



THIN-AIR BULLETIN

American Society of Heating, Refrigeration, and Air Conditioning Engineers NM Chapter Region IX Albuquerque, NM

May Meeting 2014

Topics :

- Underfloor Air Distribution (UFAD): The View From 55 Million Square Feet
- Industry drivers-- Operating benefits, LEED impact, trends
- UFAD fundamentals/compare and contrast with OH design, DV design
- Design Considerations-- overview of interior and perimeter options
- Underfloor distribution, temp and pressure dynamics/system integration/RA rules of thumb

Speaker:

Jack Geortner, FlexSys UFAD Systems Manager, Johnson Controls, Inc.

Jack Geortner is the General Manager for the FlexSys Underfloor Air Product Group at Johnson Controls. Based in Los Angeles, CA, he has over 20 years experience with the AE community in both domestic and international markets. Prior to joining York International, now a part of Johnson Controls, in 2001, he held executive positions with major suppliers in the building products industry, including the C/S Group, Forms and Surfaces and Steelcase.

He was Global Accounts Director at Tate Access Floors prior to joining York/Johnson Controls. He is a LEED Accredited Professional."

New ASHRAE UFAD Design Guide: Construction and Operation of Underfloor Air Distribution (UFAD) Systems.

The first update since 2003, the just published ASHRAE UFAD guide provides assistance in the planning, construction and operation of UFAD systems while carefully detailing the major differences between UFAD and more traditional forms of space conditioning.

Learning Objectives:

- Summary of updated laboratory and field results on UFAD design, including plenum dynamics
- Survey of most prevalent perimeter design options, including first cost and operating impacts
- Key construction and building operation best practices

President's Message

Dear ASHRAE Member,

This month is our last Lunch Meeting of the 2013-2014 year. We will begin a new year after the summer. This is also my farewell address as the 2013-1014 Chapter President and I want to thank all the chapter members, the Chapter Board of Directors and Committee Chairs for all their support through this year.

This year has been a great success for the New Mexico Chapter of ASHRAE technical luncheons, because of our great membership involvement and attendance. I would like to thank Erin Coffman the Chapter CTTC Chair for all the great venues.

As a Chapter we are always looking for new ways to get members involved and support our community. This year we are trying our hand at MUDD Volleyball. Please see Flyer Below and join us.

The Board would like to send our condolences to the family of Steve Benavidez. Steve passed away last month, obituary attached.

I look forward to seeing you at this month's lunch meeting.

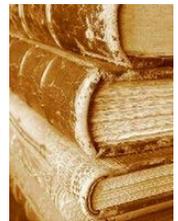
Warmest Regards,

Morgan Royce President 2013-2014

From the History Books

October 1970

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



There were 39 members and 2 guests in attendance. At the meeting held at the Sun Room of the Albuquerque Sunport. The speaker was Ray Barlow, Manager of Engineering, Tuttle & Bailey, He presented a paper which included the entire history of the development of the dual duct air conditioning concept.

The Treasurer reported a balance of \$224.98.

WHEN: Tuesday May 20th, 2014 at 11:45 am **COST:** \$25 Members, \$30 for Guests
WHERE: Pappadeaux Seafood Kitchen, 5011 Pan American West Fwy NE, Albuquerque, NM
RSVP to Erin Coffman by Friday May 16th. Email: Erin.M.Coffman@jci.com or Register Online at newmexicoashrae.org.

Membership

STILL SEEKING NEW MEMBERS: ARE YOU NEW TO THE HVAC BUSINESS. MEMBERSHIP PROVIDES YOU A GREAT WAY TO NETWORK AT THE MONTHLY MEETINGS AS WELL AS THRU THE NATIONAL SOCIETY.
THE VALUE OF THE AVAILABLE MATERIAL TO YOU FAR OUTWEIGHS THE COST OF YOUR MEMBERSHIP.

WELCOME NEW MEMBERS:

MICHAEL R WILSON

WILLIAM HINE

PAUL SANDOVAL

ROBERT QUINTANA II

CHARLES W DUPRE, JR

NEED HELP WITH YOUR MEMBERSHIP? CONTACT ME: ALLEN ANAYA; 505-385-7338; ANAYA@CLIMATEC.COM

Save the Date

2014 New Mexico ASHRAE Golf Tournament

Date: 9/12/2014

Time: 7:30 AM

The 2014 New Mexico ASHRAE Golf Tournament will be held at the **UNM Championship Golf Course** this year! The tournament will feature a shotgun start with a picnic and awards ceremony afterwards. More information to follow. Contact Stephen Forner for sponsorship information or with questions. Stephen.Forner@trane.com or 505-717-3766

New Mexico Chapter of ASHRAE

Shaping Tomorrow's Built Environment Today



Mudd Volleyball 2014

June 7, 2014

ASHRAE is assembling a team for Mudd Volleyball to raise money for the Carrie Tingley Hospital Foundation Friends and family welcome.

\$20/team member

\$75/banner sponsor

Interested team members and sponsors contact Stephen Forner:

Stephen.Forner@trane.com or (505) 717-3766



***** SEEKING someone to be the Membership Chair for 2014 – 2015 Term. Requires about 4-6 hours per month to fulfill the role and it allows you to get involved in your local community.**

Contact me is interested: Allen Anaya; 505-385-7338; ANAYA@CLIMATEC.COM

Obituary for Stephen E. Benavidez

Age 55, Stephen unexpectedly passed away on Thursday, April 3, 2014. He is survived by his wife, Neva M. King of Albuquerque; mother, Eva M. Parker; children, Allison N. Parraz, Leslie S. Benavidez; grandchildren Dominic, Jude, Addison, and Ruby; siblings Bernadette Vadurro, Ben Benavidez, Annette Stephens, and Anthony Benavidez; many nieces, nephews and friends. Steve was preceded in death by his father, Nap Benavidez and nephew; Michael Ortiz. Steve proudly served as a Sergeant in the United States Air Force. He was a parishioner at Risen Savior Catholic Community and formerly a parishioner, lector, Eucharistic Minister, Scholarship Committee Member, and Youth Group Minister at Aquinas Newman Center. He was active in his profession as a Project Manager Team Leader for SW District, Trane, with an MM98 Mechanical Licensure. Steve was a former president of the NM Chapter of the Association of Energy Engineers; member and scholarship chairman of ASHRAE; and served as a committee member at CNM. He selflessly donated 70+ gallons of blood in his lifetime to United Blood Services and during his military service. In addition, he gave one of his kidneys to his brother. Steve was a NAUI certified scuba diver since 1979. He was a competitive racquetball player, earning first place state titles in 2010 and 2011, and second place in 2013. He coached his two daughters in little league and coached/played competitive slow pitch softball, leading his team to an undefeated season (16-0). Always a loyal fan of the New Mexico Lobos Basketball team and the Dallas Cowboys, Steve loved sports throughout the years. He was passionate about many facets of life. Since the age of 13 he walked 30+ years to Santuario de Chimayo, a 26 mile pilgrimage. He was known for his infectious laugh and humor. He always lit up a room with his smile. His kind and generous nature made him a leader by example. Steve was a very intelligent man who loved to read. Always a gentleman, he never missed an opportunity to cherish his wife, Neva, and his love for her was evident to all. Being a grandfather meant the world to him. He was his grandson Dominic's role model and he never missed an opportunity to show his love and support. The legacy Steve leaves behind is an enduring love for his wife, family and friends. Rosary will be recited Thursday, April 10, 2014, 6:00 p.m. at FRENCH – Wyoming. Friends may visit beginning at 5:00 p.m. Mass will be celebrated Friday, April 11, 2014, 10:00 a.m., at Risen Savior Catholic Community, 7701 Wyoming Blvd. NE. Interment will follow at 2:15 p.m. at Santa Fe National Cemetery. In lieu of flowers, memorial contributions may be made to the Stephen E. Benavidez Scholarship for Energy Engineers. Checks may be mailed to Attn: NMAEE, 2600 American Rd. SE, Suite 360, Rio Rancho, NM 87124.

*FRENCH – Wyoming
7121 Wyoming Blvd. NE
(505) 823-9400*

SCHOLARSHIP FUND:

<http://nmaee.org/catalog.php>

Society News Release

April 10, 2014

Supply Water Temperature Classification New Addition to Updated Guidance on Cooling Data Centers

ATLANTA— Data center rack heat loads are steadily climbing, creating a need for liquid cooling solutions to reduce the volume of airflow needed, as well as lower processor temperatures for better computer performance. “Liquid Cooling Guidelines for Datacom Equipment Centers,” second edition, recently published by ASHRAE, provides best practice guidance for implementing liquid cooling systems in data centers.

“There is an increasing interest in liquid cooled IT equipment at the rack, equipment and component levels,” Don Beaty, publication chair of Technical Committee 9.9., Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment, said. “There is also increased interest in reuse of the heat rejected from IT equipment. One of the more important changes to the second edition is the addition of supply water temperature classification.”

Beaty claims that the addition of liquid classes can have a similar effect on the industry as the creation of supply air temperature classes did—which was the critical enabler to the use of economizers in data centers.

“There are five water temperature classes with the highest temperature class being >45 C (113 F), which opens up possibilities for using the rejected heat for building heating systems,” he said.

The guide bridges the liquid cooling systems by providing guidelines on interface requirements between the chilled-water system and the technology cooling system and on the requirements of liquid-cooled systems that attach to a datacom electronics rack to aid in data center thermal management.

Also included are updated references and further information on approach temperatures and liquid immersion cooling, plus guidance on water quality problems and wetted material requirements.

Additionally, the guide covers definitions for liquid and air cooling as they apply to IT equipment, along with an overview of chilled-water and condenser water systems and other datacom equipment cooling options.

This book is the fourth in the ASHRAE Datacom Series, authored by ASHRAE TC 9.9.

The cost of “Liquid Cooling Guidelines for Datacom Equipment Centers,” second edition, is \$54 (\$46 ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 50,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at www.ashrae.org/news.

Donate to ASHRAE Research Promotion!

ASHRAE RP supports grants for research that has a tangible effect on the standards we reference for design and construction. The Energy Standard 90.1, Ventilation Standard 62.1 and Thermal Comfort Standard 55 would not exist as they are without solid research.

Go Online and Donate at:

<https://xp20.ashrae.org/secure/researchpromotion/rp.html>