



THIN-AIR BULLETIN

American Society of Heating, Refrigeration, and Air Conditioning Engineers NM Chapter Region IX Albuquerque, NM

February Meeting 2014

Subject:
HVAC Legal Discussions

Speaker:
Kevin M. Sexton, Esp. of Montgomery & Andrews, P.A. Mr. Sexton earned a B.S. in Mechanical Engineering from Villanova University in 1985 and a J.D. degree from Chicago-Kent College of Law in 1994. Mr. Sexton's firm provides a wide array of business and litigation services to clients involved in every aspect of the construction industry. Mr. Sexton concentrates his practice to negotiating and litigating construction-related disputes on behalf of architects and engineers. In addition, Mr. Sexton provides coverage-related services for a number of national insurance companies.

Synopsis: Kevin will discuss legal issues as they relate to our construction and more specifically HVAC industry. He will discuss "horror" stories and cases that he's seeing not only in our local market but also outside of our market as they relate to LEED certification.

President's Message

Dear ASHRAE Member,

The year is in full swing, and hopefully busy and productive for all.

ASHRAE Society had its Winter Meeting in New Year in January. It appears all who attended had a grand time in the Big Apple.

This month's speaker/topic should be interesting as we look into some recent stories and cases associated with Legal discussions and HVAC.

We, as a chapter, are honored to again sponsor two scholarship awards at the upcoming Central NM Science and Engineering Research Challenge. The event is typically held in late March. It is amazing to see the projects that today's middle and high school students produce. If you don't have a chance to attend, the chapter invites the scholarship winners to present at a later meeting. Keep a look out for the meeting date.

I look forward to seeing you at this month's lunch meeting.

Warmest Regards,

Morgan Royce President 2013-2014

From the History Books

February 1976

President: Monie Grover
President-Elect: R.W. Hobson
Secretary: F.E. Peckinpaugh
Treasurer: Buff Ohnhaus



The speaker for the evening was Steve Trelease, Unitary Heat Pump Product Manager for American Air Filter. His presentation was the subject of packaged heat pump applications.

Up Coming Meeting Topics

Our next two meeting will be presented by ASHRAE Distinguished Lecturers/Speakers:

March:
Who Sabotaged my High Efficiency Building?

April:
Ice Storage -

WHEN: Tuesday February 18th, 2014 at 11:45 am **COST:** \$25 Members, \$30 for Guests

WHERE: Pappadeaux Seafood Kitchen, 5011 Pan American West Fwy NE, Albuquerque, NM

RSVP to Erin Coffman by Monday February 17th. Email: Erin.M.Coffman@jci.com or Register Online at newmexicoashrae.org.

Save the Date

2014 New Mexico ASHRAE Golf Tournament

Date: 9/12/2014

Time: 7:30 AM

The 2014 New Mexico ASHRAE Golf Tournament will be held at the **UNM Championship Golf Course** this year! The tournament will feature a shotgun start with a picnic and awards ceremony afterwards. More information to follow. Contact Stephen Forner for sponsorship information or with questions. Stephen.Forner@trane.com or 505-717-3766

New Mexico Chapter of ASHRAE

Shaping Tomorrow's Built Environment Today

Society News Release

Feb 03, 2014

ASHRAE Publishes 2013 Editions of Refrigerant Safety Standards

ATLANTA – The 2013 editions of ASHRAE’s major refrigerants-related standards, incorporating 41 new addenda, have been published.

Requirements in ANSI/ASHRAE Standard 34-2013, *Designation and Safety Classification of Refrigerants*, and ANSI/ASHRAE Standard 15-2013, *Safety Standard for Refrigeration Systems*, complement each other in that Standard 34 describes a shorthand way of naming refrigerants and assigns safety classifications based on toxicity and flammability data. Standard 15 establishes rules for safe application in equipment and systems when the refrigerant classification system. ASHRAE sells the standards as a set.

Standard 34-2013 contains the 2010 standard and 36 published addenda. Among the key changes incorporated into the standard are:

- assignment of designations and safety classifications for one new single compound refrigerant and 14 new refrigerant blends.
- changed the refrigeration concentration limits (RCL) values of 19 refrigerants listed in the 2010 standard to comply with more current methodology.
- changed the flammability safety classifications of four refrigerants from Class 2 to Subclass 2L, based on optional burning velocity measurement data.
- added Toxicity Code Classification assignments for 18 refrigerants that had been unassigned in the 2010 standard.
- clarified methodology for conducting flammability tests and for determination of fractionated compositions for flammability testing.
- updated methodology by which the heat of combustion is calculated for refrigerant blends, and provided heat of combustion calculation examples for refrigerant blends.
- defined requirements that applicants shall provide evidence of the existence of an azeotropic blend, if requesting an R-500 series designation.
- modified sections of the standard to add bubble-point and dew-point definitions and test conditions, clarified applicant documentation requirements related to GLP compliance and added critical pressure data and specific volume calculation methodology for applicant submissions.

Standard 15 contains the 2010 standard plus five published addenda. Key changes to the standard include:

- clarification of the location requirements for machinery room mechanical ventilation.
- clarification that design pressure is expressed in terms of relative pressure or gauge pressure (not absolute pressure).
- wording to ensure the standard more closely harmonizes with the 2012 International Mechanical Code (IMC) section 1101.10.

Standard 15-2013 and Standard 34-2013 are sold together. The cost is \$107 (\$89, 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.

Society News Release

Feb 10, 2014

ASHRAE Spring Online Courses Cover Significant Updates to 90.1-2010, Career Enhancement

ATLANTA – Expert knowledge of sustainable techniques is in demand and the 13 online courses being offered this spring through the ASHRAE Learning Institute (ALI) allow professionals to keep up with the latest industry trends.

Participants can access these instructor-led courses from anywhere with an Internet connection, and earn continuing education units/professional development hours for each course completed.

New this spring is the short course “Significant Changes to Standard 90.1-2010,” on May 14. This course provides an in-depth overview of the standard and answers questions about changes from previous editions in envelope, lighting and mechanical sections.

“90.1-2010 represents the biggest change in the standard since it became a code document in 1999,” Mack Wallace, course instructor, said. “The 2010 standard contains over 100 changes from the 2007 version and decreases energy use in buildings by around 30 percent as compared to buildings built to the 2004 standard.”

Additionally, 90.1-2010 was recognized by the Department of Energy as the new national energy standard, meaning that the numerous jurisdictions are beginning to adopt the standard.

“Each of the states will be required to adopt some form of 90.1 for use on commercial buildings” Wallace said. “The focus of these government organizations will now move to compliance with the standard. All building design professionals will need to be familiar with the new standard as it becomes law.”

The course also is part of ASHRAE’s Career Enhancement Curriculum, which focuses on IAQ Practices and Energy Savings (ES) Practices. The program is a new way to help professionals expand their knowledge in specific areas of HVAC&R and advance their careers.

The courses offered this spring cover a variety of topics relevant to today’s built environment, including:

- Commissioning
 - “Commissioning Process in New and Existing Buildings, Parts 1 & 2” (March 26, April 2)
- Environmental Quality
 - “IAQ Best Practices for Design, Construction and Commissioning” **IAQ Practices** (May 1)
 - “Troubleshooting Humidity Control Problems” **IAQ Practices** (March 24)
- **Energy Efficiency**
 - “Commercial Building Energy Audits, Parts 1 & 2” (April 28, 30)
 - “Basics of High-Performance Building Design” (May 8, 2014)
 - “Energy Modeling: Best Practices and Applications, Parts 1 & 2” (May 5, 12)
 - **NEW** “Evaluation Methods for High-Performance Green Buildings” (May 7)
- **HVAC Applications**
 - “Introduction to BACnet®” (April 14)
 - “Designing High-Performance Healthcare Facilities” (April 23)
- **Standards & Guidelines**
 - “Complying with Standard 90.1-2013, Parts 1 & 2” **ES Practices** (April 7, 9)
 - “Fundamentals and Application of Standard 55” **IAQ Practices** (March 31)
 - “Fundamental Requirements of Standard 62.1-2013” **IAQ Practices** (March 12)
 - **NEW** “Significant Changes to Standard 90.1-2010” **ES Practices** (May 14)

All courses provide professional development through in-depth information that is timely, practical and advanced beyond a fundamental level. Courses are offered every spring and fall.

For pricing or to register, visit www.ashrae.org/onlinecourses.