



The PENNANT

Newsletter of the
ASHRAE® Central Pennsylvania Chapter

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

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President's Message...



Dear Members,

Wow – Another great meeting in February! The Under Floor Air Distribution demonstration was incredibly informative. Additionally, the large BTU water-to-water heat pump presentation by Ray Good was just phenomenal. If you are charged with designing green systems and missed the last 2 months meeting, you missed some fascinating and applicable learning opportunities. Special thanks to Ray and Tim Irvin for presenting and thanks to Johnson Controls for hosting us. Great job to the programs committee!!

This month's program will be held at the Air Products liquid nitrogen plant in Lancaster County. The technical session will be a plant tour and detail the production of sub-cooled Nitrogen.

For the program, our topic is a little different and to my knowledge hasn't been done anytime in recent history. We will be discussing budgeting HVAC systems. You'll learn about the latest methods and benchmarks available. So don't blow your budget! Come out and hear the latest!

Finally, one last reminder, sign up now for the March 19th PDS. There are currently over 90 central PA people attending from various disciplines. Space is limited so don't wait!

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.

Hope to see you on March 12th!

Sincerely,

Bob Miller

Inside this Issue

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

Wednesday March 12th, 2008
Centerville, Lancaster Co.

5:15 – 6:00 Tech Session: Tour of Air Product's liquid nitrogen plant.
6:15 – 7:00 Dinner
7:00 – 8:00 Program: HVAC Estimating

Tech Session

This month, we are fortunate to have a tour of Air Product's liquid nitrogen plant. This will be a **cool** tour as we learn how air is converted from ambient temperature, purged of impurities and transformed into liquid nitrogen, a near absolute zero liquid.

Quick Facts about Liquid Nitrogen (LN₂)

- Boiling Point -321F
- Freezes at -346F
- UN: 1977
- Used to freeze water piping when isolation valves are not present
- Cools the magnets of some MRI's

Reservations are mandatory for the Air Products Tour.

Program

As uncertainty grows in the financial world and budgets receive more and more scrutiny, we will be taking a look at HVAC estimating. Join us at the Park Plaza Hotel as we take a look at applying square foot costs, adjusting for inflation and location, and more. Bring your questions and concerns as we will reserve ample time for Q&A

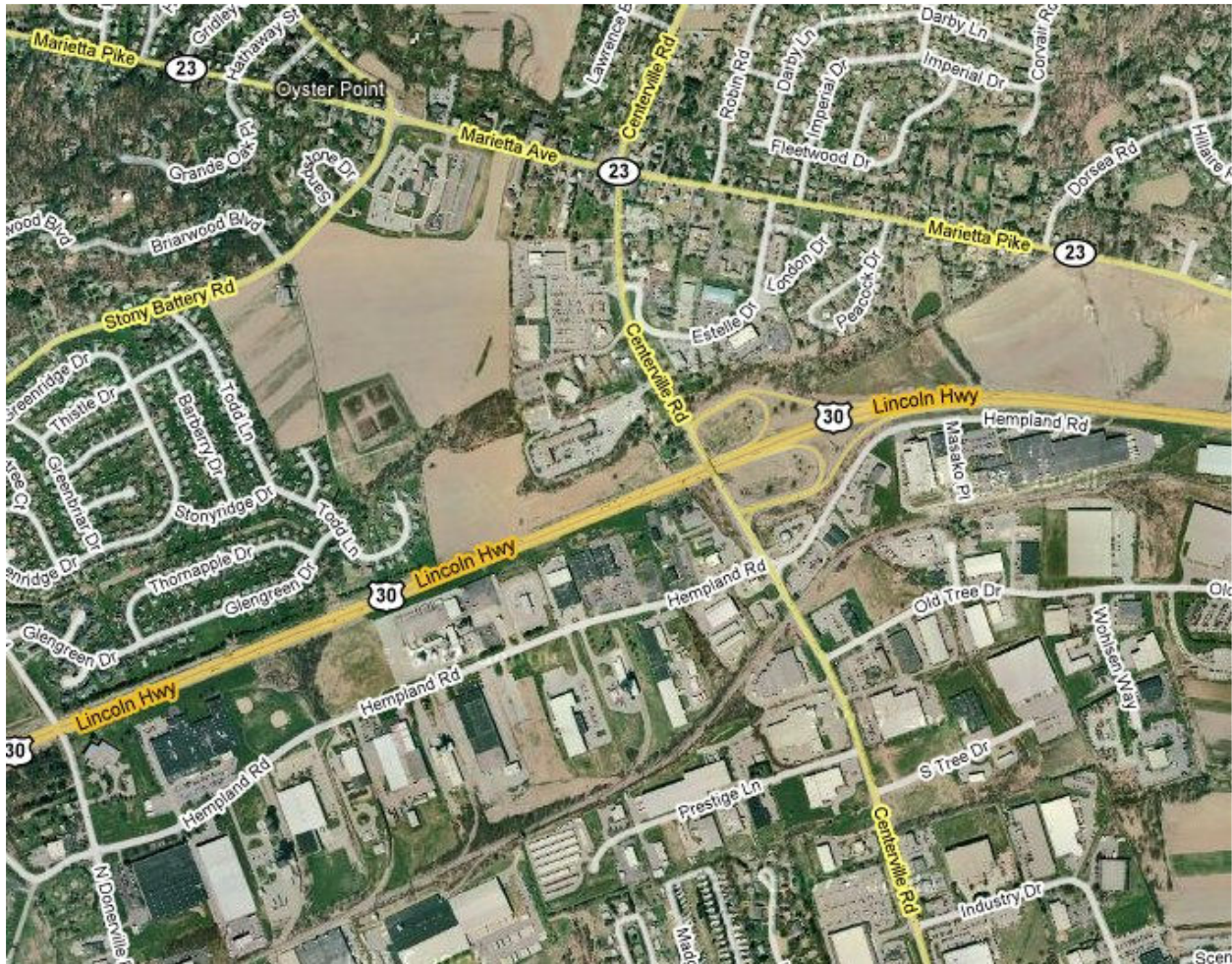
Reservations: mat@ba-inc.com or (717) 845-7654 ask for Mark Tome

Deadline: Friday, March 7th at 3:00 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.

Centerville, Lancaster County



Air Products – 3250 Hempland Rd, Lancaster, PA

Take Route 30 to Centerville RD and proceed south. Turn left onto Hempland RD. Air Products will be on your right.

Park Plaza Hotel – 500 Centerville Rd, Lancaster, PA

Take Route 30 to Centerville RD and proceed North. Park Plaza Hotel will be on your left.

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	
August 14-16 – The Hilton Harrisburg	ASHRAE 2008 Region III CRC	See the chapter website for further details.

Check the chapter website for updates to the schedule.

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

Bulletin Board

Please welcome the following new members.

New Members in January 2008

Jason Moore – Associate
jmmoore@raytheon.com

Nathan L. Potteiger – Associate
npotteiger@hvacdist.com

David Brian Finch – Associate
dfinch@tekgard.com

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

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 .

JOB TITLE: **DESIGN / APPLICATION ENGINEER**

SUMMARY: HVAC OEM needs energetic, self-motivated application engineer who will be responsible for providing application and technical support to the distributors and the customers. Knowledge of Solid Works a plus. BSME plus 3 years of experience in HVAC is desirable.

ESSENTIAL DUTIES AND RESPONSIBILITIES include but not limited to the following:

- ✓ Size / select / modify equipment / components for job specific applications.
- ✓ Researches and analyzes data such as customer design proposal, specifications and manuals to determine feasibility of design or application.
- ✓ Designs and/or specify products or systems such as instruments, controls and mechanical, thermal, hydraulic or heat transfer systems.
- ✓ Compiles and analyzes operational test and research data to establish performance standards for existing, newly designed or modified equipment or product.

SALARY: Negotiable.

Benefit package available. Pre-employment physical and drug screening required.

Please forward resume and cover letter to:

Attn: Martha Wagaman, H/R Mgr.
UNITED COOLAIR CORP
491 E. PRINCESS ST. – PO BOX 5085
YORK, PA 17405
PHONE: 717-843-4311 ext 34
FAX: 717-854-4462

EOE

Email: mwagaman@unitedcoolair.com

Company profile available @ www.unitedcoolair.com



**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