



# THIN-AIR BULLETIN

NEW MEXICO CHAPTER      REGION IX      ALBUQUERQUE, NEW MEXICO

## ASHRAE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS

October 2005

### New Mexico Energy Code Update

We are fortunate to have two speakers this month, Harold Trujillo and Dan Hagen both from the New Mexico Energy, Minerals and Natural Resources Division (EMNRD).

**Harold Trujillo, P.E.** is a past president of the New Mexico ASHRAE and AEE Chapters. He has over 32 years of engineering experience with building energy systems and project management. He has administered energy code projects for the state of New Mexico for over twenty years. Mr. Trujillo is Bureau Chief of the Energy, Minerals and Natural Resources, Energy Conservation Division, Energy Technology Bureau, which is responsible for implementing the Clean Energy Revenue Bond Program, Energy Performance Contracting Act, Public School Energy Design Standard and US Department Energy grants on codes and standards. Mr. Trujillo started his energy work at Lawrence Livermore National Laboratory in 1976 and then returned to NM in November 1979 to work at EMNRD. Mr. Trujillo also served as ASHRAE Regional (IX) Chairman of the Energy and Technical Affairs Committee and was a member of the ASHRAE National Energy and Technical Affairs Committee prior to 2000.

**Daniel Hagan, P.E.** is a project engineer in the Energy Conservation and management division. He has over 30 years of engineering experience with building energy systems and project management. He has worked with building energy code applications for 25 years, starting with the adoption of ASHRAE 90-75 in New Mexico. He is the lead consultant with builders and the public on compliance issues of the New Mexico Model Energy Code and recently conducted training throughout the state. Mr. Hagan was previously self

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### PRESIDENT'S MESSAGE

Well, it has been a quick start to another ASHRAE year. And with the bond issues passing, my guess is that things may start to get a little crazy. With that said...

I often get asked the question what can ASHRAE do for me or my company? I cannot answer that for everyone. All I can say is that you will get out of it what you put into it. I urge all of our members to attend the monthly meetings and to share your talents. There are great opportunities to network or just catch up with a friend.

The chapter will be as successful as directed by its membership. I encourage everyone to get involved. Hope you take the time to get as much out of ASHRAE as possible. I look forward to seeing you at our next meeting.

Stay Healthy,

Jason Moorhead

## From the History Books

November 1968

Chapter Officers were:

President:	W. McCord
President-Elect:	Barc Barnett
Secretary:	Robert Friggens
Treasurer:	Pete Lujan



The meetings title was “The Pros and Cons of Subcontracting Mechanical Work and/or Material direct, by the General Contractor”. The panel consisted of Stan Borthwick, Norman Rupert, Paul Hood, Leo Rupert, Don Paxton and moderated by Bill Carroll.

## **November Speaker continued**

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employed consulting engineer, where he designed building mechanical systems, and designed energy monitoring systems for millions of square feet of commercial buildings across the US. While employed at Brookhaven National Laboratory (1981-1984) and the National Center for Appropriate Technology (1979-1981), Mr. Hagan worked on design and laboratory and field verification of building systems greatly exceeding code requirements. Mr. Hagan is also certified as a US Green Building Council LEED Consultant.

Harold and Dan will present on the updated New Mexico Energy Code. Did you know that New Mexico has adopted ASHRAE 90.1 – 2001? Join us at our October meeting to find out more. This is surely a topic that affects all in our industry. Plan on joining us for lunch on Wednesday, October 19<sup>th</sup> at Gardunos on the Green. Please RSVP by October 14<sup>th</sup> to Deward Stegall at (505) 884-2044 or [Dwstegall@trane.com](mailto:Dwstegall@trane.com). Email is preferred.

## **Research Promotion**

Every dollar raised for ASHRAE Research is used for research. ASHRAE is currently managing over \$11 million in research projects around the world and has many more approved projects just waiting for the funds to begin their research. That’s why your financial support is needed and greatly appreciated.

Need to see value you for you money. Annual contributions total more than \$1.7 million and ASHRAE matches your contribution dollar-for-dollar from the proceeds of the annual winter AHRExposition. Since ASHRAE pays all the fund raising expenses, 100% of every donor’s invested dollar goes into the research program. That’s value for your tax-deductible buck.

A special thanks to all of those who donated last year. We look forward to recognizing your continued support of our organization at our November meeting.

For more information on the Research Promotion project, email me at [dave72graham@aol.com](mailto:dave72graham@aol.com) or 323-7629, or send your check to RESEARCH PROMOTION, 11930 Menaul NE, Suite 214 Albuquerque, NM 87112.

## **September Program Review**

Last month’s program featured Craig O’Hare who was appointed by Governor Richardson as the Special Assistant for Renewable Energy in the New Mexico Energy, Minerals and Natural Resources Department (EMNRD). The program highlighted New Mexico’s initiatives in renewables, energy efficiency, and climate change, as well as similar efforts of the Western Governors’ Association. Craig covered the latest in solar energy technologies and provide some compelling reasons why New Mexico should and could be home to a large solar energy industry in the future. Additionally, Craig discussed the federal govern-

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ment's recently-enacted Energy Policy Act of 2005 and explained opportunities for New Mexico in a wide range of areas, including financial incentives for building energy efficiency, renewables, and alternative fuels for transportation. Thanks to all that attend last month's meeting and we look forward to seeing everyone at this month's meeting.

## Interactive CD

### Interactive CD Provides Greater Access to ASHRAE Handbook

ATLANTA – An enhanced CD-ROM provides greater access to the technical guidance in the ASHRAE Handbook.

The ASHRAE HandbookCD+ 2002-2005 is the Society's first four-volume HandbookCD with electronic enhancements.

"The CD provides users with the most complete and useful HVAC&R reference available," Mark Owen, ASHRAE Handbook editor, said. "The CD+ contains all Handbook chapters with the latest updates in a searchable electronic format, featuring interactive and supplemental tools."

These tools include:

- Spreadsheets demonstrating the radiant time series (RTS) method of load calculation;
- Greatly expanded climatic design data tables from the 2005 Handbook, Fundamentals;
- NAIMA 3E Plus software for calculating insulation thickness;
- A desiccant wheel performance estimator;
- Video clips of kitchen hood airflows;
- Equipment animations;
- Interactive charts and spreadsheets;
- Supplemental examples and text;
- More links to organizations and data;
- Color graphics for improved understanding, surpassing the presentation possible in the black-and-white print volumes;
- Links to commercial resources that allow users to source products and services related to the topic of each chapter.

The CD+ contains PDF files of chapters in

all four current volumes: 2005 Fundamentals; 2004 HVAC Systems and Equipment; 2003 HVAC Applications; and 2002 Refrigeration. The 3,100+ pages of PDFs are searchable across all the volumes, in both the I-P and SI unit editions.

The cost of the Handbook CD+ is \$499 (\$249, ASHRAE members). Prices are for a single user. A multi-user network license and a network HandbookCD+ also are available.

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at [www.ashrae.org](http://www.ashrae.org).

## Award of Excellence

### ASHRAE.org Earns Award of Excellence

ATLANTA – ASHRAE.org, the Web site of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, has earned an award of excellence from the Web Marketing Association.

The association's Standard of Excellence WebAward recognizes the best Web sites in a variety of industry categories. Past Standard of Excellence sites include The American Water Works Association, ABC News, and Abercrombie and Fitch.

Judges noted that ASHRAE.org is "easy to navigate and easy to find your contact information." Entries are judged on design, innovation, content, technology, interactivity, copywriting and ease of use.

The site exceeds 6,000 unique visits per day and hosts 8,000 documents. ASHRAE.org was launched in 1995 to deliver information to the HVAC&R industry, including authoritative, in-depth technical information, information on Society activities, updates on emerging trends in new technologies, and information on HVAC&R products, companies and organizations.

"ASHRAE.org is designed to make it easy for

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visitors to find the information they need in order to help fulfill their obligation to their clients and customers as well as to the Society,” David McAlister, ASHRAE’s manager of electronic communications, said. “For Internet professionals to judge our site a Standard of Excellence in Web design is encouraging. But the usability and friendliness of a site depends on member feedback and constant study of industry best practices. We see this award as confirmation that we’re on the right path.”

Services of the site include:

- Discussion boards to enable practitioners to share expertise and opinions in a variety of technical areas.
- Online meetings for committees.
- An interactive membership application form.
- A career services center where members can post resumes and search for jobs.
- Enewsletters, The HVAC&R Industry, which provides weekly industry update to subscribers, and Society Connections, which provides discussion forums on technical issues and Society news.

The Web Marketing Association was founded in 1997 to help set a high standard for Internet marketing and corporate Web development on the World Wide Web.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

## **ASHRAE Satellite Broadcast**

### **Sustainability Topic of ASHRAE Satellite Broadcast**

ATLANTA – A satellite broadcast is being offered by ASHRAE to fulfill its goal of promoting building sustainability as a means to provide a safe, healthy, comfortable environment while simultaneously limiting the impact on the Earth’s natural resources.

Information about building sustainability principles, practices and emerging concepts will be presented in the free April 19, 2006, satellite broadcast and Webcast, Sustainability and the Building Environment. The program is sponsored by ASHRAE’s Chapter Technology Transfer Committee (CTTC).

“This broadcast will benefit all of the team members involved in the design, construction, start-up, and

operation phases of a facility,” said Jon Christopher Larry, chair of CTTC. “Viewers will be given information and sources to assist them when they are faced with the situation where a green design must be done. The green building industry will also benefit from the engineering input from ASHRAE.”

The speakers for the broadcast will provide guidance on how to practice green building design. They are: Joe Van Belleghem, president, BuildGreen Developments, Victoria, Canada; Hal Levin, Fellow ASHRAE, research architect, Building Ecology Research Group, Santa Cruz, Calif.; Jean Lupinacci, director, ENERGY STAR commercial and industrial branch, Climate Protection Partnerships Division, U.S. Environmental Protection Agency;

Kevin Hydes, P.E., P.Eng., president and CEO, Keen Engineering, Montreal, Canada; and Malcolm Lewis, Ph.D., P.E., president, CTG Energetics, Irvine, Calif.

The broadcast will be similar to the April 2005 Mold in the Building Environment Broadcast/Webcast viewed by some 16,000 viewers at 1,700 locations.

Visit [www.ashrae.org/greenbuildingsbroadcast](http://www.ashrae.org/greenbuildingsbroadcast) for the latest information regarding the broadcast/Webcast and ASHRAE’s work on sustainability.

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## **LEED-NC Technical Review Workshop**

### **LEED Training Comes to Albuquerque**

October 28, 2005

Mark your calendars and register now!! See the attached flyer for details and registration information. Don’t miss this important USGBC LEED Training if you want to know all about it.

See the attached brochure for details. This training course is being hosted for you by the NM Chapter of the USGBC and sponsored by PNM. Support your local chapter – join today so we can bring you more training, speakers and informative events about “greening” our built environment. Follow the link below to download a membership form:

<http://www.usgbc.org/chapters/newmexico/>

- OCTOBER MEETING -

**SPEAKER:** Harold Trujillo, P.E. and  
Daniel Hagan, P.E.

**TOPIC:** New Mexico Energy Code Update

**DATE:** Wednesday October 19th, 2005

**Albuquerque Location:** Garduno's on the Green  
9401 Balloon Museum Dr.

**LUNCH MEETING**

**TIME:** 11:45am Buffet; 12 pm Program

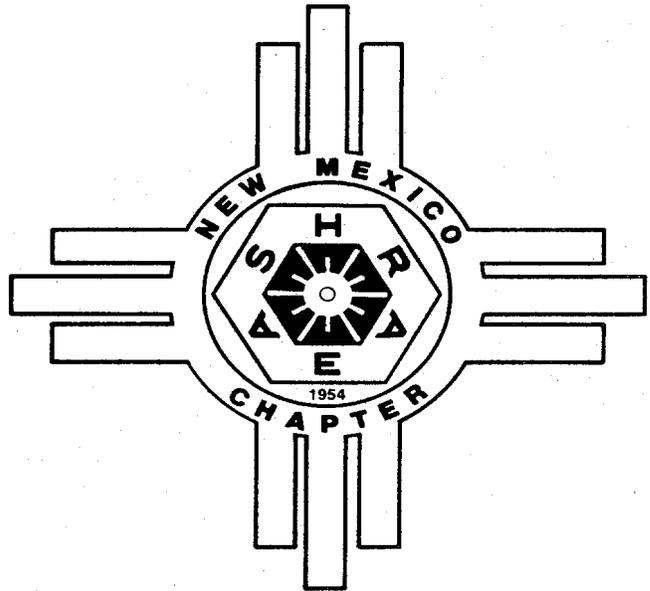
**TECHNICAL SESSION:** None

**MENU:** Buffet

**COST:** \$15.00

All cost are inclusive of tax and tip

**RSVP:** Friday, October 14th, to Deward Stegall at  
505-884-2044 or [Dwstegall@trane.com](mailto:Dwstegall@trane.com)  
**Email preferred**



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\*Minimum for 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.**

**Our chapter's thanks and society's gratitude are extended to the following**

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