



# The PENNANT

Newsletter of the  
ASHRAE® Central Pennsylvania Chapter

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

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## President's Message....



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Dear Members,

I would like to extend a thank you to Mr. Chris McDonald for his informative presentation On February 9<sup>th</sup> and also thank CSI for joining us. We were pleased to see so many new faces at our meeting.

We have a seminar right around the corner this February 24<sup>th</sup> hosted by our hard working education committee. "Hyronics Systems, Design for Sustainability" will provide understanding of pumps, pump applications and energy saving strategies.

On March 1<sup>st</sup> we will host our monthly meeting. It is earlier in the month than usual but we couldn't wait to have it.

It is our "Refrigeration evening" and we will be discussing problem solving with central chilled water plants including the Harrisburg Capital Complex chilled water plant.

We are also having a "Tech Session" before the meeting discussing refrigerant phase out and the future of refrigerant.

Please review all the details in this pennant and we look forward to seeing you this February and in March.

Respectfully,

Glenn DiEsposti  
President  
Central PA ASHRAE

### Inside this Issue

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## Meeting Agenda

Wednesday, March 1, 2006  
Holiday Inn Hotel and Convention Center

**3:00 – 4:30**    **Technical Session**  
**5:00 – 6:00**    **Social Hour**  
**6:00 – 8:15**    **Dinner, Presentation,**

### **Pre-Dinner Technical Session**

Presenter:        Tony Digmanese, Director of Industry Relations  
York International, a Johnson Controls Company

Topic:             Refrigerant phase out and the future of refrigerants.

Mr. Digmanese is Director of Industry Relations at York International. He is also a member of ARI Chiller Product Section, Government Affairs Committee, International Affairs Committee, and General Statistics Committee. He is a Board Member of Alliance for Responsible Atmospheric Policy; a Board Member of International Climate Change Partnership; a Board Member of Business Council on Sustainable Energy; Member of ISO TC86/SC6; and a Member of the US Technical Advisory Group to ISO. He is York International's corporate representative to the International Code Council and formerly, Regional Marketing Manager, Asia Pacific, for York International.

Mr. Digmanese is a Member of ASHRAE and has given presentations on refrigerant phase out and the future of refrigerants to numerous ASHRAE Chapters.

### **Main Presentation**

#### **Topic: Deriving Creative Solutions to Central Heating and Cooling Plant Problems**

The presentation will focus on several large central plant installations that were experiencing problems with either capacity, system flow, pressure, or all three, that required "out of the box thinking" to resolve. One of the installations described is the Commonwealth Central Chilled Water Plant in Harrisburg, which presently serves ten buildings in the Capitol complex, and is scheduled to serve the new Justice Center when the building is completed in the next couple of years. The central plant installed capacity is 8750 tons, however pumping and distribution problems limited the actual capacity to about 5900 tons.

Presenter:        **Hemant Mehta, P.E.**  
                         **President, WM Group Engineers, PC**  
                         **New York, NY**

Mr. Mehta has extensive experience in optimizing performance and improving efficiencies of existing central heating and cooling plants. He has managed over 100 central utility projects throughout the United States as well as Germany, Saudi Arabia and Japan. Because of his innovative approach to the design of central chilled water systems, many of his clients have retained him as a sole source consultant. These clients include Yale University, Louisville Medical Center and MIT. Based on his recommendations, many facilities have saved millions of dollars in avoided capital costs and operating costs.

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

**Reservations:**

**Deadline: Monday February 27th at 1:00 p.m. PLEASE!**

Program Cost: **\$ 25.00 With Advance Reservation**  
**\$ 30.00 At the door**  
**\$ 5.00 Retired/Students**

**To make reservations, email Penny Ness at: [penny.ness@york.com](mailto:penny.ness@york.com)**

Put "ASHRAE Reservation" in the title of the email.  
Multiple reservations may be made in one email if names are given.

**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.

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**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

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# Central Pennsylvania Chapter ASHRAE

## 2005-2006 Programs

DATE	EVENT LOCATION	TOPIC/DESCRIPTION
September 14, 2005	Tour Elks Lodge York	Compressor Technology
October 12, 2005	Holiday Inn – New Cumberland	Heat Recovery Donor Appreciation Night
November 9, 2005	Holiday Inn – New Cumberland	Writing Performance Based Specifications Membership Night
November 18, 2005  Professional Development Seminar	Holiday Inn – New Cumberland	"Life Skills & Leadership for Engineers" Dr. David Goldberg, Professor in Entrepreneurial Engineering Director, Illinois Genetic Algorithms Laboratory Department of General Engineering Univ. of Illinois at Urbana-Champaign
<b>December 14, 2005</b>	<b>Appalachian Brewing Company – Harrisburg</b>	<b>Terry Townsend, ASHRAE President-Elect will discuss the Future of ASHRAE Past Presidents Night</b>
January 11, 2006	Tour – Masonic Homes, Elizabethtown	Masonic Homes co-gen plant Research Promotion Night
February 9, 2006	Holiday Inn – New Cumberland	Document Management and Discovery – How Documents and E-mails are Used in Litigation ASHRAE Distinguished Lecturer Chris McDonald, Esquire Membership Night
<b>February 24, 2006</b> <b>Professional Development Seminar</b>	Holiday Inn – New Cumberland	- Bell & Gossett "Little Red Schoolhouse" - hydronic system design
March 1, 2006	Holiday Inn – New Cumberland	Capitol Complex Chiller Plant Design Refrigeration Night
<b>April 19, 2006*</b>	Appalachian Brewing Company – Harrisburg	Penn State AE Student Project Presentations Student Night
<b>April 28, 2006</b> <b>Professional Development Seminar</b>		"Innovative Design of Air and Water Systems to conform to ASHRAE 90.1 and to improve Indoor Air Quality" Evans J. Lizardos, P.E. ASHRAE Distinguished Lecturer from Lizardos Engineering Associates, Mineola, NY
May 10, 2006	<b>Senator's or Barnstormer's Ballgame - TBD</b>	Family Night
July 2006	ASHRAE Golf Outing	Heritage Hills Golf Course York, PA

\*Previously April 12, 2006



# PROFESSIONAL DEVELOPMENT SEMINAR

## “Hydronic Systems - Design for Sustainability”

A SEMINAR SPONSORED BY  
THE CENTRAL PENNSYLVANIA CHAPTER OF ASHRAE

Friday, February 24, 2006  
Exit 40A, I-83  
Just North of Turnpike Exit 242

**Presenter:** Roy C.E. Ahlgren,  
Director of ITT Fluid Handling's Training & Education Department

### **Topics:**

- A brief review of centrifugal pump operation, construction details, and a few installation issues that would be of interest to designers and engineers.
- Using the information from pump curves in selecting and monitoring the operation of the pump, especially its energy consumption.
- Energy saving ideas in the application of the pump. This is an overview of energy saving strategies that was prepared for a major conference in Rio de Janeiro.

Roy C.E. Ahlgren, Director of ITT Fluid Handling's Training & Education Department, is a graduate of the U.S. Naval Academy with a degree in Naval Science, and the Illinois Institute of Technology, with a Master's Degree in Management.

During his career as a Naval Officer, he was responsible for the operation and maintenance of a wide variety of shipboard engineering systems. He was a member of the first Engineer Officer's course for conventional steam plants held at the Naval Reactor Facility in Idaho Falls, and he directed the complete engineering systems overhaul of a guided missile cruiser.

He was designated by the Navy as a Training Specialist, and served as Executive Officer of the Recruit Training Command, "boot camp", at Great Lakes and the NROTC unit at Northwestern University.

Mr. Ahlgren has taught seminars in steam and water systems at ITT Bell & Gossett's famous "Little Red Schoolhouse" in Morton Grove, Illinois since 1985. He has also developed a number of shorter seminars on various aspects of steam and hydronic systems, which he presents around the country on behalf of ITT Fluid Handling Representatives. He is the author of several booklets and articles on fluid handling topics.

He is a past Chairman of the ASHRAE Technical Committee on Hydronic and Steam Systems and Equipment, is active in the Chicago Chapter of ASPE, and the Chicago Area Runner's Association.

### **SEMINAR COST**

Cost for the Seminar is \$35.00, which includes continental breakfast.

Checks/cash will be collected at registration *on the day of the seminar*. *Sorry, we do not accept credit cards.*

Checks to be made out to: CENTRAL PENN CHAPTER ASHRAE

Information: Tom Long  
Phone: 717-763-7212 x2997  
Fax: 717-763-9357  
Email: thomas.long@mail.ashrae.org

### **SEMINAR SCHEDULE**

REGISTRATION & CONTINENTAL BREAKFAST – 7:30 - 8:00 AM - SEMINAR – 8:00 – 12:00 PM

# Bulletin Board

Make plans to attend the upcoming Professional Development Seminar February 24, 2006

To make reservations contact Thomas Long [thomas.long@mail.ashrae.org](mailto:thomas.long@mail.ashrae.org)

**Presenter** - Roy Ahlgren, Director of Training and Education

**Program** - *Hydronic Systems - Design for Sustainability*

**Covering** - Centrifugal Pumps  
Gaining useful information from pump curves  
Energy saving ideas in hydronic systems design

# ***Announcements***

<i><b>Promotions</b></i>
<i><b>New Employees</b></i>
<i><b>New Members/Transferred Memberships</b></i>
Bettadadura (Jag) Jagadish - Hershey Foods Nicholas Romeo - Carrier Ashraf Abdalla - York
<i><b>Weddings/Births/Deaths</b></i>
<i><b>Anniversaries</b></i>
<i><b>Misc.</b></i>

*Put it in the Pennant -- Send your announcements to  
[eric.zanolini@mail.ashrae.org](mailto:eric.zanolini@mail.ashrae.org)*