

# ASHRAE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS

March 12, 2007

## February Meeting Recap

Last month's meeting featured James Domholt, the Sales Manager from ClimateCraft Inc. Mr. Domholt introduced the Chapter to the seismic requirements in the 2003 International Building Code and ASCE 7. Included was an introduction to the origin of the current Code and a comparison between the requirements of the 2000, 2003, and 2006 versions of the Code. Examples and seismic calculations were discussed for several types of buildings in our area and the subsequent impact on the design and construction of the mechanical, electrical and life safety systems.

## March Meeting Guest Speaker

Patrick McMurry  
Public School Facilities Authority

This month's speaker is Patrick McMurry, Head of Field Operations for the Public School Facilities Authority, PSFA. Patrick will introduce us to the mission and organization of the PSFA which allocates public funding for the states public schools. Explained will be the various state agencies and requirements that impact the design of public schools under their authority. Also an introduction to a new post occupancy Quality Assurance program and its impact on equipment suppliers and system designers will be discussed.

## ***PRESIDENT'S MESSAGE***

Ambassadors of HVAC

Most would agree that attracting quality people to our industry is becoming more and more difficult. We are competing with many other industries and often our potential candidates choose to enter an industry that is perceived as more high tech or glamorous. There are opportunities for us to improve this by remembering that we are all Ambassadors of our industry. Our interactions with the community shape the perception of our industry. With a positive message and community involvement, we can improve this perception.

Our message needs to be one that supports the importance of what we do and how we improve the quality of everyday life. Just as important is educating the community on the many new challenges we face such as sustainable design, building green and energy efficiency. These are all opportunities where bright new talent could make significant contributions. The next step is get involved. At the society and local level, ASHRAE is involved in attracting and educating students about our organization and industry. Locally we promote and fund an annual ASHRAE scholarship. Additionally, we recruit volunteer judges for the state science fair. These are some of the ways we stay involved in our community and we always welcome new volunteers. So, whether you get involved through ASHRAE or another means, the important thing to remember is you have an opportunity to improve the perception of our industry.

Warmest Regards,  
Deward Stegall

## Clear Ice Maker Developed Through ASHRAE Grant

ATLANTA

Improved refrigeration technology and beautification come together in a teaching project being funded by ASHRAE.

Through a grant from ASHRAE, students at Pennsylvania College of Technology will design and build a large-scale, clear ice maker for their refrigeration lab. The device also will be used by students in the School of Hospitality for decorative ice carvings.

Twenty grants, totaling some \$118,000, have been awarded by ASHRAE to colleges and universities worldwide to promote the study and teaching of HVAC&R, encouraging undergraduate students to pursue related careers. The grants are used to design and construct projects.

Currently, students in the college's hospitality school use small clear ice blocks that include an unattractive seam where they are connected. The HVAC construction and design technologies students will build a device that produces a large volume, monolithic clear ice structure suitable for carving, which is more attractive than the seamed ice.

To do so, they will use mechanical refrigeration with an intermediate cooling fluid routed through a custom enclosure. The design also includes a reverse osmosis unit for water purification and a custom water distribution system to introduce the treated water into the enclosure. Heating strips will be incorporated to facilitate removal of the clear ice, while PLC controls are used to automate the water flow and freezing rates.

"The device will improve upon the state-of-the-art refrigeration systems used in developing optically clear ice," Thomas Ask, faculty advisor, said.

"The final product also will be beneficially used and appreciated by those in our school of hospitality."

## Membership Promotion Night

The New Mexico Chapter will be hosting our second Membership Promotion night at this month's meeting. We encourage everyone to attend and invite potential members to see how vital ASHRAE is to our industry. Membership applications are available on-line.

ASHRAE Member-Get-A-Member Incentive Program:

Our New Mexico Chapter encourages current Members to encourage and sponsor new applicants. A \$10.00 coupon will be distributed by Society for *each* new member recruited. These coupons may be used for annual dues payment, publication purchases, and logo merchandise purchases. Please include the Sponsor's name and membership number on the application membership form in the section designated for the Member-Get-A-Member Program.

Please contact me at you earliest convenience with any questions regarding membership or the Member-Get-A-Member Incentive Program.

Pat Davis  
patd@mneengineering.com

## From The History Books

November 1968

Chapter Officers were:

President:	William McCord
President-Elect:	Barc Barnet
Secretary:	Robert Friggens
Treasurer:	Pete Lujan

The monthly meeting consisted or a panel discussion regarding "The Pros and Cons of Subcontracting Mechanical Work and/or Material Direct, by the General Contractor". The panel included Stan Borthwick (Lembke Construction, Norman Rupert (Rupert Plumbing), Paul Hood (General Metal Products), Leo Huppert (St. Joseph Hospital) and Don Paxton (Bridgers and Paxton).

The balance of the Chapters' treasury was \$1,386.64.

- NOVEMBER MEETING -

SPEAKER: Patrick McMurry

TOPIC: Public School Facilities Authority

DATE: Tuesday November 20, 2006

TIME: 11:45 AM

LOCATION: Gardunos on The Green

TECHNICAL SESSION: none

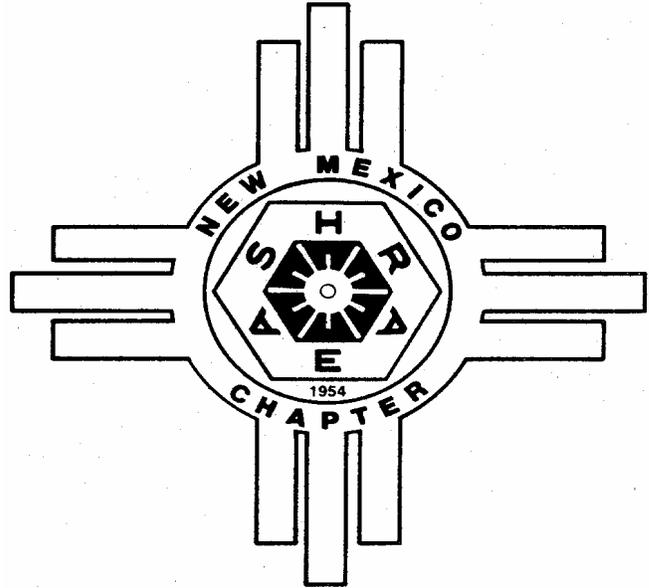
MENU: Bar-B-Q Buffet & Peach Cobbler

COST: \$ 21.00

All Costs are inclusive of tax and tip

RSVP: Friday March 16th, RSVP with meal selection and number of attendees to:

**Rich Reif (505)-883-4111 Ext. 729 or  
RJR@bpce.com**



New Mexico Chapter of ASHRAE

J.R. Sunderman

Norman S. Wright Co.

4303 Ellison NE

Albuquerque, NM 87109

(505)-345-8811 Phone

(505)-344-8535 Fax

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