



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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Happy Holidays,

It was great to see all of you twice last month for our monthly meeting and professional development seminar. Our Fall PDS was hosted by Dr. David Goldberg of the University of Illinois who put on an excellent presentation on Life and Leadership skills for Engineers. We want to thank Dr. Goldberg for his time and knowledge. If you did not attend the event then you missed one of the top development seminars we have had to date.

The meeting this month will be at the “crowd favorite” Appalachian Brewing Company. We will be honoring our past Presidents and also will be honored by our societies President Elect, Mr. Terry Townsend. He will be discussing the future of ASHRAE and this will be a great opportunity for all of you to express your views to our future leader.

Please also review our upcoming 2006 events listed on the following pages.

After much anticipation we are now distributing the 2005/2006 Central PA Manufacturers directory. These are in the mail now to all companies that listed and to all of our local members. If you want to purchase a directory, please contact any of our officers for assistance.

We wish all of you and your families a wonderful and safe holiday season and look forward to seeing all of you on December 14th.

Respectfully,

Glenn DiEsposti
President
Central PA ASHRAE

Inside this Issue

[December 2005 Meeting Agenda](#)
[Schedule of Upcoming Events](#)
[Bulletin Board](#)
[Member Announcements](#)

Meeting Agenda

Wednesday, December 14, 2005

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

Topic: ASHRAE - Roadmap for the future

"When You Drink the Water, Remember the Spring"

Everyone in the HVAC&R industry uses ASHRAE's technology daily. Our heritage provided ASHRAE with the status of industry leadership in the past. Our current activities and strategic plans provide a roadmap for the future. My presentation will provide a description of the "problems" our industry is faced with and the approaches that ASHRAE will be implementing this year and in the near future to resolve these critical areas of concern. With the growing concerns nationally and internationally over energy consumption, IAQ and comfort in the built-environment, ASHRAE is once again positioned to provide the needed global leadership for the HVAC&R industry.



**Terry Townsend, P.E., Fellow ASHRAE
2005-06, President-Elect**

Terry E. Townsend, P.E., Fellow ASHRAE, is president, Townsend Engineering Inc., Chattanooga, Tennessee, and Panama City, Florida.

As the Society's president-elect, Mr. Townsend is a member of the Board of Directors and the Executive Committee and chairs the President-Elect Advisory Committee, the Advocacy Committee and Members Council.

He serves on the ASHRAE/ARI Joint Expo Policy Committee, the ad hoc committee on ASHRAE Headquarters Building Renovation, and committees overseeing ASHRAE's *Advanced Energy Design Guides for Small Office Buildings* and the environmental tobacco smoke design guide.

He is the ASHRAE representative on the ASHRAE/U.S. Green Building Council (USGBC) Steering Committee, the Sustainability Summit of Professionals, the American Society of Healthcare Engineering (ASHE) Planning, Design and Construction Task Group and the EPA/ASHRAE/ASHE/USGBC Healthcare Summit. He is ASHRAE liaison to both ASHE and the National Environmental Balancing Bureau.

Mr. Townsend has served on the Board as treasurer, vice president and Region VII director and regional chair. Past service includes chair of the Finance Committee, Publishing and Education Council, Technology Council, the Journal Advertising Sales Committee, the Research Journal Policy Group, the Technical, Energy and Government Activities (TEGA) Committee and the Technical Activities Committee.

He is past chair of TC 2.8, Building Environmental Impacts and Sustainability, and is a member of seven technical committees.

He held all offices in the Tennessee Valley Chapter.

He is the recipient of the Exceptional Service Award, the Distinguished Service Award, a Region VII Technology Award, a Regional Award of Merit and a Chapter Report Award.

He was awarded a bachelor of science in 1971 and a master of science in mechanical engineering in 1973 from Tennessee Technological University.

He has two daughters, Tiffany Elaine Townsend and Tara Elizabeth Townsend Hadden, and wife, Leatha Davis Townsend.

Appalachian Brewing Company
50 North Cameron Street
Harrisburg, PA. 17101
Phone # 717-221-1080

Reservations:

Deadline: Monday December 12th 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.

Directions: From Harrisburg:

83 South Take exit #43 toward
2ND ST/STATE CAPITOL
Turn right on PAXTON ST
Turn left on CAMERON ST -
Arrive at 50 N CAMERON ST,
HARRISBURG, on the left

From Lancaster:

283 West to 83 South Take exit #43
toward 2ND ST/STATE CAPITOL
Turn right on PAXTON ST
Turn left on CAMERON ST -Arrive at 50
N CAMERON ST, HARRISBURG, on
the left

From York:

83 North Take exit #43 toward
2ND ST/STATE CAPITOL
Turn right on PAXTON ST
Turn left on CAMERON ST -
Arrive at 50 N CAMERON ST,
HARRISBURG, on the left

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		- 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

Planning on taking the Fundamentals of Engineering or Professional Engineering Exam in April 2006?

Penn State Harrisburg is offering the Fundamentals of Engineering and the Civil/Sanitary/Structural, Environmental and Electrical Professional Engineering Review **courses starting in the fall 2005**

They are taught by engineering faculty as well as professional engineers working in the field and prepare you to take the exam by practicing problem solutions, minimizing test anxiety and establishing built-in study time.

According to the National Council of Examiners for Engineering and Surveying, licensure is a sign of commitment to your profession. Obtaining a professional license enhances your potential for salary increases and promotions, leads to a wider range of career opportunities, and a higher level of respect and credibility among your engineering peers.

For additional information contact:

Brenda L. Firestone
Penn State Harrisburg
717-948-6538, blf3@psu.edu

or visit the website <http://www.hbg.psu.edu/ce/noncredit/profengrev.shtml>



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>
New Student Members Mr. Douglas J. Boswell – Penn State University Mr. Kuen W. Dung – Penn State University Ms. Josephune Lau – Penn State University Mr. David J. Melfi – Penn State University Mr. Yulien Wong – Penn State University
<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*