



The PENNANT

Newsletter of the
ASHRAE® Central Pennsylvania Chapter

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

2007-08 Officers & Chairs

President

Bob Miller

robert.miller@mail.ashrae.org

President-Elect

Mark Tome

mat@ba-inc.com

Vice President

Nick Romeo

n_romeo@jdbe.com

Treasurer

Todd Postlethwait

toddp@trianglerrefrigeration.com

Secretaries

Rebecca Thompson

rthompson@leachwallace.com

Mark Graybill

mgraybill@accu-aire.com

Board of Governors

Jason Richwine, Past President
jason.richwine@mail.ashrae.org

Rachel Voigtland

rachel.voigtland@mail.ashrae.org

Rebecca Thompson

Mark Graybill

Programs

Mark Tome

Education Committee

Thomas Long

thomas.long@mail.ashrae.org

Kirby Slear

kirby.slear@mail.ashrae.org

Carl Courtney

carl.courtney@mail.ashrae.org

Tom McKay

tom.mckay@mail.ashrae.org

Bill Blace

bill.blace@mail.ashrae.org

Research Promotion

Gary Debes

gary.debes@mail.ashrae.org

Refrigeration Committee

Greg Hlatky

greg@hassociates.com

Publicity and Webmaster

Gary Debes

Student Activities

Rachel Voigtland

Newsletter Editor

Mark Graybill

Student Branch Advisors

PA College of Technology

Thomas Ask

Thomas.ask@mail.ashrae.org

PSU Harrisburg

Michael Dideban

michael.dideban@mail.ashrae.org

PSU University Park

William Bahnfleth

william.bahnfleth@mail.ashrae.org

President's Message...



Dear Members,

Well, we are down to the last event of my term. Family night is May 16th at York's new baseball stadium. Come out and enjoy the food, friends, and drink. Bring your family!

I want to thank you all for the honor of being your president this year. Working through the chairs has been a pleasure and very rewarding professionally. I highly recommend to anyone that the additional effort is well worth the return!

Finally, I would like to thank all the volunteers, officers, governors, and advisors that have helped make this year successful. It could not have been done without you. We had more volunteers this year than any year that I have been involved with the chapter. My advice to these great professionals is to keep involved and keep recruiting. I really believe that our chapter will be a powerhouse very soon.

Thanks!

Bob Miller

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ASHRAE Family Night

Friday May 16th

Gates open at 5:40 PM

Game Starts at 7:05 PM

Buffet 6:00PM –8:00PM

Sovereign Bank Stadium 5 Brooks Robinson Way York, PA

Tickets include a buffet dinner - Hamburgers, Hot Dogs, Pulled BBQ Chicken, Baked Beans, Deli Salad, Corn on the Cob, Brownies Cookies, and Soft Drinks.!

FIREWORKS!!

RSVP: email robert.miller@mail.ashrae.org with names and ages of those planning to attend.

RSVP is due by May 9th

Tickets for those who RSVP will be at Will Call

Payment for tickets must be made paid for at the game.

Ticket Prices:

Adults (13+) \$30

Children (2-12) \$15

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 16 – York Revoution	Family Night York Revolution Baseball Game	
July 25 – Heritage Hills Golf Course	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 April 2008

Douglas Ryan Galloway – Associate
d_galloway@jdbe.com

Nevin W. Wagner – Member
nevwagner@earthlink.net

The Nominating Committee has announced the following nominees for officer positions in the 2008-09 chapter year.

President Elect – Todd Postlethwait
Vice President – Nick Romeo
Treasurer – Mark Graybill
Governor – Becky Thompson
Governor – Nate Potteiger
Governor – Rachel Voigtland
Governor – Brent Adams

A vote will be taken via email in the near future for approval of these nominees.

Bob Miller will have a position on the board as the immediate past president.
Mark Tome will be moving into the president's position.

The Chapter has for sale copies of **ASHRAE Standard 90.1-2004** Energy Standard for Buildings and the User's Manual and CD for this standard. A limited number of copies are available at the special seminar rate of \$80 for the two books. If purchased directly from ASHRAE the member cost would be \$162 and non-member cost \$203. If you are interested in purchasing the Standard and User's Manual, please contact Tom Long at Thomas.long@mail.ashrae.org or at (717) 763-7212 x2997.

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.*



2008 ASHRAE GOLF EVENT



Central PA Chapter William C. McClain and Thomas E. Deardorf Memorial Golf Outing for ASHRAE Research

Where:
Heritage Hills Golf Course
2700 Mt Rose Ave.
York, PA 17402

When:
Friday July 25, 2008



Schedule

11:30-1:00PM Registration
1:00 PM Shotgun start
6:00 PM Dinner and Awards

Contests

Longest Drive
Closest to the pin
Longest putt
Shortest drive
50/50 Raffle

Cost

\$120 Golf and Dinner/per player
\$ 25 Dinner only/person
\$100 Hole Sponsor/Per hole

Register forms are online at:

www.hhgr.com

then go to upcoming events link/Golf/ASHRAE

Registration forms have sign up instructions
Registrations are limited to the first 128 golfers by July 16th
and remember your corporate giveaways for our prize table

**2008 CENTRAL PENN ASHRAE GOLF OUTING
FRIDAY JULY 25th , 2008**



Heritage Hills Golf Resort & Conference Center

2700 Mount Rose Avenue, York, PA 17402
(717) 755-0123 or (877) STAY-PLAY

REGISTRATION 11:30am-12:45pm

SHOTGUN 1PM

DINNER 6PM

Format: Individual – Best Ball

COSTS:

Golf & Dinner: \$120
Dinner Only: \$25
Hole Sponsorship: \$100

*Payment **MUST** be made in advance by Friday July 16th, 2008 by Credit Card or Check*
Contact: Joe Clark (717) 755-0123 ext. 430 or joe.clark@hhgr.com
Make checks Payable to Heritage Hills Golf Resort
Fax your registration form to: (717) 840-2647

PLEASE SUBMIT REGISTRATION FORM:

Name of Players:

Please Check which applies:

Golf & Dinner \$120
 Dinner Only \$25
 Hole Sponsor \$100

TOTAL AMOUNT PAID

Please check which applies:

Check **Credit Card**

Credit Card Number

3 digit #

Exp. Date

Name on Credit Card

Primary Contact Information / Team Captain / Name of Business / Address/ Number

EMAIL: _____

**ASHRAE 2008
REGION III CRC
Harrisburg, PA
Event Schedule**

Thursday, August 14

Registration	7:30 AM - 9:00 PM
First Technical Session	8:30 AM - 12:00 PM
Technical Session Lunch	12:00 PM - 1:00 PM
Second Technical Session	1:30 PM - 5:00 PM
Hospitality Suite	5:00 PM - 11:00 PM
Caucus & Executive Session	7:30 PM - 10:00 PM
RVC's Review CRC Reports	8:00 PM - 9:00 PM

Friday, August 15

Registration	7:30 AM - 5:30 PM
Hospitality Suite	9:00 AM - 5:00 PM
First Session Business Meeting	8:00 AM - 12:00 PM
Family Activities	9:30 AM - 3:00 PM
Presidential Luncheon	12:10 PM - 2:00 PM
Second Session Business Meeting	2:10 PM - 5:00 PM
Welcome Reception	6:00 PM - 9:00 PM
Hospitality Suite	9:00 PM - 11:00 PM

Saturday, August 16

Caucus Meeting	6:30 AM - 7:30 AM
Hospitality Suite	9:00 AM - 4:00 PM
Registration	7:30 AM - 12:00 PM
Leadership Workshop Time Management Effective Presentations	8:00 AM - 10:15 AM
Family Activities	9:00 AM - 4:00 PM
Chapter Workshops Historian Secretary Newsletter/Publicity/Website Chapter Finance Leadership	10:30 AM - 11:45 AM
Awards Luncheon	12:00 PM - 2:15 PM
Grassroots Committee Workshops Student Activities Membership CTTC	2:15 PM - 5:00 PM

Visiting Society Officers & Staff

Andrew Persily
Julian deBullet
TBD

Region III Officers 2008-2009

DRC: Dan Pettway
ARC: Kevin Fallin
Treasurer: Charlie Henck

Regional Vice-Chairs:

Research Promotion Dan Wyrick
CTTC Nancy Mitchell-Veeck
Student Activities Paul Petrilli
Membership Prom Roger Jones
Historian Carl Courtney

Nominating:

Member Gary Debes
Alternate Charlie Henck

ASHRAE Vice Presidents:

Tom Watson
Andy Persily

ASHRAE Directors at Large:

Bill Bahnfleth

Central Pennsylvania

Chapter:

President: Mark Tome
President Elect: Todd Postelthwait
Vice President: Nick Romeo

CRC Committee:

General Chairman: Gary Debes
Vice Chairman: Dan Wyrick

Committee:

Bob Miller
Carl Courtney
Rachel Voigtland
Becky Thompson

Technical Committee:

Tom Long
Kirby Slear
Carl Courtney
Tom McKay



**The
Central
Pennsylvania
Chapter**

**Welcomes you and your
family to
ASHRAE CRC - 2008
August 14, 15, & 16**



Region III Chapters

Anthracite
Baltimore
Central Pennsylvania
Delaware
Hampton Roads
Johnstown
Lehigh Valley
National Capital
Philadelphia
Pittsburgh
Richmond
Roanoke

The Hilton Harrisburg
One North Second Street
Harrisburg, PA 17101
717-233-6000

TECHNICAL SESSION TOPICS

8:30AM - Responsible Use of Refrigerants

10:00AM - High Performance HVAC Designs Beyond Energy Standards

1:30PM - eQuest Energy Software and Application to GSHP Systems

FAMILY ACTIVITIES

- Trip to Hershey Park-
- Trip to outlets in Lancaster
- Trip to Pennsylvania Dutch country
- Trip to the Gettysburg Battlefields
- A Lancaster Barnstormers ballgame

WELCOME RECEPTION FRIDAY August 15, 2008 6:30 PM to 9:30 PM National Civil War Museum

Enjoy an evening with old friends and new acquaintances in a museum dedicated to the conflict between the North and South. The exhibits are open for two hours while we are there from 7:30 to 9:30. There will be Hors d'oeuvres and a cash bar for the first two hours of the party.

The museum is a short ride from the Harrisburg Hilton.

Dress is casual.

Directions to CRC 2008 Hotel

From the South

Take I-95 North to I-476 North. Follow I-476 to the Pennsylvania Turnpike I-76 West toward Harrisburg. Take the Harrisburg/Hershey Exit.

Follow 283 North (stay straight from the turnpike exit) to I-83 North.

From Interstate 83, take Harrisburg exit 43 (Second Street - Capitol Complex) north on Second Street to Market Street. Hotel is on corner of 2nd St and Market St.

From the North

From Interstate 81, take exit 66 (Front Street - South). Follow Front Street approximately 5.5 miles to Market Street. Take a left on Market Street. Hotel is on next corner at 2nd St and Market St.

From the West

Take the Pennsylvania Turnpike I-76 East toward Harrisburg. Take the Harrisburg/Hershey Exit.

Follow 283 North (stay straight from the turnpike exit) to I-83 North.

From Interstate 83, take Harrisburg exit 43 (Second Street - Capitol Complex) north on Second Street to Market Street. Hotel is on corner of 2nd St and Market St.

HOTEL ARRANGEMENTS: A block of rooms has been reserved at the Hilton for the CRC at a rate of \$139 per night single/double occupancy, (all rates plus taxes) to guarantee this rate you must make your reservations online at the Region III Website: http://region3.ashraeregions.org/reg_3cd.htm And follow the hotel registration link.

2008 Region III Registration Form

Name: _____
Spouse/Companion: _____
Address: _____
ASHRAE Chapter: _____
Member ___ Student ___ Delegate/Alt. ___
ASHRAE Position(s) currently held: _____

E-MAIL: _____

Make checks payable to: ASHRAE CRC2008,
Mail to: Robert Miller, 72 South Heintzelman
Street, Manheim, PA 17545
Phone: (717) 664-0106

	Members	Students
CRC Registration	\$50 = \$__	\$20=\$__
	Members/ Guest	Students
President Luncheon	\$30=\$__	\$20=\$__
Welcome Reception	\$40 =\$__	\$30=____
Children 10 and under	\$10=\$__	
Awards Luncheon	\$30 =\$__	\$20=\$__
Technical Sessions Full Day Lunch included	\$150=____	\$50 = __
Technical Sessions ½ Day Lunch included	\$80=____	\$15=____
Total Amount Enclosed	\$____	\$____

CRC Registration Fee must be included to attend any functions or meetings. Technical sessions do not require CRC Registration.

Technical Session Presentations Session 1

Responsible Use of Refrigerants

Time: 8:30 – 10:00

By: Julian R. deBuliet

This presentation will provide a look at how the industry chooses refrigerant/compressor combinations. We will discuss the practical application of Standards 15, 147 and 34, including suggestions on how to design new or retrofit existing Mechanical Rooms to meet responsible guidelines. Emphasis is placed on the safety of the persons and property on or near the premises.

The presentation also discusses the practices and procedures that will reduce emissions into the atmosphere of halogenated refrigerants used in HVAC systems. This will include an update on the most recent refrigerant phase-out schedules and an informed guess of where we will head in the future.

Finally we will discuss the potential use of "Natural" refrigerants that may impact climate change

High Performance HVAC Designs Beyond Energy Standards

Time: 10:15 – 12:00

By: Julian R. deBuliet

This presentation will explore the different system choices that must be made to ensure an efficient design.

An in-depth look at large chilled water choice will be discussed and "Sustainable" concepts will be presented. We will compare different measurement tools along with some examples of energy analyses, to see how the design can comply with "High Performance" design concepts. An exploration of choices to meet and exceed ASHRAE 90.1 and LEED, with relevant life-cycle calculations, will complete the seminar.

LUNCH

Technical Session Presentations Session 2

Application of the Enhanced eQUEST Program in the GSHP System Design

Time: 1:30 – 5:00

By: Dr. Xiaobing Liu

Integrated with an advanced borehole field heat transfer model, heat pump library, and ground/grout thermal properties database, the widely accepted building energy analysis program - eQUEST/DOE-2.2 becomes a powerful tool in the design and energy analysis of ground source heat pump systems. In this presentation, the newly enhanced GSHP simulation features of eQUEST/DOE-2.2 will be presented and the significance of this tool in breaking through the barrier that prevents widely application of GSHP technology will be discussed. Through examples from real projects, the revolutionary integrated GSHP design process facilitated with eQUEST/DOE-2.2 will be demonstrate and the advantages of this integrated design process over traditional practices in GSHP design will be revealed.

To Register visit the Region3 website at:

www.region3.ashraeregions.org

then visit the CRC2008 Link.



The Central Pennsylvania Chapter

**Welcomes you and your
family to
ASHRAE CRC – 2008
Technical Session
August 14, 2008**



Region III Chapters

Anthracite
Baltimore
Central Pennsylvania
Delaware
Hampton Roads
Johnstown
Lehigh Valley
National Capital
Philadelphia
Pittsburgh
Richmond
Roanoke

Speaker Biographies

Julian R. deBullet

McQuay International

Julian R. de Bullet has over 30 years experience in the HVAC industry. His career has concentrated on the applied use of Chilled Water and All-Air systems as a manager of applied equipment sales and as a manager of a service/performance contracting operation.

He is the Director of Industry Relations for McQuay International, based in Washington D.C. He is responsible for assisting McQuay customers and McQuay sales representatives in HVAC&R system design and specification. He is a member of numerous industry associations concentrating on energy efficiency and responsible refrigerant use.

As ASHRAE Vice President (2001/2003), he served on the Board of Directors and the Executive Committee and was Chair of Member Council and Publishing Council. He is Past President of the National Capital Chapter and was Director and Regional Chair for ASHRAE Region III. He is an ASHRAE Distinguished Lecturer. He chaired the Professional Development Committee and is a member of the Programs and Education Council and the Society Advocacy Committee.

He is a Graduate of the London University system in England, where he obtained an Electrical Engineering degree and a Diploma in Marketing.

Dr. Xiaobing Liu

ClimateMaster

Dr. Xiaobing Liu is Systems Engineering Manager of ClimateMaster, Inc. in Oklahoma City, Oklahoma. He received his Ph.D. degree in Mechanical Engineering from Oklahoma State University in 2005. During his Ph.D. program at OSU, he was extensively involved in a multi-million dollar research project funded by Federal Highway Administration, which focused on applying geothermal energy in the practice of snow melting. He had developed a simulation program for snow melting systems that use various heat sources including ground source heat pump and authored several technical papers on the modeling and design of snow melting systems. Dr. Liu also has several years practical experience working in large consulting engineering firms in China, designing and supervising the commissioning of HVAC systems. He is a member of ASHRAE technical committee 6.8 (Geothermal Energy Utilization) and 9.4 (Applied Heat Pump/Heat Recovery Systems). He works extensively with researchers and engineers worldwide to improve the design of ground source heat pump systems.