

PYRAMID PRESS

ASHRAE – Memphis Chapter
<http://www.ashraememphis.org/>

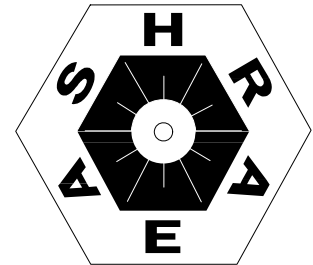
September 2007

LUNCH MEETING 11:30 TUESDAY

September 11, 2007

Meeting Location:

Kemmons Wilson Center Holiday Inn
3700 Central Ave. in Memphis, TN



MEMPHIS CHAPTER CONTACTS

CONVERTING AN AIR FORCE BASE CENTRAL CHILLED WATER PLANT TO ALL VARIABLE FLOW

When the speaker first visited Bolling A.F. Base, Washington, D.C., on June 1, 2006 the central chilled water delta "T" was 1.7 Deg. F, all four centrifugal chillers were on-line but unloaded, the 250 H.P. chilled water pumps were running at full speed. All 25 buildings connected to the system were too warm.

Because several different engineers designed the building HVAC systems, there was no standard method of connecting the buildings to the chilled water mains. The speaker describes these connections and the revisions that were made to provide an all-variable flow system and how much energy was saved by the revisions.

Gil Avery

Earn PDHs/CEUs by attending.
Visitors are welcome.

YOUR ADVERTISEMENT HERE
\$150

PRESIDENT:

John Colmer: 761-0885
Cell: 359-3579
john@computerenvironment.com

PRESIDENT ELECT PROGRAMS / CTTC:

David Branham: 937-1720
davidb@branhamlloyd.com

SECRETARY:

Joey Matlock: 452-2500

TREASURER:

Brad Grammer: 685-2371

MEMBERSHIP:

James Fleck 384-8400

NEWSLETTER / WEBMASTER:

Brian Schaffler: 345-6100
Kevin Crosby: 345-6100

STUDENT ACTIVITIES

Russ Fletcher 761-0885



THE PRESIDENT'S CORNER

First of all, I would like to thank you all for the privilege of serving as your president this year. With the help of our energetic Board of Governors, we are off to an exciting start.

David Branham and I represented our chapter at the Region VII CRC in Huntsville. The Memphis chapter was second in overall performance points. The focus of ASHRAE this year is Sustainability through Advanced Energy Design. Our programs will reflect those objectives.

You may notice the advertisement boxes available in the newsletter. These are to raise capital for our chapter functions such as the Christmas Party.

As the year goes forward, we will be working on updating our chapter database. Please help us out with your current information

Brian Schaffler asked that all the companies send updates for their info [shown at <http://www.ashraememphis.org/page8.html>]. Let us know any changes to your companies info and we will make the changes. Please email any changes to kevin.crosby@gorhamschaffler.com.

I am looking forward to seeing everyone Tuesday!

John Colmer
Chapter President

YOUR AD HERE
\$75



THE HISTORIAN

MEMBER NOTICES

RECYCLING – Voluntary Now (By Decree Later?)

The average American drinks at least one beverage in a can per day. Tennessee has a population of 6,000,000 people. Recycling one can saves enough energy to run a 100 watt bulb for twenty hours, a computer for three hours and a TV for two hours. Source: U.S. EPA, Container Recycling Institute.

“Doing the math-it costs to toss.” *“A ton of aluminum cans in the hands of a recycler is valued at \$1,120/ton (\$1,200 less \$80 for processing). According to U.S. Environmental Protection Agency estimates, there were 16,733 tons available in Kentucky in 2004 with a potential worth of more than \$18,700,000. But only 4,630 tons were recycled and the remaining 12,103 tons were trashed. Here are the figures on what could be and what is: \$18,740,960 potential revenue if 16,733 tons of cans are recycled; \$21,159,068 lost revenue plus \$28/ton disposal fee when 12,103 tons are trashed.”* Taken from “Land and Water”, a publication of Kentucky Environmental and Public Protection Cabinet.

Kentucky’s population is two-thirds of Tennessee’s. Multiply each number above by 1.33 to see what Tennessee numbers would be. Kentucky has a high concentration of aluminum refining facilities (142, employing 17,630 people). Recycling is therefore good for the states industry. Those of us from Tennessee say “so what,” how does that affect us. It affects us in that Tennesseans recycle in about the same percentages as Kentuckians and other Americans.

The article from “Land and Water”, a publication of Kentucky Environmental and Public Protection Cabinet, is only looking at lost revenue. Our concern should not only be lost revenue but also include the environment impact of not recycling. It takes 5% of the energy and 10% of the labor and capital costs to make a new can from a recycled can than it does to mine the bauxite ore and process the raw ore into the first can.

Take a look at the following good reasons to recycle: (1) there is no limit to the number of times aluminum can be recycled; (2) cheap – see above; (3) recycling one ton of aluminum saves eight tons of ore; (4) keeps a valuable resource for going to land fill; (5) reduces America’s trade deficit and dependence on overseas sources of bauxite ore; (6) good for our economy creating 30,000 jobs in the recycling industry.

Thirty-three percent of U.S. aluminum supply comes for recycled cans, cars, construction materials and manufacturing processes.

Contributed by Jerry Gatlin, Thompson Engineers, Inc., Memphis, TN

ASHRAE MEMBERSHIP GROWTH

Please inform colleagues interested in becoming members of ASHRAE to log on to <http://www.ashrae.org> to fill out an electronic application. Once at the site click on “Join ASHRAE” on the left side of the page then scroll down to the appropriate application for the desired membership grade (This link will take you directly to the membership application selection page - <http://www.ashrae.org/template/AboutLinkLanding/category/1872;jsessionid=aaaglyphErs1BeQ>). Also, have each interested colleague go to the Memphis Chapter Internet site (<http://www.ashraememphis.org/page2.html>) and fill out a local chapter application. If the prospective members do not have internet access just have them contact me directly and give me their mailing address for me to send hard copies.

Total dues are \$150 National and \$85 local. Local dues are only \$15 if they will not attend the lunch meetings.

Please feel free to call or write with any questions.

James Fleck, P.E.
(ASHRAE Membership Promotion Chairman)
Gala Engineering
Phone: (901) 384-8400
Fax: (901) 373-2255



UPCOMING EVENT



We are pleased to announce our next Tour
September 26th @ 6pm!

AFE's next tour has been scheduled right here in the Airport Area. Below are a few bullet points on the facility we will be touring, as well as their IMPORTANT security process that we would need to know before entering.

FAA Air Route Traffic Control Center

3229 Democrat Rd, Memphis 38118
901.368.8300

Facts:

- This facility has 6 engine generators & 4 UPS (uninterruptible power source) modules.
- Operates 24/7
- Some communications equipment is on site, however most is remote.
- Inputs from 9 radars are used to provide information to Air Traffic Controllers.
- The main frame & individual processors are used to distribute information to Air Traffic Controllers.
- The Facility has an approx. gross square footage of 180, 000.

Below is **IMPORTANT** security and facilities information to make this tour run as smoothly as possible. **Parking** will be available in the visitor's parking lot across from the Guard Building, which is where we must meet and sign in.

Security Measurements:

1. All personnel entering the facility will need a government (Federal, State, or local) picture ID.
2. All visitor vehicles will be parked outside the fence and visitors walk to the main building.
3. Visitors will pass through a metal detector and receive an "escort required" visitor's badge at the guard building.
4. Any foreign nationals will need individual approval. If any are in the group I need to know so I can provide you the contact information.
5. No alcohol or firearms allowed on Federal property.

RSVP via by telephone or email by end of day **September 24th**

- Due to the **AFE security requirements**, I will be providing, **David Smith** and **Ed Ellison**, (our instructors) all the attendees names in advance. *I will be sending a reminder shortly before the event that will have a printable version of the invitation as well as a map to the site.*

OFFICERS & CHAIRS

Continued from Page 1

Research/Promotion	Chris Ewing 901-843-4870
At-Large BOG	Bill Dudley 901-495-3959
At-Large BOG	Rodney Lum 901-682-7727
At-Large BOG	Davie Lloyd 901-937-1720
Student Activities	Russ Fletcher 901-761-0885
Chapter Memorials	Ken Jack 901-324-6610
Nominations	David George 901-373-5100
Refrigeration	Bill Jason
Historian	Jerry Gatlin 901-452-2500
Christmas Party	Jimmy Fleck 901-384-8400
Golf Tournament	David George / Stan Wilson/Chris Ewing 901-373-5100
CRC 2008 Memphis	Evans Jack 901-324-6610

YOUR AD HERE
\$50

NOTICES

- **ASHRAE Endorsed Events**

ASHRAE National meeting

New York, NY
January 19-23

Engineering Green Buildings Conference & Expo, Sept. 17–18, Las Vegas.

www.egbregistration.com

Building Automation & Sustainability

Conference & Expo, September 25-27, 2007,
Wyndham Phoenix, AZ

www.buildingautomationconf.com

For a more complete listing, go to
<http://www.ashrae.org/events/page/427>

- **Update your Membership Information**

Please update your email, phone #s, and contact information by logging in at www.ashrae.org

<http://www.ashrae.org/template/MemberLinkLanding/category/1570>

Manage Your Membership
Manage Personal Information
Address Changes

The Memphis Chapter Newsletter mailing list and roster are based on those records.