



THE ILLINOIS INTERCOM

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

January, 2003

Vol. 43 — No. 6

Upcoming Events

January 13, 2003, Monday

Monthly Meeting
Fluid Flow Design
Holiday Inn
Skokie, Ill.

January 25-29, 2003

ASHRAE Winter Meeting & Expo
Palmer House Hotel & McCormick Place

February 10, 2003, Monday

Afternoon Seminar
Open Building Control Systems
Integration and the Internet
Monthly Meeting
Excellence in Engineering Awards
Rosewood Banquets
Rosemont, Ill.

March 10, 2003, Monday

Afternoon Seminar &
Monthly Meeting
Refrigeration Topic
Costa's (Greektown)
Chicago, Ill.

March 20, 2003, Thursday

Tour of
SMACNA Training Facility Labs
Bellwood, Ill.

April 14, 2003, Monday

Afternoon Seminar &
Monthly Meeting — Legal Issues
Maggianos Little Italy, Oak Brook, Ill.

Jan. 13 Meeting:

Great Fluid Flow: It's a Balancing Act

This month's meeting looks not only at the design but trouble-free operation of mechanical systems. "*Variable Speed Pumping Systems: How Control Valves and Balancing Interact*" is the title of the featured presentation at our Jan. 13 dinner meeting at the Holiday Inn - Skokie. Sometimes the design of a system — for example how piping is laid out — can have an undesirable effect on its operation. We'll look at how a control valve affects flow through an entire system. What happens with balancing? What happens with flow? And how do these two interact? An ASHRAE technical paper on this topic will be on hand.

Our presenter is Mark C. Hegberg, an Illinois Chapter member and hydronics system instructor with ITT Bell & Gossett in Morton Grove. A past president of the chapter who has served as chairman and member of several committees, Mark is equally active at the Society level of ASHRAE. He is a member of GPC 11P, Methods of Test Building HVAC Control Systems, and TC 9.7, Testing and Balancing, which he formerly chaired. Past service includes the Standards Development Implementation Presidential Ad Hoc Committee, the Standards Committee and the Standards Project Liaison Subcommittee, and chair of several ASHRAE technical program sessions. He also served as general chairman of the 1999 Winter Meeting. Mark received a Presidential Award from the Illinois Chapter and TEGA Committee Best in Region VI awards in 1991, 1990 and 1989.

(Please note that there is no afternoon seminar preceding this month's dinner meeting, as previously published.)

Our meeting gets underway at 5:30 p.m. for cocktails. The Holiday Inn - Skokie is located near the intersection of Touhy Avenue and Laramie Street, a few blocks west of the Touhy Ave. exit of the Edens Expressway. From the western Chicago area, there is also an exit for Touhy Ave. on the Tri-State Tollway. From the Tri-State exit, go east to the Holiday Inn.

Members and guests are invited to attend. Advance reservations are requested. To make your reservation, contact our reservations line at (708) 636-3604. You can also make reservations online at www.chicagosite.org/ashrae/meetings.htm.

January 13 Dinner Meeting

Place:	Holiday Inn - Skokie 5300 Touhy Avenue Skokie, Ill. (847-679-8900)
Time:	5:30 p.m. — Cocktails 6:00 p.m. — Dinner & Program
Topic:	<i>Variable Speed Pumping Systems: How Control Valves and Balancing Interact</i> \$35 per person
Presenter:	Mark C. Hegberg, ITT Bell & Gossett
Chairman:	Jeremy Dickinson

For reservations, call (708) 636-3604

President's Message

I'd like to welcome everyone back after the holidays and into the new year. I hope everyone was able to relax for at least one or two days and enjoyed this special time of year. Now it's back to business. We have some major events ahead for this second half of the 2002-03 ASHRAE year. For example, in January we have not only our monthly meeting but also Society's winter meeting and trade show taking place in Chicago. Next month, the Illinois Chapter will be the lead engineering society for Engineers Week. In fact, we have a lot to



of time.

The Jan. 13 meeting will be a dinner meeting only. There will not be a seminar preceding the dinner. Our guest speaker, Mark Hegberg, will lead a discussion of *Variable Speed Pumps and Control Valve Interaction*. This sounds like a very interesting presentation. I can say personally that this topic has been a repeated concern among my customers as well as the company I work for, because explanations related to the topic often vary. Mark's presentation is based on an ASHRAE technical paper that has been peer reviewed by TC 6.11 and designed to get us all on the same page.

I am really looking forward to hearing Mark's talk. Later this year, Mark and the Education Committee will present a seminar on hydronic balancing that should help tie everything together. Look for more about this seminar in the February & March *Intercoms!*

The 2003 winter meeting and show is set for January 25-29. Please look over your issue of ASHRAE's *Insights*, which comes with your *ASHRAE Journal* each month, for a schedule of technical presentations and other activities. The winter meeting comes to Chicago every three years. We get the chance to see state-of-the-art equipment and controls. We get lots of new opportunities to be educated in new control strategies, codes, and standards. We get the straight talk we need to do our jobs right. We have access to experts who can answer our questions — and it's all in our own backyard! So don't let this opportunity pass you

by. Be proactive! Use all that this event has to offer to your advantage. If you don't, you will have to wait another three years for it to come back to Chicago.

February will bring our chapter's *Engineering Excellence Awards* presentation as well as *Engineers Week*. This year is very special because ASHRAE is the lead engineering society for Engineers Week. Be proud. This is our opportunity to shine and be recognized. Our industry may not be the most glamorous, but it will always be here. People will always need heating, cooling, and refrigeration. As ASHRAE members, we play a vital role in meeting these basic needs of society. I wrote an article for Engineers Week, and in it I mentioned some of the things that ASHRAE has already accomplished, and other things it will do in the future to improve the state of HVAC&R. I think it will surprise people to know just how involved ASHRAE is in their everyday lives. Engineers Week 2003 is for all HVAC&R professionals who help make our lives and our world a better, more comfortable, place to live in — and, yes, especially the winners of our Engineering Excellence Awards. Thank you for your contributions to this industry and for your membership in ASHRAE!

Finally, I want to thank all the past presidents, life members, and 50-year members who attended our Dec. 16th monthly meeting. As I said in my last message, this meeting was the most important meeting of the year because we were able to recognize the achievements of these truly exceptional people who have given freely of their time and talent to help make the Illinois Chapter of ASHRAE the largest in the world. There was one individual, however, who was conspicuously missing that evening, and I know he would have been present if he could have been. Mr. Bill Bodinus, our senior living past president (1945) and a regular at all our meetings, was unable to attend because he was in the hospital recovering from a mild stroke he had suffered the day before. Bill, our thoughts and prayers are with you. All of us wish you a speedy and complete recovery, and we look forward to seeing you again soon.

Again, welcome back everyone. I hope your holidays were happy and healthy. I wish you all much success in 2003, and I look forward to seeing you when we kick things off at the Jan. 13th monthly meeting!

Walter Kurzeja, Illinois Chapter President
E-mail: wally.kurzeja@us.belimo.com

Winter Meeting/Expo Offer Ample Learning Opportunities

The ASHRAE Learning Institute will offer an extensive selection of continuing education courses at the 2003 Winter Meeting in Chicago. The courses include two Professional Development Seminars (PDS), which will be held prior to the Winter Meeting and 11 short courses. The Professional Development Seminars will be held at the Palmer House Hilton prior to the Winter Meeting, and the short courses will be held at McCormick

Place. Each course carries PDH credit for engineers and AIA Learning Units (LU) hours for architects.

Preregistration is now closed. However, onsite registration for all courses may be made beginning Jan. 24.

The Pre-Conference Seminar topics include:

Saturday, Jan. 25

Optimizing the Design and Control of Chilled Water Plants - 6 PDHs/6 LUs

System Selection and Report - 6 PDHs/6 LUs

The Short Course topics are:

Sunday, Jan. 26

Life-Cycle Cost Analysis- 3 PDHs/3 LUs

Humidity Control I - Basic Principles, Loads and Equipment - 3 PDHs/3 LUs

Understanding and Designing Dedicated Outdoor Air Systems (DOAS) - 3 PDHs/3 LUs

Monday, Jan. 27

Determining Energy Savings from Performance Contracting Projects - Measurement and Verification - 3 PDHs/3 LUs

An Introduction to BACnet® - 3 PDHs/3 LUs

Introduction to Green Buildings and Sustainable Construction- 3 PDHs/3 LUs



Helen Kessler, AIA, Sieben Energy Assocs., explained the new ASHRAE Guideline 0, base document for total building commissioning, to members at the Dec. 16 monthly meeting, held at White Pines Golf Club in Bensenville. Also covering this topic was Bill Kosik, P.E., director of eng'g, OWP&P.

Tuesday, Jan. 28

Cooling and Heating Load Calculation Fundamentals – 3 PDHs/3 LUs

Fundamentals of Panel Heating and Cooling – 3 PDHs/3 LUs

Introduction to Project Management – 3 PDHs/3 LUs

Compliance with STD 90.1-2001 HVAC/Mechanical – 3 PDHs/3 LUs

Humidity Control II – Applications, Control Levels and Mold Avoidance – 3 PDHs/3 LUs

For more details of these program, visit the web site: <http://xp20.ashrae.org/EDUC/shortc.htm>

Tour Guides Needed

One of many activities during ASHRAE's Winter Meeting in Chicago later this month is a tour of the GD Searle Building, in Skokie. This event is planned for Sunday, Jan. 26, 12:30 – 5:00 p.m. The Illinois Chapter is coordinating this activity, which includes providing tour guides for the event. If you would like to volunteer to help, please contact Tom Kroeschell, 847-272-4626.

Society Seeking Sponsors for 2003 Winter Meeting

The Illinois Chapter Host Committee is offering companies a new marketing opportunity as banquet sponsors at the 2003 ASHRAE Winter Meeting in Chicago.

Several levels of sponsorship are available. For information, contact Ron Vallort at (630) 734-3821 or Mike McDermott at (312) 456-2232.

Carrier To Honor Bill Bodinus

During ASHARE's winter meeting in January, Carrier Corp. is planning a 100th anniversary cocktail party and trade show at the Four Season's Hotel at 900 N. Michigan Ave. At this event, Carrier is going to honor Bill Bodinus with a Lifetime Achievement Award. Bill was a long-time employee of Carrier and an associate of Willis Carrier. He has been honored with numerous ASHRAE awards including the ALCO award.

For further details, contact Ray Walker, 708-418-7847; email: ray.walker@tecmungo.com.

Engineers Needed To Help Students Build Future Cities

National Engineers Week, Feb. 16-22

In the National Engineers Week Future City Competition, middle school students create cities of tomorrow. Engineer mentors who volunteer in this increasingly popular program, however, say what's really being created are the engineers of tomorrow.

Now entering its 11 year, the Future City Competition invites 7th and 8th-graders to design cities on computers and in three-dimensional models. Guiding the students are teachers and local volunteers from every engineering

discipline. The immediate goal is to design a future city, but engineers have discovered the program also introduces many young people to the engineering profession, a career they otherwise may never have considered.

Students start designing their cities at the beginning of the school year, working during and after school and through holiday breaks. While Future City was once primarily an extracurricular activity, increasingly schools find it a perfect fit for math, science and technology courses.

Regional competitions are held in January. First place teams (including the engineer mentor) win all-expense paid trips to Washington, D.C., for national finals during National Engineers Week, February 16-22, 2003. The Grand prize is a trip to the U.S. Space Camp in Huntsville, Ala.

This year, National Engineers Week 2003 is co-chaired by ASHRAE and Lockheed Martin.

Engineer mentors guide the students from beginning to end, offering solutions to the problems as they crop up, which can happen with alarming frequency without proper precautions. Build a factory and employment rises, boosting tax revenues. That same factory, however, may increase pollution, forcing people to move away, thus decreasing tax revenues.

By sharing real world experience with the young people, engineers provide insights that help students face such challenges and resolve them. That encouragement often plants the seed of interest among students in problem solving, the heart and soul of engineering.

For information, contact Don Wittmer, Chicago Regional Coordinator, at (312) 930-9119, via e-mail at dwwittmer@hntb.com, or visit www.futurecity.org.

Tell Us What You'd Like to Learn...

Our always busy and productive TEGA Committee is already planning educational programs for the Illinois Chapter 2003-04 year — AND WOULD LIKE YOUR INPUT! Send your topic suggestions for future seminars to: Tom Kroeschell, Tel + Fax: 847-272-4626, or e-mail: trkpe@aol.com.



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

W.S. Bodinus
 David Shaeffer

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

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

Honeywell

Douglas Benker
 Building Application Specialist

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

Variable Speed
Drives & Controls

708 444 2488
 708 444 2489 Fax
 708 203 5730 Cell

Doug.Benker@honeywell.com



AIR PRODUCTS EQUIPMENT CO.
 1555 LOUIS AVE. ELK GROVE VILLAGE, IL 60007-2313
 (847) 437-5962 FAX: (847) 437-8124
 WWW.AIRPRODUCTSEQUIP.COM

EXHAUST & SUPPLY FANS
 GRILLES & DIFFUSERS
 GRAVITY VENTILATORS
 ELECTRIC HEATERS
 VAV BOXES
 SPIRAL DUCT

AIR FILTERS
 LOUVERS & DAMPERS
 ROOF VENTILATORS
 SOUND ATTENUATORS
 AIR CURTAINS
 KITCHEN HOODS

PHOENIX AIR CONTROL INC.

219 WILLIAM STREET • BENSENVILLE, ILLINOIS 60106

(630) 595-5050
 FAX (630) 595-5095



*Providing you with DDC Automation and
 Zoning Solutions for over 15 years!*

Steve Brasel
 steve.brasel@tecmungo.com

MAIN 708-418-0900
 Fax 708-418-5100

Cary Lee
 cary.lee@tecmungo.com

Heather Buchicchio
 heather.buchicchio@tecmungo.com



KEVIN J. BARR, PRESIDENT
BRIAN J. SUMMERS, VP



1111 W. 22ND STREET, SUITE C-10
 OAK BROOK, ILLINOIS 60523
 TELE (630) 574-2011 FAX (630) 574-2013
 CELL (874) 525-7800

Manufacturers Representatives of Industrial and Commercial Boiler Room Equipment



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