



The PENNANT

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

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President's Message ...



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Dear Members,

I would like to extend my thanks to everyone who attended a very entertaining presentation on hydronics by Dan Holohan last month.

The Central PA chapter has been awarded a Silver Ribbon for donating between \$5,000 and \$ 9,999 to ASHRAE Research. This comes as a result of continued support by all our members. There are also a number individuals within our chapter that reached out to individually support ASHRAE Research. These individuals are recognized on the annual 2003 - 2004 Investor Honor Roll and include:

Tuu Chau - Frank L. Coleman - Kenneth Cooper - Bengt Dalemar - Glenn Diesposti - Kenneth Hutchison - Vasant Jethwa - Robert Miller - Kirby Slear - William Torchia - Phil Weihrauch - Dan Wyrick

Thanks again for your support!!

As I write this months newsletter crude oil is selling at \$ 54.67/bbl and according to recently published Department of Energy data HVAC systems account for 36 % of a commercial building energy usage.

This is an appropriate precursor for my next announcement: The education committee has organized another great seminar which will take place on November 3rd.

Professional Energy Code Seminar ANSI/ASHRAE/IESNA Standard 90.1 – 2001 By Larry Spielvogel, PE

The education committee strives hard to make these events a success I hope you will join us on November 3rd.

"Engineering is the professional art of applying science to the optimum conversion of natural resources to the benefit of man" -- Ralph J. Smith

As always I appreciate the continued input from all in the membership.

Respectfully,
Myron Ramage
President

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Meeting Agenda

Wednesday November 10, 2004

3:30 – 5:00	Board of Governors Meeting
5:00 – 6:00	Social Hour
6:00 – 6:45	Humidification
6:45 – 7:15	Dinner
7:15 – 8:15	Humidification

Humidification by Carel USA

- What is Humidity and why humidify
- Load Calculation considerations
- Isothermal humidifiers (electrode, electric element, gas fired, direct steam)
- Adiabatic humidifiers (air/water atomizing, high pressure water, ultrasonic)
- Applications for different types of humidifiers

Scott Herr, President Carel USA

Scott has over 25 years of experience in the humidification market. He holds multiple patents in the humidification field and is very active in all aspects of new product development with Carel USA. Scott also sits on the ASHRAE technical committee for humidification equipment standards. Scott Herr founded DGH Systems in 1990 to manufacture and market humidification products in North America. In 2000, 10 years later, DGH Systems merged with Carel s.p.a to form what is now Carel USA.

Dean Scheurich, Humidification Business Unit Manager

Dean has 8 years of experience in the HVAC market of which the last 2 ½ years have been with Carel USA. He was the Eastern Regional Sales Manager 2 years prior to accepting the position of Business Unit Manager. As Business Unit Manager he is responsible for all humidifier sales and marketing in North America.

Reservations

Appalachian Brewing Company "ABC"
50 North Cameron Street
Harrisburg, PA 17101
(717)221-1080

Deadline: Monday, November 8th 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:

50 North Cameron Street

From Lancaster:

283 West to 83 South
83 to 13th St Exit
13th St to Paxton (left turn)
Paxton to Cameron St "230"
(right turn)

From York:

83 North to 13th St Exit
13th St to Paxton (left turn)
Paxton to Cameron St "230"
(right turn)

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 Seminar ANSI/ASHRAE/IESNA Standard 90.1-2001 By Larry Spielvogel, PE
November 10, 2004	BOG Meeting / Program @ Appalachian Brewing Co. Harrisburg	Resource Promotion Night Humidification By Scott Herr and Dean Scheurich
December 8, 2004	BOG Meeting / Program @ Holiday Inn New Cumberland	Acoustics By Carl Eichelberger
January 12, 2005	Professional Development Seminar	TBD
January 12, 2005	BOG Meeting / Program Location TBD	Cooling Tower and Chiller Interaction
February 9, 2005	BOG Meeting / Program @ Appalachian Brewing Co. Harrisburg	Natatorium System Design
March 9, 2005	BOG Meeting / Program @ Holiday Inn New Cumberland	ASHRAE Standard 62
April 20, 2005	BOG Meeting / Program @ Appalachian Brewing Co. Harrisburg	Student Activities Night – Student Presentations
May 12, 2005	BOG Meeting / Baseball Game!! @ City Island, Harrisburg	Senator's Outing Family Night
TBD	Golf Outing	Membership Promotion Day

Attend the six remaining Programs for \$150, by purchasing a Program Ticket – details on the next page.

**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>



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!

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Cost \$150.00 (\$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

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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.

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.



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 MONDAY OCTOBER 25th

Triangle ASHRAE Hospital Conference

Ventilation and Security in Healthcare

November 4-5, 2004

Sponsored by:
The Triangle Chapter of ASHRAE

Co-Sponsored by:

NCHEA - NC Healthcare
Engineers Association
ASHE - American Society
of Healthcare Engineers



CONFERENCE LOCATION:

Holiday Inn
RALEIGH-DURHAM AIRPORT (I-40)
I-40 & PAGE ROAD (EXIT 282)
RESEARCH TRIANGLE PARK, NC 27709
919-941-6000

Directions:
FROM WEST: I-40 TO EXIT 282 (PAGE RD). TURN
RIGHT FROM RAMP, MAKE IMMEDIATE RIGHT
ONTO CREEKSTONE DR. FROM EAST:
I-40 TO EXIT 282 (PAGE RD). TURN RIGHT FROM
RAMP. GO 1/8 MI & TURN RIGHT ONTO
CREEKSTONE DR.

Other Hotel Accommodations
Located on Airport Blvd

Holiday Inn Express	919-653-2260
StayBridge Suites	919-468-0180
Hampton Inn	919-462-1620

Wednesday, November 3, 2004

Golf Tournament

Brier Creek Country Club
Raleigh, NC

Tee time at 1 PM

\$75/person

Space is Limited
30 Attendees

Registration

Name: _____

Company: _____

Address: _____

City: _____

State: _____ Zip: _____

Phone: _____ Fax: _____

Email Address: _____

Check Enclose Amount: _____

Please make check payable to:

ASHRAE Triangle Chapter
PO Box 10862
Raleigh, NC 27605

The price for attending the conference is as follows:

Before October 15, 2004

ASHRAE Member \$250.00

Non-member \$295.00

(10% discount for 2 or more from the same company)

Golf Tournament (November 3) \$75.00

(Limited Space- 30 Conference Attendees)

If one check is written for multiple attendees, please fill out a registration form for each person.

The conference is designed to assist Engineers in their design and operation of their respective facility. We believe we are giving you something that you can use immediately and will assist you in the day to day running of your facility.

For further information please contact:

Lee Alcorn

Phone: 919-696-3359

email: lee.alcorn@axa-advisors.com

Thursday, November 4, 2004

- 7:00– 8:00 Registration and Continental Breakfast
- 8:00– 8:15 Introductions
- 8:15– 8:30 Tom Phoenix on ASHRAE
- 8:30– 9:15 Standard 170 IAQ in Health Care
Rick Herman, PE
Minnesota Energy Conservation Center
- 9:15–10:15 Analysis of Efficiency of UVGI
Inactivation of Airborne Organisms
Using Eulerian and Lagrangian Approaches
Farhad Memarzadeh, Ph.D. P.E
NIH
- 10:15–10:30 Break
- 10:30–11:15 Assessment of Bioaerosol
Reduction Methods in Stem Cell
Transplant Units at a University Hospital
Wayne Thomann, Ph.D.
Duke University Medical Center
- 11:15–12:00 Buildings and the Threat of
Biological Weapons
Michael Mair, MPH
University of Pittsburgh
- 12:00–1:30 Lunch and Trade Show
- 1:30– 2:15 Hospital Securities
William Garber
Duke University Hospital
- 2:15–2:30 Breaks
- 2:30– 3:15 Disaster Management
Milton Goldman, M.D., P.E.
Mallory and Evans
- 3:15–4:00 OR Ventilation Case Studies
Dan Koenigsofer, PE
IES Engineers

- 4:00–4:45 Progress on and Prospects for Experimental
Evaluation of Hospital Operating Room
Air Distribution
Sheldon Jeter, P.E. Ph. D.
Georgia Tech

Friday November 5, 2004

- 7:00 – 8:00 Registration and Continental Breakfast
- 8:00– 8:45 ICRA, Keeping the Dust Out
Lynn Schulster, PhD
Center for Disease Control
- 8:45–9:30 Infection Controls Issues
Related to Protection Upgrades:
The Evaluation of Two Approaches
Nick Ganick, PE
Project X
- 9:30–9:45 Break
- 9:45–10:15 Can Healthcare Ventilation
Standards Be Maintained without
Breaking the Operating Budget?
Bob Cox, PE
PWI Consulting Engineers
- 10:15–11:00 When is MINIMUM not Enough?
Phil Maybee
The Filter Man
- 11:00–1:00 Lunch and Trade Show
- 1:00–1:45 Understanding HVAC Systems &
Evolving Cx Approaches to
Infectious Control & Bio-Security
Tom Hedrick
International Commissioning Engineers
- 1:45–2:30 NFPA 101A Approach to Evaluating
Healthcare Facilities
Sarah Maman, PE
Fire, Life Safety, & Security Institute, Inc.

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

Anniversaries

Misc.