

# PYRAMID PRESS

ASHRAE – Memphis Chapter  
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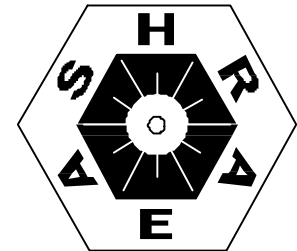
February, 2005

**LUNCH MEETING 11:30 TUESDAY,  
 FEBRUARY 8, 2005, MONTESI  
 CONFERENCE, CHRISTIAN  
 BROTHERS UNIVERSITY  
 (Building 5 -see map attached)**

## **Intricacies of the Tennessee State Architectural and Engineering Board**

**Philip K. Lim, P.E.**

Philip Lim is Manager of the Electric Engineering department at Memphis Light, Gas and Water Division (MLGW). He has been with the company for over 16 years. Mr. Lim is serving as an engineer member of the Tennessee Board of Architectural and Engineering Examiners. He is also a member of the Memphis/Shelby County Joint Electrical Code Board. He is the past chairman of the Electric Power Research Institute (EPRI) Power Quality Interest Group and the Memphis Section Institute of Electrical and Electronics Engineers (IEEE). He is a member of the National Fire Protection Association (NFPA). He is a member of Kirby Woods Baptist Church. Mr. Lim received a Bachelor of Science in Electrical Engineering (B.S.E.E.) from the University of Tennessee, Knoxville, Tennessee, and a Master of Science in Electrical Engineering (M.S.E.E.) from the University of Memphis, Memphis, Tennessee. In addition, he received a Master in Business Administration (MBA) from the Union University, Jackson, Tennessee. Philip is a licensed Professional Engineer in the State of Tennessee. He is also an adjunct professor in the Department of Electrical and Computer Engineering at the University of Memphis, Memphis, Tennessee. He has authored and co-authored over 30 technical papers.



## **Memphis Chapter Contacts**

### **PRESIDENT:**

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 Fax: 452-2530

### **PRESIDENT ELECT:**

Evans Jack: 324-6610  
 Fax: 324-6612

### **V. PRES, - PROGRAMS**

Stephanie Cianciola 820-0820  
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### **SECRETARY:**

John Colmer: 761-0885  
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### **MEMBERSHIP:**

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## THE PRESIDENT'S CORNER

February is an important month to ASHRAE-Memphis and for the engineering community at large. This is the month that the ASHRAE-Memphis Nominating Committee gets to work looking for people with the talent and desire to lead the Chapter in the 2005-2006 Society Year. February is also the month that Engineers Week is observed.

If you are interested in volunteering for a Chapter committee chair, at-large Board of Governors position, or officer position, please make contact with one of the Nominating Committee members (listed elsewhere in this Newsletter) or with President-Elect Evans Jack.

Engineers Week is full of events that we can all be a part of. The first is near and dear to me. I am the Chair of the **Memphis-Area Joint Engineers Council Engineers Week Student Contest** again this year. This is my third year to Chair this annual event. Quite a number of you have joined me in judging the Student Contest over the years. It will be held on Saturday morning, February 19, at the Macon Cove Campus of the Southwest Tennessee Community College. Please come out and help with the judging. The MJEC asks for four judges from each member Society. Please see me at the February meeting or send me an email if you want to volunteer ([jeff@thompsonengineers.com](mailto:jeff@thompsonengineers.com)).

The other Engineers Week events include:

**Engineers Week Kick-Off Luncheon**, hosted by the Engineers Club of Memphis and the MJEC, on Monday, 21 February at 11:30 a.m. The 2005 Engineering Award of Excellence (formerly Outstanding Engineer) winner will be announced at this time. Our own Bill Cain, PE, will be recognized as the ASHRAE-Memphis Featured Engineer.

**Order of the Engineer Induction Ceremony**, hosted by the Memphis Chapter of the American Society of Civil Engineers, on Wednesday, 23 February at 11:45a.m. Contact Chris Triplett at [ctriplett@ensafe.com](mailto:ctriplett@ensafe.com) if you are interested.

**Engineers Week Mid-Week Banquet**, hosted by the Memphis Chapter of the Tennessee Society of Professional Engineers, on Thursday, 24 February in the evening.

I look forward to seeing you at these events as we support the engineering community and encourage the next generation to consider an engineering career.

Jeff

## THE HISTORIAN

### **ENGINEERED MECHANICAL EQUIPMENT, INC.**

**Engineered Mechanical Equipment, Inc.**, better known as **EME**, is the oldest Memphis-based manufacturer's representative firm in our HVAC industry still operating under the original management. Established in 1970, EME has always stated in their letterhead: "Representing Quality Manufacturers" – a policy that continues today. EME was incorporated in 1976, and has been located off Sam Cooper Blvd. since 1983.

Our combined experience of well over 150 years in the HVAC industry puts us in a strong position to apply the products we sell. EME's strong emphasis on applied engineering of products represented has placed us in a unique position of involvement in a diverse field of specialty equipment. These include large infrared heating systems, air filtration and indoor air quality applications, pumping systems, permanent cooling towers, boiler and grease duct vents, clean rooms, packaged pumping systems, prefabricated and pre-insulated piping systems, flow control products, boilers, water heaters, air handling systems, variable frequency drives, and instruments.

The Company's first offices were located on the 27<sup>th</sup> floor in the newly built Clark Tower on Poplar Avenue. This arrangement was able to contain EME's growth thru the first few years from a one man office that expanded to eventually include several full-time employees. The overhead space above the ceiling tiles in these offices was not the best space for storing inventory and the ceiling tiles eventually started to sag. EME moved to our current location at 519 Vandalia which added more offices and 2 warehouses for greater distribution.

Major projects have included: Methodist Hospital Central Energy Plant; the FedEx Forum; Methodist Hospitals North and South cooling towers; Memphis International Airport; FedEx Worldwide headquarters; State Technical Institute; University of Memphis; University of Mississippi; Plough, Inc.; Baptist Hospitals East, /South / Huntington / DeSoto; University of Tennessee; University of Arkansas Central Energy Plant, Memphis Zoo; Rhodes College Barrett Library; St. Jude Childrens Research Hospital; Smith and Nephew; to name a few.

Ken Jack, now chairman, received his Mechanical Engineering degree from the University of Tennessee – Knoxville. Following completion of military service, he returned to Memphis to join the firm of Minneapolis Honeywell as applications and field engineer. Six years later,



## **FUTURE PROGRAMS**

### **February 08, 2005**

- **11:30 a.m. – 1:00 p.m. Chapter Meeting** – “Professional License Rules and Regulations” – Barbara Bowling
- Location: CBU, Montesi Conference Center

### **March 08, 2005**

- **11:30 a.m. – 1:00 p.m. Chapter Meeting** – “Fire Damper Design and Application”
- Location: CBU, Montesi Conference Center

### **April 12, 2005**

- **11:30 a.m. – 1:00 p.m. Chapter Meeting** – “Tennessee Energy Loan Program”
- Location: CBU, Montesi Conference Center

### **May 10, 2005**

- **11:30 a.m. – 1:00 p.m. Chapter Meeting** – “Proper Treatment of Outside Air” – Nick DesChamps
- Location: CBU, Montesi Conference Center

## **HISTORIAN CONTINUED**

Ken joined the Memphis consulting firm of Samuel L Burns, Inc. in setting up the Mid-South's first independent testing and balancing firm known as Technical Services. The outgrowth of Technical Services is the present day firm of Systems Analysis and Balancing. Prior to establishing EME in 1970, Ken returned to the controls field in joining the G. H. Avery Company as Barber-Coleman Controls and Air Distribution specialist, also involved in the application of fans and applied air products. He is a registered and licensed Professional Engineer. Ken served as President of the Memphis ASHRAE chapter in 1975 – 75 and has served in various regional and national committee assignments including the national nominating committee and is a Life Member of ASHRAE. Ken currently serves on the Board of Directors of the Memphis Union Mission and is active in his church. Ken's wife, Betty, serves as secretary of the corporation.

Evans Jack, now president, joined the firm full time in 1988 after working part time while in high school and college. Evans has served as President of the Memphis ASHRAE chapter in 1998 – 99 after serving in all the chapter chairs and is currently serving as president- elect. Evans achieved Eagle Scout rank and is an alumni of the Phoenix Club. He is also active in his church and political organizations. Evans is married to Kendall Jack and they have two sons, Davis six years old and Dex, one year old.

Marvin Ayers has been associated with EME since 1980 after spending twenty five years with Dixie Sheet Metal Company where he was Vice President and where he was instrumental in the building of the Air Force Academy in Colorado Springs. Brandon Holmes, inside sales and Cheryl Palmer secretary – receptionist have both been with EME five years. Jerry Dorsten mans our Nashville office and joined EME after a career with General Motors Corporation and Perma-Pipe div. of Midwesco.

## **MEMBER NOTICES**

Just a reminder that this month's meeting has been designated as Student Appreciation Month. Please encourage your students to attend. The chapter will cover the costs for their meal. The speaker is Phillip Lim from MLGW. He is a member of the TN state engineering board and will be doing a presentation on various PE licensing issues for the state.



## PYRAMID PRESS

### COMMUNITY KNOWLEDGE Referenced by: Mike Bilderbeck

As you may know, Article 1105.8 of the 1997 Standard Mechanical Code requires the installation of a SCUBA unit “convenient to the machinery room”. The purpose of the unit is to provide breathing air to personnel entering the room after a chiller refrigerant leak. This is not a popular requirement. The unit is a pain to maintain, train people to use, and it is difficult to keep it accessible but not stolen.

A client from a state-owned facility recently called me and said that the Memphis/Shelby County code folks are agreeing to a specific variance that agrees with the deletion of the SCUBA, based on the fact that the next Code to be adopted doesn't require the SCUBA. This variance is also apparently being approved retro-actively to existing chiller installations. He asked my opinion.

The basis for the SCUBA requirement is:

ASHRAE Standard 15-1994, *Safety Code for Mechanical Refrigeration* serves as the basis of Chapter 11 of the 1994 and 1997 SMC. The SCUBA is required by Article 11.6 of the Standard.

The 2001 version of the Standard has deleted the requirement of the SCUBA unit.

The soon-to-be-adopted 2000 International Mechanical Code does not require the SCUBA unit.

I told my client that it may not matter what the local code enforcement is doing. The State of Tennessee has other enforcement agencies that deal with state-owned facilities, assembly occupancies, healthcare institutions, schools, etc. It would seem that these facilities should also obtain approval from their regulatory agencies rather than just local code enforcement.

I contacted Chris Bainbridge of the State Fire Marshall's Office. Chris has replaced Sophie Zhislin, who recently passed away. Chris' response is shown below:

“It is my opinion that, in order to be code compliant, the breathing apparatus should be available for authorized personnel per the 1997 SMC. This stems from the fact that the time frame for State adoption of any Mechanical Code other than the 1997 SMC is unknown. The breathing apparatus should be installed for new construction and maintained for existing construction until the State Mechanical Code changes. If you should have any comments or questions, please feel free to call or email me.”

Chris Bainbridge  
TN State Fire Marshal's Office  
Codes Enforcement  
(615) 532-5837  
<http://www.state.tn.us/commerce/sfm/index.html>

I have no opinion as to the acceptability of removing or deleting the SCUBA from facilities. I would suggest that all the appropriate regulating agencies be consulted before a unit is removed.