



# CLEVELAND ASHRAE IMPACT

February, 2004

## FEBRUARY MEETING

**Wednesday February 11, 2004**

### **Distinguished Speak Night**



Time:	4:15 - 5:30 PM	Board of Governors Meeting
	5:30 - 6:30 PM	Attitude Adjustment
	5:45-6:15 PM	Mini-Seminar
	6:30 PM	Dinner (\$25 for Non-Members)
	7:30 PM	Featured Presentation:

Mini-Seminar:

Chilled and Cooling Tower Water Filtration

Main Topic:

ASHRAE In a Changing World

Speaker:

Bill Harrison, Vice President ASHRAE

Location:

Richfield Holiday Inn, Route 21

*R.S.V.P. To Sally at (216) 251-3094 by 12:00 Noon on **Monday, February 9<sup>th</sup>**, for Reservations*

*Dress Attire is NOW Business Casual*

### **ASHRAE IN A CHANGING WORLD -BUILDING SERVICES AND REFRIGERATION**

Slide rules and ruling pens were used in design and drawing of buildings in 1975. In 2000 they had been replaced by computers and computerised drafting systems. In 2020 the change will be even more dramatic.

The majority of buildings in 2020 have already been built or will be refurbished before that time. Lessons in the technology of buildings and in the whole procurement process from around the world will be presented. Is the USA unique in the demands placed on the internal environment? Why are so many building owners and occupants dissatisfied? Is standardization of systems and manufactured equipment a solution to the gap between design philosophy and operations and maintenance? What is the impact on international standards of American concerns on homeland security, green buildings and mold?

ASHRAE, with 55,000 members of whom 5,000 sit on committees which write guidance materials and standards, has resources to have an impact on the design of the technology, the shape, fabric and structure of buildings and the way food is stored and processed. It's members can rise to the challenge of excellence.

**This Month's  
Sponsor:**

**R.L. Deppmann Company**

5145 Brecksville Road, Suite 101  
Richfield, OH 44286  
Phone (330) 659-0200  
FAX (330) 659-0365  
Website: [www.deppmann.com](http://www.deppmann.com)



TEAM SOLUTIONS FOR THE HYDRONIC AND STEAM INDUSTRY

## Officers and Committee Chairmen

2003-2004

### Officers and Board of Governors

President	Dale VanLehn
Vice President	Richard B. Long
Treasurer	Brian P. Chambers
Secretary	Kenneth F. Borah
Board of Governors	Kenneth Wissner Richard A. Zbin Matt Nelson
Region V Director	James Escamilla

### Committees and Chairs

Programs	Richard B. Long Chuck Nachman
Meeting Host	Kevin Kindbom
Membership	Frank Eisenhower
Roster	Frank Eisenhower
Product Directory	Daniel J. Bacik
Research Promotion	Richard Zbin Ken Wissner
Newsletter	Andrew Tenhundfeld
Student Activities	Scott K. Jordan
Honors & Awards	Fred H. Hollman
Historian	Dave Deschler
Science Fair	Steven R. Armstrong
Technical, Energy & Gov't Activities	Matt Nelson
Sal Traina Scholarship Fund	Adrian Keefe Edward JayJack Jerald K. Cohen
Golf Outing	Louis A. Bentzen
Engineer's Week	James G. MacMillan
Special Events	Mike Denk
Budget & IRS Compliance	Fred H. Hollman
Sunshine Fund	James W. Wickert
"Markets to You" Product Show	Jerald K. Cohen
Mentoring	David A. Deschler
Bill Gardiner Scholarship Fund	Gary Gardiner Joe Denk Jr. Mark Stefanek

## *The President's Message*

by *Dale A. VanLehn*

**Do you care about the industry we work in?** Want to make the indoor climate a better environment and living atmosphere? I chose this industry after college because it was a very practical one and affected everyday items and ways that we live. And I'm glad that I did because it is one of the most down to earth engineering professions. We are not rocket scientists, aerospace engineers, automobile designers, or machine designers, but in a business our friends and family can relate to. I know my wife makes fun of me because I'm always looking at the ceiling or roof of a new facility when I visit, but she thinks it is interesting too.

Our February speaker will be Bill Harrison, an ASHRAE Vice-President. He is filling in for Richard Rooley, ASHRAE President, who sidelined in England after recent surgery and had to postpone his tour of the Midwest ASHRAE chapters. Bill will be delivering President Rooley's message that he wanted to share with us.

The talk will be for those of you who care about this industry and it's future. It will not a technical one, nor a chance to see what the competition's ideas are. If you don't care to know about our future, I suggest you stay home!

I hope to see all 400 some local members at the meeting

## BIO ON BILL HARRISON

Joined the Trane Company in 1965 as Sales Engineer Trainee. Assigned to Shreveport, Louisiana, Trane Sales Office in 1966. Served as Sales Engineer, Engineering Sales Manager, General Sales Manager. In 1983, appointed District Manager for Trane's Little Rock, AR, Commercial Sales Office. William A. Harrison, Inc. formed in 1983 to operate Trane sales and service agencies in Arkansas.

President, Shreveport Chapter 1972  
Regional Conference Delegate 1973, 1975, 1981  
Society Nominating Committee 1985 / 1989  
Regional Award of Merit, 1991  
Research Fund Chairman, AR Chapter 1986, 1989  
Regional Vice Chairman for Refrigeration 1994 / 1997  
Vice Chairman of Refrigeration Committee 1997 / 1998  
Director and Regional Chairman for 1999 / 2002  
Finance Committee 2002 / 2005  
Vice President 2003 / 2005

# MARKETS TO YOU PRODUCT SHOW

Mark your calendars – April 19, 2004, is the date set for the ASHRAE annual joint Cleveland and Akron-Canton chapter event, the Markets to You Product Show and Seminars. Please find the registration flyer in this newsletter for more information. If you are interested in setting up a table at the show, complete your registration form and forward with your payment as soon as possible.

This year the location of the event is changing to the Holiday Inn at Richfield, Ohio. We are looking forward to another exciting event with informative technical seminars and our local representative firms showcasing their products at the show.

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## NATIONAL ENGINEERS WEEK 2004:

By Jim MacMillan

National Engineers Week 2004 will be celebrated February 22-28, 2004.

Engineers Week was created by the National Society of Professional Engineers to celebrate and promote the contributions of engineers to society and our quality of life.

Included with this newsletter is a flyer for the 2004 Awards Reception. The reception will be held at the Great Lakes Science Center and includes food, cash bar, awards, and special demonstrations by the Science Center staff. It should be entertaining for the engineer and non-engineer alike.

Also, look for a special section devoted to engineers in an upcoming edition of the Cleveland Plain Dealer.

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## CHAPTER PROGRAMS CORNER:

By: Chuck Nachman

January was another strong meeting. Our speaker for both the mini-seminar and main-seminar was Mr. Peter Thomsen of S.A. Armstrong. His pump curve seminar was gave some good basic information about how to read pump curve and the information that is displayed. Then able to show the effects on the curve of partial flow effects and the difference between constant flow pumps and variable flow pumps. The main seminar started off with a description of packaged pumping systems and the possibilities of how complicated they can become and how this system has been growing in the industry the last 4 years. The discussion of Variable Flow Primary Systems versus variable Primary/Secondary Flow System. Peter gave a description of both system with describing what are the pros and cons of each system and what are the critical items to take into account for each one. He then finished with discussion about the importance of the integrated pump logic control and the importance of proper placement of pressure sensors. This was one of the better technical seminars that has been presented to our chapter this year. We look forward to another educational experience at next months meeting.

## HOMELAND SECURITY FOR BUILDINGS

ASHRAE has just announced the date for a satellite broadcast on the topic of Homeland Security for Buildings. The date is Wednesday, April 14<sup>th</sup>, with the broadcast airing from Noon to 3 p.m EST. Please reserve this date, because our chapter will be hosting a site for this broadcast and you won't want to miss it. The details of this will be included in the next newsletter so stay tuned. In the meantime, here's what an ASHRAE brochure says about the broadcast:

*"Multiple hazards and threats intersect within a building, and critical questions concerning the danger of chemical, biological or radiological (CBR) attacks remain. This broadcast will address questions of design, construction and operation of buildings. The primary goal is to address the key issues related to building protection from CBR incidents and draws heavily from ASHRAE's most credible and timely reports and publications."*

Additionally, if there are any members that know of possible locations (for free or for fee) capable of hosting a satellite broadcast for future events please contact Matt Nelson at [mnelson@brewer-garrett.com](mailto:mnelson@brewer-garrett.com) or 440-243-3535. This information is critical because of scheduling conflicts that may arise at current locations.

## TEGAbytes

The website has been recently updated with information about our Technology Transfer Library (TTL), so go to [clevelandashrae.org](http://clevelandashrae.org) and check it out, you may be surprised at what it has to offer.

Members interested in submitting an entry for the Technology Awards please contact Matt Nelson. Please help represent our chapter in society by taking the time to submit an entry. Also, anyone who would like to submit for a Refrigeration Award please contact Matt Nelson as well. Not familiar with the Refrigeration Award? It's main criteria is that the submitted project involves non-comfort cooling applications, such as, process cooling, ice rinks or food storage just to name a few. If you have any questions or if you need help filling out submission forms please don't hesitate to contact Matt Nelson. Forms can be found online at [clevelandashrae.org](http://clevelandashrae.org) under TEGA.

It's that time of year again and we're putting together our chapters Government Activities submission. So that means we need your help to let us know all the great things that you are doing in our community. If you serve on a city council or schoolboard or even attend these types of meetings regularly let me know! It's really as easy as sending me an email to call you, so I can get the necessary information.

You can contact Matt Nelson, the TEGA chair, at either [mnelson@brewer-garrett.com](mailto:mnelson@brewer-garrett.com) or by calling 440-243-3535 for any questions, concerns or additional information above



# HISTORY OF CLEVELAND COMPANIES

## TEC INC

TEC, Inc. is a professional corporation founded in 1983 by Terrance M. Kilbourne in association with an environmental engineering firm. In 1985 Terrance M. Kilbourne and Anton J. Eichmuller purchased the outstanding shares of the corporation becoming the firm's President and Vice President, respectively, forming what is now TEC, Inc., an independent mechanical and electrical consulting engineering firm.

In 1990, TEC, Inc. became a partnership with the partners sharing in ownership and operation of the firm.

TEC, Inc. originally began with a total staff of two (2), primarily providing electrical engineering services for water and waste water projects. Within 1-year the firm had grown to a staff of nine (9) with the added capability of providing mechanical engineering services. Projects soon included large commercial, institutional, and industrial facilities. Today, TEC, Inc. provides electrical, mechanical engineering, and lighting design services for commercial, industrial, and institutional facilities throughout Ohio and has completed work throughout the United States and even the world.

In May of 1986 the firm moved from its original offices in Willoughby to facilities at Center Plaza South, Eastlake, Ohio. In 1989, TEC Inc. custom designed what is now our present office space at 33851 Curtis Boulevard, Eastlake, Ohio. In 1995 this office space was nearly doubled through a major remodeling and expansion project.

TEC, Inc. employs a staff of highly professional and talented Engineers, Designers, Draftspersons, Office, and Support personnel. TEC, Inc. has an outstanding record of continuing growth by new and repeat business, expansion of services offered, and of providing only top quality services to our clients.

# 2004 Markets To You Show

Cleveland & Akron Chapters-Northeast Ohio Product Show

**Monday, April 19, 2004**

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## **Holiday Inn Richfield - Ohio Turnpike & I-77**

Schedule:	12:00 AM – 3:00 PM	Exhibit / Display Setup
	3:00 PM – 8:00 PM	Product Show & Seminars
	3:00 PM – 8:00 PM	Cash Bar & Hors d'oeuvres

Please return this form with your registration fee. Please list your company name, as you would like it to appear in the newsletter and program, (or simply attach a business card to the form).

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_ Fax: \_\_\_\_\_

We would like to sponsor a seminar speaker: Yes \_\_\_\_\_ No \_\_\_\_\_

Subject: \_\_\_\_\_

Displays:  
Single: \$175.00 \_\_\_\_\_  
Double - \$250.00 \_\_\_\_\_  
Triple - \$325.00 \_\_\_\_\_

Will you require electricity? Yes \_\_\_\_\_ No \_\_\_\_\_

### **BRING EXTENSION CORDS AND TAPE TO COVER CORDS.**

Make checks payable to "ASHRAE Cleveland Chapter – Markets to You Show"

Mail or fax to: Jacco & Associates

**Deadline March 1<sup>st</sup>, 2004**

Attn: Brenda Homjak  
61 Milford Drive  
Hudson, Ohio 44236  
Phone: (330) 463-0100, Ext. 105  
Fax: (330) 463-0101  
**Email: [brendah@jacco.com](mailto:brendah@jacco.com)**



## ***Chapter Calendar:***

**Mar 17, 2004 Breakfast Meeting**, Cold Air Distribution

Location: Holiday Inn at 77 and Rockside. 7:15-9:00 AM

April 19, 2004 “Markets to You” Product Show

Location: Richfield Holiday Inn

May 17, 2004 Past President’s Night, Dedicated Outside Air  
Systems with Distinguished Speaker: Dr. Stan  
Mumma, Penn State

Location: Harry’s Steak House

June 15, 2004 Membership Promotion Outing

Location: Tanglewood Country Club

Visit Cleveland  
ASHRAE’s  
Website and check out  
our Technology  
Transfer Library

**WWW.CLEVELANDASHRAE.ORG**



**CLEVELAND  
ASHRAE IMPACT**

### ***ASHRAE Cleveland Chapter***

*9000 Bank Street*

*Valley View, Ohio 44125*

*Attn: York International*

*Andrew Tenhundfeld*

*Andrew.tenhundfeld@york.com*

*216-524-3589 Fax*

*216-447-0696 Ext. 119*



# Presenting the Greater Cleveland National Engineer's Week 2004 Award Reception

*Please join us for this fabulous occasion!*

Date: Friday, February 27, 2004

Place: Great Lakes Science Center

Time: 6:30 – 9 pm

We'll Celebrate Cleveland's Technical  
Talent by recognizing:

- ◆ "Engineer of the Year"
- ◆ "Young Engineer of the Year"
- ◆ "Student Engineers of the Year"

*Plus winners of the Egg Drop and  
College Display Contests*

*"Connecting the World to Engineering"*

**2004 Award Reception:**

**Friday February 27, 2004  
6:30-9 pm**

**Heavy Hors D'Oeuvres and Cash  
Bar**

**Cost:**

Individual(s) \_\_\_\_\_

\$35

Awards Sponsor\* \_\_\_\_\_

\$500 \*includes Sponsorship of Scholarship awards, 4 reception tickets, and acknowledgement in the award reception program.

Table Display Sponsor\* \_\_\_\_\_

\$250 \*includes a display / promotional table at the Engineering Expo (Feb. 21) or the Awards Ceremony (Feb. 26), 2 reception tickets, and acknowledgement in the award reception program.

Student Ticket Sponsor\* \_\_\_\_\_

\$100 \*donation will be used to offset the cost of 4 student tickets to the Awards Ceremony.

Name/Title: \_\_\_\_\_

Company/Organization: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email Address: \_\_\_\_\_



**Make check payable and mail to:**

Greater Cleveland National Engineers Week Committee  
c/o Malcolm Pirnie Inc.  
1111 Superior Ave, Suite 1010  
Cleveland, Ohio 44114

**\*\*Pre-Registration and payment is required by 2/26**

Contact: Angela M. Jones (216) 912-2139 fax: (216)  
912-2126 or the CES office (216)361-3100 fax:216-361-  
1660.