



CLEVELAND *ASHRAE Newsletter*

January, 2005

JANUARY MEETING

Monday January 17, 2005



4:15-5:30 PM

5:00-5:45 PM

6:30 PM

7:30 PM

Topic:

Mini-Seminar

Board of Governors Meeting

Attitude Adjustment

Dinner

Presentation

**Ohio School Facility Commission
presentation by Franklin Brown**

Geothermal w/Speaker Jim MacMillian

ASHRAE Resource Donor Recognition Night

R.S.V.P. at (216)-373-0315 by 12:00 Noon on Friday, January 14th for Reservations

Dress Attire is NOW Business Casual

Technical Energy Government Activates (TEGA) NEWS

You've worked hard, the owner's happy, why not get some well deserved recognition?

Get the New Year started off right by submitting a project for a TEGA award. There are seven categories from which to choose. It takes only a few minutes to get started.

Entries should be submitted by March 31, 2005, for this year's judging.

Contact me if you have any questions or would like additional information, entry forms, etc.

Bruce Tomcik

tel 440-666-1249

fax 440-327-9668

**This Month's
Sponsor:**

R.L. Deppmann Company

5145 Brecksville Road, Suite 101

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TEAM SOLUTIONS FOR THE HYDRONIC AND STEAM INDUSTRY

*If you are interested in sponsoring the news letter,
please contact Matt Nelson at 440-243-3535.*

Officers and Committee Chairmen

2004-2005

Officers and Board of Governors

President	Richard B. Long
Vice President	Brian P. Chambers
Treasurer	Kenneth F. Borah
Secretary	Kenneth Wissner
Board of Governors	Matt Nelson Dale VanLehn Frank Eisenhower

Committees and Chairs

Chapter Technical Transfer Committee	Chuck Nachman
Programs (CTTC)	Chuck Nachman Robert J. Laneve
Refrigeration CTTC)	Richard B. Long
Gov't Activities (CTTC)	Matt Nelson
Membership & Roster	Frank Eisenhower Billy Kodosky
Product Directory	Daniel J. Bacik
Resource Promotion (Research)	Mike Moats Terry Kretch Dominic Cacolici
Newsletter	Andrew Tenhundfeld
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Sunshine Fund	James W. Wickert

The President's Corner

by Richard Long

Now that the Holiday's have vanished, let me begin by wishing all ASHRAE members a sincere happy and bubbly New Year. This year 2005 marks a significant milestone for me as I began my HVAC career in the Air Force in 1975. My only apprehension as the year begins is that I cannot recall where all of the years have gone!

I'd like to take this opportunity to recognize and express my gratitude to all of the officers and individuals who help on committees, too many to mention but my thanks go out to all of you. Without the support from these individuals our Cleveland ASHARE chapter would not be able to grow and thrive as it has done throughout the past few years.

I would like to start off the New Year with a **safety tip** based on last night's experience. As my wife and I sat at the dinner table, I noticed smoke pouring from the pan that she had just cooked french-fries in. She forgot to turn off the heat. She got up quickly, placed a lid on the pan and proceeded to slowly, move the pan off the burner. Cutting off the supply of air was key. Smoke still steamed out of the sides of the lid while I opened a window and turned on the exhaust fan. My **safety tip** is to prepare for an accident BEFORE it happens. I recommend all kitchens be equipped with a proper fire extinguisher. Period. It is not good enough to throw one in a cabinet or drawer especially if it's old or empty. It must be accessible immediately and remember NEVER walk away while cooking!! Many of us do not think that an accident will happen to us! Years ago I never imagined a fire would engulf my kitchen but – it did and my wife has told me ever since to (and I've listened) - stay out of the kitchen! What can I tell HER now?

Back to a more jovial topic - We have some great venues for the upcoming ASHRAE monthly meetings. This month we are fortunate enough to have Franklin Brown, the planning director from the (OSFC) Ohio School Facility Commission speak to us about what has been good and what has been bad regarding past and present OSFC projects. He will also be discussing what changes are coming. I am looking forward to a great turn out.

NATIONALLY: Next month is the winter ASHRAE meeting in Orlando Florida. I recommend for those of you who have never attended a winter meeting, that this year become your first. Not only is it Florida in February but also the educational meetings day after day are what I consider to be outstanding industry knowledge. Hope to see some of you there.

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Technical Topic

Since this year is a 30-year anniversary for me, let me discuss briefly, some things I have seen in our industry since 1975? A little HVAC history will never hurt. When I worked on air conditioning equipment in the 70's, things were much simpler. All technology seemed simpler. We didn't use computers - we used calculators. We didn't have Windows NT, XP or PP. The only windows were the type you opened for fresh air. In the past, my mail box was always full, and now it's my e-mail pilling up.

I worked on 25-30 centrifugal chillers with refrigerants R-113 and R-11 for over three years. Those refrigerants are **gone**. Most all of the other air conditioning equipment used either R-12 or R-22. And as many of us know, car air conditioning also used R-12. It's **gone too**. The other tough thing to except over these years is half my hair is **gone too**! R-22 as with R-12 was very simple to work with. Kinda like old cars vs today's cars. Old cars were simple to work on - the new cars well, extremely difficult. There was no Montreal protocol or Kyoto whatever. Being an airman in the air force the older retired military mechanics I worked with would just say - let it blow. That referred to open the 1/4" plug on the refrigeration system and let the 80, 90 or more pounds of refrigerant go - as in go into the air. We didn't know anything about the ozone layer future damage. I don't like the thought that I contributed to the ozone layer damage but it's one of those - I was just doing as I was told. Today air conditioning repair is similar to new cars. Complex. Today there are blends and a multitude of different refrigerants many of us know nothing about. In the 70's all air-conditioning equipment typically less than 200 tons had reciprocating compressors. Today we have newer technology with different compressors such as scrolls, screws blah blah blah!

Spending my entire four-year tour in the panhandle of Florida at the largest Air Force base in the world - Eglin AFB, Jimmie Carter was president at the time. He declared that due to the oil embargo of the 70's that we as a country needed to save energy. All thermostats in government buildings were to be set at 78 degrees. Do you know what 78 degrees feels like on a 95 degree-day with the relative humidity at 90% in Florida? I was almost coerced at times to lower the thermostats and bribed many other times. Not to bring politics into the discussion but the president's choice to save energy by raising the thermostats was - lets just say not a comfortable one. I as observed first hand that people have an adverse affect to indoor warm and stuffy conditions. Lower the indoor temperature a few degrees and everybody is happy.

We'll enough history for now. As I asked in last month's president's corner for volunteers to disseminate some HVAC industry technical knowledge, let me ask again, is there anyone willing to write a technical article? If so please contact me. I will be handing out a reward for any volunteer. Until next month!

Your El Presidenta,

Richard B. Long, P.E. LEED® AP

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FRANLIN BROWN

SPEAKER'S BIO:

Franklin J. Brown, A.I.A.

Mr. Brown practiced architecture in the private sector for 22 years before joining the Department of Education in 1996 where he administered projects under the Classroom Facilities Assistance Program.

He joined the staff of the School Facilities Commission as it was founded in 1997. As a Project Administrator for the OSFC, he administered approximately \$1/2 billion in school construction in the northeast quadrant of Ohio and currently functions as a Director of Planning.

He has served on the authors committee for the School Facilities Design Manual since 1997 and continues to manage the annual updating process.

Mr. Brown has managed the State Energy Conservation Program known as HB-264 since 1996.

PRESENTATION TOPICS:

- The Maintenance Plan Advisor and Commissioning Programs
- What system components are most frequently being selected
- New vs Renovation / Addition projects, how the standards differ
- OSFC becoming an Energy Star Partner
- Geothermal WSHP Projects
- Displacement-based Ventilation
- Occupancy-based Ventilation

CPD REQUIREMENTS IN 2007

A long time in coming, but beginning in just 2 years, the State of Ohio will require CPD in accordance with the National Council of Examiners for Engineering and Surveying National Model Law.

Attend the Chapter Meetings and receive PDH's or CEU's! Here's how it works; for every 50 minutes of instruction time at our monthly meetings, you could receive 1 Personal Development Hour (PDH), with additional time for the longer speakers. Ten (10) PDH's = One (1) CEU. Attend all the meetings and receive One (1) CEU! This is an easy way to get an extra CEU. We plan to issue certificates based on meeting attendance (PDH or CEU) based on number of meetings attended. Please notify Anne Sosic if you are interested in receiving a certificate at the year end meeting in June.

PDHs may be earned by any combination of the following methods:

- Attending or teaching relevant courses, seminars or workshops (1 PDH per hour attended)
- Authoring relevant published papers, articles, or books (10 PDH each)
- Being an officer or active committee member of an engineering or surveying society like ASHRAE (2 PDH per year per society)
- Completion of relevant college courses (1 Quarter hour = 30 PDH, 1 semester hour = 45 PDH)
- Obtaining a patent (10 PDH each)

ENGINEER'S WEEK:

Engineer's week is the 20-26th of February.

This year lets make a difference to perspective students in our industry by being a mentor to a student for a day. Being a mentor will help the bright minds of tomorrow develop interests in our industry today. Please call Greg Shoof from CSU at 216-687-5272 if you are interested.

Engineering Expo 2005 ***At the Great Lakes Science Center***

Don't miss the 4th Annual Engineering Expo on Saturday, February 19, 2005, at the Great Lakes Science Center! As part of the Cleveland-Area National Engineers Week activities, area universities, engineering associations, community organizations and businesses are invited to sponsor and staff tables at the Expo, where kids, teens and adults are encouraged to visit and learn more about the engineering profession by talking with engineering professionals at the Expo.

When: Saturday, Feb. 19, 2005
Time: 10 a.m. to 4 p.m.
Where: Great Lakes Science Center,
Gund Wintergarden Promenade Level

Chapter Calendar:

**Happy
New Year**

Feb 21, 2005 Green Panel Discussion
Joint Meeting w/ Akron

Location: Holiday Inn,
Richfield?

March 21, 2005 Acoustics, Art Halstrom
Trane

Location: Harry's Steakhouse

In memory of:

Beverly Rubin, wife of Bob Rubin, died Sunday, December 12, 2004 at the end of a struggle with Alzheimer's Disease. Bob Rubin was President of the Cleveland Chapter of ASHRAE in 1962-63, and retired as President of Feldman Mechanical Contractors. Bob also long played a prominent part in the Mechanical Contractors Association, where He and Beverly worked as a team. Beverly's Memorial Service was at Suburban Temple on January 19, and it was a tribute to both Beverly and Bob that it was well attended by the Mechanical Construction Industry, including ASHRAE members, who drove through white-out conditions to be with Bob.



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ASHRAE Cleveland Chapter

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