



April 10, 2013: Vol. 55, No. 08

Produced by: Tony Finch
Chapter Newsletter Editor/ Chairman

The Therm, is a monthly Newsletter for chapter members and HVAC&R professionals alike, that provides information about the Fort Worth Chapter of ASHRAE.

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President's Message

Hi, I'm Dan Merkel, President of Fort Worth ASHRAE.

Thanks to everyone who made last month's meeting a great success with AEE and TCU! Also, thanks to all the sponsors, participants, and volunteers for their help with our latest golf tournament. Final numbers aren't in yet; however, we have a chance to break the \$8,000 mark yet again. Outstanding!

We are very fortunate to welcome another Distinguished Lecturer to our chapter! Namely, Dan Int-Hout. Dan will be speaking about Methods of Effective Room Air Distribution.

Don't forget about our ASHRAE CRC on April 18th in Austin and for those not traveling to Austin, Texas AirSystems will be hosting a Webcast on Assessing Building Energy Performance the same day.

Lastly, please see the rest of the Therm for more information.

Take care,

Dan

April Program – April 17, 2013

[2 Hour Seminar](#)

Date: April 17, 2013
Time: 8:30 a.m. – 10:30 a.m.
Location: Carter Burgess Plaza Petroleum Club – 40th Floor
Downtown Fort Worth, 777 Main St., Fort Worth, TX 76102
Topic: "Methods of Effective Room Air Distribution"
Cost: \$10 per person and only \$5 per person if you attend the luncheon meeting as well. Student members are allowed to attend for free. Breakfast pastries, juice, and coffee will be provided.

Next Chapter Meeting

April 17, 2013

8:30am
"Methods of Effective Room Air Distribution"

11:30am
"What a (room) Load"

777 Main Plaza
777 Main St.
40th Floor
Fort Worth, TX

[CLICK HERE TO CONTRIBUTE!](#)

Luncheon Meeting

Date: April 17, 2013
Time: 11:30 a.m. – 1:00 p.m.
Location: Carter Burgess Plaza Petroleum Club – 40th Floor
Downtown Fort Worth, 777 Main St., Fort Worth, TX 76102
Topic: "What a (room) Load"
Cost: \$25 which includes lunch and dessert.

Meeting Outline:

"What a (room) Load"

Building loads, especially in the interior, are steadily dropping while at the same time, ventilation rates are both increasing and need to be verified. In many spaces, the ventilation air is quite able to handle all the interior load if dry and cold. In fact, the ventilation airflow rate may exceed the load requirements, causing systems to go into reheat, even in summer. We will be discussing a number of the issues as well as a number of possible solutions, especially the opportunities for variable volume series flow fan terminals with sensible cooling coils.

"Methods of Effective Room Air Distribution"

In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved. First, we need to understand the rules, which will be discussed.

Then, we need to discuss a serious problem facing design engineers. With the goal of saving energy over the 90.1 baseline (Overhead VAV), many architects are challenging the mechanical engineer to come up with alternate systems that will meet this goal. Displacement Ventilation (DV), Underfloor Air Distribution (UFAD) and Chilled Beams all have a potential to save energy, and meet these needs. I will briefly cover pros and cons of the four most popular methods of air delivery.

Speaker Info:

DAN INT-HOUT III, Fellow, ASHRAE
Chief Engineer
Krueger
Richardson, Tx.

Speaker Bio:

Dan Int-Hout, Chief Engineer, Krueger, is responsible for the presentation of technical data and advanced application engineering for the Grilles, Registers and Diffusers, as well as the VAV air terminals, produced by Krueger.

Dan has been in the Air Distribution research and design business since 1973, and has a Masters in Business Management from Central Michigan Univ., and a Bachelor in Biology & Physics from Denison University.

Dan originally joined Krueger in 1981, but has had several other jobs in the industry, including Owens Corning Fiberglas, Carrier, Titus and Environmental Technologies, in engineering, marketing and product research roles.

Dan has written over 40 technical papers and articles on VAV system performance, acoustics, air diffusion, controls and occupant comfort. He was recently Chairman of both ASHRAE Technical and Standards Committees on Thermal Comfort, is a past Chairman of several other related ASHRAE Technical and Standards Committees, as well as ASHRAE Standards, Technical Activities Committee (TAC). & Environmental Health Committees. He received the ASHRAE Distinguished Service Award in 1993 and the Exceptional Service award in 2007. Dan is currently the Chairman of the ARI committee on Applied Acoustics (885) and Mbr of ISO 205 US Panel on Thermal Comfort and a member of the USGBC TAG on Indoor Environmental Quality. Dan was installed as an ASHRAE Fellow at the Long Beach meeting in 2007, and is an ASHRAE Distinguished Lecturer and a Life Member. Dan was nominated to Chair the TRG7 Committee to rewrite the Underfloor Air Distribution Guide, at the Chicago ASHRAE meeting in 2009, which was in final review in 2012, and voted for publication at the Dallas, 2013 meeting. Dan joined the ASHRAE TAC (again) in June 2012, managing the new Multi-discipline Task Groups.

BOG Meeting – March 21, 2013

Call to Order by Dan Merkel at 10:35 am

Members in attendance – Tony Finch, Sean Rath, Clif Upham, Dan Merkel, Richard Long, Patty Parish, Connie Staudt, David Muzzy, Cody Pace, Dan Miles, John Harrod (Region 8 DRC)

President

- SPEER Conference report – promoted ASHRAE as technical resource for this endeavor.
- Planning around 120 for today's meeting
- April 1st is ASHRAE golf Tournament
 - Forms on tables, need more teams
 - John Harrod: Make sure to keep money separated appropriately for RP.
- April 18th hosting Webcast – Assessing Building Energy Performance at Texas AirSystems office (2951 Northern Cross Blvd, Suite 201 Fort Worth TX 76137)
 - There was discussion about charging \$20 for the April webcast. It was approved in February.
- April 17th – April Meeting – Petroleum Club
- Will present next year's nominations at today's meeting. No vote, but will ask for
 - President – Tony Finch
 - President Elect – Jay Sullivan
 - Secretary – Clif Upham
 - Treasurer – Nick Schroeder
 - BOG – Cody Pace, Daniel Merkel, Ian Bost, Larry Akers

Officer Reports

President-Elect (Finch)

- Dennis Bohn is the next year refrigeration chair.
 - Tony Finch will act as refrigeration chair for remaining year.
 - Will host a YEA happy hour – date is TBA.
- CRC will be held in Austin starting on April 18th.

Secretary (Sullivan)

Roster is done – we will email roster/send secure

Treasurer (Upham)

- Nothing to report

BOG At-Large (Watters, Maryak, Muzzy, Long)

- Nothing to report

Committee Chairman Reports

CTTC (Schroeder)

- Nothing to report

Historian (Brunkenhoefer)

- Nothing to report

Honors & Awards (Akers)

- Nothing to report

Membership Promotion (Woodlee)

- Nothing to report

Refrigeration (Finch)

- Nothing to report.

Research Promotion (Watters)

- Nothing to report

Special Events (Rath)

- .Golf Golf Golf

Student Activities (Bost)

- Nothing to report.

Webmaster (Pace)

- Nothing to report.

YEA (Martinez)

- YEA Happy Hour coming soon.

Government (Merkel / Long)

- . Nothing to report.

CRC (Parrish)

- CRC meeting last Friday
- Gold Outing to raise money in June
- Encourage our chapter to be part of exit meeting in Austin
- Plan a webcast during our CRC to use as Tech session.

PR / Outreach (Harris)

No report

Sustainability (Staudt)

No report

Grassroots (Ekstrom)

No Report

Old Business

- Past President's Night will be held in June. Locations are currently being scouted.

New Business

- See everyone at CRC

Closing @ 11:04

March Meeting Minutes – General Business

- Announcements:
- April 18th hosting Webcast – Assessing Building Energy Performance at Texas AirSystems office (2951 Northern Cross Blvd, Suite 201 Fort Worth TX 76137)

- There was discussion about charging \$20 for the April webcast. It was approved in February.
- April 17th – April Meeting – Petroleum Club
- Nominations from the nominating committee
 - President – Tony Finch
 - President Elect – Jay Sullivan
 - Secretary – Clif Upham
 - Treasurer – Nick Schroeder
 - BOG – Cody Pace, Daniel Merkel, Ian Bost, Larry Akers
- Call for Floor Nominations - None received

Treasurer's Report – Clif Upham

STARTING BALANCE DATE	3/1/2013
NEW BALANCE DATE	3/31/2013
Treasurer's Report	<i>Clif Upham</i>
<u>Financial Data:</u>	
Starting Balance (3/1/13):	\$ 5,811.76
Deposits:	
3/1/2013 - January Chapter Dues	\$ 560.00
3/11/2013 - Eventbrite funds for February Luncheon	\$ 275.00
3/12/2013 - Deposit Golf Tournament Funds from Carrier, Jacobs Invoice for January and February Luncheons, and Roster Fee from Eventbrite	\$1,150.00
3/25/2013 - Deposit March Chapter Luncheon Fees	\$ 400.00
Subtotal:	\$ 2,385.00
Payments:	
3/25/2013 - Check to Jay Sullivan for 2012-2013 Printed Rosters	\$ 466.83
Subtotal:	\$ 466.83
 New Balance as of 3/31/13:	 <u><u>\$ 7,729.93</u></u>

ASHRAE Webcast – Assessing Building Energy Performance: From Principals to Practice

April 18, 2013 12:00 pm – 3:00pm CST

Hosted by *Texas AirSystems FW*
2951 Northern Cross Blvd, Ste 201
Fort Worth, TX 76137



[Click to Register](#)

Tentative Program:

12:00pm Part 1 – Opening Presentations, Q&A

1:30pm Break

1:40pm Part 2 – Roundtable Presentations, Q&A

2:55pm Closing

The Webcast presenters are:

- Thomas Watson, P.E., Fellow Life Member, ASHRAE president, chief engineer, Daikin McQuay, Staunton, Va.
- Drury Crawley, Ph.D., P.E., Fellow ASHRAE, ASHRAE-Certified Building Energy Modeling Professional, director of building performance, Bentley Systems, Washington, D.C.
- Jim Kelsey, ASHRAE-Certified Building Energy Assessment Professional, principal, kW Engineering, Oakland, Calif.
- Christopher Mathis, president, MC Squared, Asheville, N.C.

The webcast program has been approved for three Learning Units (LUs) by the American Institute of Architects (AIA), as well as three Continuing Education (CE) Hours by the Green Building Certification Institute.

The live program will be archived online until May 3, 2013, for viewers who are unable to participate on April 18. Registration is required to view the archived program.

DVDs of the webcast program are currently available for pre-order at the ASHRAE Bookstore. For more information, call 678-539-1200 or email ashrae-webcast@ashrae.org.

ASHRAE CRC in Austin – April 20, 2013

Chapters Regional Conference Technical Sessions

*April 18 through 20, 2013
at
Hyatt on Lady Bird Lake
Austin, Texas*

[CRC Registration](#)

[Hotel Registration](#)

Training Sessions - Saturday Morning April 20, 2013

8 am

Chapter Operations
Refrigeration
Research Promotion
Chapter History
Chapter Technology Transfer
Chapter Treasurer

10am

Young Engineers in ASHRAE
Student Activities
Newsletter/Communications
Webmaster
Government Activities
Membership Promotion

The Regional Director, the Regional Vice-Chairs and other Regional Officers will be providing training and question and answer sessions for incoming Chapter Officers and Chapter Chairs.

In addition, there will be Technical Sessions from 9 to 11 am. Immediately following the Training Sessions the Awards Luncheon will honor various regional award winners, including this year's Golden Gavel winner.

Region VIII CRC 2015 Fundraiser

Our Ft. Worth Chapter will host the Region VIII CRC in 2015. To cover upfront costs and help keep fees low, we will have a golf tournament. So mark your calendar:

Monday July 29, 2013 at Waterchase in Arlington
8:00 am start time - breakfast and lunch to be provided
\$125 per player, \$500 per team.
More details to come.



Lighting Efficiency Improvements Proposed for Standard 90.1

Health care HVAC systems serve facilities in which the population is uniquely vulnerable and exposed to elevated risks of health, fire and safety hazard. These heavily regulated, high-stakes facilities undergo continuous maintenance, verification, inspection and recertification, typically operate 24/7 and are owner occupied for long life.

A newly published manual from ASHRAE provides guidance on addressing these issues for mechanical and consulting engineers, designers, architects, facility managers, infection control personal, maintenance staff, contractors, developers and code accreditation and licensure officials.

“HVAC Design Manual for Hospitals and Clinics, Second Edition,” provides in-depth design recommendations based on best practices, and presents proven, cost effective and reliable solutions that result in low maintenance cost and high reliability with systems providing desired performance and efficiency. The book, a complete rewrite of the first edition, focuses specifically on HVAC system design for health care facilities, omitting general system descriptions that are readily available in other ASHRAE publications.

“The manual presents a unified and comprehensive summary of engineering background on the standard, how to meet it and alternatives for best engineering practices beyond the minimum requirements,” Daniel Koenigshofer, P.E., editor of the manual, said. “A principle objective of the manual is to present what is different about designing HVAC systems for hospitals and healthcare facilities.”

Chapter Two describes how the principles of infection control have influenced the regulations which in turn are the bases for the unique design principles needed for hospitals.

ASHRAE’s first “HVAC Design Manual for Hospitals and Clinics,” which serves as a comprehensive source for the design, installation and commissioning of HVAC systems for hospitals and clinics, was published in 2003.

Koenigshofer, of Dewberry, noted the writing of this manual was a highly collaborative effort by 20 of the top consulting and hospital engineers in the country. These contributors include:

- John Murphy, Trane Co.
- Walter Grondzik, P.E.
- Reg Brown, P.E., Price Industries
- Donald Burroughs, P.E., Dewberry
- Jill Connell, P.E., CDi Engineers
- Hal Corin, Dewberry
- Jeff Crozier, P.E., Precis Engineering Inc.
- Jeremy Fauber, P.E., Heapy Engineering
- Traci Hanegan, P.E., Coffman Engineers, Inc.
- Jeff Hardin, P.E., U.S. Army Corps of Engineers
- John M. Kramer, P.E., Duke University Medical Center
- Nicolas Lemire, P.Eng., Pageau Morel
- Michael Meteyer, P.E., Erdman
- Frank Mills, C.Eng., Sinclair Knight Merz
- Heather Platt, P.E., Seneca Construction Management Corp.
- Layle Thomas, Dewberry
- Jerry Thompson, P.E., Duke University Medical Center
- Ron Westbrook, P.E., State University of New York

The cost of “HVAC Design Manual for Hospitals and Clinics, Second Edition” is \$115 (\$99 ASHRAE members).

ASHRAE Expands Jobs Opportunity Board

ATLANTA – ASHRAE members now have increased opportunities to find jobs within their chosen field under an expanded jobs board.

The expansion between ASHRAE and BirdDog, which have worked together since 2009 to provide job board support at www.ASHRAEjobs.com, will make it easier for employers to fill built environment technology positions, as well as provide ASHRAE members with increased opportunities to find jobs within their chosen fields. The expanded ASHRAEjobs site specifically allows employers, looking to hire ASHRAE members, to post their listings throughout the BirdDog family of job boards, as well as ensure all ASHRAE members have the opportunity to see the job posting.

“Our members are in high demand, and that’s good news,” Tim Wentz, volunteer chair of ASHRAE’s Publishing and Education Council, which oversees ASHRAEjobs.com. “Unfortunately, like so many industries, companies wanting to or already employing ASHRAE members, report troubles finding the right candidate. The improved ASHRAEjobs site, along with its four years of history, gives us the foundation to expand our efforts and ensure the right talent is being matched up with right job.”

“It had become evident in the past year that there was a gap between what we had in place and an increasing demand for both employers and job seekers to have a solution that was both effective and efficient,” Bryan May of BirdDog said.

This announcement comes at a time where employers are reporting difficulties finding qualified candidates for open positions. ASHRAE members are the global leaders of building technology. To qualify as a full ASHRAE member, a minimum of 12 years professional experience must be shown in the industry.

The new service launched April 15, 2013. Employers who have questions about the expanded partnership should contact Bryan May at 515-473-9212.

BirdDog provides a cloud-based recruitment and applicant tracking software to small and medium sized companies across the country that simplifies the hunt for right-fit candidates.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.

Chapter Officers and Committee Chairs

OFFICERS

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