

# THIN-AIR BULLETIN

NEW MEXICO CHAPTER      REGION IX      ALBUQUERQUE, NEW MEXICO

## ASHRAE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS

September 8, 2006

### September Meeting Program Overview

#### **Facility Managers / ASHRAE Joint Meeting**

This month's meeting will be a joint dinner meeting between the facility managers network and ASHRAE members. It will be held on Wednesday September 20th, it will be a dinner meeting at the Petroleum Club.

The featured guest speaker will be Harry Relkin. Harry Relkin is an Albuquerque native. He obtained his bachelor's degree from the University of New Mexico in 1969 from the college of Education, while majoring in Political Science. He received his Juris Doctor's degree from UNM in 1974. Relkin has practiced law since 1974, primarily in the areas of real estate, business, and public land law. Additionally, he served as an Assistant Land Commissioner for the state of New Mexico during his tenure at the New Mexico State Land Office from 1991 until 2003. Mr. Relkin is now the director of land development for Forest City Covington, NM, LLC, the master developer of Mesa del Sol, a 12,900 acre mixed use development on Albuquerque's South Mesa.



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

The ASHRAE 2006-2007 year is upon us and your local board of Governors is poised to make this a very noteworthy year. The Board recently attended the ASHRAE Chapter Regional Conference (CRC) in Kansas City. This conference provides insight into the direction and current happenings of ASHRAE at both the society and regional level. Just as important, it is an opportunity to network with other chapters to discuss best practices and ideas to make our local chapter better. Additionally, the conference serves as a form for training and recognizing the efforts of the local chapters in the region.

This year we were fortunate to host the new ASHRAE Society President, Terry Townsend, at our regions CRC. President Townsend discussed many of the new ASHRAE initiatives. Some of the highlights included partnering with organizations in our industry such as AIA and USGBC, and a commitment to take a leadership role in developing new energy standards and providing training/certification programs for design professionals. The reoccurring message was "Sustainability" and it was clear that ASHRAE is focused on taking a lead role in sustainable design.

I would like to take this opportunity to thank all of our board members that attended the conference. The New Mexico chapter has a proud tradition of consistently having one of the best attendance records at CRC and this year was no exception. In

### **(Presidents Message Continued)**

fact, this year we won the coveted "Man Miler Award" for having the most members travel the greatest distance to attend. The New Mexico chapter won many other awards as well including; Honor Roll/Star, Full Circle Award, Chapter Historian Award, Best Chapter Tour Award and Outstanding CTTC Chairperson.

Our chapter doesn't happen with out our board members. The entire board is comprised of volunteers and it is important we thank them for their contributions. We have a great group of dedicated board members this year. Our board includes the following individuals:

Resource Promotion - Jason Moorhead  
President Elect/Programs - Rich Reif  
Secretary - Dan Beckley  
Treasurer - Dan Harmeyer  
1st Chair/ Newsletter Editor - JR Sunderman  
2nd Chair/ Golf Tournament - Charlie Scoggin  
Membership Chair - Pat Davis  
Student Activities - Pat Watkins  
Historian Chair - Gary Grange

Our board is doing their part and working hard to make ASHRAE more valuable to you. Our first meeting of the year is in September and it is now time to do your part and support your local chapter by attending this meeting. We look forward to a successful year of serving you, our local membership and encourage you to attend all meetings.

Warmest Regards,  
Deward Stegall

## **ASHRAE Unveils Redesigned Web**

ATLANTA - With a focus on ease of navigation and new technology, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has unveiled its redesigned Web site, [www.ASHRAE.org](http://www.ASHRAE.org)

An improved web site is a corner stone of fulfilling the Society's new Strategic Plan, which calls for sustainability leadership, world-class educational programs, a raised public profile and global access to technical information. A refined Google-powered search engine has been added, and site visitors will

benefit from the site's 100% uptime and increased speed. The new, simpler design incorporates a technology that will integrate with the new member database that goes live this fall, allowing members to easily access subscription management tools for eLists and newsletters, and account history for events, purchases and dues.

"The ASHRAE web site is the key component of the Society's strategy to provide membership service and technical information to the industry," says Steve Comstock, director of publications and education. "With the new technology incorporated into the site, our members and key audiences will be able to access crucial information faster and with greater ease."

Upon logging into the site, members will have access to the MyASHRAE section where they will be able to use the site to reflect their specific interests. Members can sign up for e-mail updates when updated content has been added to a particular section, and a lost password function allows users to quickly retrieve forgotten passwords.

The simplified site navigation is now broken into six tabbed sections:

- . Members (formerly Membership)
- . Publications (formerly Education and Publications)
- . Technology (formerly Technology and Standards)
- . Education (formerly Education and Publications)
- . Events (formerly Meetings and Events), and
- . Students (formerly Student Zone)

Content from the previous site's About Us section now occupies a position at the top left of ASHRAE.org under a new About Us section.

The upgraded site will also include a redesigned bookstore upon the section's completion in December. ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

### **Check Out ASHRAE's New Website!**



## **From the History** **Books**

April 1970

Chapter Officers were:

President:	Barc Barnett
President-Elect:	Robert Friggens
Secretary:	Peter Lujan
Treasurer:	Paul Arnold



The speaker for the evening was Frank Coppler, Assistant City Attorney who spoke on the Model Cities Program.

## **ASHRAE Student Design Competition** **Winning Projects Focus On Mixed-Use Build-**

ATLANTA - Night pre-cooling, naturally daylighted areas and low-emission HVAC systems are some of the sustainable measures selected by students as part of ASHRAE's 2006 Student Design Competition.

This year's competition focused on the mixed-use renovation of the Dallas Power & Light building in a historic area of Dallas. The renovation includes converting the majority of the former office building into residential apartments, with retail space occupying the first floor of the building. Awards were announced in three categories: HVAC system selection, HVAC system design and architectural design.

The winning entries in the HVAC system selection and HVAC system design categories are awarded to the same team from The Pennsylvania State University: Justin Bem, Kevin Kaufman, David Melfi, Jon Gridley, Jessica Lucas and Yulien Wong. Their faculty advisor is William P. Bahnfleth, Ph.D., P.E. .

For the HVAC system selection category, the students selected water source heat pumps, giving the system a life cycle cost of \$7,464,000. The system selected calls for water-source heat pumps to parallel the one rooftop unit serving floors two through 20 and an additional rooftop unit for the first-level retail area. This system allows for easily converting first-level retail space to a new function, limits maintenance disruption to individual apartments and the roof, and allows for separate metering of retail space.

The ventilation systems were evaluated using Standard 62.1 and on their ability to fit into available mechanical room and shaft space. The option chosen was a rooftop unit paralleled by WSHP for residential units, and a rooftop unit serving the retail areas. The students said, "The separation of the two types of spaces allows for better flexibility in the system and allows for future growth."

The system also allowed for lower cost and emissions as well while allowing the building meet Standard 90.1 without compromising historic integrity of building.

For the HVAC system design category, the students designed a decoupled outdoor air system with a parallel sensible system with an energy cost of \$4.72/ square foot per year.

Because the mechanical penthouse on the second-floor roof of the annex was so close to the ground, dealing with architectural, environmental and acoustical impacts were serious considerations. Some of the solutions the students used were: night time pre-cooling with unconditioned night air, and using only fan energy for the retail spaces to reduce cooling load during the day. The students also used a dedicated outdoor air system.

First place in the architectural design category is awarded to Alissa Ogen and Sonia Carias of Savannah College of Art and Design. Their faculty advisor is Emad M. Afifi, Ph.D.. The students, who were required to design a mixed-use collegiate space, designed a student activities center complete with student dormitories, a theater, recycling centers, an amphitheater, retail, landscaping and dining space.

The entry's sustainable design features included pervious sidewalk materials, photovoltaic glass panels inside the cafeteria, translucent, diffuse light-transmitting walls and reflective roofing materials. The students' design also includes a naturally ventilated atrium near the lobby and a naturally daylighted cafeteria that is also shaded to save on energy costs.

Awards will be presented at ASHRAE's 2007 Winter Meeting Jan. 27-31 in Dallas. Winning student groups will each have a poster presentation to display their projects at the meeting.

The competition recognizes outstanding student design projects, encourages undergraduate students to become involved in the profession, promotes teamwork and allows students to apply their knowledge of practical design.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

- SEPTEMBER MEETING -

**SPEAKER: Harry Relkin**

**TOPIC: Mesa Del Sol Development Project**  
**DATE: Wednesday September 20th**  
**TIME: 5:30 pm**  
**LOCATION: Albuquerque Petroleum Club**  
**15th floor, 500 Marquette SW**

TECHNICAL SESSION: none

6:30 pm Dinner and Main Program

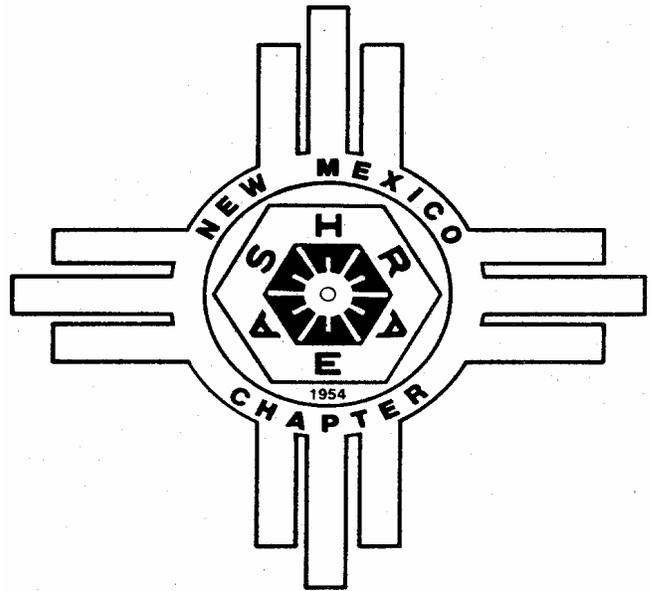
**MENU:** Chicken Picatta with Rice Pilaf OR  
Marinated Flank Steak with Sherry  
Mushroom Sauce OR Chef's  
Vegetarian Choice.

**COST: \$ 25.00**

All Costs are inclusive of tax and tip

**RSVP: Friday September 15th, 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

**CHAPTER MAY NOT ACT FOR SOCIETY**

STATEMENTS MADE IN THIS PUBLICATION ARE NOT EXPRESSIONS OF THE SOCIETY OR OF THE CHAPTER AND MAY NOT BE REPRODUCED WITHOUT SPECIAL PERMISSION OF THE CHAPTER.



**THE HASSLE FREE WAY OF DONATING TO ASHRAE RESEARCH  
FA X TO JA SON MO OR HE AD NO W! AT (5 05 )8 21 -75 46 , OR ...**

Mail Check To:  
**ASHRAE RESEARCH**  
c/o Mechanical Representatives  
8823 Greenarbor  
Albuquerque, NM 87122  
[jason@mechrep.com](mailto:jason@mechrep.com)

**Your Contribution puts us closer to achieving**  
our goal. Please send what you can today!  
\* Individual contributions of \$100 or more and  
Corporate contributions of \$150 or more receive  
this year's Commemorative Coin and Honor Roll  
Contributions status.

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

INDIVIDUAL	\$50.00	\$75.00	\$100.00*	\$125.00	Other: _____
CORPORATE	\$100.00	\$150.00*	\$250.00	\$500.00	Other: _____

\*Minimum of Honor Roll Recognition by Society

*Individual and corporate contributions advance industry research resulting in better products, installation methods, buildings and profits.*

*Please invest in your future through ASHRAE RESEARCH.*

**chapter's thanks and society gratitude are extended to the following member for this year.**