



The PENNANT

Newsletter of the
ASHRAE® Central Pennsylvania Chapter

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President's Message....



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Dear Members,

Happy New Year to all.

We all hope that you and your families had a wonderful and safe holiday season.

It is always exciting to start a new year with great expectations which was just one small part of the discussion our society future President shared with us this past month. Wow! If you missed Mr. Townsend's speech then you missed a very knowledgeable, inspiring and generous leader in our society.

His main message was the message we started out the year with.

"If you drink the water, remember the spring"

As we mentioned previously, many practices in our design industry have a baseline, which we call ASHRAE.

Think about it. How many times do we address ASHRAE when a design is generated and we take for granted where this information came from.

Please do not forget that your support for the chapter and society can only enhance your professional success.

We were also pleased to honor our past chapter presidents and we were ecstatic to see so many that were present. Thanks to all.

Please join us this month as we visit the Masonic Home in Elizabethtown to tour their cogeneration plant that was the recipient of the *2004 Design/build award from contracting business magazine*. The head engineer for this project, Mr. Dan Kerr, will host the tour.

We hope to see you all on the 11th of this month.

Have a great 2006.

Respectfully,

Glenn DiEsposti
President
Central PA ASHRAE

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Meeting Agenda

Wednesday, January 11, 2006

5:00 – 6:00 Social Hour
6:00 – 8:15 Dinner, Presentation,

Topic: Heat & Power Plant at The Masonic Homes of Elizabethtown, PA

Daniel P. Kerr, P.E.

Dan Kerr is the Director of Design Build Services at McClure Company, a full service mechanical contractor in Harrisburg, PA. At McClure, Dan is responsible for oversight of all engineering operations, design-build project acquisition, commissioning activities and automatic temperature controls work.

Mr. Kerr is a graduate of the Architectural Engineering program at Penn State. He is a Professional Engineer, registered in the Commonwealth of Pennsylvania. Dan has served ASHRAE at the Society level by participating in an invited workgroup aimed at improving the Handbook series. He is still very active at Penn State, frequently invited to guest lecture for graduate-level construction management courses and by serving on two university research advisory boards – the Indoor Environment Center (<http://www.engr.psu.edu/ae/iec/index.htm>) and the Partnership for Achieving Construction Excellence (<http://www.engr.psu.edu/pace/>).

Dan was the Engineer of Record for a unique combined heat & power plant at the Masonic Homes of Elizabethtown, PA, which won a 2004 Design/Build Award from *Contracting Business* magazine. Dan will provide a project overview and lead a tour of the Masonic Homes heat & power plant.

Elizabethtown College
1 Alpha Drive
Elizabethtown, PA. 17022
see attached map

Reservations:

Deadline: Monday January 9 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

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

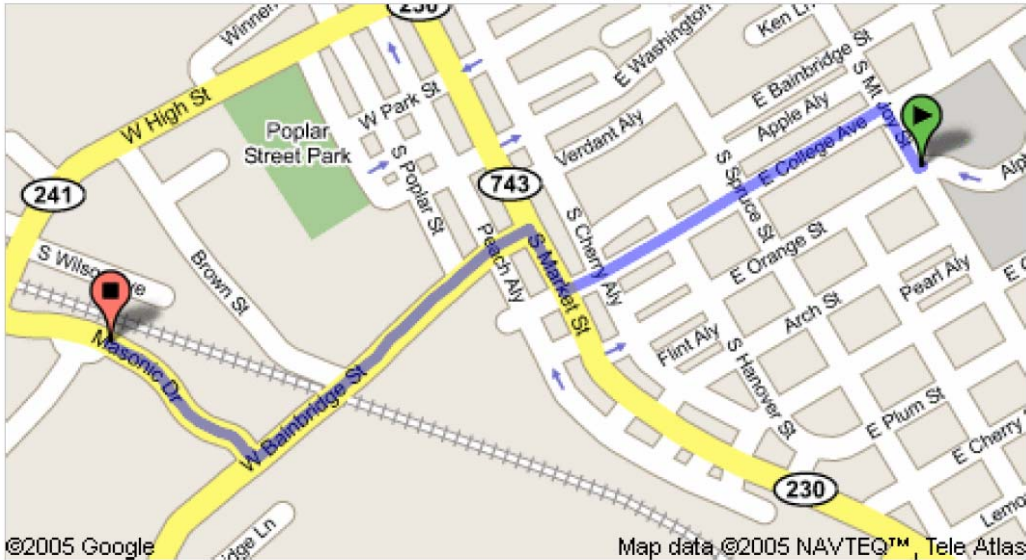
Please provide:

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.



Start address: **1 Alpha Dr**
Elizabethtown, PA 17022
End address: **1 Masonic Dr**
Elizabethtown, PA 17022
Distance: **1.1 mi (about 2 mins)**



1. Head west from Alpha Dr - go 24 ft
2. Turn right at S Mt Joy St - go 0.1 mi
3. Turn left at E College Ave - go 0.4 mi
4. Turn right at S Market St - go 0.1 mi
5. Turn left at W Bainbridge St - go 0.4 mi
6. Turn right at Masonic Dr - go 0.2 mi

These directions are for planning purposes only. You may find that construction projects, traffic, or other events may cause road conditions to differ from the map results.

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
December 14, 2005	Appalachian Brewing Company – Harrisburg	Terry Townsend, ASHRAE President-Elect will discuss the Future of ASHRAE Past Presidents Night
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
February 24, 2006 Professional Development Seminar	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
April 12, 2006	Appalachian Brewing Company – Harrisburg	Penn State AE Student Project Presentations Student Night
April 28, 2006 Professional Development Seminar		"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	Senator's or Barnstormer's Ballgame - TBD	Family Night
July 2006	ASHRAE Golf Outing	Heritage Hills Golf Course York, PA

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

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



Central PA Chapter CRC AWARDS:

PAOE

History & RP ribbons for level 3 performance (PAR)

Resource Promotion

Full Circle
Silver level contribution award
Goalbuster performance

ASHRAE Research Plan Provides Guide for a Sustainable Future

ATLANTA – Providing navigation for a sustainable future is the goal of a new research strategic plan developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

The plan outlines ASHRAE's research goals for the next five years. It centers on sustainability, which is defined as "the concept of maximizing the effectiveness of resource use while minimizing the impact of that use on the environment."

"Research and technology are the foundation of ASHRAE on which everything else is built," said John Mitchell, Ph.D., P.E., chair of the Research Advisory Panel that developed the plan. "With issues related to energy conservation, refrigeration and indoor air quality facing our industry, our foundation must remain strong."

The plan contains goals in five targeted areas. These include:

Energy and Resources

- Provide guidance on techniques to working toward achieving net zero-energy use by 2015, meaning buildings that consume equal or less energy than they produce on an annual basis.
- Produce by 2015 new residential and light commercial buildings that have 70 percent less energy use than buildings built at the turn of the millennium according to ASHRAE Standard 90.2, Energy-Efficient Design of Low-Rise Residential Buildings.
- Optimize and make consistent ASHRAE Standards 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, 62.1, Ventilation for Acceptable Indoor Air Quality, and 55, Thermal Environmental Conditions for Human Occupancy, to achieve measured and verified high system energy efficiency with high indoor environmental quality (IEQ) for indoor built environments.
Indoor Environmental Quality
- Make improvements in occupant health and comfort that can yield a 20 percent increase in productivity by 2015.
- Provide an optimal indoor environment for buildings, vehicles and facilities with respect to comfort, productivity, health and safety.
- Provide better understanding of how contagious viruses are transmitted in an indoor environment and develop remediation techniques and equipment to minimize exposure.

Tools and Applications

- Develop more effective tools that will improve the productivity of the design process by 25 percent by 2015.
- Develop dual path standards where paths are prescriptive based and performance based.
- Develop a measurement-based rating system to establish the environmental performance of a building and its system.
- Provide design guidance for buildings and systems to address the past and expected change in climatic conditions.
Equipment, Components and Materials
- Establish techniques to improve the energy efficiency and reliability of heating, ventilating, cooling and refrigeration system components.
- Improve performance and reliability and minimize the environmental impacts of working fluids and materials.
- Advance ASHRAE's role in the safety and security of food distribution.
- Develop techniques that reduce the installed energy use of HVAC&R system auxiliary equipment by 50 percent by 2015.
Education and Outreach
- Make the results of ASHRAE sponsored and cooperative research available to the technical community.
- Ensure that ASHRAE research has an international impact.

To view the plan or for more information on ASHRAE's research program, visit <http://www.ashrae.org/research>.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

Announcements

<i>Promotions</i>
<i>New Employees</i>
<i>New Members/Transferred Memberships</i>
<i>Weddings/Births/Deaths</i>
<i>Anniversaries</i>
<i>Misc.</i>

*Put it in the Pennant -- Send your announcements to
eric.zanolini@mail.ashrae.org*