



## Upcoming Chapter Meetings

### September 17th, 2008

- City Brewery Tour

### October 22nd, 2008

- Flooding Considerations in building design (tentative)

### November 19th, 2008

- Wind Power

### December 10th, 2008

- Environmental Update—Latest Scientific Findings

## Inside this issue:

ASHRAE **2**  
Publishes New  
Guidance on  
Commissioning  
Process

New Professional **3**  
Certification from  
ASHRAE

Fundamentals of **3**  
Refrigeration - IP

ASHRAE Winter **4**  
Conference

## September 2008

### September 17th, 2008 Meeting

How do you keep the world's largest six-pack at the proper serving temperature? Let's find out at our first ASHRAE meeting of the '08-'09 year with a tour of the City Brewery. Larry Ferber is a mechanical engineer for the brewery who ensures the ammonia chillers, glycol chillers and cooling systems keep the beer flowing 24/7. Larry will take us through the equipment rooms and engine rooms of the brewery and show us stuff not open to the general public.

Join us at 5:30 for an all-you-can-eat pasta bar at Nell's restaurant (next to the hospitality center) and a free keg of beer courtesy of ASHRAE.

A short business meeting will follow, followed by the tour at 6:30. Cost is \$19 per person. RSVP

by noon on September 12th at [www.ashraelacrosse.org](http://www.ashraelacrosse.org)



### Program

Location:	City Brewing Company LLC 1111 3rd Street La Crosse, WI 54601
Date:	September 17th, 2008
Program:	Brewery Facility Tour
Agenda:	5:30—Dinner 6:15—Meeting 6:30—Tour
Cost:	\$19.00 per person

### Inspection, Maintenance Requirements Outlined

Maintain to sustain is the name of the game when it comes to saving energy and money in today's building stock.

A new standard from ASHRAE and the Air Conditioning Contractors of America (ACCA) will help ensure a consistent minimal level of HVAC&R maintenance and inspection to preserve a system's ability to achieve acceptable thermal comfort, energy efficiency, and indoor air quality in commercial buildings.

ANSI/ASHRAE/ACCA Standard 180-2008, *Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems*, is the first standard to address inspection and maintenance of HVAC systems. Robert Baker, chair of the committee that wrote the standard, noted that inconsistencies exist within the building industry when it comes to inspection and maintenance of HVAC systems, with some facilities following rigorous policies while others have adopted a run-to-failure approach.

"Consistent maintenance ensures that energy efficiency remains at design levels," Baker said. "Where maintenance is neglected, energy costs rise significantly and equipment life drops dramatically. With HVAC&R systems responsible for about 60 percent of site electrical energy use, it's imperative that we provide consistent maintenance and inspection to improve energy efficiency along with thermal comfort and indoor air quality. When systems are not maintained, indoor air quality, occupant comfort and energy efficiency all suffer."

In addition, much of the information that will be required to prepare the maintenance program can be obtained from building commissioning documents, which provides a basis for identifying failures.

The cost of ANSI/ASHRAE/ACCA Standard 180-2008, *Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems*, is \$31 (\$25, ASHRAE members).



**Rick Heiden**  
Chapter President

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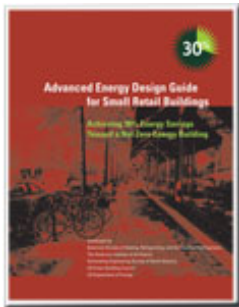
**Chris Hsieh**

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## President's Corner

Welcome back old and new La Crosse Area ASHRAE members! It is my distinct pleasure to serve as your chapter president this year. We also have a new Board of Governors and as a group, we hope to maintain the standard of professionalism demonstrated by the boards before us and deliver the membership a rewarding experience with valuable opportunities to learn and share ideas.

Being an election year, ideas and promises abound. Large on the minds of many Americans today is the desire for energy independence. Statistics indicate building energy demand accounts for over 40% of US domestic energy consumption. Here in lies a wonderful opportunity for ASHRAE to apply our collective expertise, knowledge and willingness to roll up our sleeves and make an impact on reducing our energy demand making energy independence that much more attainable.

ASHRAE Society President Bill Harrison's theme this year is "Maintain to Sustain – Delivering ASHRAE's Sustainability Promise." The dictionary defines sustain as "to keep in existence; to preserve or keep in a given existing condition." Clearly we desire our standard of living to be preserved. It is also clear our natural resources are limited. Prudent use of those natural resources is paramount to maintaining our standard of living and maintaining a system's energy efficiency is one way to deliver on the sustainability promise and lessen our energy demand.

We hope as we roll out programs, tours and technical sessions this year that we spark ideas in each of you of ways you can have an impact on reducing building energy demand without sacrificing our standard of living. In January, we will again be arranging a bus trip to the ASHRAE Winter meeting in Chicago, a great venue to get new ideas. Our first program will be at the City Brewery to observe the cold chain and hopefully deliver a cold one to each of you. Please join us and feel free to contact any of the board members with any concerns, suggestions or even to volunteer in what is shaping up to be another great year for the La Crosse Area ASHRAE chapter.

## ASHRAE Publishes New Guidance on Commissioning Process

ATLANTA – Specific tasks to successfully implement the commissioning process for HVAC&R systems and assemblies are featured in a new guideline from ASHRAE.

ASHRAE Guideline 1.1, HVAC&R Technical Requirements for the Commissioning Process, describes the technical requirements for the application of the commissioning process described in ASHRAE Guideline 0-2005 that will verify that the HVAC&R systems achieve the owner's project requirements.

"The quality-oriented process outlined in the guideline provides improved quality and greater cost effectiveness compared to commissioning as currently practiced by many commissioning providers," Walter Grondzik, secretary of the committee that wrote the guideline, said. "One problem with the current practice is that 100 percent checking is performed during the construction phase of the project delivery process, and this checking usually focuses on limited or targeted systems. Quality-based sampling is not used, and so the current approach has limited quality-based random inspection procedures."

The guideline contains more than 100 pages of annexes, providing concrete examples of forms and documents to assist the commissioning team and owners in their efforts to deliver quality buildings that meet the owner's project requirements. Twenty-five sample checklists, covering pre-design, design and construction, are included along with a sample owner's project requirements verification test procedure.

The cost of ASHRAE Guideline 1.1, HVAC&R Technical Requirements for the Commissioning Process, is \$69 (\$55, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or visit at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

## New Professional Certification from ASHRAE

ATLANTA – Energy use in buildings can be reduced by 10 to 40 percent by improving operational strategies in buildings, according to a study by the Energy Systems Lab at Texas A & M University. A new certification program from ASHRAE helps building owners know they are hiring and retaining employees and consultants who know how to take advantage of such strategies.

The Operations and Performance Management Professional Certification (OPMP) program helps earners demonstrate their knowledge of the management of facility operations and maintenance and their impact on HVAC&R systems' performance. The program will launch at the ASHRAE Winter Meeting in Chicago in January and will be available via electronic testing centers worldwide starting in March 2009.

“With buildings using 40 percent of all energy in the United States, it is essential that their energy consumption be reduced,” says Bill Harrison, ASHRAE president “Every building, new or old, must be operated at its own optimum level. To do so, we must apply advanced knowledge and skills to building operations. ASHRAE’s OPMP certification helps professionals attest that they are well prepared to manage and maintain buildings to fully achieve reliability and their potential energy savings.”

Developed with input from APPA and GSA, the OPMP certification program is intended for those working in facilities operations, management construction, design, or consulting; and for those who have experience in facility operations and performance. By earning OPMP certification, certificants will demonstrate a well-rounded understanding and knowledge of the management of facility operations and maintenance and the impact of O&M on HVAC&R systems' performance.

Individuals must meet certain eligibility qualifications to take the exam. For more information, an exam content outline and available resources for exam preparation, please visit [www.ashrae.org/certification](http://www.ashrae.org/certification).

The fee for the OPMP program is \$275 for ASHRAE members and \$395 for non-members. For more information, please e-mail [certification@ashrae.org](mailto:certification@ashrae.org).



**Advancing  
HVAC&R to  
serve humanity  
and promote a  
sustainable  
world**

## Fundamentals of Refrigeration - IP

A comprehensive introduction to heat transfer, thermodynamic states, psychometrics, multi-stage and cascade refrigeration cycles, refrigeration systems, and refrigerants.

Price: \$250, \$195 for ASHRAE members

PDH: 9

### The course is ideal for:

Recent engineering graduates working in the HVAC&R industry

Experienced engineers who need an introduction to refrigeration

Architects, technicians, construction, or building management professionals who need to improve their knowledge of refrigeration systems

### The course includes:

6 online modules or short courses

Online course reader with printable PDFs

Online self-assessment and exams

Completion certificate for 9 PDHs or 0.9 CEUs





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We're on the web

[www.ashraelacrosse.org](http://www.ashraelacrosse.org)

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### American Society of Heating, Refrigerating, and Air-Conditioning Engineers

ASHRAE, founded in 1894, is an international organization of 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing & continuing education.

Our vision:

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

### ASHRAE Winter Conference — January 24-29 2009

Chicago, with one of the most recognizable skylines in the United States, has long-standing status as a livable urban center.

That the city has stood the test of time makes it the perfect backdrop for this year's Winter Conference theme of Sustainable Urban Design: Engineering Tomorrow...Today.

With its windy atmosphere and lake shoreline, Chicago is a reminder that resources must be conserved and environments respected even in urban settings.

Register on-line at [www.ashrae.org](http://www.ashrae.org)

