



ASHRAE

Technology for a Better Environment
Northern Nevada Chapter 126
November 2010 Newsletter

PRESIDENT'S MESSAGE: BRANDON ETCHEMENDY

We had a great turnout at Great basin Brewery last month! Thanks to Devin Abellon for his practical application seminar on radiant cooling.

We are still trying to find a new home for our monthly meetings and are going to try Mario's Portofino this month and we will continue the starting time of **5:30 for cocktails and 6:00 for dinner**.

Some good news on the Wine Tasting front...we are in discussions with Whispering Vines and it looks as though we will once again be holding our event at their store. By moving the tasting to January we have found a less busy time of year and they believe they can accommodate us. I will keep you up to date.

Keep those donations coming for research and promotions; they are what keep our industry proactive for the betterment of our industry. If you would like to make a donation contact Jason Bender jbender@calhydro.com or myself brandon@aspenreno.com.

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

Brandon Etchemendy
Chapter President 2010-2011
Northern Nevada Chapter

PRESIDENT ELECT / PROGRAM CHAIR:
CHRIS LITTLE

First off I would like to thank Devin Abellon from Uponor, Inc. for his presentation last month, I would also like to thank all our Northern Nevada ASHRAE members who showed up to the meeting with questions and comments to make the discussion as relevant as possible.

October Meeting ~ Thursday, November 18th, 2010
The meeting will be held at the original Mario Portofino in Reno
Cocktails at 5:30, Dinner at 6:00, Speaker from 6:15 'til 7:00'ish

Mario Portofino
1505 S. Virginia St.
Reno, NV 89502
(775) 825-7779
www.mariosportofino.com

Topic: Using VFD's to maximize energy savings

Speaker's Biography:

This months' speaker is Richard Schnorenberg from ABB Ltd, a manufacturer of variable frequency drives.

Richard is a Mechanical Engineer graduated from Kansas State University. Richard was an application engineer / VFD specialist for ABB drives at a rep firm in Kansas for nine years before hiring on directly with ABB in 2006 as an application engineer. Richard was promoted in 2008 to ABB Regional Manager for HVAC drives responsible for the southwest region of the USA.

Topic Description:

Richard will be speaking on using VFD's to maximize energy savings after which an open discussion will be available to cover any questions you may have on VFD's in general. Bypass features, serial communication with VFD's for BMS control, VFD harmonics, he will be able to answer questions you may have had for years.

I look forward to seeing everyone at Mario's Portofino.

RESEARCH AND PROMOTION CHAIR:
JASON BENDER

ASHRAE Members-

We are continuing our campaign and need your help to do our Chapters part to help further research in our industry. We have a Chapter goal of \$5500 to be donated for the 2010-2011 Research Promotions Campaign. I'd like to thank those that have contributed in the past, but we will need everyone's help to reach our goal for this year. Please think about what you can do as an individual to help our chapter do its part to support the research projects that help keep our industry moving forward by improving the technology that shapes the systems that we are all involved with.

Please at a minimum take some time request that your company support our chapter with a donation to the ASHRAE RP Campaign! Please send any donations or checks to my office for collection and processing, or bring the checks to a meeting and give it to me there! You will receive receipt that can be used for tax-deduction purposes.

ASHRAE
C/O CHC-Reno
500 Ryland St #120
Reno NV 89502

Jason Bender
RP Chair, ASHRAE N. Nevada

CHAPTER SECRETARY CHAIR:
BRIAN BASSI

2010-2011 Northern Nevada ASHRAE BOG Meeting
Meeting Notes by Brian Bassi - Secretary
October 7th, 2010

Members attending: Brandon Etchemendy, Brenna Smith, Chris Little, Bryan Tilton, Michelle Miller, Candice George, Chun Lee, and Brian Bassi

Meeting occurred at 12:00 p.m. at Great Basin Brewing Company, Sparks.

- Whispering Vine will not reserve a room for the December wine tasting event. The wine tasting event has been moved to January, which may make it more likely that we can reserve a room.
- Chapter audit is to be conducted by Chun, Candice, and Brenna.
- We may have left the projector screen at Austin's. Do we need to buy a new one?
- We are deciding between Brewhouse and Mario's Portofino for the November meeting. Brewhouse has not committed to re-install the door that separates the meeting room from the rest of the restaurant.
- The ASHRAE Scholarship is to be awarded to Dan Berger during the October meeting.

Meeting adjourned at 1:15 p.m.

2010-2011 Northern Nevada ASHRAE Monthly Meeting
Meeting Notes by Brian Bassi - Secretary
October 27th, 2010

Members attending: Chris Little, Brenna Smith, Bryan Tilton, Michelle Miller, Candice George, Chun Lee, and Brian Bassi

Meeting occurred at 12:00 p.m. at the BJ's Brewery, Sparks.

- Michelle has been working with many different venues, including The Grille and Mario's Portofino. Members voted to have the November meeting at Mario's Portofino.
- Raffle prizes are needed for the November meeting.

Meeting adjourned at 1:00 p.m.

TREASURER CHAIR:
BRYAN TILTON

“Checking account balance is \$2,423.86 and the savings account is 12,557.14. Taxes have been submitted for the recent tax fiscal year and we are good to go for another year.”

MEMBERSHIPS PROMOTIONS CHAIR:
CHUN LEE / No update this month.

SHOOT CHAIR:
MATT BRENNAN / No update this month.

CRC & STUDENT ACTIVITIES CHAIR:
CANDICE GEORGE / No update this month.



Mission Statement

*To advance the arts and sciences of heating,
ventilating, air conditioning and refrigeration,
to serve humanity and promote a sustainable world.*

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ATLANTA – By following the guidance in the newly published 2010 energy standard from ASHRAE and IES, more than 20 percent energy reduction can be achieved over savings in the 2004 standard.

“This year marks the 35th anniversary of our flagship energy conservation standard, and the 2010 version of 90.1 represents a milestone achievement in increased energy and cost savings,” Lynn G. Bellenger, ASHRAE president, said. “Working within the constraints of strict economic justification and a prescriptive format, the project committee has achieved remarkable energy savings across all building types and U.S. climate zones. The standard is written in mandatory code language and offers code bodies the opportunity to make a significant improvement in the energy efficiency of new buildings, additions and major renovations. We congratulate the project team and our partners of 35 years, the Illuminating Engineering Society.”

“IES is pleased to continue in its role as a partner with ASHRAE in this 2010 edition of standard 90.1,” Rita M. Harrold, director of technology, said. “Each revision brings new challenges to find ways to reduce energy. Our congratulations to the project committee for its diligence in identifying and demonstrating significant energy savings opportunities compared to the 2004 standard. IES contributions to the savings have been achieved by refining lighting power limits and placing more emphasis on controls and system energy use. We look forward to participating in future versions of the standard where even more focus will be placed on how we can support the goal of designing quality lighting while balancing human needs with energy and cost savings in all building types.”

ANSI/ASHRAE/IES Standard 90.1-2010, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. The standard contains 109 addenda approved since the 2007 standard was published.

At the time of publication, the energy cost savings of the new standard vs. the 2004 standard are estimated to be more than 20 percent. Not all addenda have been included in analysis for these energy savings estimates. Final savings estimates will be issued by ASHRAE when available.

How was the energy reduction achieved? Here are a few examples:

- The Scope was expanded so that 90.1 covers receptacles and process loads, including data centers. This allows future addenda to the standard to address energy consuming equipment and systems previously outside its scope.
- Continuous air barrier and cool/high albedo roof requirements were added.
- Lighting: Most interior Lighting Power Densities were lowered, and additional occupant sensing controls and mandatory daylighting requirements were added for specific spaces, along with a new five-zone exterior Lighting Power Density table.
- Mechanical: Most equipment efficiencies are higher, energy recovery is required in more applications, economizers are required in more climates and more energy-conserving controls are required.
- Modeling requirements have been clarified and expanded so that building modelers can more accurately compare energy cost of their building project with an appropriate baseline building as defined by the standard.

“The 2010 edition of Standard 90.1 represents a significant accomplishment by ASHRAE and IES to implement cost-effective measures for energy conservation in new buildings designed using the standard,” Steve Skalko, 90.1 committee chair, said.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 has become the basis for building codes, and the standard for building design and construction throughout the United States.

The cost of 90.1-2010 is \$125 (\$106, members). The standard is currently available as a PDF download with hard copies slated to be available for purchase later in November. Hard copies are now available for pre-order. To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or visit www.ashrae.org/bookstore.