



The PENNANT

Central PA ASHRAE Newsletter

<http://cenpenn.ashraechapters.org>

March 2009

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2008-09 Board & Chairs

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Members,

I can't help but look ahead and come to the realization that when the next edition of the newsletter is distributed, it will be spring! Most of us, I am sure, would like nothing better than to skip the remaining weeks of winter and jump right into spring, but remember, patience is a virtue.

This edition of the Pennant is filled with information, articles and links to help you through the remaining days of Winter. It is a pleasure to distribute, and in some cases re-distribute, information via the Pennant. It can be frustrating at times when details are incorrect or omitted, but we are pleased to offer this service to the chapter. We hope you find it valuable and would consider suggesting items for content or creating items to include in the Pennant.

The article "An Interview with Franklin Ruth" is a must read for this month. Chapter historian Andrew Odell prepared the article to include in our chapter records and we are happy to include it in the Pennant as well.

In an effort to provide even more content to the Pennant, I would like to call your attention to a section of the ASHRAE website on advocacy <http://www.ashrae.org/advocacy/>. Follow the link or scroll down and read ASHRAE's mission statement on Government Affairs. Personally, I find the word "establish" as the most important and revealing word in the statement. Important, because it gives action to ASHRAE's advocacy. Revealing, because it shows to us, an international society of 50,000 people, that despite the many technological advances we achieved in our first 115 years, we have not demonstrated to those outside our industry that we are experts in the built environment, and we are valuable resources for policy makers.

By now, I am sure I have some of you thinking, "Oh, this is just another statement by ASHRAE. ASHRAE does not actually "move" quick enough to fulfill this mission statement." 10-12 years ago, I would have agreed. 10-12 years ago we designed around Std 62-1989! We are all aware how ASHRAE was able to move Std 62, as well as many other standards forward.

So here comes the call to change, Right? Nope, not a call to change. You can ask my co-workers and family, and they will tell you I do not like a lot of change. We can change the way we design to meet the most up-to-date standards and criteria, but we will have to change again when the standards and criteria change. Change due to change. Instead of a call for change, I will call for a move forward. A call to move forward with ASHRAE. Move forward with ASHRAE's mission statements:

CTTC (Programs)
[D. Todd Postlethwait, PE](#)

Education Committee
[Thomas Long](#)

Research Promotion
[Bob Miller](#)

Refrigeration Committee
[Mark Tome, PE](#)

Publicity and Webmaster
[Mark Graybill](#)

Student Activities
[Rachel Voigtland](#)

Newsletter Editor
[Brent Adams](#)

Historian
[Andrew Odell](#)

Thank You!

Many thanks to Bill Seaton of ARM Energy Solutions for his presentation at February's meeting. It was very informative to see how geologists can assist in the design of renewable energy systems.

Free MBA!

Gain experience with decision making, bookkeeping, marketing, recruiting, public speaking and much, much more!

Serving as an ASHRAE chapter officer or committee chair offers experiences that your day job cannot.

The chapter has started the nomination and election process for the 2009-2010 year. If you are interested in the opportunities we have please contact Todd Postlethwait. (717)-656-5720

(so, it really isn't an MBA, but it is much more fun -- just so there is no confusion)

ASHRAE Mission:

To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

ASHRAE Vision:

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

ASHRAE Government Affairs Mission Statement:

To establish ASHRAE as a leading source for expertise in the built environment and a resource for policy-makers in the development of legislation and regulations affecting the public, the HVAC&R community, and the engineering profession.

Mark Tome, P.E.

08-09 Chapter President

mat@ba-inc.com

717-845-7654 x237

Meeting Announcement

**The Museum & Visitor Center at
Gettysburg National Military Park
Mechanical System Tour**

Wednesday March 11th 2009

**The Museum at Gettysburg National Military Park
1195 Baltimore Pike, Gettysburg, PA**

**The Pike Restaurant & Lounge
985 Baltimore Pike
Gettysburg, Pa 17325
717.334.9227**

4:45 - 6:15 - Tech Session - Mechanical System Tour

6:30 - 7:00 - Dinner - The Pike Restaurant

7:00 - 8:00 - Program - Overview the Project Install, Operation, and Start Up - (Scott Corbin)

Program - Overview the Museum Project Install, Operation, & Start Up - (Scott Corbin)

Scott Corbin began his career at Systecon in August 1995 as the shipping/receiving clerk, later he transferred to the electrical panel shop building job-specific control panels in 1996; and was promoted to Electrical Designer in the electrical engineering department in 1998. During this period he attended classes at Cincinnati State College, receiving an Associate Degree in Electro-Mechanical Engineering. He's currently in pursuit of his Bachelor Degree from Miami University.

Society Press Releases

[BACnet Gets Down to Business at ASHRAE Conference](#)

February 26, 2009

ATLANTA - From a new standard to activities taking place internationally, BACnet continues to seek improvement in tying together building equipment and systems manufactured by different companies ...

[ASHRAE/AIRAH Issue Joint Resolution on Climate Change](#)

February 24, 2009

ATLANTA - Use of renewable energy, education of the building industry and responsible refrigerant use are encouraged in a new joint statement on climate change issue by ASHRAE and the Australian Institute of Refrigeration Air Conditioning and Heating (AIRAH) ...

[ASHRAE, GBI Pledge to Collaborate to Promote Building Sustainability](#)

February 19, 2009

ATLANTA - Through a new memorandum of understanding, ASHRAE and the Green Building Initiative (GBI) will work together to accelerate the adoption of sustainability principles in the built environment ...

[Economic Stimulus Bill Reinforces Importance of Energy-Saving Standard 90.1](#)

February 18, 2009

ATLANTA-In the economic stimulus package just signed into law by President Obama, ANSI/ASHRAE/IESNA Standard 90.1-2007 and its energy-saving features are recognized through special funding measures ...

Scott's designer position evolved into field work requirements across the country, supporting the service group, troubleshooting the Programmable Logic Controller (PLC) programs and BACNET interface programming, many times being the final eyes on the equipment, completing the start-up, and providing owner training. Scott became Systecon's Service Manager in 2006.

Scott Corbin was the onsite liaison/startup man for the museum project and was involved in the beginning, during construction and today in the systems. Scott will be giving a general presentation of the nuts and bolts of the project. His presentation will give a general overview of the the installation, system operation and final startup, along with time for Q & A. Hope to see you there.

****Special Instructions for this Event****

Please meet at the main entrance to the visitors center by 4:50 pm the building closes at 5:00 pm and no one may enter the building after that time. Parking is available in lots #1 and #2. Should anyone want to tour the Museum, Theater and Cylorama before our tour it is recommended to be in no later than 2:00 pm. See Museum website for ticket pricing.

<http://www.gettysburgfoundation.org>

Reservations:

RSVP: toddp@triangleRefrigeration.com or

(717) 656-5720 ask for Todd Postlethwait

Deadline: Friday, March 6th, 2009 @5:00pm 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.

Gettysburg Map



[ASHRAE Publishes Updated Guidance for Buildings in Hot and Humid Climates](#)

February 18, 2009

ATLANTA - Expanded and revised guidance on keeping heat and humidity out of buildings in hot and humid climates is contained in a new book from ASHRAE ...

[ASHRAE Publishes Load Calculations Manual](#)

February 11, 2009

ATLANTA - Guidance to help designers improve the performance and efficiency of design as it relates to load calculations is contained in a new book from ASHRAE ...

[ASHRAE '09: Engineering Tomorrow ... Today](#)

February 6, 2009

ATLANTA - ASHRAE is moving right along in engineering tomorrow today through a proposed building energy labeling program and a proposed high-performance building standard, according to leaders at the Society's 2009 Winter Conference...



YEA Leadership Weekend 2009

May 15-17 Atlanta, GA

Young Engineers in ASHRAE (YEA) Leadership Weekend is just for you! Its primary focus is to develop the leadership skills of young ASHRAE members by offering personal and professional development, networking opportunities, and a greater understanding of ASHRAE and how the Society can help YOU advance your

Schedule of Events

Date & Location	Event
September 10 - Wyndham Garden 5:00 pm - 6:00 pm Tech Session 6:15 pm - 8:00 pm Dinner/Program	Past Presidents Dedicated Outdoor Air Systems Active Chilled Beams
October 8 - ABC - Harrisburg 5:00 pm - 6:00 pm Tech Session 6:15 pm - 8:00 pm Dinner/Program	Membership Promotion Solar Technology Solar Tubes
November 12 - ABC - Harrisburg 5:00 pm - 6:00 pm Tech Session 6:15 pm - 8:00 pm Dinner/Program	Research Promotion Engineering and Insurance Legal Issues
December 10 - ABC Harrisburg 5:00 pm - 6:00 pm Tech Session 6:15 pm - 8:00 pm Dinner/Program	History Night Integrated Design Energy Modeling
January 14 - Wyndham Garden Harrisburg 5:00 pm - 6:00 pm Tech Session 6:15 pm - 8:00 pm Dinner/Program	Joint meeting with AEE ASHRAE 90.1 Standard 2007 90.1 Changes from 2004 to 2007 Overview of Std 189.1
January 21 - Sheraton Harrisburg/Hershey Professional Development Seminar 7:45 - 8:30 AM Registration & Continental Breakfast 8:30 AM - 12:30 PM Seminar	"Stuff You Don't Learn in Engineering School" By Carl S. Selinger Learn important soft skills that engineers and other professionals need to know
February 11 - ABC Harrisburg 5:00 pm - 6:00 pm Social Hour 6:15 pm - 8:00 pm Dinner/Program	YEA Night Come and learn more about renewable energy!
March 11 - Museum/Pike 4:45 pm - 6:15 pm Museum Tour 6:15 pm - 8:00 pm Dinner/Program	Gettysburg National Battle Field Museum Mech. Systems Tour Project Presentation by Scott Corbin
April 8 - ABC - Harrisburg 5:00 pm - 6:00 pm Tech Session 6:15 pm - 8:00 pm Dinner/Program	Student Activities Night Social with Students Thesis Presentations by AE Students
April 22 - Sheraton Harrisburg/Hershey 7:45 - 8:30 AM Registration & Continental Breakfast 8:30 AM - 12:30 PM Seminar	Professional Development Seminar "Optimizing HVAC Systems for the 21 st Century" By Donald R. Wulfinghoff, P.E.
April 22 - Harrisburg Trane 1:00 PM - 4:00 PM	Satellite Broadcast Clean, Lean, and Green: IAQ for Sustainable Buildings
May - TBD	Family Night TBD
July - TBD	Golf Outing to benefit ASHRAE Research

career. For questions or to reserve a spot, send an email to: youngengineers@ashrae.org

The event will be held at the newly renovated ASHRAE Headquarters.

[YEA Leadership Weekend Registration Form](#)

YEA Connection Newsletter

Greetings!

This quarterly newsletter is coming to you as a YEA member.

What does the show Dirty Jobs and Young Engineers in ASHRAE have in common? Have you ever seen the show Dirty Jobs? Ever noticed the part where [...](#)

Pennant Mailing List

[Join Our Mailing List!](#)

Bulletin Board

Awards, Promotions, New Employees, New Members, Weddings/Births/Deaths/Anniversaries, etc. (posted free of charge)

Put it in the Pennant - Send your announcements to Brent Adams - badams@fswelsford.com

We also publish employment opportunities.

The cost is \$50 per issue.

2009/2010 Directory

Attention!

Manufacturers' Representatives in the Central PA Area

The Central Pennsylvania ASHRAE Chapter is pleased to announce that we are ready to accept updates and new listings for the third edition of the Product Representative and Distributor Directory.

If you created an account previously, your company and listing information will be available to review and edit. Please use your user name and password to access this information, or follow the steps to create a new account. With a planned distribution of 500 copies, area engineers, contractors and decision makers will be looking for you in the directory. All local ASHRAE members will receive a complimentary copy. The cost is \$150.00 for the first page and \$50.00 for each additional page. Pay by credit card using our secure and encrypted web server. Each account will receive three copies of the final directory. Proceeds will fund Central PA ASHRAE initiatives such as the scholarship fund. The server will be available for data collection and editing through April 1st. The directory will go to print in June and be available for distribution by the golf outing.



Visit www.cenpenndirectory.org to access the directory website.



ASHRAE Satellite Broadcast

Clean, Lean, and Green: IAQ for Sustainable Buildings

April 22, 2009, 1:00p.m. - 4:00p.m.

Using the guidance provided by the IAQ Guide: Best Practices for Design, Construction, and Commissioning developed through collaboration with ASHRAE, AIA, BOMA, EPA, SMACNA and USGBC, this broadcast will challenge the building community to use enhanced IAQ practices to create a more sustainable built environment. Join ASHRAE in learning more about your role in transforming mid-range practice into best practice for healthy, productive, sustainable indoor environments.

FAQs - [Frequently Asked Questions](#)

About the Panel of Presenters - [Hoy Bohannon](#), [Barney Burroughs](#), [George DuBose](#), [Martha Hewitt](#), [John McFarland](#)

About the Moderator - [Don Rheem](#)

Program - [Tentative Agenda](#)

Arrangements have been made for chapter members to view the broadcast at the Harrisburg Trane office (3909 Tecport Dr., Harrisburg, PA 17111). If you would like to view the broadcast at Trane's office please email Kim Young, kyoung3@trane.com with the number attending.

Many thanks to Trane for opening their broadcast site to the ASHRAE chapter!

An Interview with Franklin Ruth

ASHRAE Central PA Past President (1989-90)

I recently sat down with Frank Ruth, ASHRAE Central PA Past President and Mechanical Engineering Project Manager for PA Department of General Services.

Frank was born in Lykens, PA and now resides in Dauphin with his wife and two sons.

How did you get started in the business?

"I majored in Architectural Engineering at Penn State University. My Bachelor's was in Architectural Engineering with the Construction Management Option. HVAC was a part of that. In the mid to late 1970s, with the energy crisis at the time, I got interested in earth-sheltered housing. Heating and cooling costs (in earth-sheltered homes) are much lower than in a typical house."

Frank continued to incorporate HVAC into his schooling. He went on to receive an M.S. in Arch. Eng from PSU. He has continued to incorporate earth-sheltering principles to his own home. "The peak heat loss for the house is not until March because of the time lag (with earth-sheltering). So you never see the extremes." His education, along with life-long love of building and architecture, drove Frank toward the HVAC industry. "When I was little, I was always interested in architecture. I was always drawing building elevations, that sort of thing. Then I found out about the program at PSU."

On his parents' property in Dauphin County, Frank designed a house and then worked with a contractor in building it based on his design. "That was my first," said Frank. He was in high school at the time. Even before that, Frank designed a workshop on his parents' property. He later designed his own home in 1980. "Architecture is my hobby; engineering is my profession."

How did you get involved with ASHRAE?

"In my sophomore year at PSU, we had an HVAC course and the professor was Stan Gilman. Stan was President of ASHRAE at the time. So he was pushing ASHRAE. We were required to join as members in order to get the ASHRAE Handbook, which was the textbook for the course." Talk about pressure to get involved!

What roles have you held within ASHRAE?

"Foster Filson was active in the local chapter, so he got me involved in meetings. That was around 1980." Frank was on the Board of Governors, and held positions of Treasurer, Vice President., President-elect, and then President in 1989.

What role was best?

"I liked being Treasurer, but it took 2 years to really learn what was going on. I learned how to do it by looking at the records for the past years. (After that experience) I put together the Treasurer's Manual based on the CRC manual. That's when we formalized the procedures."

What influence has ASHRAE played in your career?

"I've gotten to know a lot of people outside work. People within the industry I wouldn't have know otherwise. In particular, other engineers. When you're working as an engineer, you don't necessarily know other firms. I've had help from people (along the way)."

"To have salesmen, contractors, engineers all getting together away from the workplace - that has always been beneficial. That's the primary benefit of the local chapter."

Personal accomplishments in the industry?

"The main capitol building (in Harrisburg). I was the primary engineer for design of the heating and cooling upgrade of that building. It was a long-term project. And that's why I ended up here at DGS."

What jobs have you held over the years?

- Draftsman with Filson Minnich Associates (5 years)
- Gatter & Diehl (10 years)
- Gannett Fleming (5 years)
- Department of General Services since 1998 as Mechanical Engineering Consultant, and now as Project Manager

Who has influenced you?

"Stan Gilman was an influence. Foster Filson was the first professional engineer I worked for. He got me more involved with ASHRAE and the HVAC industry. Pete Pappas. He was tough, but I learned a lot from him - it was beneficial."

What major events/milestones have you seen in the HVAC industry?

"There's been a number of things. There's been a big change in technology from the standpoint of how you get information. We used to get everything from catalogs. Now it's much faster and more up-to-date. We don't have to wait for salesmen to update catalogs. (Also), control systems have become more sophisticated. Equipment has become more efficient. To some extent, ASHRAE has become more influential. They've always been the 'bible' of the industry, but now they're in the building codes."

What do you think is coming in the future? How will things change?

"Obviously, the energy concerns will become even greater, so we'll strive for more efficient systems. More self-sufficiency is possible. Solar ties in to that. I think the primary source will still be electricity in some way - however that is generated. We'll have to get away from fossil fuels, so we'll go more to heat pumps and things of that nature."

Do you have a favorite technology?

"Geothermal technology is a favorite of mine. I see that growing where it's applicable. I have a geothermal heat pump in my house."

How will the role of HVAC engineers change?

"The need to increase efficiency will come from engineers. Systems will become more highly engineered in order to do that."

You've become involved in commissioning. Where do you see that side of the business going?

"Commissioning is going to be increasing. We may end up doing commissioning on all our projects here (at DGS). We should have fewer problems turning over buildings. The buildings should work. Without, there's been many cases where that hasn't been the case." DGS has over 100 commissioning projects in the six years they've been doing commissioning.

Anything you wish you'd done differently? Any advice for those just starting in the industry?

"To get more experience while you're in school. Professionally. It would have been better if I had gone to work in the industry (during school). Take advantage of internships and that sort of thing. When I started, I learned a lot in that first year. If I had been working, I would have already been there. And that's after being at one of the best programs in the country. But that doesn't take the place of real field experience." Of course, Frank has more than made up for those missed internship opportunities!

What are your Personal Goals?

I want to get more involved in local history - more time for that. A very recent goal of Frank's has been to go to the Rose Bowl to watch Penn State compete. He'll have the opportunity to meet that goal next month! To say that Frank is a Penn State "I've only missed one home game since 1970," he pointed out. Why was that? A tropical storm went through the area, leaving his home flooded and the streets literally shut down! "That's the only thing that kept me away," pointed out Frank. fan is a bit of an understatement.

Andrew Odell
December, 2008

**Professional Development Seminar
Announcement**

**"Optimizing HVAC Systems for
the 21st Century"**

**A SEMINAR OFFERED BY
THE CENTRAL PENNSYLVANIA CHAPTER OF
ASHRAE**

Wednesday, APRIL 22, 2009

**SHERATON HARRISBURG HERESHEY HOTEL
4650 LINDLE ROAD, HARRISBURG, PA
www.sheratonhershey.com**

Presented by:

**Donald R. Wulfinghoff, P.E. President, Wulfinghoff
Energy Services, Inc. Wheaton, MD**

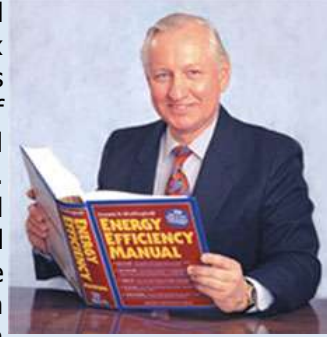
Donald Wulfinghoff is a researcher, consultant, and teacher in the field of energy efficiency. Since the "oil shock" of 1973, his research has contributed to fundamental understanding of energy issues, he has guided government energy policy, and is considered a leader in energy efficient design and operation of buildings and industrial facilities.

Mr. Wulfinghoff is the author of the *Energy Efficiency Manual* (Energy Institute Press), a primary reference on energy efficiency in buildings. In 1978 he established the first professional courses on energy conservation at George Washington University. His courses, seminars, and lectures have been attended by thousands.

Mr. Wulfinghoff was an organizer and judge of the ASHRAE Energy Awards design competition, and he contributed the original Energy Management chapter of the *ASHRAE Handbook*. He is also active in the development and promotion of ASHRAE Standard 90.1, which has become the recognized energy standard for the United States.

He is president of Wulfinghoff Energy Services, Inc., and his firm has provided services to organizations ranging

from the White House to heavy industrial plants, from small schools to the most complex hospitals. The firm provides consultation in many areas of technology and management, and trains energy professionals. Mr. Wulfinghoff is a Professional Engineer in mechanical and electrical engineering. He received a B.S. in physics from the University of Louisville and an M.S. in physics from the University of Florida, where he also completed the core program for a doctorate in physics and electrical engineering.



This Professional Development Seminar will be of great interest to engineers, designers, contractors, facilities managers, students, and others in our industry. You will learn how HVAC evolved to its present state, and how much of contemporary practice in HVAC is inadequate to fulfill the stringent demands of the 21st century; demands of comfort, indoor air quality, energy efficiency, and resistance to terrorism. Addressing these issues has become an elusive goal and a challenge to all of us in the business. The presentation will outline an approach to optimizing HVAC systems to provide for dehumidification, optimized ventilation, controlling outside air, controlling space pressure, optimizing air movement within the space, minimizing energy consumption, and eliminating health hazards. Onward to the Future!

SEMINAR COST

Cost for the Seminar is \$50.00, 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

****DO NOT REPLY TO THIS E-MAIL
(marktome1@comcast.net) TO RSVP****

Please RSVP by Friday April 17th. This seminar will fill up quickly so RSVP early! Include your name, phone number, and company/school name.

SEMINAR SCHEDULE for Wed, April 22

**REGISTRATION & CONTINENTAL BREAKFAST
7:45 - 8:30 AM**

SEMINAR 8:30 - 12:30 PM