



Philadelphia Chapter

Quaker City CLIMATE

JOURNAL OF THE PHILADELPHIA CHAPTER OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS, INC.

Thursday,
February 5, 2009

Volume 44, No. 6
February 2009

It's Student Night

Dinner Meeting With SMCA

"Philadelphia's Green Initiative"

presented by

Mark Alan Hughes
Philadelphia's Sustainability Director

5:00 to 6:00 pm
Social Hour with a cash Bar

6:00 to 7:00pm
Dinner

6:30 to 7:30 pm
Presentation

\$8 Parking Available at Restaurant

FOR RESERVATIONS

**All attendees should register online
through Cvent.**

To register please visit our NEW web site at

<http://phila.ashraechapters.org/>

or visit the Cvent Event

<http://tinyurl.com/arhfvw>

LOCATION

Dave & Buster's
325 N Columbus Blvd # 19n
Philadelphia, PA 19106
(215) 413-1951

For more info and directions go to
<http://tinyurl.com/yqdq7a>

RESERVATION NOTICE

Reservations must be made
no later than 12:00 Noon
on Wednesday, February 4, 2009.

COST

Philadelphia Chapter Members with
online reservation and prepayment
\$30

ASHRAE Members who have not paid
Philadelphia Chapter dues with online res-
ervation and prepayment
\$35

Non-Members with
online reservation and prepayment
\$40

Young Engineers with online
reservation and prepayment
\$20

Students with online reservation
Free

Phone reservations
to 610-971-2169
without online registration
\$45

Walk up fees
(based on availability)
\$45

From Our President

I want to thank all the members who attended our January dinner meeting with Larry Spielvogel. The talk on threats and ways to analyze and respond to the threats was informative. Even after all questions we finished the evening by 7:30. The presentation is available on our website for those who missed it.

This month we also had a testing, adjusting & balancing (TAB) training seminar at Local 19 Training Hall on Delaware Avenue on a brisk Saturday morning. We had 33 registrations and the Local hosted ASHRAE with bagels and coffee in the morning and pizza and soda for lunch. Our thanks go out to the members of the Sheet-metal Workers Local for their efforts. Hopefully we can set up continuing seminars if there is interest.

We also had the Future Cities competition this past Saturday. This is part of Engineers Week activities in which middle school students are encouraged to become more involved and understanding science and engineering. Our chapter sponsors an award for Best Indoor Environment. The winners move onto regional and national competition.

Look for articles on both events in this newsletter.

We have the honor of hosting Mark Alan Hughes who is the City of Philadelphia Sustainability Director for our February dinner meeting. He will talk with our members about the efforts of the city to bring together all resources to focus on achieving green goals on city projects. This should be a rare insight and your chance to meet and ask questions of one of our regional leaders. The city has set a high bar for green construction and operation and Mark will tell us how the city plans to get there. This meeting is next week (The first Thursday in February) so please be on the lookout for your invitation or you can go to our website to sign up.

For those consultants and vendor firms who want to advertise in the Philadelphia Chapter Directory for 2009-2010 Hope will be sending out letters shortly. The directories are very popular and I understand they are often used beyond the year it was issued. It is an inexpensive way to get information about your firm into the hands of the people who will use your goods or services the most. A reminder here that there is a discount for advertising for corporate sponsors. Contact Hope if you also want to become a corporate sponsor.

We are also still looking for contributions to ASHRAE Research; your money goes to help improve the technology for a cleaner and more energy efficient environment for us and future generations.

Happy Ground Hog day!

Jeff Gilbeaux

Jeff Gilbeaux, PE
jeff@gilbeauxassociates.com
856-988-1890

February Speaker Biography



MARK ALAN HUGHES is a Distinguished Senior Fellow of the University of Pennsylvania (since 1999) and an opinion columnist at the Philadelphia Daily News (since 2001).

Hughes joined the standing faculty at Princeton's Woodrow Wilson School at the age of 25, teaching land use planning, public management, and antipoverty policy. He has also taught as a visiting professor at Harvard's Kennedy School and Swarthmore's Honors Program. Hughes has held non-resident senior fellow appointments at Brookings and the Urban Institute, served as a senior consultant to the Urban Poverty Program at The Ford Foundation, and served as the first Vice President for Policy Development at Public/Private Ventures in Philadelphia.

His early research on urban poverty played a prominent role in the scholarly and policy debates over the "underclass" during the late 1980s: William Julius Wilson cited Hughes as his "most thoughtful critic" in Wilson's seminal 1988 Godkin Lectures at Harvard. His argument that suburban job growth demands expanded job access for inner-city residents was twice cited by President Clinton in State of the Union Addresses in the mid-1990s. His research has appeared in the leading journals of several academic disciplines, including the Journal of Urban Economics, Political Science Quarterly, Economic Geography, Journal of the American Planning Association, and Urban Studies; and his work has been widely cited by journalists, including the New York Times, Wall Street Journal, Washington Post, and Governing. He has been supported by the Ford, Pew, WmPenn, MacArthur, Casey, and Rockefeller foundations. *magazine* named him one of the nation's five best local columnists in 2003. In 2006, Hughes entered the architecture degree program at Penn's School of Design, pursuing a lifelong interest in architecture's role in urban policy and practice; and in 2007, he served as policy director in Michael Nutter's successful primary campaign for Mayor of Philadelphia.

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As a policy developer, Hughes helped design and create (1) the \$15 million Bridges to Work demonstration for H.U.D., which led to the \$750 million Job Access and Reverse Commute federal transportation program; (2) the \$35 million Transitional Work Corporation, now the nation's largest publicly financed jobs program under welfare reform and model for a national program under consideration by Congress; (3) the Campaign for Working Families, which annually returns over \$15 million worth of public benefits to over 15,000 eligible households in Philadelphia; (4) the Revenue Acquisition Project, which identified over \$100 million in feasible funding opportunities for the City of Philadelphia; and a number of smaller projects, ranging from the creation of a loan fund to preserve Philadelphia's endangered sacred places to an assessment of the Philadelphia region's disaster preparedness. Hughes worked with the PA Dept of Conservation and Natural Resources to develop a strategic plan for deploying sustainability as a regional economic development strategy for the Laurel Highlands.

Hughes graduated from Swarthmore College in 1981 and received the Ph.D. in Regional Science from Penn in 1986, winning the discipline's international Dissertation Prize. He won the National Planning Award from the American Planning Association in 1992, the youngest recipient ever, for his academic writing on regional labor market mobility. The *Week* magazine named him one of the nation's five best local columnists in 2003. In 2006, Hughes entered the architecture degree program at Penn's School of Design, pursuing a lifelong interest in architecture's role in urban policy and practice; and in 2007, he served as policy director in Michael Nutter's successful primary campaign for Mayor of Philadelphia.

February Speaker Topic

Mr. Hughes will be discussing Philadelphia's Green Plan initiative

PHILADELPHIA CHAPTER ASHRAE 2008 - 2009 PROGRAMS

For reservations and updates, check <http://phila.ashraechapters.org/>

Date	Location	Dinner Topic	Theme	Joint Meeting
Thurs Feb 5	Dave & Buster's	Philadelphia's Green Initiative	Student Night	SMCA
Thurs Mar 12	Fisher's Tudor House	Air and Gas Filtration	Tabletop Vendor Show / Membership	
Thurs Apr 9	Urban Outfitters	ASHRAE Scholarships & YEA	Tour	
Thurs May 14	Dave & Buster's	ASHRAE IAQ Guide	Past Presidents & History	
Monday June 1	Northampton Valley CC	Golf Outing		
Thurs June 11	Temple University	2009-2010 Planning Meeting		

We need your attendance!

If we are below our guaranteed level for attendees at our meetings, our treasury could be negatively effected.

Our programs are designed around the membership's input and we all need to support these meetings to maintain a strong/informed association.

We hope to see you at our next meeting.

Please come out and support our Chapter!

Corporate Sponsors Take Note

Those with corporate sponsor tickets must still make reservations for our meetings through Cvent (see link on first page). Please note that those with sponsor tickets who do not make reservations are not guaranteed entrance until all reserved seating is filled. Those reservations with sponsor tickets must have them at the time of the dinner. If you don't have them, you will have to pay the walk up rate for dinner. We cannot make arrangement for delivery of sponsor tickets at a date after



If you're 35 years or under, stick around after the next ASHRAE meeting on February 5th for a YEA After Hour. The get together will also be at Dave and Busters. It's a great place to meet other young ASHRAE members. Hope to see you there!

What is 16-40-40?

Every ASHRAE Student Member Should Know

Simply put, it's the best way for ASHRAE student members to continue receiving the many member benefits of ASHRAE after finishing college.

If you're about to graduate, the 16-40-40 program is designed for you to transfer your student membership for another year for only \$16. The second year is \$40. And the third year is \$40.

Bottom line: You get 3 years of valuable membership and save up to \$274. Save time, save money and continue receiving the professional benefits that will strengthen the beginning of your career.

January Dinner Meeting

Reasoned Responses to Natural, Accidental and Intentional Threats



Miss the previous meeting?

You can see the presenter's powerpoint presentation on our new website at <http://phila.ashraechapters.org/>

2008-2009
Philadelphia Area Directory
of Associations, Consulting Firms
and Manufacturers' Representatives

On Sale Now -
Just \$23.00 each!

Send your check to:
Philadelphia Chapter ASHRAE
993 Old Eagle School Road
Suite 1019



WTCGP 6th Annual Global Business Conference

WTCGP 6th Annual Global Business Conference at Drexel University on Wednesday February 4, 2009. This year's Conference is on "SUSTAINABLE ENERGY: FROM GLOBAL EVOLUTION TO LOCAL EXECUTION". Please note Tony Bartolomeo, President of Pennoni & Associates and an IDEC Members, will be the Moderator at the Conference Panel Discussion "Embracing Energy Sustainability: Local Applications".

If you have any questions, please contact Emily Olson at eolson@wtcphila.org or ph 215 586 4247.

Advanced School Notice

The Philadelphia Chapter is considering to offer an Advanced School which would build on the material in the basic school. The major component of the advanced school would be a project where the basic school information would be applied to design a complete HVAC system for a building. The course would run from October through April and meet once per week. The prerequisite knowledge of the basic school by training or experience would be needed in order to take the school. The cost of the school would \$1000. Anyone interested in taking this school should contact Bob Finkboner at robert.finkboner@siemens.com

Chapter Technology Award Competition 2009

The purpose of the Technology Awards Program is to recognize members for innovative designs, communicate that technology to other members, and highlight achievements to other professionals.

The Chapter Technology Transfer Committee is asking for applications for the 2009 Chapter Level competition to be submitted by March 6, 2009. Awards for the Chapter Level competition will be given out during the May 14, 2009 Chapter Meeting for the following categories:

- Commercial Buildings, New and Existing
- Institutional Buildings, New and Existing
- Health Care Facilities, New and Existing
- Industrial Facilities or Processes, New and Existing
- Public Assembly Facilities, New and Existing
- Residential Buildings, New and Existing (Single Family and Multi-Family)
- Alternative or Renewable Energy Use

Entries will be judged on energy efficiency, indoor air quality and thermal comfort, innovation, operation and maintenance, cost effectiveness, environmental impact and quality of presentation.

The process for the ASHRAE Technology Awards starts right here at the Chapter level. Winners of the Chapter Competition will be sent to the Regional CTTC Chair for judging in the Regional Technology Award Competition. Regional winners will then be asked to submit a long form application for the Society Technology Award Competition. Society level awards will be given out at the Winter Meeting scheduled to be held January 23-27, 2010 in Orlando, Florida. Winners of the Society Competition will also be featured in the ASHRAE Journal.

For more information on the Technology Award Program, including application forms please visit the CTTC section of the chapter website at <http://phila.ashraechapters.org/cttc.htm>

James Piscopo, PE
CTTC Chair
jpiscopo@aeceng.net

Local 19 TAB Seminar

The Sheet Metal Workers' Local Union #19 hosted a special Testing, Adjusting, and Balancing seminar for members of the Philadelphia Chapter of ASHRAE on Saturday, January 17. On behalf of the chapter I would like to thank Local 19 Training Coordinator, Aldo Zambetti, and his staff for organizing the event. The day started off with breakfast and a tour of Local 19's training facility before moving into the TAB classroom where a lot of open discussion took place between attendees and TAB instructors, Fred Scafidi and Mary Coffey. Some of topics covered were:

- Coordination between the engineer, mechanical contractor, ATC contractor and TAB contractor
- A balancer's approach to constant volume and variable volume systems
- Calibration and operation of variable volume terminal units
- Inlet conditions for variable volume terminal units
- TAB specification do's and don'ts
- Locations of balancing dampers
- Automatic balancing valves

Throughout the day Brenden Finn of Local 19 also took small groups aside into the facilities biological safety cabinet classroom where he discussed types, functions, and uses of safety cabinets. Again thanks to everyone that came out, especially to the staff of Local 19, and please forward any feedback to Jim Piscopo.

Jim Piscopo, PE
CTTC Chair



FUTURE CITY COMPETITION

One outreach program of the National Engineers' Week is the Future City competition. Teams of middle school students simulate their vision of a city of a future, develop an essay and an abstract, build a tabletop model and make a 7-minute presentation in a regional competition. Each team consists of an engineer/mentor, a teacher and three students.

There were 24 middle-school entries in the 2009 Philadelphia regional competition, which was held January 24 at the Sheet Metal Workers Union Hall.

The regional competition winner advances to the national competition in Washington, DC during Engineers' Week in February. The ASHRAE Philadelphia Chapter is a bronze-level sponsor of the program and awards the Best Indoor Environment Award to the team which incorporates an innovative solution to controlling the indoor environment.

The intent of the program is to steer young students toward engineering by associating the profession with an enjoyable competition. The students also learn presentation, writing and team-building skills. The Governor Mifflin Middle School (Shillington, PA) won the Best Indoor Environment Award for the second year in a row. The team sited their city in an area of high Santa Ana winds in California, and were able to cool buildings by natural ventilation, and generate power through wind turbines. The city generated electricity by tidal power, hydroelectric generation and incorporated solar collectors on each building.

ASHRAE Fellow John Kampmeyer is the regional coordinator for the event. Chapter members Mark Maguire, Rick Piecara and Jeff Crozier evaluated teams and identified the ASHRAE Award winner.

The following chapter members were volunteers:

- Scott Davis and Brad Crowley: preliminary judges, who evaluated the team presentations.
- Joe Matje: scorekeeper.
- Frank Nicosia and Mitch Swann: team mentors.

The competition needs volunteers to sustain the effort on an ongoing basis; please check their Website (future-cityphilly.org) for additional pictures and volunteer opportunities.



AFFILIATE MEMBERSHIP GRADE

For an Annual Dues of \$40, Applicants under Age 30 can Join ASHRAE at this introductory membership level. Membership tenure in this grade is limited to three (3) years.

Affiliate Members Benefits Affiliate Members receive monthly issues of the ASHRAE Journal and Insights Newsletter. The annual handbook is not a benefit of this grade.

Qualifications

An Affiliate Member shall have the same qualifications as an Associate Member. They are:

1. Experience in technical matters or in design, operation, or maintenance in heating, refrigerating, air conditioning, or ventilating fields.
2. An interest in the advancement of the Society's aims.
3. Possess sufficient qualifications to cooperate with heating, refrigerating, air conditioning, or ventilating engineers in the advancement of relating to heating, refrigerating, air conditioning, or ventilating engineering and its application.

Limitations

- You do not receive ASHRAE Handbook with membership. You do not receive *ASHRAE Insights*. You get a one-time discount (20% off) on all Handbook items.
- You can serve on Chapter committees, but cannot hold office or vote at Chapter, Regional or Society level.

Contact For Receiving Application

Go to www.ashrae.org and click on "Join" in the upper right corner. This will take you to a page describing each membership grade, its benefits and qualifications, and a link to membership application forms.

MEMBERSHIP ADVANCEMENT!

Any Associate Member meeting the following requirement can apply for Advancement to the more entitling Member grade. By ASHRAE society definition:

A member shall have the equivalent of twelve society-approved years of experience composed of an approved combination of: (a) completed education beyond high school, (b) work experience, and (c) professional engineering or related registration or license issued by a legally authorized body.

All technical and scientific education shall be based on curricula approved by the Board of Directors.

Approved engineering curricula shall be equivalent to the accredited by the Accreditation Board of Engineering and Technology in the United States of America or the Canadian Engineering Accreditation Board. Scientific education in fields other than engineering shall be from a college or university course of study that has been accredited by an organization charged with monitoring standards of performance. *Society approved years of experience shall be credited as follows:*

One and one-half years of credit for each year of completed education for graduates of approved technical curricula. One year of credit for each year of education for non-graduates who have completed a least two years of approved technical curricula. One year of credit for each year of completed education for graduates of colleges or universities which do not have accreditations. Those holding associated degrees from technical institutions shall also be credited for one year for each year of education.

One year for each year of qualifying work experiences in the performance of duties in work related to ASHRAE fields of interest and shall have included research, teaching, design, contracting, engineering sales or engineering management.

Three years of credit for professional registration of license issued by a legally authorized body in engineering or related fields, the requirements of which as to education, examination, and active practice are satisfactory to the Board of Directors.

More information is available on the ASHRAE website (www.ASHRAE.org) under menu items Membership Resources...Manage Your Membership, the above definition is extracted from such application information in PDF file format. The application can also be filled interactively online. ASHRAE sends members who upgrade a \$20 gift certificate usable at the ASHRAE bookstore or towards ASHRAE membership renewal.

Member Services

Members who would like stay on top of the **latest news from ASHRAE** may join the News Release List Serve at <http://www.ashrae.org/template/AboutLinkLanding/category/1584>.

If you or your company are hiring, please take a moment to **review the resumés of chapter members** and students which have been posted on the chapter website at www.ashrae-phila.org/resumes.html. We will also **post your job opening** for one month. Send it to hope@mmco1.com.

Any member who wishes to **have their resumé posted on our website**, or who would like to update it, can email it in a pdf format to hope@mmco1.com. It will be posted for one month and may be renewed after that time.

NJ Chapter of ASHRAE Meeting

Mr. Bill Harrison

Maintain to Sustain: Delivering ASHRAE's Sustainability Promise

Tuesday, February 3, 2009

Woodbridge Hotel & Conference Center

120 Wood Avenue South, Iselin, NJ

Cost: \$40.00 Members and Non-members

\$ 5.00 Students

RSVP: REPLY@NJASHRAE.COM or call 732-218-7463

4:30 Board of Governors Meeting

5:30 Dinner and Presentation Speaker and Dinner

Welcome New Chapter Members!

New Members for the Month of January

New Members

Mr Joseph Palmeri – Associate

Mr Timothy Guider – Associate

Mr Anthony DiGiovanni – Member

Mr Dave Nichols – Member

Mr Robert A Knese – Member

Mr Jeffrey L Hiles – Member

New Students

Mr Lucas Wickard

Mr Brandon Darrah

Inside This Issue

Meeting Announcement	1
President's Message	Page 2
Speaker's Bio and Topic	3
Chapter Event Schedule	4
Previous Month's Meeting Recap	5
Chapter Technology Award Competition	6
Local 19 TAB Seminar	6
Future City Competition	7
Membership Grade Announcements	8
Regional Event Information	9

Check

<http://phila.ashraechapters.org/>
for further information

on the

Philadelphia Chapter!

Please take note of our new web address

This is your newsletter.

We welcome your input and comments.

The *Quaker City Climate*
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The Chapter does not speak or act for the Society.

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in the *Climate* can send the information to:

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Material can include letters to the editor,
member news, upcoming events,
comments on chapter programs or issues, etc.