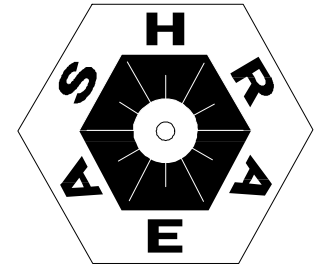


PYRAMID PRESS

ASHRAE – Memphis Chapter

January, 2003

LUNCH MEETING
11:30 TUESDAY, January 14, 2003
MONTESI EXECUTIVE CENTER
(CHRISTIAN BROTHER'S UNIVERSITY
CAMPUS)



Memphis Chapter Contacts

PRESIDENT:

Brian Schaffler: 345-6100
Fax: 396-1781

PRESIDENT ELECT:

Chris Claude: 345-6000
Fax: 345-2803

V. PRES. - PROGRAMS

Jeff Gatlin: 452-2500
Fax: 452-2530

SECRETARY:

Gary Whittam: 432-3318
Fax: 396-4864

TREASURER:

James Prillaman: 452-6283
Fax 458-9640

MEMBERSHIP:

Dave Miller: 382-1884
Fax: 382-9640

NEWSLETTER:

Denver Glazier: 432-3348
Fax: 396-4864

THIS MONTH'S SPEAKER:
DR. WILLIAM JANNA AND DR. JOHN I.
HOCHSTEIN OF THE UNIVERSITY OF MEMPHIS

THE TOPIC WILL BE:

**"ASHRAE Research Grant Presentation" (see attached
description – page 3)**

William S. Janna—William S. Janna joined the faculty of The University of Memphis in 1987 as Chair of the Department of Mechanical Engineering. He is currently Associate Dean for Graduate Studies and Research in the Herff College of Engineering. His research interests include boundary layer methods of solution for various engineering problems, and modeling the melting of ice objects of various shapes. He is the author of three textbooks, a member of ASEE and of ASME. He teaches continuing education courses in the area of piping systems, and in heat exchanger design and selection, for ASME. Dr. Janna received a B.S. degree, an M.S.M.E. and a Ph.D. from the University of Toledo.

John I. Hochstein—John I. Hochstein joined the faculty of The University of Memphis in 1991 and currently holds the position of Chair of the Department of Mechanical Engineering. In addition to engineering education, his research interests include simulation of micro gravity processes and computational modeling of fluid flows with free surfaces. He is a co-author of a textbook, Fundamentals of Fluid Mechanics, with P. Gerhart and R. Gross and is an Associate Fellow of AIAA. Dr. Hochstein received a B.E. degree from the Stevens Institute of Technology (1973), an M.S.M.E. degree from The Pennsylvania State University (1979), and a Ph.D. from The University of Akron (1984).



THE PRESIDENT'S CORNER

TO: ASHRAE Members

Happy New Year!

I hope everyone had an enjoyable holiday season as I did. It all got kicked off with a great ASHRAE Christmas party. Special thanks to Larry Mallery for doing a great job organizing the party. For those who couldn't make it, the Racquet Club did a excellent job with the food and the atmosphere was terrific.

Well, we are halfway through the ASHRAE year and so far we have had some great meetings. We have another great topic this month as Dr. Janna from the University of Memphis will present the results of his ASHRAE research grant. Looking further down the calendar for 2003 we have some very interesting speakers so try to watch the Pyramid Press and make sure to attend our meetings whenever possible. Also, for those seeking PDH points keep the morning of April 8th open as we will have a 2 hour PDH seminar on "Energy Conservation Aspects of Centrifugal Separators".

Please don't forget that we are now meeting at CBU and not the Fogelman Center. I want to thank Jeff Gatlin for his great work in finding our new location. CBU has a lot to offer and the food will be provided by the same catering service that used to provide the Fogelman Center catering so we can expect more great meals at lunch.

Hope to see you at the next chapter meeting on January 14.

Brian Schaffler
President ASHRAE Memphis Chapter

NOVEMBER MEETING REPORT

At the November meeting there were 59 in attendance, including 6 visitors. Thomas "Mitch" Mitchell of Memphis City Schools Maintenance Division spoke on "School HVAC Design: A Maintenance Perspective." The meeting was held in the Holiday Inn/Kemmons Wilson School of Hotel and Resort Management on the campus of the University of Memphis.

The Programs Committee and the Board plan to announce in the January Newsletter where the new home for ASHRAE-Memphis will be. We appreciate everyone's patience during this transition period. The membership should keep in mind the Chapter's treatment at the hands of the Kemmons Wilson organization that now runs Fogelman when they make their future personal or business meeting or travel plans. (See attached letter to Fogelman)

DECEMBER MEETING REPORT

The Memphis Chapter of ASHRAE had a very entertaining Christmas party to top off a very enlightening year. There were a total of 60 attendees for the Christmas party, which was held at the Racket Club on December 10, 2002. Thanks to all that helped with the party and supported ASHRAE throughout the year.



FUTURE PROGRAMS

JANUARY 14, 2003

11:30 a.m. – 1:00 p.m. Chapter Meeting – ASHRAE Research Grant Presentation Dr. William Janna, University of Memphis – 1 PDH

FEBRUARY 11, 2003

11:30 a.m. – 1:00 p.m. Chapter Meeting – Technical Communication Dr. Rick Hayter, ASHRAE Distinguished Lecturer – 1 PDH

MARCH 11, 2003

11:30 a.m. – 1:00 p.m. Chapter Meeting – "Operating Chillers in the Maximum Capacity Range" or "Improving Efficiency in Chilled Water Plants." By Gil Avery – 1 PDH

APRIL 8, 2003

9:00 – 11:00 a.m. PDH Seminar – Energy Conservation Aspects of Centrifugal Separators – Scott Mayes, Lakos – 2 PDH

11:30 a.m. – 1:00 p.m. Chapter Meeting – Subject TBA – Scott Mayes, Lakos – 1 PDH

May 13, 2003

11:30 a.m. – 1:00 p.m. Chapter Meeting – ASHRAE 62 and 90, and their effects on building moisture control by Dennis Stanke – 1 PDH

QUOTE OF THE MONTH

"There will come a time when you believe everything is finished. That will be the beginning."

--Louis L'Amour--

The year of 2002 has finished, hope all find the beginning of 2003 to be successful.

PRESENTATION DESCRIPTION

System Description

It is proposed to construct an experiment in which students can investigate the performance of an air motor, and of a gear pump. The analysis of the air motor involves the application of the First Law of Thermodynamics for an ideal gas, while for the gear pump, the First Law is applied to an incompressible fluid.

The apparatus consists of an air motor, a torque meter/tachometer, and a gear pump. Air from an existing compressor is routed through a pressure regulator to some pre-determined pressure. The air then goes through a flow meter and on to the air motor. After passing through the air motor, the air is discharged to the atmosphere.

The air motor power output is monitored by a torque meter/tachometer. The torque meter provides a readout of torque exerted by the air motor, and its rotational speed. This power is used to rotate a gear pump which pumps water from a tank, through a flow meter and a valve, and then back to the tank.

The system is appropriately instrumented. Readings of pressure, temperature, and flow rate are obtained so that power calculations can be made for the air motor and for the gear pump. Data are obtained from which efficiency of each device is determined.

MEMBER NOTICES

50 WAYS TO CELEBRATE NATIONAL ENGINEERS WEEK 2003

National Engineers Week 2003, February 16-22, celebrates the many contributions engineers make to our quality of life. Chaired by ASHRAE and Lockheed Martin, National Engineers Week activities have targeted students in an effort to expand the potential ranks of "the engineers of tomorrow." To encourage all engineers to find ways to participate, locally and Globally, the National Engineers Week Web site (www.eweek.org) presents:

50 Ways One Engineer Can Make a Difference!



ASHRAE

Technology for a Better Environment

Reply to: **Jeff W. Gatlin, PE**

ASHRAE Chapter 056
c/o 97 Tillman St.
Memphis, TN 38111
901-452-2500 Phone
901-452-2530 Fax

10 December 2002

Attn: Willie Taylor
Fogelman Executive Conference Center
University of Memphis
Fax 901-678-5329

Re: ASHRAE–Memphis Chapter
Meetings Scheduled for 2003

Dear Ms. Taylor:

In October, the ASHRAE-Memphis Board of Governors directed me to find another location for our monthly meetings. ASHRAE-Memphis will now be meeting on the campus of Christian Brothers University. Christian Brothers University, in cooperation with Aramark, provides a service similar what we were accustomed to at Fogleman prior to the arrival of the Kemmons Wilson organization.

This is your formal notification that ASHRAE-Memphis is canceling our reservations for 14 January 2003, 11 February 2003, 11 March 2003, two events on 8 April 2003, and the last event on 11 May 2003.

It is regrettable that our Chapter has had to find a new home after eight very successful and enjoyable years at the Fogelman Executive Conference Center. This is especially so because so many of our members are graduates of the University of Memphis Herff College of Engineering, and since an ASHRAE grant was awarded to the Department of Mechanical Engineering this Society year. It is very disappointing to our membership that the Kemmons Wilson organization puts so little value on attracting and maintaining local groups at Fogleman. Since your priorities have changed, as explained by both you and Mr. Austin, to attracting out-of-town groups, our Chapter has found a campus where we will be given a priority. A copy of this letter will be submitted for publication in our next Chapter newsletter so that the membership will understand your company's priorities and the reasons why we left Fogleman.

Sincerely,
ASHRAE-Memphis Chapter 056

Jeff W. Gatlin, PE
Chapter Vice President and Programs Committee Chairman

Cc: ASHRAE Region VII Vice Chair – Programs
ASHRAE Memphis Chapter Board of Governors
ASHRAE Memphis Chapter Membership
Phillip Austin, Kemmons Wilson Hotel Management
Dr. Shirley C. Raines, President, University of Memphis
Monique Savage, Christian Brothers University

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

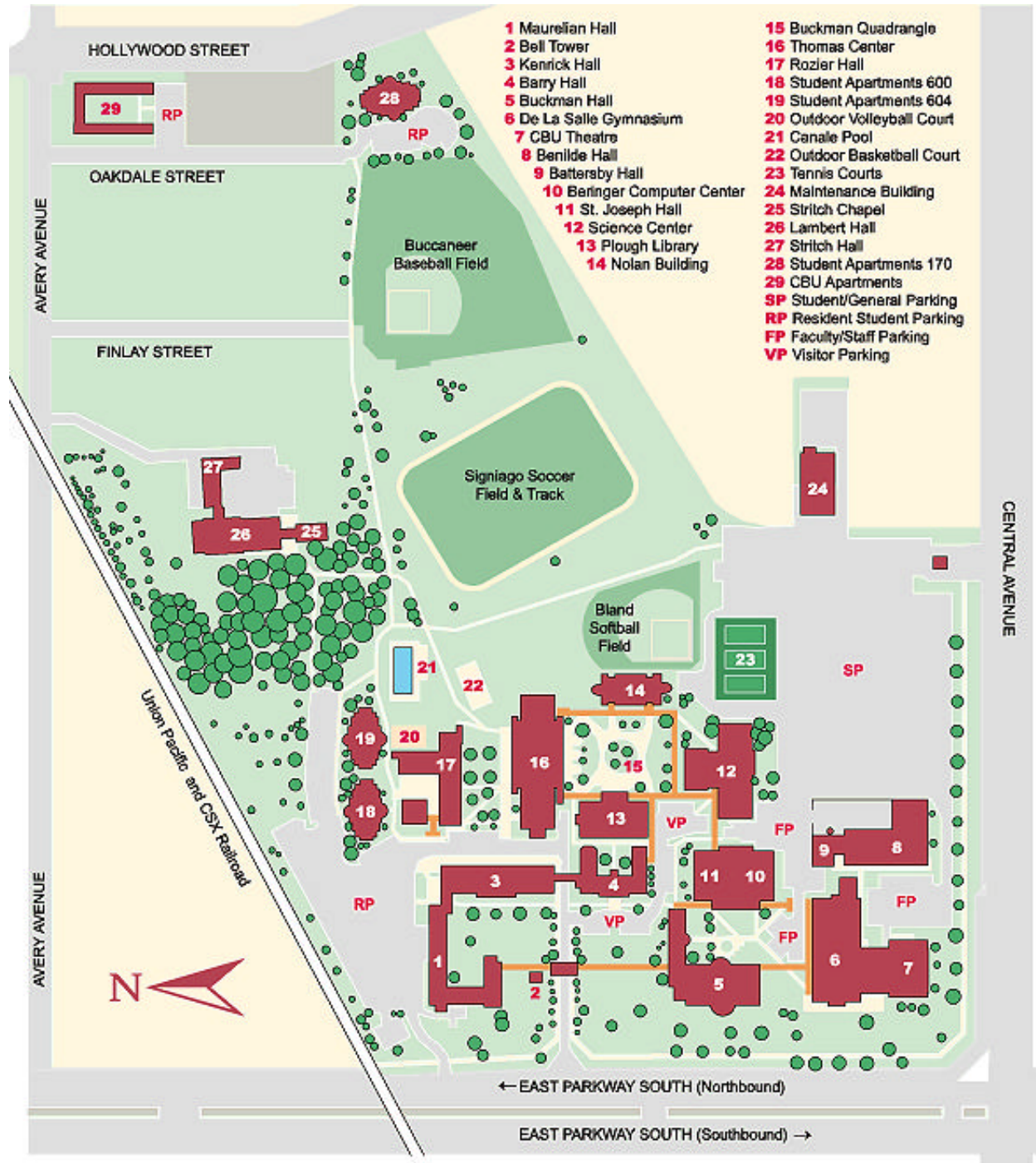
A N I N T E R N A T I O N A L O R G A N I Z A T I O N



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CHRISTIAN BROTHERS UNIVERISTY MAP MONTESI EXECUTIVE CENTER IN BUCKMAN HALL (BUILDING #5)



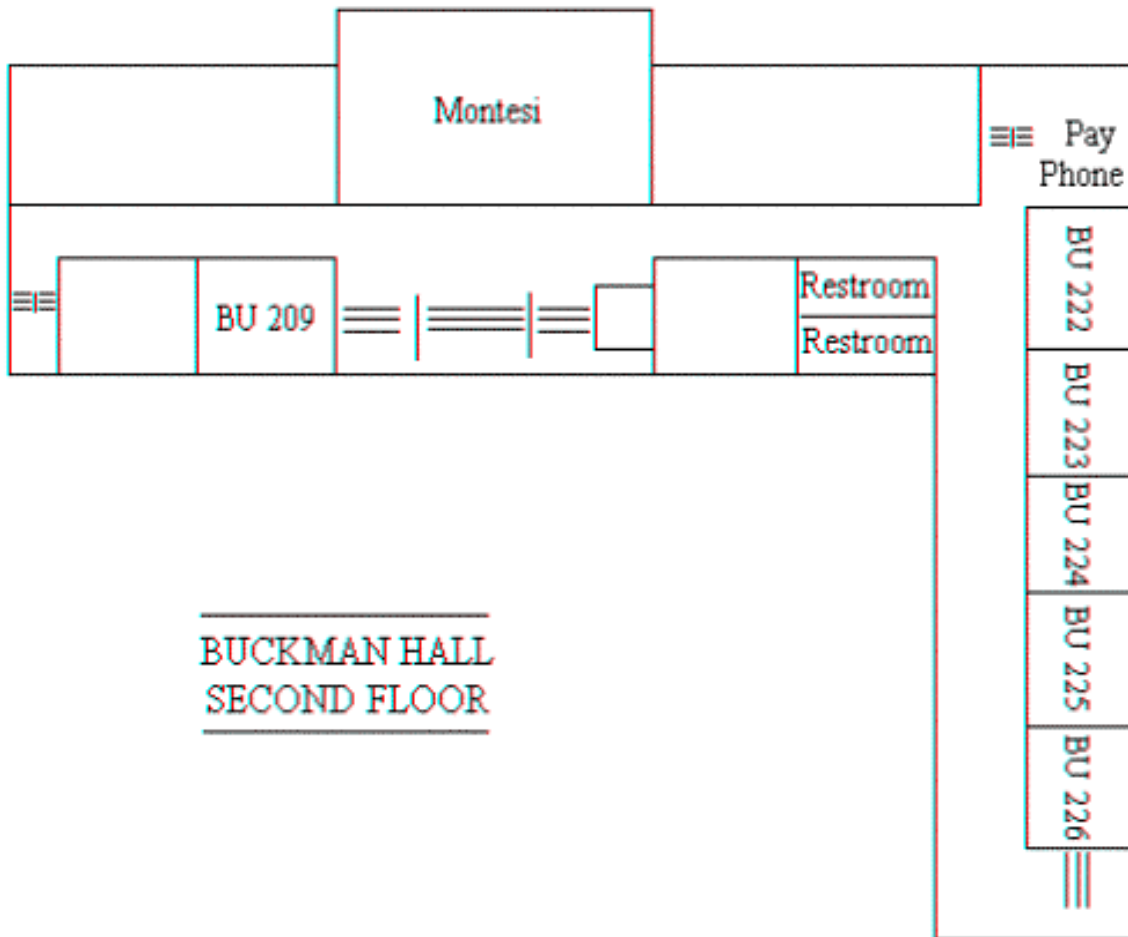


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PYRAMID PRESS

CHRISTIAN BROTHERS UNIVERSITY BECKMAN HALL FLOOR PLAN

East Parkway S.



BUCKMAN HALL
SECOND FLOOR