



The PENNANT

Newsletter of the
ASHRAE® Central Pennsylvania Chapter
www.ashraecenpenn.org

Volume 3, Number 2, October 2004

President's Message ...



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Mark Tome
mtome@ashraecenpenn.org

Dear Members,

Hopefully everyone is staying high and dry thankfully our programs committee had the foresight not to have the October Meeting on City Island. Thanks to everyone who turned out for our September meeting on IAQ at the Holiday Inn in New Cumberland. Recently two Central PA schools were faced with mold remediation again reminding all of the importance of proper HVAC design practices.

On November 3rd our education committee will be bringing in Larry Spielvogel for a Professional Energy Code Seminar dealing with ANSI/ASHRAE/IESNA Standard 90.1-2001. This is an important seminar for all to attend. This seminar is beneficial to all HVAC professionals. This event will be open to local ASHRAE members as well as other professionals who may benefit such as architects. Please feel free to invite anyone who you feel may benefit.

Why attend a seminar on ASHRAE 90.1 – 2001?

Wasting energy wastes money. Today, buildings typically use 67% less energy than the same size buildings used for the same purpose 20 years ago. ASHRAE standards form the basis of how equipment manufacturers, building designers, utilities and code officials work together toward industry-accepted energy consumption targets that have yielded these results. The U.S. federal government requires that states have building energy codes at least equal to ASHRAE Standard 90.1 and mandates that all federal government buildings comply with the energy requirements of 90.1. Standard 90 affects lighting, building mechanical systems, water heating, and the building envelope, including insulation, walls and windows.

Board of Governors
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Frank Ruth
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In other news we have a new Life Fellow Member Keith Starner in our chapter and a new Life Associate Member Carl Tipping.

We hope that you will join us for the October 4th program at the Holiday Inn New Cumberland. Also note that this program is on a Monday instead of the usual Wednesday. Remember October 4th is also the last day to register for the general election.

Education Committee –
Thomas Long
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Student Activities –
Matthew Tressler
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If you have an idea for improving our local ASHRAE chapter I am only an email away.

Respectfully,
Myron Ramage

Student Branch Advisors
PA College of Technology
Thomas Ask
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PSU Harrisburg
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Inside this Issue

October 2004 Meeting Agenda	Pg 2	Student Design Comp. Award	Pg 6
Reservations	Pg 3	Dan Holohan by HVAC Dist	Pg 7
Schedule of Upcoming Events	Pg 4	Standard 90.1 PDS	Pg 8
Bulletin Board	Pg 5	Pre-Paid Program Tickets	Pg 10
Review Courses and CRC Awards	Pg 5	Member Announcements	Pg 11

Meeting Agenda

Monday October 4, 2004

3:30 – 5:00	Board of Governors Meeting
5:00 – 6:00	Social Hour
6:00 – 6:45	The European Approach to Hydronic Heating
6:45 – 7:15	Dinner
7:15 – 8:15	The European Approach to Hydronic Heating cont.

The European Approach to Hydronic Heating – It is not the same!

Dan Holohan has spent time in a lot of European basements. He has also attended the ISH Fair in Frankfurt, Germany seven times (as well at Italy's Mostra Convegno). ISH is the largest heating show in the world. It takes place every other year, and always in the same place, Messe Frankfurt, where it sprawls over 2.6 million square feet of floor space. ISH is about five times larger than the biggest ASHRAE show. More than 240,000 heating professionals from all over the world travel to Frankfurt to take part and to learn. When he goes to the Fair, Dan often arranges meetings with European engineers and contractors. He spends several days in the field, visiting job sites and gathering information on how the European approach to Hydronic heating differs from what we do in America. The differences, as you will see, are both significant and eye opening.

During his presentation, Dan will be showing us photos of the interesting products on display at the ISH Fair, as well as several jobs that were under construction at the time of his visits. He'll cover such topics as the European use of low-temperature systems and their love of panel radiators. He'll explain the "why" behind their near-manic attention to pressure differential in sizing their systems. He'll also give us the background on Europe's growing movement toward radiant cooling. Finally, he'll explain how the "green" laws have changed the nature of European mechanical engineering since the fall of the Iron Curtain, and why these changes may be heading our way.

Dan's entertaining and anecdotal style has made him one of the most sought-after speakers in the hydronics industry. You're going to feel as if you had traveled to those basements and conference rooms right along with him. This is one meeting you *won't* want to miss!

You cannot learn enough about Hydronic Heating! Sign up for a full day seminar by Dan Holohan and organized by HVAC Distributors, Inc. See page 7 for registration form and more information.

Reservations

**Holiday Inn Hotel and Convention Center
Interstate 83 & PA Turnpike
New Cumberland, PA
Phone # 717-774-2721**

Deadline: Friday, October 1st at 1:00 p.m. PLEASE!

Program Cost: **\$ 30.00** Retired/Students: **\$ 5.00** <mailto:reservations@ashraecenpenn.org>

Please provide:

Your Name:

Company:

Phone:

Sessions:

ASHRAE Member or Student Member

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.

Directions

From Harrisburg:

83 South to Limekiln Road
Exit

From Lancaster:

283 West to Pa Turnpike
Pa Turnpike West one exit
(HBG east)
North 83 to Limekiln Road Exit

From York:

83 North Limekiln Road Exit

Schedule of Events

Date	Event	Topic / Description
September 8, 2004	BOG Meeting / Program	Indoor Air Quality By W. Edward Montz, Jr., Ph.D., CIAQP
October 4, 2004	BOG Meeting / Program	Hydronics By Dan Holohan
November 3, 2004	Professional Development Seminar	Professional Energy Code ANSI/ASHRAE/IESNA Standard 90.1-2001 By Larry Spielvogel, PE
November 10, 2004	BOG Meeting / Program @ Appalachian Brewing Co. Harrisburg	Research Promotion Night
December 8, 2004	BOG Meeting / Program	Past Presidents Night
January 12, 2005	Professional Development Seminar	TBD
January 12, 2005	BOG Meeting / Program Location TBD	Cooling Tower / Ice Storage Design
February 9, 2005	BOG Meeting / Program @ Appalachian Brewing Co. Harrisburg	Acoustics By Carl Eichelberger
March 9, 2005	BOG Meeting / Program	TBD
April 20, 2005	BOG Meeting / Program @ Appalachian Brewing Co. Harrisburg	Student Activities Night – Student Presentations
May 12, 2005	BOG Meeting / Baseball Game!!	Senator's Outing Family Night
TBD	Golf Outing	Membership Promotion Day

Attend the seven remaining Programs for \$180, by purchasing a Program Ticket. Go to page 10 for details.

**Save \$30.00
Avoid the Hassle!**

Bulletin Board

Planning on taking the Fundamentals of Engineering or Professional Engineering Exam in April 2005?

Penn State Harrisburg is offering the Fundamentals of Engineering and the Civil/Sanitary/Structural, Environmental and Electrical Professional Engineering Review courses starting in the fall 2004.

They are taught by engineering faculty as well as professional engineers working in the field and prepare you to take the exam by practicing problem solutions, minimizing test anxiety and establishing built-in study time.

According to the National Council of Examiners for Engineering and Surveying, licensure is a sign of commitment to your profession.

Obtaining a professional license □ enhances your potential for salary increases and promotions, leads to a wider range of career opportunities, and a higher level of respect and credibility among your engineering peers. □

For additional information contact:

Brenda L. Firestone
Penn State Harrisburg

717-948-6538, blf3@psu.edu

or visit the website <http://www.hbg.psu.edu/ce/noncredit/profengrev.shtml>



Central PA Chapter CRC AWARDS:

PAOE

History & RP ribbons for level 3 performance (PAR)

Resource Promotion

Full Circle

Silver level contribution award

Goalbuster performance

Congratulations to our students - Nick, Jason and Dave!!



ASHRAE

ASHLEY M. PRUETT

Manager of Student Activities

1791 Tullie Circle, NE • Atlanta, GA 30329-2305 USA • Tel 678.539.1212 • Fax 678.539.2212 •
apruett@ashrae.org

MEMORANDUM

TO: The Pennsylvania State University
Nick Maffeo, III
Jason Kramer
Dave Peterson

FROM: Dave Evers, Chair
Student Activities Committee

DATE: July 30, 2004

RE: 2004 ASHRAE Student Design Project Competition

Congratulations! It is indeed a pleasure to inform you that your entry in ASHRAE's 2004 Student Design Project Competition HVAC System Selection Category has been selected the **first place winner**.

On behalf of the Society and the HVAC&R industry, I want to thank you for your interest and the extra effort required for your participation in this competition. I hope that the experience gained through completing your project will be a stepping stone to your continued success.

Your award includes \$1500 plus a trip for one team representative to ASHRAE's Winter Meeting in Orlando, Florida in February 2005. The award will be presented during the meeting's Plenary Session on the afternoon of February 5. The representative is encouraged to participate in a poster session Sunday, February 6 at the Student Breakfast. Please notify Ashley Pruett, Manager of Student Activities at ASHRAE Headquarters, as to who will represent your team at the Orlando Meeting and whether or not that individual will participate in the poster session. **Ashley needs this information by August 23, 2005, in order to make your travel arrangements. Further details about the meeting will be sent to you in mid-September.**

Again, congratulations on your excellent work. I wish you continued success.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N

If you have any announcements that would be of interest to the local membership, please submit request to mtome@ashraecenpenn.org for posting on the bulletin board. The chapter retains the right to reject any request.



HVAC Distributors, Inc.
 Distributor and Manufacturers Representative
 Two Old Market Street P.O. Box 160 Mt. Joy, PA 17552-0160
 Phone: 717-653-6674 OR 1-800-228-4822 Fax: 717-653-6494
 Website: www.hvacdist.com Email: sales@hvacdist.com

Rare Opportunity!

A full-day seminar that takes the mystery out of hot water heating
 October 5, 2004
 8 a.m. to 3:00 p.m. (Doors open at 7:30 a.m.)
 Located at the Four Points Sheraton in Harrisburg, PA

Who is Dan Holohan?

Dan Holohan is a well-known columnist and lecturer in the hydronic industry. He has a unique style of entertaining with humor while teaching. His books make enjoyable reading and compliment his lectures well. Don't miss out on this rare opportunity. Sign up today!

What will I learn?

Gravity hot water heat, diverter tees, loop systems, multiple boilers, primary-secondary, radiant heat, and of course, "Pumping Away." A bit of history, a lot of fascinating stories, a day filled with laughter and learning. If you've never seen Dan Holohan's treatment of "classic" hydronics, this is your chance.

Classic Points!

- Discover quick ways to check your work (and troubleshoot systems) by using classic rules of thumb that manufacturers have depended on for years.
- Find out how properly sized systems can give you a real competitive edge. It's easy!
- Many "air problems" aren't really air problems. Find out how to tell the phantom ones from the real ones.
- How big should a circulator be? What happens if it's too big, or too small?
- Learn how proper location of the circulator can free you from bleeding radiators once and for all.
- Find out how to simplify your systems (and save money!) through primary/secondary pumping techniques.
- Learn how to use multiple-boiler systems to cut installation and operating costs.
- Warm-water heating is very different from hot water heating. Find out the reasons right here!
- Effective troubleshooters have a certain way of looking at the world of hydronics. By the end of the day, you'll understand what makes them so successful.

Cost of the seminar is \$125, which includes breakfast, lunch, and snacks. Fax this form back to Kristi at 717-653-6494. Please include your method of payment. Directions will be faxed to you a week before the seminar. Thank You!

Company _____
 Attendees _____
 Address _____
 City _____ State _____ Zip Code _____
 Phone # _____ Fax # _____
 Total Calculated Cost based on \$125/ person: _____
 Method of Payment (Circle One): Credit Card Check Bill Account
 Credit Card # _____ Exp Date _____

NOTE: This event is not affiliated with the Central Penn Chapter of ASHRAE.



PROFESSIONAL ENERGY CODE SEMINAR ANSI/ASHRAE/IESNA STANDARD 90.1-2001

ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS

A ONE-DAY SEMINAR SPONSORED BY
THE CENTRAL PENNSYLVANIA CHAPTER OF ASHRAE

NOVEMBER 3, 2004

HOLIDAY INN, NEW CUMBERLAND, PA
EXIT 40A, I-83

Just North of PA Turnpike Exit 242

OBJECTIVE

As states and local governments adopt ANSI/ASHRAE/IESNA Standard 90.1, and Owners require compliance, ASHRAE is responding to requests to provide training on the Standard. Pennsylvania has just adopted the International Energy Conservation Code which became effective this year, and which includes a requirement for compliance with the Standard.

The Standard sets the minimum requirements for energy use in buildings except low-rise residential buildings and the methodology to attain these goals. The Standard differs from past Standards as it addresses not only new construction but also renovations and additions to existing facilities. This Standard is also the mandatory energy benchmark for the US Green Building Council Leadership in Energy and Environmental Design (LEED) program.

WHO SHOULD ATTEND

Architects, Engineers, Building Owners, Code Officials, Building Managers, Contractors, Students, and other parties involved with construction, renovation, and operation of facilities.

REGISTRATION

Attention: Tom Long
Phone: 717-763-7212 x2997
Fax: 717-763-9357
Email: tlong@ashraecenpenn.org

Phone, Fax or Email Tom Long with the following information:

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

Checks/cash will be collected at registration *on the day of the seminar*. Any person/company registering for the seminar but not attending will be invoiced for the seminar and will receive a copy of Standard 90.1 and the User's manual upon receipt of full payment and handling charges. *Sorry, we do not accept credit cards.*

Checks to be made out to: CENTRAL PENN CHAPTER ASHRAE

Confirmations will be sent out a week before the seminar via email.

REGISTRATION FEES

The fee for the seminar is \$125.00. Full Time Students are invited at a discounted rate of \$65.00. This Fee includes:

- Instruction regarding the Standard to be presented by eminent industry professionals.
- Copies of both Standard 90.1-2001 and the associated User's Manual. If purchased independently the cost for these would be \$195.00 (non-ASHRAE members) and \$157.00 (ASHRAE members). If copies of the Standard and Users Manual are not desired, the fee for the seminar is \$85.00.
- Lunch.
- Break refreshments.
- Eligibility for 6 Professional Development Credit Hours and AIA Learning Units.

SEMINAR SCHEDULE

REGISTRATION - 8:30 AM

MORNING SESSION - 9:00 AM

Introduction of presenters
Overview/Organization of ASHRAE 90.1-2001
Building Envelope compliance

LUNCH - 12:00PM

1ST AFTERNOON SESSION - 12:45 PM

HVAC compliance
Service Water Heating compliance
Power compliance

BREAK

2ND AFTERNOON SESSION - 2:45 PM

Lighting compliance
Users Manual and ASHRAE Services
Concluding remarks

FINISH - 4:30 PM

SPEAKERS

Lawrence G. Spielvogel, PE

Mr. Spielvogel is currently an ASHRAE Director at Large, a Fellow, and serves on Society's Members Council. He chairs the ASHRAE Homeland Security Committee, and previously chaired 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), a member of the ACEC (American Council of Engineering Companies), and a member of many other technical societies.

Lou Rugulo, P.E., CEM

Mr. Rugulo has over 16 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 also an Adjunct Professor at Stevens Institute of Technology.

Larry Kouma

Mr. Kouma is a Sr. Product Manager at York International and has been working in the HVAC industry for more than 13 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, Mr. Watson 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.

PLEASE RESPOND NO LATER THAN OCTOBER 25th



Program Tickets

Purchase your year of programs in advance and get the following benefits!

No messing with money/checks at the door!

One Program Free!

Two guest passes!

Buy one for your company and pass it around to your employees!

~~~~~  
Cost \$180.00 (\$30.00 Savings)

Program Tickets will be available at the October 4<sup>th</sup> meeting.

Please see Bob Miller

[miller@ashraecenpenn.org](mailto:miller@ashraecenpenn.org)

717-664-0106  
~~~~~

Program ticket is for the 2004/2005 season

Guests may be members. Preregistering is required.

Free program does not include the Senators Outing, Golf Event or PDS's.

Announcements

Promotions

The subject of the 2005 ASHRAE Student design competition is Brewery Blocks – a multi-use, five building campus in Portland Oregon. Interested students should visit the [ASHRAE Student Zone Webpage](#).

New Employees

New Members

Gary Debes, York International, has transferred his membership from the Philadelphia Chapter. Gary has been an active member of ASHRAE at the local, regional and societal levels and will be a great asset to Central PA. Welcome Gary!

Jason Richwine, York International, has transferred his membership from the Pittsburgh Chapter. We promptly recruited him as our new VP. Thanks for your willingness to serve and welcome to the Central PA Chapter!

Weddings/Births/Deaths

Congratulations to Matt Tressler. Matt married Heather Brunner, a Registered Dietician with M.S. Hershey Medical Center, on August 28th.

Anniversaries

Misc.

Congratulations to Jim Davis and Philip Henning. Jim recently retired from the Trane Company after 37 years of service and Philip retired from the Pennsylvania College of Technology after 26 years of service.

Thomas Ask will take the position of Student Advisor for the PA College of Technology student branch.