



THE ILLINOIS INTERCOM

Published by the Illinois Chapter, American Society of Heating, Refrigerating and Air-Conditioning Engineers

March, 2001

Vol. 41 — No. 7

Upcoming Events

March 12, 2001, Monday

Monthly Meeting

New Topic:

HVAC Electronics: How Much Should Designers Know?

Costa's Restaurant, Chicago's Greektown

April 9, 2001, Monday

Afternoon Seminar &

Monthly Meeting — Student Night
BACNET

Avalon Banquets, Elk Grove Village

April 26 - 28

CRC 2001 (Chapters Regional Conference)

Region VI

Raddison Metrodome

Minneapolis, Minn.

May 14, 2001, Monday

Afternoon Seminar &

Monthly Meeting

Cooling Towers

Com Ed Auditorium, Oak Brook

Illinois Chapter to sponsor BACnet seminar before April 9th monthly meeting. (See enclosure for details.)

March 12 Meeting:

HVAC Electronics: How Much Should Designers Know?

How often do you get involved in electrical discussions and wish you had a better understanding of electricity? Many of us with mechanical backgrounds get placed in positions that require us to have a sound grasp of key electrical components and related industry issues. HVAC work requires mechanical designers to work with electrical designers, yet having a working knowledge of electrical issues is valuable.

Our featured program at the March 12 meeting will speak to mechanical and electrical designers. It will cover important electrical topics relative to centrifugal chiller starters. Our presenter will be Andy Nordeen, senior marketing engineer for centrifugal chillers, with The Trane Company, LaCrosse, Wisc.

We will begin with background on starter types and frequency drives and compare them. Then we will discuss two important electrical application issues associated with centrifugal chiller starters that are often encountered. The first deals with protecting the starter and, more importantly, HVAC equipment room occupants from potential electrical hazards. The topic is the starter short rating. This rating describes the ability of the starter to "withstand" a large short circuit from the utility without exploding and blowing off the door. This issue is not very well understood, and we will explain it using simple examples. The second issue relates to the use of frequency drives on chillers. The impact of frequency drives on the power system harmonic levels will be discussed.

Members and guests are invited. Advance reservations are requested. If you would like to attend, please call in your reservation(s) ahead of time, if possible. It's easy to make reservations. Just pick up the telephone and call our meeting reservations line at (708) 636-3604 at any time of the day or night. Please call ahead and let us know you will be coming.

March 12 Dinner Meeting

- Place:** Costa's Restaurant
340 S. Halsted St.
Chicago, IL (Greektown)
- Time:** 5:30 p.m. — Cocktails
6:30 p.m. — Dinner
\$25 per person in advance
\$30 at the door
- Topic:** "HVAC Electronics: How Much Should Designers Know?"
- Speaker:** Andy Nordeen, Trane Company

For reservations, call (708) 636-3604

Presidents Message



Well, the bad news is that the ground hog saw his shadow, which means six more weeks of winter. The good news is this: you can get out of the cold by joining us at our next meeting at Costa's in Greektown. OOPPA!

If you didn't make last month's chapter meeting and *Excellence in Engineering Awards Night*, you missed a good one.

Jim Wolf, ASHRAE President, was on hand to present the awards and to give a presentation on "Climate Change." Jim disappointed none of the 100 plus in the audience that night. (If you missed this presentation, you can still view it at <http://www.confex2.com/ashrae/wolf2>.)

Sustainable Engineering and Climate Change was a major theme at January's ASHRAE Annual Meeting in Atlanta. To help promote this message even further, we held a seminar on Sustainable Engineering prior to the February meeting. During this seminar, a case study of the new Searle Q-Building was presented. Based upon feedback from the attendees, we are attempting to arrange a tour of this innovative

"Green Building." I wish to thank the speakers at this seminar, especially Bill Kosik and Michelle Halle-Stern (from OWP&P) who put this program together for our Chapter.

During his visit to Chicago, President Wolf and I were able to visit with several engineering firms to find out how ASHRAE can better serve them. We received some very good feedback. Jim and the other officers at ASHRAE are very interested in what you think. If you have any comments or suggestions, please e-mail me, and I'll forward them onto the Society president.

Lastly, Mr. Wolf emphasized the importance of 100 percent committee involvement. It comes down to this: "If you do not volunteer for a committee, you will be assigned one." (Well...I won't go that far!) But Jim feels that every member has an obligation to participate in the Chapter's operations, even if it is only as a corresponding committee member. So if you do not presently hold an office, serve on a committee, or wish to join another, please call or e-mail me, and I will guide you towards a committee you may be interested in.

Michael Kuk, Illinois Chapter President
Telephone: 630-684-3771
E-mail: Michael.Kuk@exeloncorp.com

Progress Report:

Engineering Intern Program Forms Advisory Committee

By Thomas J. McNamara
Education Committee Member

The Curriculum Advisory Committee for the Engineering Assistant Intern program has been formed and consists of Mike McDermott, Dick Hegberg, Dan Doyle, Roy Ahlgren, James Whalen and Tom McNamara.

The Advisory Committee met once in January to discuss a course curriculum for the Engineering Assistant Intern program to be presented to the Oakton Community College (OCC) staff at a meeting at the college. The meeting was very active and generated much input from all members. Another meeting was scheduled where members could provide additional input.

The Advisory Committee met again on Feb. 9. At this meeting, the Committee adopted a list of Engineering Assistant Intern Job Descriptions to be used to evaluate whether or not the pro-

posed Draft Curriculum will provide the required training to meet all Intern employment options. The Job Description data was adopted, and the Advisory Committee then revised the proposed Draft Curriculum for the Program so that it would meet all the options.

Next the Advisory Committee met with the OCC staff at OCC on Feb. 14. After a thorough discussion of the proposed Curriculum Program, Chad Ganger (OCC staff member) indicated that the next step is for him to present the proposed Curriculum Program to the OCC Curriculum Board for their review and approval at the next Curriculum Board meeting.

To date a total of 16 employer pledges for Intern summer employment for the summer of 2002 have been received. This exceeds the required total of 15 Intern employment pledges. As an expression of ASHRAE's appreciation, recognition of the employers who provide summer intern employment for students in this program will be awarded the James E. Wolf Presidential Award of Excellence for Student Intern Sponsorship from the Illinois Chapter.

Additional employer Intern sponsors can contact Tom McNamara at (847) 573-1717 or at tom_mcnamara@lmconsultants.com (e-mail) to register their pledge for future Student Intern employment, or for further information. You can also contact Chad Ganger at Oakton C.C. at (847) 635-1955 for information.

"R IN ASHRAE" Plant Tour Planned for April

We are planning to tour the Anthony Marano Company's new 200,000 square foot product distribution facility on the afternoon of Tuesday, April 24, 2001. This facility, located at 3000 S. Ashland Ave. in Chicago, includes 94,000 square feet of cooler area. The cooler area is made up of eight tomato-ripening rooms, ten fruit and vegetable rooms, and six banana rooms. The refrigeration plant consists of a 700-ton, low-charge ammonia/glycol system using screw compressors with low noise motors, welded plate and frame heat exchangers, and variable speed glycol pumps.

The tour is being arranged by John Sanchez (Epstein & Sons International)

Wanted: Summer 2001 Student Internship Employers

The Illinois Chapter education committee is still seeking company sponsors to provide summer jobs for Chicago-area engineering college undergraduates and technical students seeking to gain experience in the HVAC field.

Thus far seven companies have come forward to pledge employment of at least one intern for the summer of 2001. (This program is separate from the one being developed with Oakton Community College, which is also reported on in this newsletter. The OCC program will not begin operation until 2002)

The names of 2001 internship companies are:

ComEd	Nicor
Environmental Systems Design	Northern Weathermakers
Grumman/Butkus Associates	Temperature Equipment corp.
McGuire Engineers, PC	

"Even just one intern per company, would be a great show of support," said Mike McDermott, program coordinator. "We're not pressuring anyone to accept 20 students or any minimum number."

The list of company sponsors will be given to our ASHRAE student branch advisers and publicized through the Illinois Intercom newsletter and Illinois Chapter web site <www.chicagosite.org/ashrae.htm>.

Participating companies will receive the James E. Wolf Presidential Award of Excellence for Student Intern Sponsorship. They will also be honored at the ASHRAE Illinois Chapter spring "Student Night" dinner.

Please send your company name, address and contact person, to Illinois Chapter ASHRAE headquarters, P.O. Box 42-8020, Evergreen Park, IL 60805. E-mail to: dkdoherty@chicagosite.org.

For additional information, contact Mike McDermott at (312) 456-2232.

and will include dinner followed by an explanation of the facility's mechanical systems. For additional information, contact John Sanchez, Epstein & Sons, Tel. (312) 429-8356.

ASHRAE Notes Worth Noting...

ASHRAE Changes Garland Award Rules...

Ron Vallort announced changes in the "Milt Garland" Award at a recent TEGA Committee meeting. It is now similar to the Technology Awards program — requiring a write up as to why a member's job should be considered. Ron will supply details to everyone via e-mail and in future issues of Intercom. Ron can be contacted at (630) 734-3821; e-mail: ronvallort@aol.com.

ASHRAE E-Mail Aliases <<http://members.ashrae.org/member-alias>>...

The ASHRAE e-mail Alias System is offered as a free benefit to all members. They may create their own ASHRAE e-mail alias (i.e., my_alias@members.ashrae.org). Future e-mail sent to this address will be forwarded to the "real" address of the member's choice. Members may also send my_alias@members.ashrae.org e-mail from their own e-mail program. The alias address allows members to continue receiving e-mail messages after they change companies or internet service providers (ISPs) and thus their real e-mail address. It will save significant time spent communicating address changes to everyone with whom they correspond.

What is a CRC? It's Something You Should See!

The acronym CRC stands for Chapters Regional Conference, an annual business meeting of chapters delegates and alternates in a region of ASHRAE. Do you think you know a lot about ASHRAE? If you have attended one or more past CRCs, you probably do. It features technical sessions, workshops on running an ASHRAE chapter, social activities, and other activities. This year, the Region VI CRC runs April 26 - 28 at the Raddison Metrodome Hotel in Minneapolis, Minn. Anyone can attend the CRC, and everyone is encouraged to participate.



(Left) ASHRAE president James Wolf congratulates Dan Stringfield, the winner of this year's Illinois Chapter scholarship. Stringfield, a senior at the University of Illinois-Chicago, hopes to pursue a career in Mechanical Engineering after graduation this year. The scholarship is awarded to at least one deserving student each year.

Honeywell

Douglas Benker
Building Application Specialist

**Variable Speed
Drives & Controls**

Home and Building Control
Honeywell
7807 W. 166 Place
Tinley Park, IL 60477

708 444 2488
708 444 2489 Fax
708 203 5730 Cell

Doug.Benker@honeywell.com

G. V. ZINTEL Associates, Inc.

Quality Air Treatment Specialties - Since 1964

Representatives of the Following Manufacturers:

Blender Products, Inc. • Enviroco Corporation • Industrial Louvers, Inc.
Munters Corp. Dehumidification Div. • Precision Air Products, Inc.

Quality Air Treatment Specialties since 1964
Members ASHRAE & MANA

1719 Illinois Road
Northbrook, IL 60062

Phone: 847-509-9500
Fax: 847-509-9510
E-mail: gvzintel@aol.com

Congratulations to the Winners!

2000 Excellence in Engineering Awards



(L-R) Illinois Chapter President Mike Kuk, Mike Lee, Rick Schnelle, and ASHRAE President Jim Wolf.



(L-R) ASHRAE President Jim Wolf, Harry Budge, Sergie Cano, Dick Kviz, John Kochan, Brendan Bates, Mick Ponx, and Illinois Chapter President Mike Kuk.



(L-R) ASHRAE President Jim Wolf, Bill Ammons, John Mazurek, Steve Kent, Wayne Kryns, Bruce Svec, and Illinois Chapter President Mike Kuk.

The 10 winners each received commemorative plaques at the Feb. 5 meeting, held at Avalon Banquets in Elk Grove Village.

Tom Kroeschell, emcee of the ceremony, introduced the recipients and their award-winning projects to more than 100 members and guests. The winners were also congratulated by James Wolf, current president of ASHRAE, who made a special trip to Chicago for the ceremony. The Excellence in Engineering Awards are presented annually by the Illinois Chapter to pay tribute to the outstanding work of members of our design community.

We salute the winners!



ASHRAE President Jim Wolf not only passed out awards but also delivered a thought-provoking talk on climate changes and the impact they will have on design of indoor comfort systems.



(L-R) Illinois Chapter President Mike Kuk, Dan Barran, Chris Benjamin, and ASHRAE President Jim Wolf. (Missing is Colin Oakley.)



(L-R), Illinois Chapter President Mike Kuk, Al Youna, unidentified person, Tom Kelleher, John Berzanskis, Jon Murray, and ASHRAE President Jim Wolf. (Missing is Colin Oakley.)



(L-R) ASHRAE President Jim Wolf, Charles Eggert, Pat Knightly, Bill Kosik, Mike Yoshimura, Leonid Elterman, and Illinois Chapter President Mike Kuk.



(L-R) ASHRAE President Jim Wolf, Dan Becker, Gwendolyn Morrison, Eric Hogberg, Paul McGrath, and Illinois Chapter President Mike Kuk.



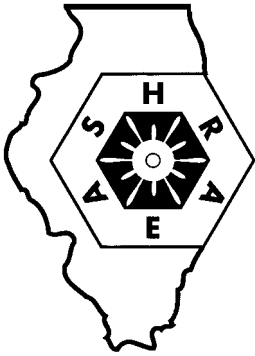
(L-R) ASHRAE President Jim Wolf, Prem Mehrotra, Steve East, Greg Sandman, Keith Kummerow, Susan Martig, Paul Kuczek, Andy Mehotra, Bret Austin, and Illinois Chapter President Mike Kuk.



(L-R) Illinois Chapter President Mike Kuk, Gael Syoen, Bud Spiewak, Mark Fini, and ASHRAE President Jim Wolf.



(L-R) ASHRAE President Jim Wolf, Mike Murphy, Gerry Noorts, Dan Doyle, Chuck Meikel, Roger Allen, and Illinois Chapter President Mike Kuk.



How Practical is BACnet?

Illinois Chapter ASHRAE seminar

April 9, 2001

Afternoon Seminar

Registration: 1:30 p.m., Seminar 2 - 5:30 p.m.

Avalon Banquets

1905 E. Higgins Road

Elk Grove Village

(847) 439-5740

BACnet Project History . . . (Speaker to be announced)

Device Integration Mark Hess, Trane Company

Lon vs. BACnet Terry Hoffman, Johnson Controls, Inc.

Specifying BACnet (Speaker to be announced)

Get the full picture by staying for the Illinois Chapter monthly dinner meeting, which begins immediately after the seminar at Avalon Banquets. After dinner, Dr. Gus Battles of the University of Chicago will talk about "Integrating Your Site with BACnet - Why?"

Cost: Afternoon Seminar: \$25/\$30 at door

Dinner: \$25/\$30 at door

Reservations may also be made by calling (708) 636-3604 or online at www.chicagosite.org/ashrae.html (go to "Upcoming Events" area).

Illinois Chapter ASHRAE Presents:
How Practical Is BACnet?

Register me for:

Seminar

\$25 per person

Dinner meeting

\$25 per person

(Above are pre-registration prices.)

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone No. () _____ Fax () _____

Please mail your completed registration form, with check payable to Illinois Chapter ASHRAE, to P.O. Box 42-8020, Evergreen Park, IL 60805-8020. Forms may also be faxed to (708) 636-5847. For additional information, call (708) 636-5819.



Spiro Safe Systems
Spiro Vent Systems
Round Duct Registers
E.H. Gustafson Specialties

W.S. Bodinus
Jon Hildebrand

Lindab, Inc.
5115 Suffield Terrace
Skokie, IL 60077-1599

Phone: (847) 967-2600
Fax: (847) 966-5662
E-mail: wbodinus@lindabusa.com

**Staefa
Control
System**

THERMODYNE
MECHANICAL SERVICES, INC.

2283 Carlson Drive
Northbrook, IL 60062
847-291-9101 Fax 847-291-9115
Mobil 847-767-9865
email: b.miedler@thermodynomech.com

Bert Miedler
President



AIR PRODUCTS EQUIPMENT Co.
1555 LOUIS AVE. ELK GROVE VILLAGE, IL 60007-2313
(847) 437-5952 FAX: (847) 437-8124
WWW.AIRPRODUCTSEQUIP.COM

EDWARD J. (NED) JENNETT JR.
Consulting Services

- Building Automation System Design
- HVAC System Training
- HVAC System Trouble Shooting
- HVAC System Commissioning

2622 Eastwood Ave.
Evanston, IL 60201-1518

Tel - 847-328-4417
Email nedjl@prodigy.net

RAECO
9324 Gulfstream Road
West Unit
Frankfort, IL 60423-2529

Tel. (800) 852-9795
Tel. (815) 464-6200
Fax (815) 464-8720

sales@raeco.com

or

www.raeco.com

*Environmental, Industrial Hygiene & Safety
Instrumentation*

Brucker
C O M P A N Y

1200 Greenleaf Avenue
Elk Grove Village, IL 60007-5519

**Manufacturers
Representatives and
Distributors of HVAC
Products and Equipment**

Tel: (847) 437-9690 / (800) 437-5225
Fax: (847) 437-0741

www.bruckerco.com



Illinois Chapter ASHRAE
P.O. Box 42-8020
Evergreen Park, IL 60805-8020