



# THIN-AIR BULLETIN

NEW MEXICO CHAPTER      REGION IX      ALBUQUERQUE, NEW MEXICO

ASHRAE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS

April 2004

## Different Methods of Assessing Indoor Sound Criteria

This month's program features Frederick A Lorch with Phoenix Controls Corporation. The program will cover the history, methodology, characteristics, and benefits (or detriments) of the four most often used methods of determining indoor sound criteria. The four criteria being dBA, NC, RC and RC Mark II. It will also include a brief tutorial on the basics of sound.

Also, this month there will be a technical session "Designing For Sound Quality" held before the main program. It will be a step by step calculation of the indoor sound resulting from several designs for a laboratory space with fume hoods. The presentation will show how to obtain the desired sound quality in the most cost efficient way.

This program is at the Petroleum Club on Tuesday April 20th. The technical session starts at 5:20 and for those who do not attend the technical session the cocktail hour starts at 5:30 pm then the dinner and program follows at 6:30 pm. Dinner will be Roast Top Sirloin with home-browned pan sauce served with vegetable of the day and dessert du jour. Cost is \$22.00 inclusive. Please reply by noon on Friday April 16<sup>th</sup> by e-mail [davidg@cmenm.com](mailto:davidg@cmenm.com) or call David Graham at 884-8868.

## PRESIDENT'S MESSAGE

We had another great program in March. The speaker gave us an overview of the US Green Building Council LEED certification program. I believe many in attendance were interested in learning about this program and those of you engineers who were not interested soon will be if you what to do any Government projects.

David Graham has lined up another good program for this month and our May meeting will be a joint meeting with the Facility Managers.

This month's meeting is membership month, so bring a prospective new member and they will get there meal free.

We will also be awarding a scholarship and recognizing the science fair winners.

See you there.

Mike Dunavant  
NM ASHRAE Chapter President.

## APRIL SPEAKER PROFILE

### Frederick A Lorch

Mr. Lorch has been an active member of ASHRAE since 1974 and serves on Technical Committees related to Room Air Distribution, Testing, Adjusting and Balancing, Laboratory Systems, and Controls and Instrumentation. Mr. Lorch is currently the Section 2 Head on the ASHRAE standing committee for Technical Activities [TAC].

Mr. Lorch has participated in the development of Methods of Test for Ducted Terminal Units, Room Air Distribution, Performance of Laboratory Fume Hoods, Air Inlets and Outlets, and Practices for Measurement, Testing, Adjusting, and Balancing of HVAC & R Systems.

Mr. Lorch has more than thirty years experience in the air distribution industry and has contributed to the design, development and performance evaluation of such notable products as pressure independent VAV terminal units, direct digital controlled terminal units, fan powered terminal units, and a host of diffusers and return air grilles. He has designed and conducted full-scale mockups evaluating comparative performance of air distribution systems. In 1993, Fred joined Phoenix Controls Corporation, where he investigates and evaluates innovations and technologies for laboratory and critical airflow control. Mr. Lorch also directs the use of a full-scale laboratory mockup to help determine the performance characteristics of fume hood containment, laboratory airflow control and laboratory noise.

Mr. Lorch holds a BS in Nuclear Science from the New York State Maritime College and is a licensed Professional Engineer in the states of New York and Texas.

## ASHRAE MEMBERSHIP

April's chapter meeting is designated as a Membership Orientation meeting. New members, student members and returning members are ASHRAE's way of meeting the technical demands of the HVAC affiliated industries now and in the future. As importantly, we promote our own goals and agendas through the chapter for the benefit of our local communities, industries, universities and governments.

How better to achieve this work than by inviting membership from different areas, even outside the immediate HVAC area. The chapter will pay for any new candidates' dinner this month and we will present to the candidate Society information detailing the advantages of ASHRAE membership.

Society's target groups for increasing membership this year are public utilities, education, manufacturers and building owners and managers. We will announce our goals for these categories at the October meeting. Invite a prospective member to join you for dinner. You get to treat them to dinner at no cost to you, they add to the chapter by becoming a member and the chapter grows making its benefit to you all the better.

You will find membership applications at the meeting and you can download the application at [www.ashrae.org](http://www.ashrae.org). Please feel free to email me, Bob Galler, Membership Promotion Chair, with any questions at [robert.j.galler@intel.com](mailto:robert.j.galler@intel.com).

## From the History Books

April 1982

Chapter Officers were:

President: David Summers

President-Elect: Dale Crews

Secretary: Terry Walker

Treasurer: Gary Grange

The speaker for the meeting was John Degenkolb, a fire protection engineer & code consultant. He spoke about fire codes in relationship to atriums. He indicated that ASHRAE had contributed very little to the development of fire safety codes.

Account balance was \$2,212.68.

## ASHRAE Student Activities Update

We recently had some ASHRAE members judge the NWNM Regional Science & Engineering Fair at UNM. The Chapter awarded two \$100 scholarships to two outstanding projects relating to our industry. The two award winners were:

Benjamin Dexter

Eloy Duran

Both students and their parents will be on hand at the April meeting to receive their awards and will have their projects on display. We would also like to thank their teachers and the judges: Dan Harmeyer, Charles Steele, and Dan Beckley.

## March's Program Review

### LEED's Basics

Last month's program featured Carol Marriott who is the Applications Manager for McQuay International. She discussed the LEED requirements and discussed aspects related to all the sections including special emphasis on those requirements that applied to HVAC. She also presented information covering some of the 90.1 requirements to score LEED points. Thank you to all who attended last month's program and we look forward to seeing you at April's meeting.

**- APRIL DINNER MEETING -**

**SPEAKER: Frederick A Lorch  
Phoenix Controls Corporation**

**TOPIC: Different Methods of Assessing  
Indoor Sound Criteria**

**DATE: Tuesday, April 20th, 2004**

**LOCATION: Petroleum Club  
500 Marquette NW**

**TIME: 5:20 Technical Session**

5:30 Social Hour

6:30 Dinner and Main Program

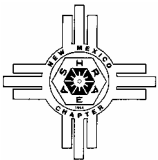
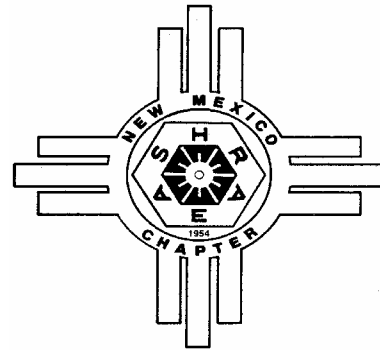
**MENU: Roast Top Sirloin with home-browned  
pan sauce served with vegetable of the  
day and dessert du jour**

**COST: \$22.00**

All cost are inclusive of tax and tip

**RSVP: Friday 12:00, April 16th, to David  
Graham at 505-884-8868 or e-mail:**

**davidg@cmenm.com**



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