

Lehigh Valley Insights

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MEETING NOTICE

WWW.LVASHRAE.ORG

Wednesday, March 30, 2011

COOL THERMAL ENERGY STORAGE IN THE ERA OF SUSTAINABILITY

WILLIAM P. BAHNFLETH, PhD, PE
Penn State University
ASHRAE DISTINGUISHED LECTURER

MEMBERSHIP PROMOTION NIGHT
at

Mango's Coastal Cuisine
3750 Hamilton Blvd., Allentown, PA 18103
(Route 222 North)

4:30 – 5:30 p.m. **Board of Governors Meeting**
(Chapter Member are welcome to attend)

5:30 – 6:15 p.m. **Pre-Dinner Tech Session**
Topic: ASHRAE Building Energy Labeling Program
Speaker: William P. Bahnfleth, PhD., PE

6:15 – 6:45 p.m. **Social ½ Hour (Cash Bar)**

6:45 – 7:30 p.m. **Dinner**

7:30 – 8:30 p.m. **Dinner Program**
Topic: Cool Thermal Energy Storage in the ERA of Sustainability
Speaker: William P. Bahnfleth PhD., PE

Reservations: Frank Paretti
Email: paretti.frank@gmail.com
Students \$15.00
Members & Guests \$30.00

Please make your reservations by Noon on Monday, March 28, 2011.

Members can utilize Pay Pal online payment option on our website
(WWW.LVASHRAE.COM) for your RSVP.

President's Message

Ladies and Gentlemen,

You will not want to miss this month's meeting!! William Bahnfleth, Penn State University will be the presenter. He will review the ASHRAE Building Energy Labeling Program as part of the tech session, and discuss Cool Thermal Energy Storage in the Era of Sustainability as the after dinner presentation. 2 PDH ASHRAE certificate will be awarded to all in attendance. Look forward to seeing you there!!

ASHRAE 90.1-2010 user's manual is now available for purchase thru ASHRAE. The latest edition of the manual is especially valuable because it specifically identifies what changes have taken place since the 2007 edition.

Thanks!

Donovan Denlinger
President
Lehigh Valley Chapter – ASHRAE

March 30th Meeting

Pre-Dinner talk: ASHRAE Building Energy Labeling Program:

Whether voluntary or mandatory, the rating of the energy use and indoor environmental quality of buildings is a growing trend worldwide. In 2009, ASHRAE introduced its own "building Energy Quotient" (bEQ) labeling program for new and existing buildings and is now in the process of piloting it in a number of locations around the U.S. It is an ambitious program comprising not only the development of an energy use performance scale, but also tools and procedures for performing ratings and certification of the qualified energy modelers and building assessors needed to implement it. This presentation will provide an overview of the bEQ program, described its relationship to other building certification programs in the US and elsewhere, identify the potential benefits of certification, and summarize the current state of implementation of the program and plans for the future.

After Dinner Talk: Cool thermal Energy Storage in the Era of Sustainability:

During the 1980's and 1990's, cool thermal energy storage (TES) was a key technology in US utility demand-side management (DSM) programs. Interest in TES declined steeply as incentives disappeared during utility deregulation. Today, the focus of design has shifted to energy cost savings toward sustainability and it is reasonable to ask whether TES has anything to offer in this environment. This presentation will review the essentials of cool thermal energy storage and examine its relevance to sustainable design. Specific issues examined will include the impact of TES on site and source energy consumption, the economic case for TES with the incentives of the DSM era and the role of TES in achieving net zero energy buildings and communities.

About the Speaker:

William P. Bahnfleth is Professor and Director of the Indoor Environment Center in the Department of Architectural Engineering at the Pennsylvania State University (Penn State) in University Park, PA, where he has been employed since 1994. Previously, he was a Senior Consultant for ZBA, Inc. in Cincinnati, OH and a Principal Investigator at the U.S. Army Construction Engineering Research laboratory in Champaign, IL. He holds BS, MS and PhD degrees in Mechanical Engineering from the University of Illinois, where he also earned an undergraduate degree in music (pipe organ performance) and is a registered professional engineer.

At Penn State, Dr. Bahnfleth teaches undergraduate courses in HVAC fundamentals and controls and graduate courses in chilled water systems, hot water and steam systems, and indoor air quality. His research interests cover a wide variety of indoor environmental control topics, including chilled water pumping systems, stratified thermal energy storage, protection of building occupants from indoor bio-aerosol releases, ultraviolet germicidal irradiation systems, and others. He is the author or co-author of more than 100 technical papers and 11 books and book chapters. He consults regularly on the design of chilled water thermal energy storage systems and has been involved in more than 20 projects world-wide.

Dr. Bahnfleth is a member of the American Society of Mechanical Engineers (ASME), Sigma Xi, American Society for Engineering Education (ASEE), Society of Building Science Educators (SBSE), and a Fellow of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE). He has served ASHRAE in a variety of capacities, including Student Branch Advisor, Chapter Governor, Technical Committee and Standing Committee Chair, and as a Director-at-Large and is currently Society Vice President. He is the recipient of a 1st place ASHRAE Technology Award, Transaction Paper Award, and Distinguished Service and Exceptional Service Awards.

Board of Governors Meeting **February 23, 2011**

Officers Present:

Donovan Denlinger – President
Ahmad Mahmud – Vice President
Gabe Badesso – Treasurer
Nicholas Kaintz – Secretary

Board of Governors Present

Ethan Fick
Stuart Heisey

Committee Chairs Present:

Matt Matsinko – Membership Promotion
William Trach – Historian
Frank Paretti – RP

Attendee:

Sirajuddin Shaikh

Old Business:

Officer/Chair Reports:

Membership Promotion

Matt Matsinko distributed lists of delinquent and canceled members. Officers and chair members divided up the list and each will be responsible for contacting listed people.

Research Promotion

Frank Paretti distributed a list of past donors to ASHREA research. Officers and chair members divided up the list and each will be responsible for contacting listed people.

New Business:

Chapter Meetings:

March 30th – William Bahnfleth speaker will be the speaker. The main session topic will be “Cool Thermal Energy Storage in the Era of Sustainability” and the tech session topic will be “The ASHRAE Building Energy Labeling Program”.

April 21st – Webcast lunch at the Copperhead Grill.

May 25th – Gabe Badesso confirmed that Ray Forsthoefel will contact Lehigh University to arrange a tour of the STEPS building.

June 3rd – Golf Outing. The contract has been signed with Green Pond Country Club.

Sponsorship/Advertisement:

Donovan Denlinger has been approached by a firm asking if LV ASHRAE would promote their services. A discussion ensued in regard to the ethics of allowing advertisements in the newsletter and what constituted

acceptable sponsorship. Donovan suggested hole sponsorships at the golf outing and Frank Paretti suggested sponsoring a drink cart. The discussion was tabled until the next meeting.

Membership Promotion

Our March 30th meeting is our 2nd Membership Promotion Night of the 2010-2011 year. As always, any member who brings along a guest, our local chapter will pay for his dinner. This is a perfect opportunity to bring along a co-worker so they can see the benefits of our local meetings. Like staying current with new developments in our industry, networking, and having fun. As always, I have “Quick Version” forms to instruct you how to join ASHRAE online or how to re-new your membership on line. I also have forms that explain the different grades and types of membership. When you pay your National dues don’t forget to pay our local chapter dues of \$25 at the same time. So please try to make it out to this month’s meeting and bring along a guest for a free meal. Thanks, and see you at the meeting.

Matt Matsinko. P.E.
Membership Promotion Chairman

Mr. Michael R. Schultz
Mr. Gabriel N Badesso
JOF Mechanical
HB Engineers
Mr. Raymond J Forsthoefel
HT Lyons Incorporated
Metz Incorporated
Victaulic Company Of America - Easton
Landmark Service Company, LLLC
Strunk Albert Engineering
Chase & Associates
Travid Sales Associates, Inc.

Upcoming in June will be our annual golf outing. Research Promotion and the Board of Governors hopes to see all of you at Green Pond this year to help support ASHRAE Research projects right here in Region III.

Frank Paretti
Research Promotion Chairman
Hofmeister Engineering, PC
paretti.frank@gmail.com

Research Promotion

ASHRAE Research Promotion would like to thank these 2009-2010 donors.

Mr. Frederick A Carr
Mr. David C Derkits
Mr. Richard S Tayvinsky
Mr. Jim Blanski
Mr. John R Marple
Snyder Hoffman Associates
Mr. John Simpson
Mr. Joe F Ketterbaugh
Mr. Robert A Swoyer, PE
Mr. Donovan L Denlinger
Entech Engineering Inc
Columbia Heating Supply
Mr. Donald F Chase
Mr. Stuart J Heisey
Mr. Frank Paretti, Jr

ASHRAE Webcast

Ground Source Heat Pump Systems
April 21st, 2011
12:00 PM to 1:00 PM - Lunch
1:00 PM to 4:00 PM - Webcast
Location: Copperhead Grille
1731 Airport Road
Allentown PA, 18103

As per attached Flyer

ASHRAE GOLF OUTING

Friday, June 3, 2011
TO BENEFIT ASHRAE RESEARCH

PLACE: GREEN POND COUNTRY CLUB, BETHLEHEM, PA.
TIME: SHOTGUN START AT 11:00 A.M. DINNER TO FOLLOW
FORMAT: 4-MAN SCRAMBLE
COST (per person): \$90.00 GOLF & DINNER
\$45.00 DINNER ONLY

GOLF INCLUDES GREENS FEE, CART, REFRESHMENTS (BEER & SODA), A HOT DOG AND A DRINK AFTER 9 HOLES AND PRIZES.

Hole Sponsorship will be accepted. Look for our April Newsletter hole sponsor details.

COME ENJOY A FUN DAY WITH US!
RESERVATIONS MUST BE MADE BY MAY 13, 2011

CONTACT: Mike Schultz at 484-223-1730 or email mrschultz@trane.com to sign up.

- NOTES:**
- Contact above if you can donate a golf prize.
 - Payment must be received by **May 13**, at:
Trane
5925 Tilghman St. W.
Suite 70
Allentown, PA 18104
 - **Make checks payable to:** ASHRAE – Lehigh Valley Chapter
 - Space is limited and on a first-come basis
 - **Payment must be received prior to tournament**



**LEHIGH VALLEY CHAPTER OF ASHRAE
2010-2011 MEETING SCHEDULE**

MONTH	TECHNICAL/DINNER PROGRAM	EVENT	PROGRAM CHAIR
Sept 29 th	Convergence of Telecommunications and Data Centers		Donovan Denlinger
Oct. 27 th	Cost Effective IAQ through Air Monitoring	Membership Promotion #1	Paul Kuhn
Nov. 17 th	Energy – Daylight Harvesting, Solar	Joint IFMA Meeting (AM Mtg)	Paul Kuhn
Dec.	No Meeting		
Jan 19 th	Engineering Modeling for LEED EAC #1		Ethan Fick
Feb. 23 rd	ASHRAE/USGBC 189.1 The Green Standard	Student Activity #1	Ahmad Mahmud
Mar. 30 th	ASHRAE Building Energy Labeling William Bahnfleth, PSU	Membership Promotion #2	Ethan Fick
Apr. 27 th	Modeling a Sustainable World	Research Promotion #1	
May 25 th	Tour -		
June 3 rd	Annual Golf Outing		