



# THIN-AIR BULLETIN

NEW MEXICO CHAPTER      REGION IX      ALBUQUERQUE, NEW MEXICO

ASHRAE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS

April 2006

## **ASHRAE Distinguished Lecturer** **Construction Defect Claims**



**Edward Fronapfel, M.S., P.E**

We are delighted to have ASHRAE Distinguished Lecturer, Edward Fronapfel, M.S., P.E. as the featured speaker for our April dinner meeting. Edward L. Fronapfel is a principal of Professional Investigative Engineers. He received his B.S. degree in Civil Engineering from the Colorado State University, Fort Collins; and M.S. degree in Civil Engineering with emphasis on structural engineering from the University of Colorado at Denver. Mr. Fronapfel's background includes geohydrology, hydrology, hydraulics, civil engineering, structural engineering and construction forensics for building envelop sciences. He is a registered engineer in the states of Colorado, North Dakota, Wyoming, and New Mexico.

Mr. Fronapfel is a seasoned expert speaker for many professional courses and seminars on topics  
*(Continued on page 2)*

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

Well, we are down to our two last meetings before we take our summer break. Please come out and support the chapter. The meetings are both "night" meetings and will be held at the Petroleum Club downtown.

This month's speaker is on the ASHRAE distinguished lecturer list. I believe that the topic of presentation is very interesting. Also, it will be scholarship night. Our local chapter will be handing out awards for the science fair as well as for student activities.

The May meeting will also be an evening meeting and will be a joint meeting with the facility managers group.

I look forward to seeing you at the meeting.

Stay healthy,  
Jason A. Moorhead



(Continued from page 1)

including design and construction defects and the long-term effects, prevention of foundation and structural failures, water and soil issues, structural floors and design, and crawl space and attic ventilation analysis and design. Many projects include the origin and causation of biological growth and determination of remediation and prevention. Mr. Fronapfel's dedication to the community is demonstrated by being an active member of over 17 professional organizations. He has also been published in *The Investigative Engineer* and the *I-Eng-A Report*.

Construction defect claims are on the rise. This lecture will examine the long-term effects and current implications of construction deficiencies. This discussion will review property claims and building standards and deal with issues of "cutting corners," water control, crawls spaces and foundation performance. Through case studies and examples, we will identify the design and construction detailing that result in major structural movements and examine the specific issues associated with poor building performance. Get a glimpse into the future of claims to the insurance industry and learn how to properly design systems to prevent the impacts.

Plan now to join us for a Dinner meeting to be held Tuesday evening, April 18<sup>th</sup>, 2006 at the Albuquerque Petroleum Club, top floor of 500 Marquette SW in downtown Albuquerque. Social hour will start at 5:30 P.M. and dinner will be served at 6:30 P.M. Please RSVP by April 13<sup>th</sup> to Deward Stegall at (505) 884-2044 or Dwstegall@trane.com. Email is preferred.

## March Program Review

### Albuquerque's Economic Climate

Last month's program featured Gary Tonjes, President of Albuquerque Economic Development, Inc. (AED). Since 1960, AED has served as Albuquerque's lead organization for the recruitment of more than 180 new companies to the metropolitan area. Mr. Tonjes spoke about what

types of businesses AED focuses on and some of the things that are involved in attracting new businesses to Albuquerque. This was an extremely interesting program and Mr. Tonjes is a very knowledgeable speaker. From the program it appears that Albuquerque is positioned to have a strong economic future. Thank you to those who attended and a special thanks to our guest speaker.

## ASHRAE Focuses on Future Growth with New Strategic Plan

ATLANTA – A new strategic plan adopted by ASHRAE will help move the Society toward fulfilling its vision of a better future.

"The new plan charts an exciting course for ASHRAE," Lee Burgett, ASHRAE president, said. "It calls for an ASHRAE that addresses new global initiatives, provides better tools to its members and that is more well-known to the groups and individuals who depend on us for technical guidance."

Changing technologies, rising energy prices and increased focus on sustainability have challenged ASHRAE to stay at the cutting edge of the field, according to Burgett. At the same time, competition has increased and ASHRAE must focus its efforts to ensure that its products and services are timely, relevant and appropriately positioned to serve the changing marketplace. The strategic plan will help the Society achieve this, he noted.

"The Board of Directors has planned a course for ASHRAE's future," Kent Peterson, chair of the Planning Committee, which lead development of the process. "Our goal is to make the strategic directions and strategies included in the plan business-as-usual for our volunteers and staff. We are excited about the opportunities to continue to improve ASHRAE's value to our membership and the HVAC&R industry."

The plan can be found at [www.ashrae.org/strategicplan](http://www.ashrae.org/strategicplan). It contains four strategic directions where ASHRAE will focus its efforts over the next several years. They are:

(Continued on page 3)

## 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.

*(Continued from page 2)*

- ASHRAE will lead the advancement of sustainable building design and operations.
- ASHRAE will be a world-class provider of education and certification programs.
- ASHRAE will position itself as premier provider of HVAC&R expertise.
- ASHRAE will be a global leader in the HVAC&R community.

To accomplish these strategic directions, several strategies are identified, including:

- Leading the drive toward the design, construction and operation of net-zero-energy buildings through research, publications and education.
- Developing the performance metrics and rating systems to certify operational performance of buildings for energy efficiency and indoor environmental quality.
- Collaborating with other organizations to integrate HVAC&R systems with other building systems to enhance the effectiveness of total building design and integrated practice.
- Providing accessible on-demand education and distance learning to members and other customers.
- Developing and promoting certification programs for the HVAC&R industry.

In addition, the plan contains an updated mission statement and vision for the Society.

“I am particularly pleased with the Society’s mission statement ‘to advance the arts and sciences of HVAC&R to serve humanity and promote a sustainable world,’” Burgett said. “When we get embroiled in details about our technology, this statement is a useful reminder that ASHRAE’s cumulative work product improves the quality of life for people around the world.”

## **ASHRAE Names Three New Distinguished Lecturers**

ATLANTA – Three new distinguished lecturers have been named by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

The Distinguished Lecturers Program provides ASHRAE chapters with noted authorities who provide insight and speak on relevant topics that impact the HVAC&R industry.

The new lecturers and their areas of expertise are:

- Chandra Sekhar, Ph.D., associate professor and director of external relations, Department of Building, National University of Singapore – Ventilation, Indoor Air Quality (IAQ) and Energy Issues in Hot, Humid Climates – Past, Present and Future; Integrated IAQ and Energy Case Studies in the Tropics; and Decoupled Ventilation Strategies for Enhanced IAQ – Demand Cooling and Demand Ventilation.
- TL Chen, CEng, CEO, Primetech Engineers, Malaysia – A Selection of Common HVAC Design Problems for Hot and Humid Climate Application; Tracking the Progress of Designing for Energy Efficient and Sustainable Office Buildings in Hot and Humid Climates; Critical Review of the Objectives of Fire Engineering; and Fire and Life Safety Audit for the Building Industry.
- Charles Gullledge III, P.E., senior mechanical engineer, AC Corp., Greensboro, N.C. – MasterFormat 2004; and Integrated Building Design.

The new lecturers will serve a two-year term. There are 44 Distinguished Lecturers for 2006-07. ASHRAE has had a total of 72 lecturers since the program started in 1996-97.

To arrange for a lecturer visit, contact Rosy Douglas, manager of chapter support, at [rdouglas@ashrae.org](mailto:rdouglas@ashrae.org) or 404-636-8400.

- APRIL MEETING -

SPEAKER: **Edward Fronapfel, M.S., P.E**

TOPIC: **Construction Defect Claims**

DATE: **Tuesday April 18th, 2006**

LOCATION: Albuquerque Petroleum Club  
15th floor, 500 Marquette SW

TIME: **5:30 pm**

TECHNICAL SESSION: none

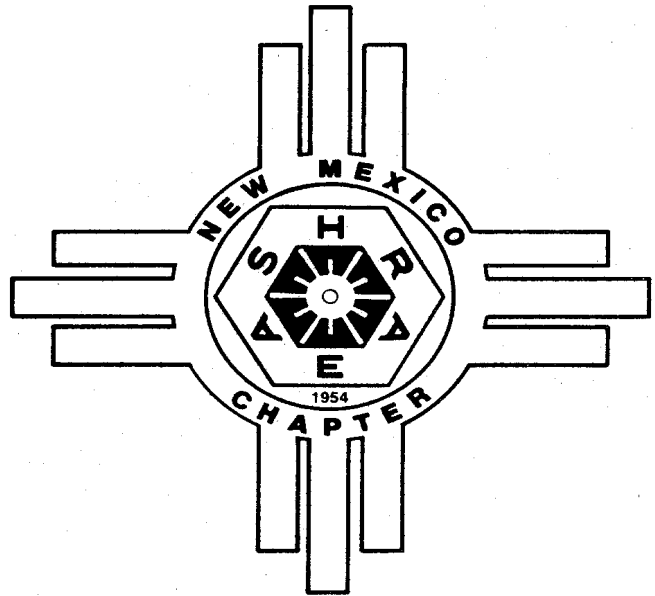
6:30 pm Dinner and Main Program

MENU: ????

COST: \$ 22.00

All Costs are inclusive of tax and tip

RSVP: Thursday, April 13th, to Deward Stegall  
at (505) 884-2044 or **Dwstegall@trane.com**



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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.*

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

**\$500 and above:**

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**\$250 and above**

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**\$100 to \$249**

Nick Nellos Endowment

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Jim Feeney Consulting

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**Up to \$100**

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Brad Turk

Andrew Beall

**Current  
Collections  
for 2005 - 2006**

\$11,000

\$10,000

\$9,000

\$8,000

\$7,000

\$6,000

\$5,000

\$4,265

\$4,000

\$3,000

\$2,000

\$1,000

