



PYRAMID PRESS

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

September 2008



MEMPHIS CHAPTER CONTACTS

PRESIDENT:

David Branham: 937-1720

PRESIDENT ELECT

Russ Fletcher: 761-0885

PROGRAMS / CTTC:

Joey Matlock: 452-2500

SECRETARY:

Ryan Hertter: 827-8016

TREASURER:

Steve Stephens: 365-4936

MEMBERSHIP:

James Fleck: 384-8400

NEWSLETTER EDITOR:

Brian Schaffler: 345-6100

WEBMASTER:

Kevin Crosby: 345-6100

STUDENT ACTIVITIES:

Russ Phillips: 348-2853

LUNCH MEETING

TUESDAY, September 9, 2008

11:30 AM

Meeting Location:

Kemmons Wilson Center
3700 Central Avenue

Attend the meeting and get a chance to win a Steril-Zone Room Air Purifier

Safe and ozone free! Steril-Zone is a room air purifier that combines three scientifically proven air purification technologies - one for each class of pollutants - to provide a safe, effective and energy-efficient way to clean the air in rooms up to 1,000 square feet. Achieve a whole new level of cleaning!

The Steril-Zone Room Air Purifier provides a safe, effective and energy-efficient way to clean the air in rooms up to 1,000 square feet. Using a three-stage purification process, Steril-Zone destroys allergens and pollutants for a whole new level of air cleaning.

Steril-Zone uses a patented germicidal UVC Emitter to effectively clean the air of bacteria, viruses and mold, an activated carbon filter to absorb VOCs and odors, and a high-efficiency filter to remove allergens and particulates. Steril-Zone attacks all three categories of irritants and pollutants to keep you and your family breathing easier.

Steril-Zone is ideal for residential rooms, apartments, condos, offices, waiting rooms, day care and senior facilities and hotel rooms. Only Steril-Zone delivers pure air through real science.

This is a room air cleaner that incorporates UV/HEPA/Carbon Filters all in one to clean up to 1,000 sq.ft.

A 795.00 Value!

Door Prize Sponsor

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THIS MONTHS PROGRAM

LOW-INTENSITY GAS FIRED INFRA-RED HEATING

Speaker: Michael Kohls

In the mid-70's Michael Kohls received his engineering degree from Purdue University.

Over the first 15 years of his post graduation career he was employed by Chore-Time/Brock, Inc., a Berkshire-Hathaway Company, where he served as Sales Engineer, Product Manager, Engineering Manager, and Vice President of Marketing and Product Development.

Leaving CTB, Inc. behind Michael accepted a position as a Vice President at GSI, Inc. and started their Commercial Incubation Systems manufacturing division.

Looking to return to Sales and Marketing Michael accepted a position and moved to Shenandoah Manufacturing Co, Inc. where he served 8 years as their International Sales Manager.

For the past 7 years, Michael has been employed by ROBERTS-GORDON® LLC as Market Development Manager working with Manufacturers Representatives and OEM House Accounts. Michael is a member of ASAE and ASHRAE, and over the years, has also published a number of articles and technical papers and is listed as an inventor on two patents. He currently resides in Shenandoah, VA with his wife Diane where he enjoys cycling and competitive archery in his spare time.

THE PRESIDENTS CORNER

Hello to all members. I am excited to be the Memphis Chapter President for year 2008-2009. I am looking forward to great speakers and excellent food. I would also like to thank all members who dedicate their time to help run the local chapter. With that said, I need a little help from each of you. Please update your personal information at www.ashrae.org and login on top left of page. If you have never logged in before, click "need a login" and it will ask for your membership ID number, last name, postal code, and last four digits of telephone number. Keep in mind that your telephone number could be an old number from previous employers or old addresses. If you need help looking up your membership ID number, please feel free to contact me or any other Board member for assistance. It is imperative that this information is up to date.

I am looking forward to seeing everyone at the luncheon.

Regards,

David Branham, PE



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THE HISTORIAN

MEMBER NOTICES

Memphis ASHRAE Chapter Presidents 1943 to 2008

- | | |
|---------------|-----------------------|
| 1. 1943-1944 | J.J. Noland* |
| 2. 1944-1945 | T.J. O'Brien* |
| 3. 1945-1946 | Bob Hoshall* |
| 4. 1946-1947 | Norvell Ledbetter* |
| 5. 1947-1948 | Ed Scott* |
| 6. 1948-1949 | Walker Wellford* |
| 7. 1949-1950 | Carl Fischer* |
| 8. 1950-1951 | Robert E. Larkin* |
| 9. 1951-1952 | Bill Drake* |
| 10. 1952-1953 | A.W. Shelby* |
| 11. 1953-1954 | Herbert Wilson* |
| 12. 1954-1955 | John Hilton* |
| 13. 1955-1956 | Wendell Henson* |
| 14. 1956-1957 | Bob Bolding* |
| 15. 1957-1958 | George Ramsey* |
| 16. 1958-1959 | Hank Wade* |
| 17. 1959-1960 | C.L. Brown* |
| 18. 1960-1961 | Jim Coleman |
| 19. 1961-1962 | Dan Mills* |
| 20. 1962-1963 | Phil Hall* |
| 21. 1963-1964 | John Montgomery* |
| 22. 1964-1965 | Joe O'Brien |
| 23. 1965-1966 | Hanns Wittjen |
| 24. 1966-1967 | Griff Burr, Jr. |
| 25. 1967-1968 | Cecil Sellers* |
| 26. 1968-1969 | John Hudson |
| 27. 1969-1970 | Charles D. Schaffler |
| 28. 1970-1971 | Gilbert Avery |
| 29. 1971-1972 | Robert P. Colmer, Jr. |
| 30. 1972-1973 | Robert Kittrell |
| 31. 1973-1974 | Rodney Barham |
| 32. 1974-1975 | Kenneth Jack |
| 33. 1975-1976 | Ronald Thompson |
| 34. 1976-1977 | Ralph Hughes, Jr. |
| 35. 1977-1978 | Roger Buckmaster |
| 36. 1978-1979 | Tom Needham |
| 37. 1979-1980 | Bill Jason |
| 38. 1980-1981 | Steve Cody |
| 39. 1981-1982 | Billy Copeland, Jr. |
| 40. 1982-1983 | Jim Morgan |
| 41. 1983-1984 | Rhett Hailey |
| 42. 1984-1985 | Mike Stewart |
| 43. 1985-1986 | Jim Bruther |
| 44. 1986-1987 | Mike Bilderbeck |
| 45. 1987-1988 | Gary Comella |
| 46. 1988-1989 | Bruce Fisasckerly |
| 47. 1989-1990 | Jim Corzine |
| 48. 1990-1991 | Preston Hall |
| 49. 1991-1992 | Mark White |
| 50. 1992-1993 | Steve Stephens |
| 51. 1993-1994 | Melinda Reed |
| 52. 1994-1995 | Jeff Haltom |
| 53. 1995-1996 | Blaine Therrell |
| 54. 1996-1997 | Jeff Maynard |
| 55. 1997-1998 | David George |
| 56. 1998-1999 | Evans Jack |
| 57. 1999-2000 | Jeff Pope |
| 58. 2000-2001 | J.R. Anderson |
| 59. 2001-2002 | Jerry Gatlin |
| 60. 2002-2003 | Brian Schaffler |
| 61. 2003-2004 | Chris Claude |
| 62. 2004-2005 | Jeffry Gatlin |
| 63. 2005-2006 | Evans Jack |
| 64. 2006-2007 | James Copeland |
| 65. 2007-2008 | John Colmer |
| 66. 2008-2009 | David Branham |

* Deceased

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=aaaglpHers1BeQ>) .

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



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OFFICERS & CHAIRS

NOTICES

Continued from Page 1

Research/Promotion:	Keith Mayes 901-481-7988
At-Large BOG:	Bill Dudley 901-495-3959
At-Large BOG	Rodney Lum 901-682-7727
At-Large BOG	Davie Lloyd 901-937-1720
Chapter Memorials	Ken Jack 901-324-6610
Nominations	David George 901-373-5100
Refrigeration	Bill Jason 901-323-4899
Historian	Jerry Gatlin 901-452-2500
Christmas Party	Jimmy Fleck 901-384-8400
Golf Tournament	David George Stan Wilson Keith Mayes 901-373-5100

ASHRAE Endorsed Events

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.

YOUR AD HERE
\$50



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ASHRAE REGION VII CHAPTERS' REGIONAL CONFERENCE

From the 7th through the 9th of August, ASHRAE Chapters from across Region VII sent delegates and Chapter officers to Memphis to meet with Society and Regional officers, and Society staff members, for the purpose of planning the upcoming Society Year, and to receive training on how to carry out their respective Chapter positions.

The Greater Memphis Area engineering and architectural community showed its support for ASHRAE by coming out and providing an outstanding attendance for the PDH Seminar on Thursday morning. The out-of-town guests were awed by the hospitality shown to them by the Rendezvous Restaurant and Graceland. The meeting facilities at the University of Memphis Fogelman Conference Center were impressive, as was the service at the Holiday Inn—University of Memphis.



The following received awards at the close of the conference:

Memphis Chapter – Five father/son Presidents (Ken and Evans Jack were in attendance and were recognized); Evans Jack – Award for being CRC Chair; John Colmer - Memphis Chapter PAOE; Chris Ewing – Resource Promotion PAOE; Russ Fletcher – Student Activities Special Award and PAOE; Jerry Gatlin – Historian of the Year Gold Ribbon Award and History display at the CRC.



ASHRAE

August 2008

MEMBERS FIRST!

VOLUME 3 ISSUE 5

MESSAGE FROM THE TECHNOLOGY COUNCIL CHAIR

As we head into a new Society year, Technology Council is primed for a productive year developing a range of technical products and services to contribute to ASHRAE's mission. As we do so, we will constantly strive to remember the needs of our members and how we can tailor our efforts to meet those needs. Don't hesitate to provide us your feedback on our work and share your suggestions on how we can do better.

TECHNICAL ACTIVITIES COMMITTEE

As the new society year begins, TAC is forward-thinking in its outlook. This year, TAC will revise the TC/TG/TRG roster procedure to facilitate the addition of corresponding members throughout the year so that willing volunteers from around the world have a positive experience when applying for membership on a TC/TG/TRG. TAC will also continue to improve and automate the roster update workbook. Furthermore, TAC will continue to review and streamline the TAC MOP and develop a new TAC/TC Reference Manual to agree with the new approved ROB.

TC 9.6 – Healthcare Facilities proposes to develop a new special publication design guide on quarantine (isolation) stations and an update to the ASHRAE HVAC Design Manual for Hospitals and Clinics. Both design guides are also expected to address the latest technical guidance on SARS, bird flu, and other airborne-transmitted diseases, which was first requested by ASHRAE members in a 2004 referral from the Hong Kong chapter.

TCs 9.5, 8.11 and 6.3, in response to a Pub/Ed Council referral, are developing a brochure that can be used by chapters to educate consumers on selecting and maintaining residential HVAC systems.

TAC/Handbook Revision Process: A review workshop for the 2007 Applications Handbook was held April 12-13 in Chicago, IL and developed 8 recommendations. TAC plans to assess the impact that the first workshop had on the 2008 S&E volume.

TRG 7.UFAD is reviewing and rewriting the ASHRAE Underfloor Air Distribution Design Guide to incorporate

design, construction, and operational experiences that have become available since its original publication in 2003. The TRG aims to have a completed draft of the UFAD design guide for the Winter Meeting in Chicago.

TC 9.11 has begun work on a new design guide for clean spaces and will cover applications such as semiconductor & micro-electronics, aerospace, optical, pharmaceuticals & medical devices, healthcare & Bio-Tech facilities, food processing, and bulk chemicals. The first draft of the design guide is expected to be completed by June 2009. A call for volunteers to help with the design guide is now in process.

TAC distributed the final version of the Vision 2020 document to the TC chairs following the N.Y. meeting and briefed them in Salt Lake on the purpose of Vision 2020 with assistance from BOD and Tech. Council members. TAC will continue to encourage the TCs to incorporate information on Net Zero Energy Buildings (NZEBS) into their programs, research and handbook chapters.

TC 7.4 and 7.5 were merged to form a single TC 7.5, Smart Building Systems and a new scope was developed. The name of TG 2.BCBR was changed to TG2.HVAC Security and the scope was changed accordingly. The scope of TC 6.7, Solar Energy Utilization, was updated. The name of TC 6.6 was changed from Service Water Heating to Service Water Heating Systems.

ENVIRONMENTAL HEALTH COMMITTEE (EHC)

As envisioned in Vision 2020, NZEBs must comprise systems to provide safe water and air to at least the same extent as that which is acceptable today. However, "safe" building water and air must be defined in order to establish that Indoor Environmental Quality (IEQ) has not been degraded in the pursuit of more efficient buildings. The Environmental Health Committee (EHC) is planning to produce a quantitative description of safe building water and air including acceptable numerical ranges for known health hazards based on published references from various cognizant authorities in government and academe.

Objective 1 - By June 2009, a quantitative description of safe building water will be produced for use in the NZEB initiative to define the benchmark for claiming no degrada-

ASHRAE Technology is for ASHRAE members. The **Members First!** newsletter is issued after each Technology Council meeting to provide highlights of ASHRAE technical activities and keep members informed. Our goal is to make the work of the technical side of ASHRAE open to all ASHRAE members. If you have technical questions for ASHRAE, please contact Steve Hammerling, Assistant Manager of Research and Technical Services, at 678 539-1158 or via email at shammerling@ashrae.org.

Your feedback is welcome and encouraged! Please write to Andrew Persily, Vice Chair, Technology Council at andrew.persily@mail.ashrae.org.



tion of safety in the indoor environment.

Objective 2 - By June 2009, a quantitative description of safe building air will be produced for use in the NZEB initiative to define the benchmark for claiming no degradation of safety in the indoor environment.

The EHC is also planning to establish a research project on the costs and benefits of ozone removal from outdoor supply air. The health effects of ozone in the indoor environment are emerging as one of the most important issues today.

RESEARCH ADMINISTRATION COMMITTEE (RAC)

We Want Your Input on the 2010-2015 Research Strategic Plan!

Since its inception, ASHRAE has conducted research to advance the arts and sciences of HVAC&R and allied disciplines. Today, ASHRAE funds over \$2 million in research annually. ASHRAE's research sets us apart from many professional membership organizations.

ASHRAE's research priorities are guided by the Research Strategic Plan (RSP) (http://www.ashrae.org/docLib/200641713376_347.pdf), developed by the Research Advisory Panel (RAP) with broad input from the membership. The current RAP, chaired by Jeff Spittler, Ph.D., is developing the RSP for 2010-2015. The panel is gathering input on the Society's strategic research needs through an on-line (~20 minute) survey that is open through Monday, **September 8, 2008**. Please give us your thoughts at: <http://CEE.ASHRAE-Research-Strat-Pln.sgizmo.com>

Research Projects Getting Underway

At the Annual Meeting in Salt Lake City five research projects were approved for award. ASHRAE research projects represent a lot of work by volunteers on the Technical Committees (TCs) to develop work statements, review bids and monitor the awarded projects.

The new projects are:

1356-RP, "*Methodology to Measure Thermal Performance of Pipe Insulation at Below-Ambient Temperatures*;" awarded to Oklahoma State University. Sponsored by TC 1.8 Mechanical Systems Insulation.

1390-RP, "*Short-Term Curtailment of HVAC Loads in Buildings*;" awarded to Florida Solar Energy Center. Sponsored by TC 7.4 Building Operation Dynamics.

1408-RP, "*The Effect of Lining Length on the Insertion Loss of Acoustical Duct Liner in Sheet Metal Ductwork*;" awarded to University of Nevada – Las Vegas. Sponsored by TC 2.6 Sound and Vibration Control.

1449-RP, "*Energy Efficiency and Cost Assessment of Humidity Control Options for Residential Buildings*;" awarded to Building Science Corporation. Sponsored by

TC 6.3. Co-funded by Air-Conditioning and Refrigeration Technology Institute (ARTI).

1488-RP, "*Laboratory Testing of Flat Oval Duct Fittings to Determine Loss Coefficients*;" awarded to Tennessee Technological University. Sponsored by TC 5.2 Duct Design.

Two other research projects received proposals and are pending contractor recommendations from the TCs. Seven additional projects are expected to be released for bid this fall.

ASHRAE's Research Partners

Other organizations provide important co-funding for ASHRAE research projects of mutual interest. Air-Conditioning and Refrigeration Technology Institute (ARTI) has provided or committed to provide about \$400,000 in co-funding in just the past year or two. The Chartered Institution of Building Services Engineers, headquartered in the UK, has co-funded several projects and shared technical information with several TCs that is based on research based in the EU. The California Energy Commission is exploring mechanisms to co-fund ASHRAE research. ASHRAE and the U.S. Green Building Council hope to develop joint procedures in the near for co-sponsoring projects. These co-funders help ASHRAE's research dollars do more for members.

REFRIGERATION COMMITTEE NEWS

An ASHRAE Position Document on Natural Refrigerants was developed by the Position Document Committee and approved by the Refrigeration Committee at the Annual Meeting.

A new chapter covering carbon dioxide will be included in the 2010 Refrigeration Handbook. TC10.3 (Refrigerant Piping) is leading the effort to develop content for the chapter. Other TC's and individuals are encouraged to contribute material and/or review content of the CO₂ chapter by e-mailing the Chair of TC10.3 at tc1003@ashrae.net.

The ASHRAE Refrigeration Committee will sponsor Three "Cool" Awards for 2008-2009. **The Milton W. Garland Commemorative Refrigeration Award** for Project Excellence will be made to both the designer and owner of a non-comfort cooling refrigeration application that incorporates new technology in a unique manner. There must be some ASHRAE linkage to the nominee, and the projects must be submitted within 36 months of the initial operation date of the system. Projects must be submitted by the Chapter through the Region and received by the Refrigeration Committee Chair by November 1 to be considered for this year's competition.

The **Refrigeration Comfort Cooling Award** for Project Excellence will be made to the designer and owner of a

**REFRIGERATION COMMITTEE NEWS (cont'd)**

comfort cooling refrigeration application that incorporates innovation and/or new technology. Submission for the Award is through the Chapter and Region by Nov. 1.

The **George Briley ASHRAE Journal Article Award** will recognize an individual annually for excellence of a refrigeration related article published in the Journal, which serves to increase membership awareness and interest in Journal articles related to refrigeration. Submission for the Award is through the Refrigeration Committee Chair by Sept. 1.

For more details e-mail REFchair@ashrae.net.

ASHRAE has returned home to its newly renovated Headquarters building, which now features a variety of sustainable design measures. To learn more about the project, including a list of partners in the renewal and photos of the renovated facility, go to <http://301.ashrae.biz/?c=29>.

STANDARDS

In the February 2008 Members First Newsletter Standards Committee reported that the online comment database was in the testing phase and that it would be working for the March 2008 public review cycle. The online comment database was used successfully for the first time with the public review of addenda for Standard 135 and recently used for the public review of addenda to Standard 90.1. Staff has received a lot of positive feedback from those that have used the database. The online comment database was demonstrated at the Project Committee Chair's breakfast in Salt Lake City since the fall public review will be processed entirely with the online comment database.

Standards Committee approved ANSI/ASHRAE/ASHE Standard 170P, *Ventilation for Health Care Facilities*, for publication and no appeals were received. Standards Committee also approved placing the standard on continuous maintenance upon publication.

Standards Committee also approved placing ANSI/ASHRAE/ACCA Standard 180P, *Standard Practice for Inspection and Maintenance of HVAC Systems*, on contentious maintenance.

Standards Committee also approved placing Standard 189.1P, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential*, on continuous maintenance when the standard is published. This standard will be having a public review in October 2008.

Standards Committee (and subsequently the Board) approved the following standards committee documents for publication in Salt Lake City:

- a. ASHRAE Guideline 24P, *Ventilation and Indoor Air Quality in Low-Rise Residential Buildings*
- b. ASHRAE Guideline 26, *Guideline for Field Testing of General Ventilation Filtration Devices and Systems for Removal Efficiency In-Situ by Particle Size and Resistance to Airflow*
- c. BSR/ASHRAE Addendum c to ANSI/ASHRAE Standard 15-2007, *Safety Standard for Refrigeration Systems*
- d. BSR/ASHRAE Standard 18-2006R, *Methods of Testing for Rating Drinking-Water Coolers with Self-Contained Mechanical Refrigeration*
- e. BSR/ASHRAE Addenda m, n, o, p, r, r, s, t, u, and v to ANSI/ASHRAE Standard 34-2007, *Designation and Safety Classification of Refrigerants*
- f. BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 62.1-2004, *Ventilation for Acceptable Indoor Air Quality*
- g. BSR/ASHRAE/IESNA Addenda g, h, l, n, p, y, ac, and ad, to Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*
- h. BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 90.2-2007, *Energy Efficient Design for Low-Rise Residential Buildings*
- i. BSR/ASHRAE Standard 120-1999R, *Method of Testing to Determine Flow Resistance of HVAC Ducts and Fittings*
- j. BSR/ASHRAE Standard 133P, *Method of Testing Direct Evaporative Air Coolers*
- k. BSR/ASHRAE Addendum a to Standard 140-2007, *Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs*
- l. BSR/ASHRAE Standard 170P, *Ventilation of Health Care Facilities*
- m. BSR/ASHRAE Standard 171P, *Method of Test of Seismic Restraint Devices for HVAC&R Equipment*
- n. BSR/ASHRAE Standard 182P, *Method of Testing Absorption Water Chilling and Water Heating Packages*
- o. BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 52.2-2007, *Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size*

**To sign up for the Members First!
Newsletter Listserv, please use the
following link:**

<http://www.ashrae.org/publications/detail/16150>