



The PENNANT

Newsletter of the
ASHRAE® Central Pennsylvania Chapter

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

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President's Message...



Dear Members,

Another month and another great meeting! It was good to get together with the local SMACNA chapter and learn the latest on duct construction standards. To my surprise, there have been some changes since my United McGill days. We extend special thanks to G. R. Sponaugle and Son for opening up their sheet metal shop for a tour.

Next up is ASHRAE VP and Standard 62 authority Andrew Persily, PHD. Dr. Persily will present for the PDS and the program which will be on the 7th – the FIRST Wednesday, not the usual second. This is another top notch educational opportunity that would easily cost over a hundred dollars at the annual meeting or elsewhere. Take advantage of the value that Mark Tome's and Tom Long's groups are creating for you.

Encourage your young engineers to come out and get involved! I guarantee that they will acknowledge this action as instrumental to their development and thank you in some future speech. Guaranteed!

“The foundation of every state is the education of its youth.” - Diogenes Laertius, eminent philosopher

Yours truly,
Robert Miller
Chapter President

Inside this Issue

November Meeting Information
2007/2008 Schedule
Program Cards

General Announcements
November PDS
2006 IBC Application Seminar

Wednesday November 7th, 2007
Appalachian Brewing Company, Harrisburg PA
50 N. Cameron St. Harrisburg, PA 17101

5:00 – 6:00 Social
6:15 – 7:00 Dinner
7:00 – 8:00 *Dr. Persily, Bioterrorism*

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

Deadline: Monday, November 5th at 1:00 p.m. PLEASE!

Cost: \$ 30.00 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.

The Role of Ventilation in ChemBio Protection of Buildings

Presenter: Dr. Andrew Persily, ASHRAE Vice President

Concerns over airborne chemical and biological attacks have increased over recent years, prompting research, product development and programs to implement prevention, protection and response strategies. The vulnerability of buildings to airborne attacks depend on a number of factors related to building location, layout, and systems, and protective strategies are increasingly being promoted and in some cases applied. This presentation will address three key issues related to protecting buildings against airborne chembio agents: the threat that is the agents and delivery mechanisms of concern; the vulnerabilities, building features that can increase occupant exposure in the event of an agent release; and, protective strategies, the engineering approaches being pursued to address these vulnerabilities. Special attention will be given to ventilation related strategies to protect buildings from outdoor releases, such as system shutdown, 100 % outdoor air purging, filtration and air cleaning, and building pressurization.

Dr. Persily – Biographical Information

Dr. Persily is intimately involved with indoor air quality and ventilation in commercial and residential buildings. His work includes the development and application of measurement techniques to evaluate airflow and air quality characteristics in a variety of building types, including large, mechanically ventilated buildings and single family dwellings. He is also involved with the development and application of multi-zone airflow and contaminant dispersal models.

Dr. Persily is currently a Vice-President of ASHRAE, and is past chair of ASHRAE SSPC 62.1, responsible for the revision of the ASHRAE Ventilation Standard 62. He is a past chair of ASTM Subcommittee E6.41 on Air Leakage and Ventilation Performance and vice-chair of subcommittee D22.05 on Indoor Air Quality.

Dr. Persily's first two years at the National Bureau of Standards were as a National Research Council Postdoctoral Research Associate, working on air infiltration in homes and large buildings. He received the Department of Commerce Bronze Medal in December 1989, and was named Young Engineer of the Year by the D.C. Council of Engineering and Architectural Societies in 1990. He was named an ASTM Fellow in 2002 and an ASHRAE Fellow in 2004.

Dr. Persily's education includes Beloit College, B.A., Physics and Mathematics, 1976; Princeton University, M.A., Mechanical and Aerospace Engineering, 1979; and Princeton University, Ph.D., Mechanical and Aerospace Engineering, 1982

Directions:

From I-81:

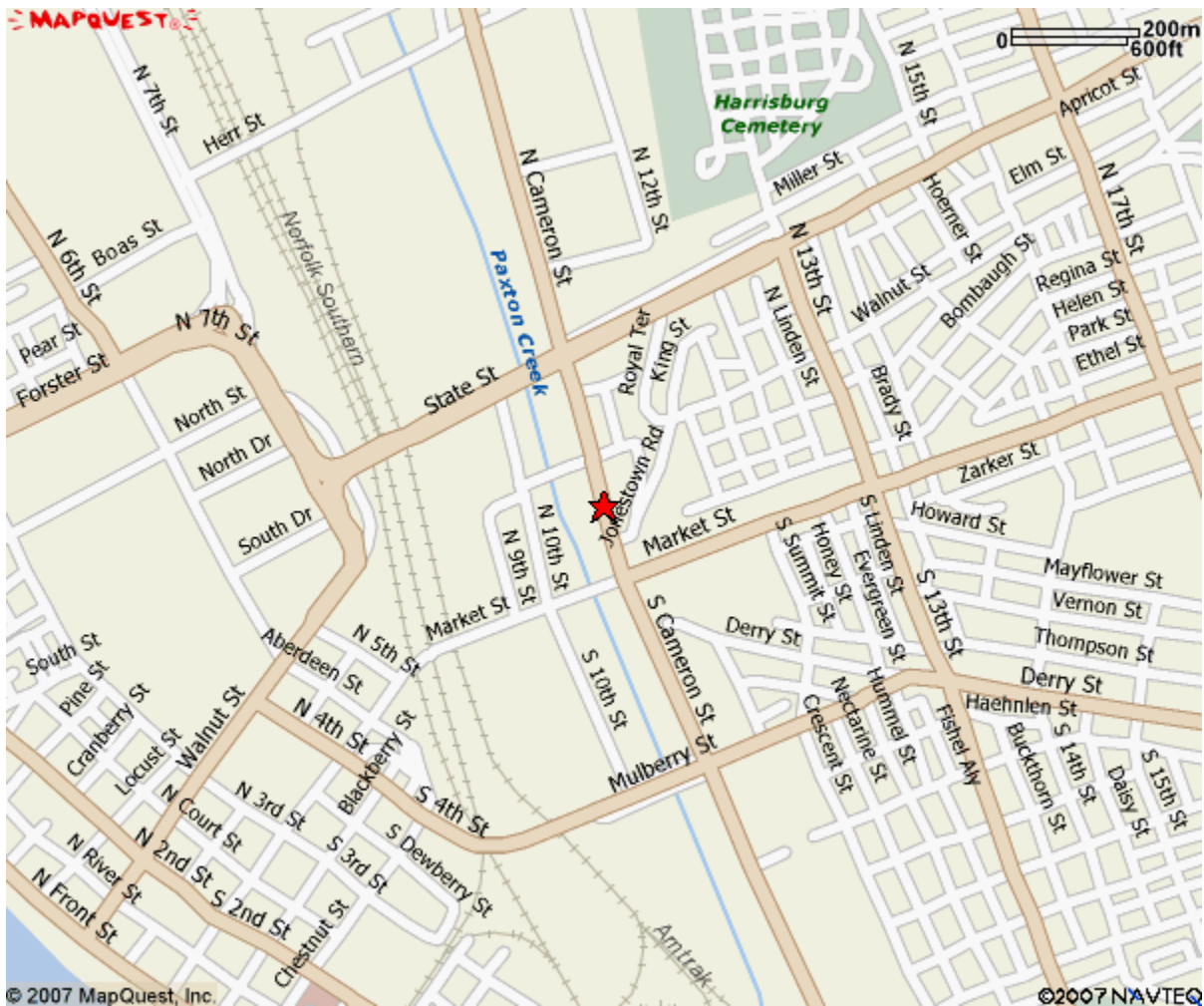
Take the Cameron Street exit. Go about 1 mile past the Farm Show Complex. We are the 3 story brick building on the right hand side (corner of Cameron and Walnut.)

From I-83:

Take the 2nd Street exit. Turn right at the 1st light (Paxton Street.) Turn left at the next light (Cameron Street.) Go through the next light (Market Street) and we are the 3 story brick building on the left hand side (corner of Cameron and Walnut.)

From the West Shore:

Take the Market Street Bridge over the Susquehanna River. Take Market Street past the Railroad Station. The next light will be Cameron Street. Take a left on Cameron Street and Appalachian Brewing Company will be 1 block on your left at the corner of Cameron and Walnut.



ASHRAE Central PA –Current Schedule of Events

8/20/07

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 – TBD 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 – TBD Tech Session Program	BACNet/LonWorks Solar & Wind Power	
February 13 – York Tech Session Program	YEA Night Tour – Under Floor A.D. Lab Domestic Water Heat Pumps	Use condenser heat from a chiller to heat domestic water
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/>

Pre - Paid Program Cards are now available!



Get 1 free program and 2 guest passes!
Pass it around your office!

Order yours by emailing todd@trianglerrefrigeration.com
Or Call
717-656-5720

Annual baseball outing, golf event, and professional development seminars are not included.

Bulletin Board

Awards

The Penn State University Solar Decathlon team placed forth out of 20 schools in this year's competition. The Solar Decathlon is a bi-annual international competition. www.solardecathlon.org

Promotions

New Employees

New Members, Membership Transfers, & Membership Upgrades

Weddings/Births/Deaths

Anniversaries

Miscellaneous

Put it in the Pennant -- Send your announcements to
mark.graybill@mail.ashrae.org



PROFESSIONAL DEVELOPMENT SEMINAR

ASHRAE Standard 62.1: Why, What and How?

A SEMINAR OFFERED BY

THE CENTRAL PENNSYLVANIA CHAPTER OF ASHRAE

WEDNESDAY, NOVEMBER 7, 2007

HOLIDAY INN, NEW CUMBERLAND, PA

EXIT 40A, I-83

Just North of PA Turnpike Exit 242

Presenter: **Andrew K. Persily, Ph.D.**
National Institute of Standards and Technology
Leader, Indoor Air Quality Group - Building Environment Division

Dr. Persily is intimately involved with indoor air quality and ventilation in commercial and residential buildings. His work includes the development and application of measurement techniques to evaluate airflow and air quality characteristics in a variety of building types, including large, mechanically ventilated buildings and single-family dwellings. He is also involved with the development and application of multi-zone airflow and contaminant dispersal models.

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ASHRAE Standard 62 has been the preeminent ventilation and indoor air quality standard since it was first issued in 1973. As our understanding of indoor air quality issues has increased, as new HVAC technology has been developed and in the face of various trends in the building and HVAC industries, the standard has continued to evolve over the years, with the latest release designated as ANSI/ASHRAE Standard 62.1-2007. This Professional Development Seminar will consist of a thorough treatment of the standard, beginning with a history of the standard including the motivations for its development and revision over the years. The latest version of the standard will be reviewed, with a detailed discussion of the requirements and their implications for practice. This discussion will focus on the Ventilation Rate Procedure by which design outdoor air intake values are calculated. Finally, pending revisions and other issues impacting the standard into the future will be discussed. These issues will include the relationship of the standard to energy use, sustainability and code adoption.



SEMINAR COST

Cost for the Seminar is \$40.00, which includes continental breakfast and coffee/soda break.

Checks/cash will be collected at registration *on the day of the seminar*. Make checks payable to: CENTRAL PENN CHAPTER ASHRAE. *Sorry, we do not accept credit cards.*

All attendees will receive a Certificate of Attendance documenting 4 Professional Development Hours.

RSVP

Email your RSVP to:

Tom Long – thomas.long@mail.ashrae.org

Please RSVP by Friday November 2nd. This seminar will fill up quickly so RSVP early! Include your name, phone number, and company/school name.

SEMINAR SCHEDULE

REGISTRATION & CONTINENTAL BREAKFAST 7:45 – 8:30 AM

SEMINAR 8:30 – 12:30 PM

Engineers, Architects and
Design Professionals...

*Do You Know Exactly How the
2006 IBC Affects YOU?*

2006 IBC Architectural Applications for Designers



Presented by:
Pennsylvania Professional
Engineers in Private Practice

October 30 in Monroeville, PA
November 6 in Harrisburg, PA
November 29 in Philadelphia, PA

Registration Form

2006 IBC Architectural Applications for Designers

I wish to attend (please check one)

- October 30 - Monroeville
- November 6 - Harrisburg
- November 29 - Philadelphia

Please Use a Separate Form for Each Attendee

Name _____

Firm _____

Address _____

City _____

State and Zip _____

Phone _____

e-mail _____

*Signature _____

**Registration fees cover the seminar workbook , handouts, breaks and lunch. Registrants are responsible for all other expenses. Registrants will be notified promptly if the program is cancelled. With your signature you grant permission for PEPP to send correspondence regarding the seminar via mail, fax or e-mail.*

It is recommended that each attendee bring a copy of the 2006 IBC to the seminar. Copies of the 2006 IBC can be ordered with this registration for an additional \$85 and picked up at the registration table the day of the seminar.

Select all that apply:

- I am a member of PEPP or of the following Co-Sponsors:
 ACEC ASLA ICC PSPE

- PEPP/Co-Sponsor Member Fee \$245
 Member Fee plus 2006 IBC \$330
 Non-member Fee \$290
 Non-member Fee Plus 2006 IBC \$375

Send registration form and check payable to:

PEPP Seminars
908 N. Second St., Harrisburg, PA 17102
Phone: 717-441-6051 • Fax: 717-236-2046
e-mail: maryellen@wannerassoc.com

Professional Engineers in Private Practice
908 N. Second St.
Harrisburg, PA 17102

Updated for the 2006 IBC!

Pennsylvania's Uniform Construction Code designates the 2006 edition of the International Building Code (IBC) as the statewide code which is being implemented across the state.

Get a head start with Pennsylvania Professional Engineers in Private Practice's (PEPP) Applications of the 2006 IBC for Designers! This seminar will familiarize building designers with choices in building classification, materials, fire resistance, fire protection and means of egress so that they may design basic projects that are code compliant.

Who Should Attend?

Architects, Engineers, Accessibility Inspectors, Building Inspectors, Building Officials, Contractors, Plans Examiners, and other design pros who design IBC-compliant structures and need a concise guide to the key concepts of the code and how it affects their work.

Benefits

- Identify and describe occupancy groups and mixed uses found in the 2006 IBC
- Utilize Tables 503, 601, and 602 to determine height and area, type of construction and fire separation distance
- Meet egress requirements
- Apply the provisions of the 2006 IBC
- Learn about newest regulations

Key Topics of Coverage

- Occupancy Classification
- Building Planning
- Automatic Sprinkler Systems
- Fire-Resistant-Rated Construction
- Means of Egress
- Additions and Alterations
- Architectural Code Data

Agenda

8:00 am	Registration and Refreshments
8:30 am - Noon	Presentation
Noon - 1:00 pm	Lunch (provided)
1:00 - 4:00 pm	Presentation Continues
4:00 pm	Adjourn

Your Instructor

Roland W. Hall, PE is Manager of the Pennsylvania Resource Center of the International Code Council (ICC). Roland served in a similar position with Building Officials and Code Administrators International (BOCA) from June 1989 until BOCA's integration with ICC in February 2003. In his position, Roland serves as a service representative for the Middle Atlantic states and is responsible for the complete range of services to members including code administration presentations, code interpretations and educational seminars. Roland also serves as the chairman of the Board of Safety and Fire Prevention of the Philadelphia Fire Department.

Roland is a registered professional engineer in the Commonwealth of Pennsylvania with 35 years of experience. His credentials include 18 years in code enforcement, certifications as an International Code Council Certified Building Official, Commercial Building Inspector, Building Plans Examiner and Accessibility Inspector/Plans Examiner. Roland has a Bachelor of Science degree in Civil Engineering from Drexel University and is a member of the American Society of Civil Engineers.

Co-Sponsors

- American Council of Engineering Companies of PA
- American Society of Landscape Architects PA/DE
- International Code Council
- Pennsylvania Society of Professional Engineers

When and Where

October 30, 2007

Holiday Inn - Monroeville/Pittsburgh

Phone: (412) 372-1022

2750 Mosside Boulevard

Monroeville, PA 15146

Just off of the Monroeville Turnpike Interchange

November 6, 2007

Holiday Inn Harrisburg East

Phone: (717) 939-7841

4751 Lindle Rd # 104

Harrisburg, PA 17111

Just off of I-83, PA 283 and minutes from the Harrisburg East Turnpike Interchange

November 29, 2007

Holiday Inn Select - Bucks County

Phone: (267) 684-1100

4700 Street Road

Trevese, PA 19053

Directly off the PA Turnpike (Exit 351) and Route 1. Minutes from I-95

Continuing Education Opportunities

- The Pennsylvania Society of Professional Engineers and its affiliates - including PEPP - are pre-approved for six (6) Pennsylvania State Landscape Architects mandatory CEUs.
- The American Institute of Architects (AIA) will award six (6) AIA HSW credits.
- Six (6) AIA HSW credits are eligible for use in renewing engineers licenses in New York. For more information log on to www.pie-cpc.org, then select Frequently Asked Questions (FAQs).
- Personalized certificates awarding six (6) Professional Development Hours will be distributed at the close of the seminar.