



THE SQUIRREL CAGE —ALAMO ASHRAE

ASHRAE - ALAMO CHAPTER #65

SAN ANTONIO, TX

ISSUE: FEBRUARY 2013 / VOLUME LIII NO. 4

ALAMO ASHRAE PRESIDENT'S MESSAGE

Alamo ASHRAE,

As the new year is upon us, I hope that everyone had an outstanding 2012 and that 2013 will be even better.

I trust you enjoyed this year's AHR Expo at the Dallas Convention Center, if you were able to attend. Please shoot me an email that you went so our chapter can get credit for our members' attendance.

The Alamo ASHRAE Golf Tournament is coming up, so please make sure to reserve your spots. If you have any questions or need more information, please contact Mike Voyten at mikev@mechreps.com or Wes Weissgarber at wesw@mechreps.com.

There is an exciting lineup of YEA meetings scheduled for this year. Our first successful YEA meeting was held at the Trane office on February 26th. The topic was "Green HVAC Done Right." To RSVP and for future events, please contact Stillman Jordan at stillman.jordan@hdrinc.com.

Sincerely,

Rocky Ormand
2012-2013 Alamo ASHRAE President



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ALAMO ASHRAE MEETING NOTICE



MEETING INFORMATION:

Oak Hills Country Club
5403 Fredericksburg Road

Speaker : Thomas Watson, P.E. – ASHRAE President

"Broadening ASHRAE's Horizons"

Tuesday - March 19, 2013
11:30 am—1:00 pm

Cost: \$25.00 with reservation / \$30.00 without
*Vegetarian available by prior request

Please **RSVP** to Rezaur@esaengineers.net
by the Monday before each meeting

About the speaker:

Thomas "Tom" Watson is a chief engineer, Daikin McQuay, Staunton, Virginia. As ASHRAE's president, Watson directs the Society's Board of Directors and oversees the Executive Committee.

Past service includes chair, Members Council and Technology Council, President-Elect Advisory Committee, the Strategies for a Global Environment Ad Hoc Committee and the Advocacy Committee; and vice chair of the Vision 2020 Ad Hoc Committee. He also served as a member of the Advanced Energy Design Guide Steering Committee.

Watson became involved in ASHRAE in 1972 and became a member of Technical Committee 8.2, Centrifugal Machines, soon thereafter. He served as member of the Standard 34, Designation and Safety Classification of Refrigerants, committee in the early 1990s and also served as chair of the Standard 15 committee, Safety Standard for Refrigeration Systems. While remaining active in ASHRAE's standards activities, especially internationally, Watson also has held several positions on the Society's Board of Directors. He is past Society president-elect, treasurer, vice president and a director-at-large. Most recently, he served as chair of the committee that oversaw the Society's rebranding, rolled out in January 2012.

Watson is a recipient of the Standards Achievement Award and Exceptional Service Award. He received a Bachelor of Science in mechanical engineering from Virginia Tech in 1966 and a Master of Science in mechanical engineering from West Virginia University in 1969.



ALAMO ASHRAE SPRING GOLF TOURNEY

ANNUAL GOLF CLASSIC 2013

Benefitting ASHRAE Research & Scholarships

FRIDAY – MARCH 22, 2013



Location:

The Republic of Texas Golf Club
4226 SE Military
San Antonio, TX 78222

Format:

4 Person Scramble
(2 teams per hole - blind draw)

Check-in/Breakfast:

7:00 AM – 8:00 AM

Tee Off Time:

8:30 AM Shot Gun Start

Lunch/Awards Ceremony/Raffle:

1:00 PM

Entry Fee:

\$125 per Player *

Mail entry form with check to: Wes Weissgarber
C/O Mechanical Reps, Inc.
4710 Perrin Creek #300
San Antonio, TX 78217

wesw@mechreps.com
Phone: 210-650-9005
Fax: 210-590-1645

OFFICER'S DIRECTORY—LOCAL CHAPTER

Officers

President

Rocky Ormand
210-499-0004
rockyo@texasairsystems.com

President-Elect

Rey Gutierrez, EIT, LEED AP
210-363-1416
rey.gutierrez@jmwaller.com

Secretary

Tareq Ismail
210-224-8841
Tareq.ismail@cngengineering.com

Treasurer

J. Woody Thompson
(210) 301-4819
Woody.Thompson@rsandh.com

Board of Governors

Jennifer King, PE, LEED AP
210-446-4319
jennifer.king@merrick.com

Todd Buck
210-495-8100
tbuck@txap.com

Paul Naizer
210.416.1455
paulna@htseng.com

Martin Thomas
210-499-0004
martint@texasairsystems.com

Committee Chairs

Attendance

Rezaur Rahman
210-342-3483
rezaur@esaengineers.net

Honors & Awards

Ian Vohwinkle
210-546-0200
ivohwinkle@dbinc.com

Chapter Technology Transfer

Brad Gilbert
210-426-0887
bradg@htseng.com

Historian

Manuel Lizcano, PE
210-732-4440
MFLizcano@lceinc.net

Membership Promotion

Dan Torres
361-676-6805
dant@dxseng.com

Refrigeration Chair

Daniel Nuckolls
210-501-3926
Daniel.nuckolls@alctexas.com

Sustainability Chair

Raj Kapoor
210-379-5849
raj.rajkapoor@gmail.com

Newsletter Editor

Aaron Caldwell
210-516-1784
Aaron.Caldwell@trane.com

Research Promotion

Mike Voyten
210-650-9005
mikev@mechreps.com

Wes Weissgarber

210-650-9005
wesw@mechreps.com

Student Activities

Mario Mijangos
210-599-6120
mmijangos@brandteng.com

Website Editor

Matt Koch, PE, PhD
830-446-1839
mattkoch@scitex.us

YEA—Young Engineers

Stillman Jordan III, EIT
210-841-2913
Stillman.jordan@hdrinc.com

Tech Energy & Govt Activities

Fred Gleeson
210-496-3100
Fred.Gleeson@eeiengineers.com

Previous Meeting Attendance:

Proportional Flow Balancing / Speaker: Brent Davis / February 19, 2013 / Attendees: Alison Gragg, Brad Gilbert, Brent Davis, Baron Phillips, Richard Tarrillion, Chris Delgado, Chris Garcia, Chris Long, Cliff Tilbury, Chris Villasana, David Baldwin, Dennis Dalsing, Dick Grant, Don Kiely, Dan Torres, Eric Hernandez, Frank Painter, Gary Gilley, Greg Surfas, Howard Decker, James Drewry, John Faultersack, John Freund, Jon Erik Johnson, Jennifer Schmidt, Madison Bryer, Mike Lawlor, Mike Voyten, Paul Deltz, Pat McLarry, Rene Colunga, Russ Elkins, Rey Gutierrez, Ronald MacDiarmid, Rocky Ormand, Richard Powell, Rezaur Rahman, Steven Richey, Stan Rakowitz, Todd Buck, Tom Phillips, Thursten Simonsen,

John Jay Science and Engineering Academy Introduction/ Speaker: Jay Sumpter / January 15, 2012 / Attendees: Bill Crook, Brad Gilbert, Baron Phillips, Bruce Smith, Bill Wurzbach, Chris Delgado, Chris Garcia, Eric Hernandez, Eric Johnson, Joshua Baumgartner, John Freund, Josh Gavos, Jennifer Schmidt, Jay Sumpter, Matthew Freund, Mike Lawlor, Mike Voyten, Orlando Palacios, Pat McLarry, Rey Gutierrez, Rocky Ormand, Rezaur Rahman, Stan Rakowitz, Steven Richey, Scott Wunsch, Todd Buck, Toni Jeitani, Wes Weissgarber,

JANUARY BOARD OF GOVERNORS MEETING MINUTES



ALAMO ASHRAE

January 9, 2013 -- 12:00 PM -- Texas AirSystems

Presiding Officer: Rocky Ormand

CALL TO ORDER

ROLL CALL: President - Rocky Ormand, President Elect – Rey Gutierrez, Secretary – Tareq Ismail, Governor – Jennifer King, Governor – Martin Thomas, CTTC – Brad Gilbert, RP – Wes Weissgarber, Sustainability – Raj Kapoor,

OFFICER & CHAIR REPORTS

Treasurer – Woody Thompson/ Updated by Rocky.

- Financial Report
- Other Updates

CTTC – Brad Gilbert,

- Meeting Speakers & Topics , (have speakers for the month of January and February.)
- Sponsors
- Other Updates

Membership Promotion – Dan Torres / Updated by Rocky.

- Updates- (the chapter have multiple new members)
- Membership Mailing – Update Contact Information

RP – Mike Voyten & Wes Weissgarber

- Update on Golf Tournament
- Call List Campaign- will be divided to reduce the load.
- Will send emails next week to remind sponsors about the grandfathered spots.
-

YEA – Stillman Jordan / Updated by Rocky.

- Upcoming Events/Upcoming Meetings
- Leadership Conference

Refrigeration – Daniel Nuckols & Paul Naizer / Updated by Rocky.

- Topic for Program – Coordinate with CTTC
- YEA Coordination

JANUARY BOARD OF GOVERNORS MEETING MINUTES



...Continued from Previous Page

- Raj to help with the Refrigeration.

Historian – Manuel Lizcano / Updated by Rocky.

- Articles

Newsletter – Aaron Caldwell / Updated by Rocky.

- Deadline for submissions to newsletter will be Fri after BOG mtg
- Copy all RVC's on monthly newsletter

Student Activities – Mario Mijangos / Updated by Rocky.

- Updates
- Scholarships- chapter to sponsor \$2,000.00
- Mario to contact Wilson Terrill @ incarnate word
- Jennifer King to find and provide contact person for SAC for advertizing. feasibility.

Webmaster / Updated by Rocky.

- Need new one
- Matt Koch suggested Star Chapter.

Sustainability – Raj Kapoor

- Updates

Honors & Awards – Ian Vohwinkle / Updated by Rocky.

- Updates

Government Activities – Fred Gleeson / Updated by Rocky.

- Updates
- OLD BUSINESS

Presidential Award of Excellence (PAOE)

- Update points (Monthly)

ASHRAE Region VIII Officers: <http://region8.ashraeregions.org/officers.htm>

ADJOURN

FEBRUARY BOARD OF GOVERNORS MEETING MINUTES



ALAMO ASHRAE

February 6, 2013 -- 12:00 PM -- Texas AirSystems

Presiding Officer: Rocky Ormand

CALL TO ORDER

ROLL CALL: President - Rocky Ormand, President Elect – Rey Gutierrez, Secretary – Tareq Ismail, Treasurer – Woody Thompson (*not present*), Governor – Jennifer King (*not present*), Governor – Martin Thomas (*not present*), Governor – Todd Buck, Governor – Paul Naizer (*not present*), CTTC – Brad Gilbert, Thursten Simonsen & Nishant Kanapilly (*not present*), MP – Dan Torres, RP – Mike Voyten & Wes Weissgarber, Student Activities – Mario Mijangos, YEA – Stillman Jordan (*not present*), Historian – Manuel Lizcano, Webmaster – Matt Koch(*not present*), Newsletter – Aaron Caldwell(*not present*), Sustainability – Raj Kapoor, Refrigeration – Daniel Nuckolls, Attendance – Rezaur Rahman(*not present*), Honors & Awards – Ian Vohwinkle (*not present*), Government Activities – Fred Gleeson(*not present*)

OFFICER & CHAIR REPORTS

Treasurer – Woody Thompson

- Financial Report
- Other Updates

CTTC – Brad Gilbert, Thursten Simonsen & Nishant Kanapilly

- Meeting Speakers & Topics
- Sponsors
- Other Updates (Mechanical Reps will sponsor the month of Feb., March is reserved for the president, April for Ethics, May for Refrigeration, June to keep open)

Membership Promotion – Dan Torres

- Updates (Reached goal on membership growth)

RP – Mike Voyten & Wes Weissgarber

- Update on Golf Tournament (going very well a few opening left, may not allow walk-ins , will email update with sponsorships)
- Call List Campaign (board of governors to make a call list of members to donate and send emails for donation)

YEA – Stillman Jordan

- Upcoming Events/Upcoming Meetings

FEBRUARY BOARD OF GOVERNORS MEETING MINUTES



...Continued from Previous Page

- Feb 26th, Green HVAC Done Right at Trane's Office
- Other Updates

Refrigeration – Daniel Nuckolls & Paul Naizer

- Topic/Speaker for Program
- YEA Coordination

Historian – Manuel Lizcano

- Articles
- Other updates (each chair to talk about the duties for ASHRAE, Manuel to speak about the mission statement and Green ASHRAE)

Newsletter – Aaron Caldwell

- Deadline for submissions to newsletter will be Fri after BOG mtg

Student Activities – Mario Mijangos

- Updates
- Scholarship - \$2,000 approved
- UTSA, Incarnate Word, SAC, John Jay High School (Science and Engineering Academy, Any others?? (ACE mentoring program, start young)

Webmaster

- Matt to find out what his stepson would charge to maintain site

Sustainability – Raj Kapoor

Honors & Awards – Ian Vohwinkle

Government Activities – Fred Gleeson

OLD BUSINESS

Presidential Award of Excellence (PAOE)

- Update points (Monthly)
- Releading committee

ASHRAE Region VIII Officers: <http://region8.ashraeregions.org/officers.htm>

ADJOURN

TREASURER'S FINANCIAL REPORT



3:36 PM
11/06/12
Cash Basis

ASHRAE Alamo Chapter Balance Sheet As of October 31, 2012

ASSETS

Current Assets

Checking/Savings

Checking 11,686.93

Money Market 8,120.01

Total Checking/Savings 19,806.94

Other Current Assets

Petty Cash 202.00

Total Other Current Assets 202.00

Total Current Assets 20,008.94

TOTAL ASSETS 20,008.94

LIABILITIES & EQUITY

Liabilities

Long Term Liabilities

Long Term Contributions

CRC (Reginal Conference) Host 15,500.00

Total Long Term Contributions 15,500.00

Total Long Term Liabilities 15,500.00

Total Liabilities 15,500.00

Equity

Opening Bal Equity -20,745.15

Retained Earnings 21,563.19

Net Income 2,573.05

Total Equity 3,391.09

TOTAL LIABILITIES & EQUITY 18,891.09

Learning Opportunities—Industry Happenings

...Contact your local chapter president for more info!

[Washington Internship for Students of Engineering \(WISE\)](#)

U.S. ASHRAE Members-

ASHRAE's Government Affairs Office needs your help in publicizing the 2013 Washington Internship for Students of Engineering (WISE), which is a great professional development opportunity for ASHRAE student members.

BACKGROUND

Founded in 1980 through the collaborative efforts of several professional engineering societies, the Washington Internships for Students of Engineering (WISE) has become one of the premier Washington internship programs. The program's goal is to groom future leaders of the engineering profession in the United States who are aware of and who can contribute to the increasingly important issues at intersection of science, technology and public policy.

Each year, the WISE societies select outstanding 3rd year or 4th year engineering/computer science students, or students in engineering/computer science graduate programs, from a nation-wide pool of applicants. The students spend nine (9) weeks in the summer in Washington, DC during which they learn how government officials make decisions on complex technological issues, and how engineers can contribute to legislative and regulatory public policy decisions. ASHRAE's Government Affairs Office hosts an outstanding engineering student every summer through this program.

THE ASKS

Please forward the above information and [this link](http://www.wise-intern.org/application/index.html)(<http://www.wise-intern.org/application/index.html>), which directs interested individuals to the application process, to your student members at your earliest convenience as the deadline for applications is fast-approaching (December 31).

Direct programmatic inquiries you receive about this program to Mark Ames, manager, Federal Government Affairs at mames@ashrae.org, or if an individual wishes to apply, please direct them to the above link.

If possible, please include this information on your respective chapter/regional web pages, in newsletters, etc.

Thanks in advance for your attention and responses,

Mark Wills

Learning Opportunities—Industry Happenings

...Contact your local chapter president for more info!

ASHRAE Learning Institute

2013 Spring Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses
Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)
Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Standard Time.

Basics of High-Performance Building Design Mon, March 18, 2013 – 1:00 pm to 4:00 pm ET	Humidity Control Troubleshooting NEW Mon, April 22, 2013 – 1:00 pm to 4:00 pm ET
Air-to-Air Energy Recovery Fundamentals Wed, March 20, 2013 – 1:00 pm to 4:00 pm ET	Combined Heat & Power: Creating Efficiency Through Design & Operations Wed, April 24, 2013 – 1:00 pm to 4:00 pm ET
Advanced High-Performance Buildings Design Mon, March 25, 2013 – 1:00 pm to 4:00 pm ET	Complying with Standard 90.1-2010: HVAC/Mechanical Mon, April 29, 2013 – 1:00 pm to 4:00 pm ET
Air-to-Air Energy Recovery Applications: Best Practices Wed, March 27, 2013 – 1:00 pm to 4:00 pm ET	The Commissioning Process & Guideline 0 Wed, May 1, 2013 – 1:00 pm to 4:00 pm ET
Complying with Standard 90.1-2010: Envelope/Lighting Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET	Fundamental Requirements of Standard 62.1-2010 Wed, April 17, 2013 – 1:00 pm to 4:00 pm ET

* Take 3 or more courses and save 20% off registration!

HVAC Design Training

2 Courses, 5 Days of Intense Instruction

March 18-22, 2013 • June 3-7, 2013 • August 12-16, 2013

HVAC Design: Level I - Essentials

This training provides intensive, practical education for designers and others involved in delivery of HVAC services. 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 training course 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.

Creating Effective, Highly Skilled Engineering Team Members

- Gain knowledge to make immediate contributions to design projects
- Participate in in-depth, practice-focused training
- Learn from industry leaders selected by ASHRAE
- Receive free bonus resources valued at over \$200

Visit www.ashrae.org/hvacdesign to register

MORE Learning Opportunities



Chapters Regional Conference

April 18 Through 20, 2013

at Hyatt Regency on Lady Bird Lake – Austin, Texas

<https://resweb.passkey.com/go/dash> for Hotel Reservations

Who should go to CRC?

- Chapter Delegates and Alternates
- Incoming Chapter Officers and Committee Chairs
- Regional Officers
- ASHRAE Members wanting to affect the direction that ASHRAE and our industry is moving
- ASHRAE Members who would like professional development. Technical sessions will be held Thursday, Friday and Saturday (six hours available)
- ASHRAE Members that like Region VIII Parties
- ASHRAE Members wanting to come see Austin
- Anybody else that I didn't cover with the above items

Registration Goes Live February 15, 2013

Questions?..... billklock.ashrae@eeace.com





ASHRAE PRESS RELEASE—ANNOUNCEMENT

For Release:
Dec. 10, 2012

Contact: Jodi Scott
Public Relations
678-539-1140
jscott@ashrae.org

Standard for High Performance Green Health Care Facilities Open for Public Review

ATLANTA – A prescription for the design, construction and operation of high performance health care facilities would be provided through a proposed standard from ASHRAE and the American Society for Healthcare Engineering (ASHE).

ASHRAE/ASHE Standard 189.3P, Standard for the Design, Construction and Operation of Sustainable High-Performance Health Care Facilities is open for public comment from Dec. 7, 2012-Jan. 21, 2013. Visit www.ashrae.org/publicreviews for more information.

“Healthcare facilities are often the largest and most energy intensive buildings in a community,” Standard 189.3 committee chair Michael Sheerin said. “In today’s competitive and regulated market, these facilities are challenged to provide capital for increasingly complex new buildings that meet sustainability objectives as they experience decreasing finances for life-sustaining services. In addition, health care facilities are home to services that require energy use for patient safety.”

Proposed Standard 189.3 would help facilities in meeting those multiple needs by providing the procedures, methods and documentation requirements for the design, construction and operation of high performance sustainable health care buildings. It would apply to patient care areas and related support areas within health care facilities, including hospitals, nursing homes and licensed outpatient facilities.

The standard covers key topical areas of site sustainability, water use efficiency, energy efficiency, indoor environmental quality and the building’s impact on the atmosphere, materials and resources. Additionally the standard has a special section to address the emissions, effluents and pollution that is commonly discharged from these facilities.

Proposed Standard 189.3 provides guidance to achieve improved energy efficiency for the selection of materials and furnishings and for utilizing green facility operating processes.

The standard builds upon the guidance for creating high performance buildings addressed in a parallel standard, ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, while accommodating the unique factors that impact health care facilities.

Specific ventilation requirements for health care facilities are addressed in ANSI/ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities.

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.



ASHRAE PRESS RELEASE—ANNOUNCEMENT

For Release:
Feb. 20, 2013

Contact: Jodi Scott
Public Relations
678-539-1216
jscott@ashrae.org

San Antonio Engineer Nominated as ASHRAE New Face of Engineering

ATLANTA – Stillman Jordan III is one of the 20 nominees received by ASHRAE for the New Faces of Engineering recognition program.

The program, part of National Engineers Week (NEW) and co-sponsored by ASHRAE, promotes the accomplishments of young engineers by highlighting their engineering contributions and the resulting impact on public welfare. The program targets those age 30 and younger. The top nominee from each engineering society represented on the NEW committee will appear in a full-page ad in *USA Today* during National Engineers Week, Feb. 17-23, 2013.

ASHRAE created the New Faces program in 2003, when it served as lead society for National Engineers Week.

Jordan is a mechanical engineer in training, HDR Engineering, San Antonio, Texas.

He holds a Master of Science in Mechanical Engineering and a Bachelor of Science in Mechanical Engineering, University of Texas at San Antonio.

Jordan has completed mechanical designs and energy models for four Leadership in Energy and Environmental Design (LEED®) Silver eligible buildings that are estimated to use 30 percent less energy than the Standard 90.1 baseline buildings. While working fulltime and pursuing his master's degree at the University Texas at San Antonio part time, he has specialized in energy modeling. In 2012 he published and presented original work on energy use and payback comparison of four air distributions systems in schools at the ASHRAE Energy Modeling Conference and ASME International Congress and Exposition.

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ASHRAE PRESS RELEASE—ANNOUNCEMENT

For Release: Feb. 7, 2013

Protocols for Performance Measurement Published

ATLANTA – Tools and techniques for measuring, managing and improving the performance of a facility as demonstrated by its energy and water use and indoor environmental quality, are contained in a new guide.

“This is the book that facility managers, building operators, technicians, consultants, commissioning authorities, architects and design engineers need to ensure that their buildings are green, energy efficient, highly productive, healthy and attractive to others,” Jim Bochat, chair of the project committee that wrote the book, said. “This Guide gives building owners and their consultants the practical performance measurement guidance to meet market demands for keeping operating costs down without sacrificing the health, comfort and productivity of their highest cost component—the building’s occupants.”

“Performance Measurement Procedures for Commercial Buildings: Best Practices Guide” serves as the how-to guide for continuously evaluating and improving the performance of commercial buildings throughout their service life.

Published by ASHRAE and funded in part through a grant from the National Institute of Standards and Technology, the book provides specific best practices in the areas of energy use, water use and four elements of indoor environmental quality (IEQ): thermal comfort, indoor air quality (IAQ), lighting/daylighting and acoustics. Using this guidance, owners can be proactive on an ongoing basis to reduce costs through measurement and verification of their buildings’ environments.

The book is a companion to the 2010 publication, “Performance Measurement Protocols for Commercial Buildings,” which identifies what to measure, how to measure it and how often it is to be measured for inclusion in buildings’ operation and maintenance plan.

The Guide presents step-by-step procedures at three process levels of performance, which are intended to match the level of cost and intensity of effort for a range of types and sizes of facilities. An accompanying CD contains a report template and standardized forms, worksheets and checklists for use by the building in implementing the procedures.

For example, the three process levels of performance for energy are:

- The Basic Evaluation level reduces energy consumption and cost through the elimination of wasted energy and the improvement of system and equipment operation. Measurement focuses on energy bill analysis and a facility walk-through inspection (ASHRAE Level I energy audit) to identify obvious energy waste and low-cost or no-cost improvements; no additional measurement is conducted. This level does not require an outside specialist or professional.
- In Diagnostic Measurement, energy performance measurements include sub-metering of major end uses and specific components, along with the equivalent of an ASHRAE Level II energy audit. The audit task requires the use of physical measurement and instruments, augmented by calculations, by a person experienced in energy use and cost analysis measures. Energy efficiency measures having a simple payback of three to five years are identified.
- At the Advanced Analysis level, evaluation focuses in-depth on specific systems and equipment so as to determine the location and cause of energy use problems. The approach is to compare detailed interval data to self-reference benchmarks that indicate how the systems and equipment should be operating, in the specific application or operational context. The first step is to engage a consultant to identify which systems are to be monitored and how.

The cost of “Performance Measurement Procedures for Commercial Buildings: Best Practices Guide” is \$99 (\$84 ASHRAE members).

To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax : 678-539-2129, or visit www.ashrae.org/bookstore.



ASHRAE PRESS RELEASE—ANNOUNCEMENT

For Release:
Feb. 4, 2013

ASHRAE and UNEP Strengthen Global Cooperation; Launch 2013-2014 Biennial Work Plan

ASHRAE and the United Nations Environment Programme (UNEP) have launched their third biennial Work Plan for 2013-2014, based on a global cooperation agreement signed in 2007, at ASHRAE's 2013 Winter Conference held in Dallas, Texas, Jan. 26-30, 2013.

The ASHRAE-UNEP cooperation agreement was developed to achieve several international goals, including the sustainable phase-out of Ozone Depleting Substances (ODS) in refrigeration and air-conditioning applications; maximizing the climate benefits of using zero ODS alternatives including aspects of energy saving in buildings; as well as facilitating the transfer and adoption of suitable technologies in developing countries.

The new work plan covers the 2013-2014 timeframe with an objective of increasing cooperation between ASHRAE and UNEP by transferring relevant technologies amongst different regions and continents. The plan is prepared based on success achieved and lessons learned from the implementation of two previous work plans.

The new work plan includes two main goals and several relevant actions. The first goal, which addresses emissions reduction, long-term refrigerants and energy efficiency in buildings, includes five different actions. These actions address promoting research of long-term refrigerants, building knowledge of specialists about refrigerants through education and certification, developing a specialized guide for refrigeration installations and coordinating efforts in the area of energy efficiency in buildings.

The second goal aims at promoting expertise and technological information exchange to governments and specialists dealing with ASHRAE and UNEP, developing a regional roster of experts, establishing an international advisory team to assist developing countries in instituting/updating relevant standards and codes, as well as developing joint online tools and a forum for partners and stakeholders, allowing for better communication and dissemination of related information.

The ASHRAE-UNEP coordination team will continue its work to oversee sound implementation of the work plan and facilitate the involvement of ASHRAE chapters around the world as well as UNEP regional teams.

Note to Editors:

About ASHRAE

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.

www.ashrae.org

**Position: MEP Project Engineer**

LNV is seeking a **MEP Project Engineer** for our San Antonio Texas office. This Project Engineer will report to the lead Mechanical, Electrical, Plumbing Engineer.

For a full description of this job posting, [Click Here](#).

Required:

- Accreditation Board for Engineering and Technology (ABET) accredited (Mechanical Preferred) Engineering degree
- Must have a Texas Professional Engineer license (Mechanical Engineering Preferred)
- Proficiency in Microsoft Office Suite (Word, Excel, Microsoft Project); AutoCAD; BIM
- Proficiency in software related to MEP design
- Must hold a valid driver's license and be able to travel 50% of the time.

Preferred:

- Proficient in the use of Trane Trace™, DOE-2 eQuest®, COMcheck™, Energy Star ratings.
- LEED AP certification, Commissioning Professional, Certified Energy Manager
- ASHRAE member, NAESCO member, Master Degree

Do you have a job opening that you would like to advertise? Please coordinate with Rocky Ormand @ rockyo@texasairsystems.com if you would like to consider posting a job opportunity in next month's edition of The Squirrel Cage!