

Illinois Intercom

Newsletter of the Illinois Chapter of ASHRAE

October 2007, Vol. 48, No. 3



Student Night is Oct. 9

Seminar and meeting to look at Sensor Technologies and UIC Air Quality Testing Lab

Our 2007-08 meeting season hits high gear on Oct. 9 with an afternoon seminar followed by a dinner meeting at Chicago Greektown's popular Parthenon Restaurant, 314 S. Halsted St.. The afternoon seminar, 2-5 p.m. (1:30 p.m. registration opens), explores **Sensor Technologies**. Three presenters will talk about the following material.

Mike Bollant, of Automation Components, Inc. (ACI), will discuss the applications and advantages of available temperature, humidity and pressure sensors. Mike is ACI's sales engineer responsible for overseeing areas associated with control contractors, consulting engineers, government and pharmaceutical applications, new and existing sales, and customer service. He has also worked as a consulting engineer doing control applications. ACI is a Middleton, Wis., manufacturer of sensors.

Stanley Conquest, of QEL, will explain various gas sensor technologies (solid state, electrochemical, catalytic bead, and infrared), their limitations (environmental effects), and applications. He'll describe how to specify a gas detection system (quantity of sensors per area, installation height of sensors etc.). CO, CO₂, NO_x, and refrigerant detection will be covered. Stan is the sales and marketing manager for QEL, a Canadian gas detection manufacturer. He has been with QEL for six years involved with new applications and new product development. He is responsible for domestic and international sales. He has been involved in instrumentation applications and sales for the past 20 years.

Pick up	
Seminar	Meeting
3 PDH	1 PDH
Professional Development Hours	

Arlene Campbell, of GE Sensing, will discuss wireless sensing (humidity and temperature) and data collection tools, their use in building commissioning and maintenance, and detailed application examples. Arlene is the Central Region's sales manager for GE Sensing, which manufactures humidity, temperature, pressure, flow, and other sensing products and instruments. Arlene has a Bachelor of Engineering degree from Purdue University and an MBA from DePaul's Kellstadt School of Business. She maintains her office in the Chicagoland area.

The dinner meeting gets underway with cocktails at 5 p.m. After dinner our student chapter at University of Illinois-Chicago will present a brief program about the UIC Air Quality Testing Lab

Everyone may attend either the afternoon seminar (\$30 per person), dinner meeting (\$35 per person) or both (\$65 per person). The afternoon seminar qualifies for 3 PDHs and dinner meeting presentation for 1 PDH. Complimentary valet parking is available at the Parthenon.

Oct. 9 is "Student Night." (We need sponsors to help cover the meal cost of students who will be in attendance. If you can sponsor one or more students, please let us know at the registration table when you arrive.)

October 9 Seminar & Meeting

Parthenon Restaurant

314 S. Halsted St., Chicago's Greektown
Phone: (312) 726-2408

For reservations, call (708) 636-3604

Please make your **reservations** in advance at **(708) 636-3604** or by faxing in the **sign up form** on page 3 of this newsletter.

[<http://www.illinoisashrae.org>] for online reservations. Please specify which part, or parts, of the day you'd like to attend.

Please bring your old cell phone (working or broken) and donate it to ASHRAE Research. A collection box will be at the registration desk. We hope to see you there!

The Illinois Chapter has planned lots of seminars and other activities to further your professional knowledge, contacts and career.

See list on back page for a look at what's ahead.

ASHRAE 90.1 meeting open to public participation

ASHRAE's Standard 90.1 committee (SSPC 90.1) will meet in Chicago Oct. 11-13. The meetings take place at the Hilton Garden Inn near O'Hare Airport. Work will include Continuous Maintenance Proposals and responses to Interpretations. Agendas should be available one week prior to the meetings. All meetings are open to the public. Feel free to attend and participate in the process of updating one of our more important standards. For additional information, e-mail Mick Schwedler, PE, ASHRAE SSPC 90.1 Chair, at mschwedler@trane.com.

Attend LEED "webinar" on your computer

MCA Chicago presents *LEED and Sustainable Design: A Green Building Webinar*, moderated by Dan Bulley, secretary, Chicago Chapter of the U.S. Green Building Council, volunteer chair for Greenbuild, and Illinois Chapter ASHRAE member. The presentation will be given by Lincoln Pierce, P.E., LEED® AP, associate and Mechanical Department assistant supervisor, KJWW Engineering Consultants, Rock Island, Ill. This webinar will be presented twice, once at 7:00 - 7:45 a.m. and again 4:00 - 4:45 p.m. on Wednesday, Oct. 10. The 24-minute presentation will be followed by a Q & A session. You will learn about how to: take part in this growing niche market; help the environment and save natural resources; make your own company green; and avoid the pitfalls of green building. To register, visit http://www.constructioneducationinstitute.com/webinar_reservation.html There is no charge and all you need to participate is a telephone and a computer with an Internet connection. To confirm your attendance, call Jen Murray, (312) 384-1220 or e-mail jmurray@mca.org.

Designing cooling systems for LEED compliance

Illinois Chapter ASHRAE member Fred Ringe (EMA Chicago, Inc.) will conduct a brief seminar titled "*Fresh Air Cooling For Comfort, Cost, And Leed Compliance*," 10:30 a.m. – noon, Oct. 23, at the Drury Lane Conference Center, Oakbrook Terrace, Ill. The seminar is one of numerous topics offered at the 2007 Architecture Conference and Product Show, sponsored by the CSI Chicago Chapter and Association of Licensed Architects (ALA). Ventilation to any degree has many elements that affect an energy efficient, comfortable facility. Certainly LEED application of ASHRAE standards (90.1 - efficiency, 62 - ventilation, and 55 - comfort) strongly encourage an effective ventilation strategy for existing buildings and new construction. Current and new "hybrid" approaches to large and small space building applications will be reviewed. Examples of design and financial calculations with reference source documents will be distributed. For registration information, visit <http://www.LicensedArchitect.org>.

Cogeneration conference coming to Oak Brook

Learn all about cogeneration options in the Midwest at the 20th Annual Midwest Cogeneration Conference, Oct. 24, at McDonald's Lodge in Oak Brook, Ill. The event offers numerous exhibitors and a chance to hear about new and future cogeneration projects. For registration information, go to <http://www.cogeneration.org/>.

Engineer's Lunch to serve Geothermal talk

MCA of Chicago will host another Engineer's Lunch on Thursday, Nov. 1, 11:30 a.m. – 1:30 p.m., at Harry Caray's, Chicago. The *Geothermal* discussion will be led by Ted Kantrowitz. He'll talk about Canada's Global Quality GeoExchange Program, its impact on Canadian engineers and contractor, and its implication for market transformation in the U.S. There is no charge for engineers; lunch is included. For reservations, contact Laurie Leonard at 312-384-1220, lleonard@mca.org.

The Illinois Chapter would like to thank everyone who attended the Annual Golf Outing on Sept. 20. As a result of their generous support of ASHRAE research the event raised \$1,622 from the par three inside the circle contests and from the 50/50 raffle. These contributions will help pay for future research to develop better HVAC&R technology and methods.

Illinois Chapter ASHRAE 2007-2008

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Don Doherty, Editor

Headquarters Office

P.O. Box 428020

Evergreen Park, IL 60805-8020

Tel. (708) 636-5819 • Fax (708) 424-5804

website: www.Illinoisashrae.org

e-mail: dkdoherty@sbcglobal.net

"The Chapter Cannot Act for the Society"

Tour Exelon's new "Green" office space

The Illinois Chapter has an interesting site tour planned for Tuesday, Oct. 30, 4–6 p.m., at Chase Towers (former First National Bank Building), 10 S. Dearborn St., Chicago. We'll get a look at the 48th floor offices of Exelon, which recently rehabbed their space to demonstrate their commitment to the "green movement" and energy conservation. Come and see a successful rehab of a large office area in a famous loop high-rise office building. We have arranged for an exclusive tour.

The tour will highlight:

- how Exelon revised the lighting system from 5 watts per foot to less than 1 watt per foot
- how they've changed their HVAC system (conversion to VAV, control on baseboards and revisions to the terminal units)
- use of "energy star" office equipment
- relocation of private offices.

The tour will begin on the 48th floor conference room. (2 PDH points may be earned at this event.) There will be a \$20 registration fee for the tour.

Please note that we must observe a **firm Oct. 22 registration deadline** to enable Exelon to obtain security clearance ahead of time for all interested participants. **Make your reservation before Oct. 22nd by calling (708) 636-3604 or using the signup form at right.** Due to the central downtown location of the tour, we strongly encourage use of public transportation on the day of the event.

Ventilation Nov. 6 topic

On Nov. 6, a half-day seminar will cover *Industrial Ventilation* issues, 2-5 p.m. at Avalon Banquets in Elk Grove Village, Ill. Three dynamic speakers have already been set up. **Fred Imming**, from Car-Mon, will talk about vehicle exhaust/welding and soldering fume extraction systems. **Jay Parikh**, from Compliance Solutions International, Inc. will pay particular attention to new technologies for commercial kitchen ventilation. **Dave Tjernlund**, from Tjernlund Products, will discuss variable speed venting, chimney sizing and codes related to boiler flue exhaust.

ASHRAE Online: Learn at your computer

Here are opportunities to learn online from ASHRAE while accruing more professional development hours (PDHs). Register online for any of the following courses at <http://www.ashrae.org/education/page/1437>.

Complying with ANSI/ASHRAE/IESNA Standard 90.1-2004 HVAC/Mechanical (offered twice) Monday, Oct. 22, 12 to 3 p.m.

This program presents the mechanical requirements from ANSI/ASHRAE/IESNA Standard 90.1-2004. The U.S. Department of Energy is reviewing it in preparation for adoption as the new benchmark for state energy codes. Changes to the 2004 mechanical section schedule to become part of the 2007 Standard will be addressed. Design professionals, code officials and building owners will benefit from this seminar. *Frank Mills, Instructor*

Complying with Requirements of ANSI/ASHRAE/IESNA Standard 62.1-2004 (Offered twice) Wednesday, Oct. 24 & Monday, Nov. 19 12 to 3 p.m.

This seminar gives an overview of the requirements of the current standard with emphasis on the new requirements. Explanation of how to use an available spreadsheet will be included as a closing exercise. *Hoy Bohanon, Instructor*

Understanding and Designing Dedicated Outdoor Air Systems (DOAS) Wednesday, Oct. 31, 12 to 3 p.m.

This course presents some of the issues that point toward separate dedicated outdoor air systems (DOAS) and away from delivering the ventilation via single all-air variable air volume systems. Some of the boundary conditions that impact the best state of the delivered ventilation air are addressed. *Stanley Mumma, Instructor*

Illinois Chapter ASHRAE Event Sign-up Form

Please sign me up for the following event(s).

- Oct. 9 afternoon seminar — (\$30) Oct. 30 Exelon Tour — (\$20)
 Oct. 9 dinner meeting — (\$35)
 Oct. 9 seminar and dinner meeting — (\$65)

Name _____ Company _____

Address _____

City, State, Zip _____

Telephone _____ Fax _____ E-mail _____

- My check payable to Illinois Chapter ASHRAE is enclosed.
 Please charge my credit card for above event(s).

Credit card type: American Express MasterCard VISA

Credit card number: _____

Expiration Date _____

Signature _____

Fax credit card charges to Illinois Chapter, (708) 424-5804. Mail checks with form to P.O. Box 428020, Evergreen Park, IL 60805-8020.

MARK YOUR CALENDAR...

A look at upcoming Chapter seminars and meetings

Oct. 9, 2007

Seminar: Sensor Technologies, 2 - 5:30
Dinner Meeting: Technical Topic to be determined, 5:30 - 8 p.m.
"Student Night"
Parthenon, Chicago, Ill.

Oct. 30, 2007

Tour: Exelon Office "Green" Rehab
Chicago, Ill.

Nov. 6, 2007

Seminar: Exhaust & Industrial Ventilation, 2 - 5:30 p.m.
Dinner Meeting: Technical Topic to be determined, 5:30 - 8 p.m.
"Research Promotion Night"
Avalon Banquets, Elk Grove Village, Ill.

Dec. 4, 2007

Technology Awards Luncheon
11:30 a.m. - 2:30 p.m.
Holiday Inn Apparel Mart, Chicago, Ill.

Jan. 15, 2008

Seminar: LEED for HVAC, 2 - 5:30 p.m.
Dinner Meeting: Technical Topic to be determined, 5:30 - 8 p.m.
Holiday Inn Apparel Mart, Chicago, Ill.

Jan. 19-23, 2008

ASHRAE Winter Meeting, New York, NY
Jan. 22-24, 2008
AHR Expo

Feb. 12, 2008

Seminar: DX Piping, Refrigeration Topics, 2 - 5:30 p.m.
Dinner Meeting: Variable Refrigeration Flow, 5:30 - 8 p.m.
Drake Hotel, Oak Brook, Ill.

Feb. 19, 2008

Tour: Abbott Laboratories
Abbott Park, Ill.

March 11, 2008

Seminar: HVAC Design for Health Care, 2 - 5:30 p.m.
Dinner Meeting: Technical Topic to be determined, "Student/Scholarship Night," 5:30 - 8 p.m.
Holiday Inn Apparel Mart, Chicago, Ill.

March 18, 2008

Tour: Rubloff Hall (Green Building)
St. Xavier University, Chicago, Ill.

April 8, 2008

Seminar: Electrical Design Basics for Mechanical Engineers, 2 - 5:30 p.m.
Dinner Meeting: "History and 50 year, Life Member Awards Night,"
5:30 - 8 p.m.
Drake Hotel, Oak Brook, Ill.

April 16, 2008

ASHRAE Webcast: Integrated Building Design
12 - 3 p.m.

May 6, 2008

Seminar: Smoke Management Design, 2 - 5:30 p.m.
Dinner Meeting: Overview of Chapters Regional Conference, 5:30 - 8 p.m.
Drake Hotel, Oak Brook, Ill.

May 15-17, 2008

Chapters Regional Conference
Englewood Resort, Itasca, Ill.

June 3, 2008

Luncheon Meeting & Seminar:
Wireless Control Networks
11:30 a.m. - 2:30 p.m.
Holiday Inn Apparel Mart, Chicago, Ill.



Illinois Chapter ASHRAE

P.O. Box 428020

Evergreen Park, IL 60805-8020

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