harrisburg Tech Session Program	Research Promotion TBD Andy Persily, ASHRAE VP Topic TBD	
December 12 – Wyndham Garden Tech Session Program	History Night Variable Refrigerant Volume Land Fill Gas Reclaim	Multiple Fan Coils with Single DX Compressor Overview of the Frey Farms/Turkey Hill Dairy Operation
January 9 – Harrisburg Trane Tech Session Program	Energy Saving Control Strategies Thermal Energy Storage	
February 13 – York Tech Session Program	Tour – Under Floor A.D. Lab Water to Water Heat Pumps	
March 12 – Lancaster Tech Session Program	Air Products Tour HVAC Estimating	Presentation and Round Table Discussion
April 9 – ABC Harrisburg Tech Session Program	Student Activities Night Social with Students Thesis Presentations by AE Students	
May	Family Night York Revolution Baseball Game	
July	Golf Outing to benefit ASHRAE Research	

Check the chapter website for updates to the schedule.

<http://cenpenn.ashraechapters.org/>

Bulletin Board

CORRECTION – The meeting cost for guests is \$40. It was mistakenly noted as \$50 in the last issue of the Pennant.

Please welcome the following new members.

New Members in December 2007

Eric M. Walker – Associate
ewalker@shipcopumps.com

Pradeep K. Chibber – Member
pkc@larsondesigngroup.com

Mutaz M. Yaghi – Member
mutaz.m.yaghi@jci.com

*Awards, Promotions, New Employees, New Members,
Weddings/Births/Deaths/Anniversaries, etc.*

Put it in the Pennant – Send your announcements to
Mark Graybill – mgraybill@accu-aire.com

*We also publish employment opportunities.
The cost is \$25/half page per issue.*

Employment Opportunities

Manufacturer's Rep Firm specializing in engineered HVAC equipment seeks an experienced Sales Engineer to take over established territory in Central Pennsylvania currently producing income above six figures. Desired qualifications include similar experience, proven sales performance, and a background in mechanical engineering. The ideal candidate will be familiar with specifying MEP engineers, end users, and mechanical contractors from Lancaster County to Harrisburg.

Please fax resume to 215-945-2602 or email to: sales@airtectonics.com .

A well established A & E firm specializing in designing food manufacturing facilities, and located in Lancaster, Pennsylvania, is seeking a candidate for the following position.

Mechanical Engineer Professional Engineer with 15 + years experience in the field of HVAC and central plant utilities (chilled water, steam, etc.). Will be responsible for all phases of design (conceptual through final) and must have experience supporting construction. Experience in the food industry would be a plus.

Please forward resume and cover letter with salary requirement to:

Alice L. Boettner, Human Resources
WEBBER/SMITH Associates, Inc.
1857 William Penn Way, Suite 201
Greenfield Corporate Center
Lancaster, PA 17601
hr@webbersmith.com
FAX: (717) 291-4401



**PROFESSIONAL ENERGY CODE SEMINAR
ANSI/ASHRAE/IESNA STANDARD 90.1-2004
ENERGY STANDARD FOR BUILDINGS
EXCEPT LOW-RISE RESIDENTIAL BUILDINGS**



**ONE-DAY SEMINAR CO-SPONSORED BY –
THE CENTRAL PENNSYLVANIA CHAPTER OF ASHRAE
PA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GOVERNOR’S GREEN GOVERNMENT COUNCIL**

Wednesday, March 19, 2008

Location

**Pennsylvania Department of Environmental Protection
Rachel Carson State Office Building
400 Market Street
Harrisburg, PA 17105**

Link for directions and parking -

<http://www.depweb.state.pa.us/dep/cwp/view.asp?a=3&q=474491>



OBJECTIVE

As states and local governments adopt ANSI/ASHRAE/IESNA Standard 90.1, “*Energy Standard for Buildings Except Low Rise Residential Buildings*” and building owners require compliance, ASHRAE is responding to requests to provide in-depth training on the Standard. New Jersey requires compliance with the Standard. Pennsylvania has adopted the 2006 International Energy Conservation Code (IECC) as part of the mandatory statewide Uniform Construction Code (Act 45), which includes an option for compliance with the Standard. New York is proposing an option in their Code for the Standard. Most other states adopt and enforce the IECC.

The Standard sets the minimum requirements for energy use in buildings except low-rise residential buildings and the methodology to attain these goals. It differs from past Standards as it addresses not only new construction but also additions and renovations to existing facilities. This Standard is also the sole mandatory minimum energy benchmark for the US Green Building Council Leadership in Energy and Environmental Design (LEED-NC[®]) program and for the Federal tax deductions available under the 2005 Energy Policy Act (EPACT).

WHO SHOULD ATTEND

Architects, Engineers, Building Owners, Code Officials, Building Managers, Contractors, Equipment Manufacturers and their Representatives, Students, and other parties involved with construction, renovation, and operation of facilities. Continuing education certificates and credits will be offered, including those for AIA and Florida professional licenses.

REGISTRATION

Attention: Thomas Long

Phone: 717.763.7211

Email: thomas.long@mail.ashrae.org

Fax: 717.763.9357

Email Tom Long with the following information:

NAME, COMPANY, ADDRESS, PHONE#, FAX #, EMAIL, and if the books are not wanted.

Checks to be made out to: CENTRAL PA CHAPTER ASHRAE. *Sorry, we do not accept credit cards.*

Mail checks to: ASHRAE, c/o T. Long, Gannett Fleming, Inc., PO Box 67100, Harrisburg, PA 17106-7100

REGISTRATION FEES

The fee for the seminar is \$150 with the Standard and User’s Manual, or \$70 without Standard and User’s Manual. Full Time Students and Full Time Code Officials receiving books are invited at a discounted fee of \$120 with the Standard and User’s Manual, or \$40 without the books. The Registration Fee includes:

- Instruction on the application of the Standard to be presented by eminent industry professionals.
- Copies of both Standard 90.1-2004 and the associated User’s Manual. If purchased independently the cost for these two books alone would be \$203.00 for non-ASHRAE members and \$162.00 for ASHRAE members.
- Lunch and Breaks

SEMINAR SCHEDULE

REGISTRATION – 8:30 AM

1ST MORNING SESSION - 9:00 AM

Introduction of presenters
Overview/Organization of ASHRAE 90.1-2004

BREAK – 10:15 AM

2ND MORNING SESSION – 10:30 AM

Building Envelope compliance

LUNCH - 12:00PM

1ST AFTERNOON SESSION - 12:45 PM

HVAC compliance
Service Water Heating compliance

BREAK – 2:45 PM

2ND AFTERNOON SESSION - 3:00 PM

Power compliance and Lighting compliance
Users Manual and ASHRAE Services
Concluding remarks

FINISH - 5:00 PM

SPEAKERS

Lawrence G. Spielvogel, PE

He is an ASHRAE Fellow and Distinguished Lecturer. Mr. Spielvogel previously served on and chaired the ASHRAE Homeland Security and Advocacy Committees, the ANSI/ASHRAE/IESNA Standard 90.1 Project Committee, ASHRAE Standard 105 on Building Energy Performance, the Standard 90 Panel on HVAC Systems, and ASHRAE technical committees on energy utilization, computer applications, and service water heating. He is also a Fellow of CIBSE (Chartered Institution of Building Services Engineers) (England), a Fellow of SLL (Society of Light and Lighting) (England), and a member of many other technical societies.

Lou Rugulo, P.E., CEM

Mr. Rugulo has over 18 years experience as a project manager and energy engineer, specializing in the development and implementation of demand-side management solutions for major clients as well as assisting clients in taking advantage of the various energy incentive programs available in the area, including financing, rebate and grant programs. Mr. Rugulo's experience encompasses design, retrofit, and troubleshooting of HVAC systems in a variety of applications such as residential, commercial, laboratory, clean room, industrial and aircraft settings. Mr. Rugulo has a B.S. in Mechanical Engineering, is a licensed Professional Engineer, and is an Adjunct Professor at Stevens Institute of Technology.

Larry Kouma

Mr. Kouma is a Senior Product Manager at Johnson Controls and has been working in the HVAC industry for more than 15 years. He has experience with hydronic system design including product and application support for steam and chilled water systems. He currently leads a team responsible for R&D direction, product planning and engineering, application support, and system integration for large chilled water equipment. He is a current voting member of the SSPC 90.1 Committee, including active membership on the Mechanical Subcommittee. He has a BS in Mechanical Engineering and an MBA in Finance.

Carl M. Watson, PE, LC

A member of IESNA for over 25 years and a registered engineer, he is an award winning lighting designer, author, and electrical engineer. He has BS in EE and an MBA from Drexel University. He is also a member of IEEE and NSPE and is Lighting Certified by the National Council on Qualifications for the Lighting Professions. He specializes in developing and implementing very effective energy management solutions that optimize aesthetics, efficiency, and maintainability. Past projects have included lighting design, power quality and energy studies for office buildings, health care facilities, banks, schools, churches, multi-family residential, parking, and municipal facilities.

Special Guest Speaker - Cyrus Nasser

Mr. Nasser is head of the Design, Operation, Maintenance, and Procurement Program in the Federal Energy Management Program at the U.S. Department of Energy. He is in charge of implementing Laws and rulemaking for energy efficiency for all Federal buildings.

ATTENDANCE IS LIMITED -
PLEASE RESPOND BEFORE March 7, 2008