ASHRAE San Diego Newsletter

REGION X
www.ashraesd.org
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Interested in becoming more involved with ASHRAE through joining or chairing a Committee or becoming a Chapter Officer?

To find out how, contact one of the existing Chairs or Officers or visit *www.ashraesd.com*!

INSIDE THIS ISSUE

Call for all the ASHRAE 2013 Winter Conference Delegates!

If you were a delegate at the ASHRAE 2013 Winter Conference in Dallas, TX this year, we want to hear from you! Share your photos, experiences, new discoveries and lessons learned with the ASHRAE San Diego Chapter in next month's newsletter.

Contributions to the newsletter will earn recognition for you and your company and, more importantly, bring the knowledge of the greater ASHRAE community home to San Diego.

Please send all contributions to:

Calina Ferraro, ASHRAE SD Newsletter Editor
cferraro@randalllamb.com

We look forward to hearing from you!

ASHRAE San Diego February Meeting- Exploring Innovative Technologies in HVAC

When: Tuesday Feb 12, 2013 from 11:30 AM to 1:30 PM PST
Where: The Butcher Shop
5255 Kearny Villa Road
San Diego, CA 92123

Cost:
ASHRAE Member: $35.00 (RSVP by February 8, 2013)
ASHRAE Member: $40.00 (after February 8, 2013)
Non-Member: $50.00
Student/Retired: $20.00

Presented by **Dan Prusia**

Healthcare construction codes and guidelines are created to ensure the safety of patients, staff, and the public.

More and more spaces, per code, require pressurization, high air change rates, or 100% outdoor air. These guidelines also state that for energy conservation air change rates (ACH) may be reduced during unoccupied periods with the caveat that pressurization be maintained during any setback or turndown of airflow. Consequently, facility managers face many challenges when trying to optimize safety and sustainability as often the standard methods used in facility design and selection often run counter to safety and energy initiatives.

Constant volume systems can maintain constant airflow from functional aspect, but they unnecessarily consume large amounts of energy and add to operational costs. Commercial VAV boxes, the common air control design for commercial buildings, have shown to be incapable of accurately reducing airflow and maintaining proper set-points overtime in healthcare spaces. Engineers and facility managers have been reluctant to turndown critical care areas of a hospital due to concerns over life safety, infection control and health.

Innovative and precision airflow control technologies can enable energy savings AND control pressurization in high consequence spaces.

We will review of current guidelines and explore innovative technologies that are available to help provide proper airflow control. We will look at examples of hospitals that have implemented innovative technology with successful results.

Learning Objectives:

1. Overcome Problem Areas That Waste Energy: Explore energy consumption problems facing facilities in the operation of HVAC ventilation.

2. Understand Existing Guidelines: Review current and pending energy/safety codes and learn how to best position your facility to achieve compliance and easily adapt to change to ensure safety and sustainability.

3. Explore Alternate Selection: Examine standard design methods and learn about innovative technologies for new construction/renovation that will reduce operation costs quickly and help you meet energy reduction directives.

4. Study Case Examples: Look at how other facility managers and engineers have faced similar hurdles and examine how they achieved satisfactory performance objectives with effective modeling and operation.

5. Practice Using Energy Modeling Software: Delve into “Optimizer”, an energy modeling software that helps you determine areas of savings and waste. Come share information about a problem area and watch a live demonstration of energy modeling that will provide you with information that can be used to determine how to achieve energy efficiency in your healthcare facility that satisfies executives, staff and patients.

Upgrade Your ASHRAE Status from "Associate" to "Member"!

Erik Sanchez
Johnson Controls
Membership Promotion Chair, 2012-13

Have any co-workers at your office who are not currently members in ASHRAE? Explain to them why you're a member & the benefits you enjoy, and then bring them out as your guest to our next meeting! If they join, both you & your guest will receive lunch on us as part of our Member-Get-A-Member program. Just contact me, Erik Sanchez, at Erik.D.Sanchez@jci.com or come find me at the next meeting.

If you are an industry professional with 8 or more years of "equivalent industry experience," you are eligible to upgrade your membership status from Associate to Member at NO ADDITIONAL COST... Contact me to find out how!

Proposed ASHRAE Standard on Prevention of Legionellosis Open for Third Public Comment

ATLANTA—Changes to clarify requirements in a proposed standard to prevent legionellosis associated with building water systems are open for public comment from ASHRAE.

Standard 188P, Prevention of Legionellosis Associated with Building Water Systems specifies what must be done to control the spread of legionellosis. The standard helps facility managers/owners understand how to apply the available information on Legionella effectively in order to prevent cases of legionellosis associated with building water systems.

The proposed standard underwent an earlier public review in June 2011 and is currently open for a third public review from Jan. 25-March 11, 2013. For more information, visit www.ashrae.org/publicreviews.

William McCoy said the committee received more than 150 comments during the 2011 review. The input helped the committee in clarifying many aspects of the standards. Changes being proposed to the third review based on that input, include:

- Clarifications made to definitions in Section 3, Definition of Terms and a new term was defined.
- Clarifications made to Section 5, Risk Characterization. Those changes were substantive because building characteristics were reorganized into two subsections for clarity, subsections 5.2 and 5.3.
- Reorganization of Table 1, Determining Preventative Measures Required for Buildings. The improvements reference two subsections of Section 5 (Sec 5.2 and 5.3).
- Creation of a new subsection, 7.4, Water System Treatment and Management Program, in Section 7. Commenters indicated there should be specifications for a “water system treatment and management program” for buildings with none of the risk characteristics (now listed in Sec 5.2) but with any of the equipment specified (now listed in Sec 5.3),.
- Clarifications to Section 8 regarding wording, references, cited regulations and informative notes.

Compliance with the standard requires facility managers/owners to formally take responsibility for controlling Legionella in their building water systems, while at the same time acts as a defense against accusations of negligence in those cases which are caused by the hazard from unknown sources.

Standard 188P also covers the potable water system in buildings, which are not treated as often as cooling towers, and will hold facility managers/owners accountable for properly managing the entire building water system both potable and utility water.

The standard differs from ASHRAE Guideline 12, Minimizing the Risk of Legionellosis Associated with Building Water Systems, in that while the guideline gives recommendations about how to treat various building water systems, the standard specifies the practice of exactly what must be done with all those recommendations.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.

Brought to you by the ASHRAE Chapter Technology Transfer Committee

www.ashrae.org/abepwebcast

FREE ASHRAE Webcast

Assessing Building Energy Performance:

From Principles to Practice

April 18, 2013 | 1:00 PM-4:00 PM EDT

Presenters

Thomas E. Watson, ASHRAE President

Drury Crawley, Ph.D

Jim Kelsey, LEED AP, P.E., BEAP

Christopher Mathis

This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents.

How to Participate

- You may register to view the webcast on your PC
- You may host a webcast viewing site for your colleagues
- View the webcast at a site

PDH Credits

Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units (LUs) may be awarded to viewers who complete the "Participant Reaction Form" by May 2, 2013.

For more information about the program,presenters, continuing education credits, sponsorships, and ABEP resources, please visit us at www.ashrae.org/ABEPwebcast OR scan this tag with your smart phone.

Get the free mobile app at http://gettag.mobi

ASHRAE

The YEA Page!

YEA San Diego is for young professionals in our industry who are 35 years of age or younger. This group will focus on issues more relevant to those who are relatively new to the industry.
If you have any questions, comments, suggestions or would like to be added to the email list for future events, please let me know
Eian Schnoor
YEASanDiego@gmail.com
ASHRAE San Diego YEA Chair

YEA
Young Engineers in ASHRAE

See
http://www.ashraesd.org/yea.html
for upcoming YEA events & info

January Y.E.A. Event !!

The San Diego chapter of Young Engineers in ASHRAE (YEA) will be getting together for some good 'ol fashion fun this month!

Here are the details:
Who: Anyone associated with ASHRAE
What: Young Engineers in ASHRAE January Event
When: Tuesday January 29th, 2010. 5pm-8pm
Where: Boomers! San Diego: 6999 Clairemont Mesa Blvd., San Diego, CA 92111
Wristband: $15.95 includes unlimited: Go Carts; Bumper Boats; Video Games
Incentive: First (12) people* to show up will recieve a free wristband!!

Please contact Eian Schnoor (904.477.6992; eian.j.schnoor@jci.com) you have any questions.
It's gonna be Grrrrrrreat!

HVAC ENGINEER

ABBOTT ENGINEERING
www.abbotteng.com

We are a small HVAC Engineering firm located in Cardiff with a good reputation in the small community of HVAC Engineers in San Diego County. We work hard and take a great deal of pride in the services that we provide our clients.

The candidate we are looking for has two to three years of experience with HVAC Design, a Bachelors of Science degree in Mechanical Engineering and is very personable. PE Registration is a plus. The skills that we are looking for include:

- Building Load Calculations
- Equipment Sizing and Selection
- CAD Drawing Setup (3D CAD or Revit is a plus)
- Equipment Layout
- Duct and HVAC Pipe Sizing and Layout
- Title 24 Paperwork
- City Plan Check Response

Our company offers competitive compensation, based on experience. We also offer a retirement plan with employer matching, paid vacation, health and dental insurance and other miscellaneous benefits.

If interested in this or other positions with our company, please submit your resume to labbott@abbotteng.com

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER
Internet: www.ashrae.org/dallascourses
Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full-Day Professional Development Seminars

$485/$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

The Commissioning Process in New & Existing Buildings
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Data Center Energy Efficiency
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design & Applications
Saturday, Jan 26– 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Half-Day Short Courses

$159/$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Air-to-Air Energy Recovery Fundamentals
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Combined Heat & Power: Design through Operations
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Understanding Standard 189.1-2011 for High-Performance Green Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.
Monday, Jan 23 – 2:30 p.m. to 5:30 p.m.

Commissioning Process & Guideline 0
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Evaluating the Performance of LEED®-Certified Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Optimization of HVAC Systems & Components: Techniques & Real-World Examples
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Energy Management in New and Existing Buildings
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Avoiding IAQ Problems
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Designing Toward Net Zero Energy Commercial Buildings
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Understanding & Designing Dedicated Outdoor Air Systems
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

HVAC Design Training

Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II - Applications

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register