



October 6, 2010: Vol. 53, No. 03

Produced by: Richard Watters, P.E.
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.

President's Message

Hello to everyone. I would like to say thank you to everyone who was able to attend our meeting last month on Air Terminal Unit Selection Guidelines for Consulting Engineers. The Speak was David John, a distinguished ASHRAE Lecturer. I hope that the many email that you received for the speaker . We had a total of 47 members attend and nine guest.

Everyone who attended the meeting last month should have received an email with your PDH certificate from Dan Merkel. If you did not receive an email, please contact Dan (dmerkel@texasairsystems.com) and we will be sure that you are included on the distribution list.

Our number of delinquencies increased by one this month, up from 37 to 38 people. Please renew your membership.

The Fall Golf Tournament is scheduled from October 25th. The details can be found later on in this newsletter, please mark your calendars and make plans to join us.

Our general business meeting this month will be on displacement ventilation. We will be hosting a seminar on the use of LED lights. The speaker will be Ron Shields and this will be a joint seminar with our AIA friends.

Our fist special event was held at Delany's on 7th Street. We had 13 members attend and one student member.

I am looking forward to seeing all of you later this month and please see our Chapter's Website for future event times.

Our meeting this month will also be at the Petroleum Club on October 20th.

Sincerely,

Ian Bost

Chapter President

Next Chapter Meeting

Displacement Ventilation

October 20, 2010
11:30 A.M.

Petroleum Club
Carter::Burgess
Plaza
777 Main St.
39th Floor
Fort Worth, TX

[Click here for map.](#)

October Program/Speaker Bio.

Speaker Info:

Cameron Regier
 Applications Specialist
 PH: 204-654-5790 EM: cameronr@price-hvac.com
 Price Group of Companies | 638 Raleigh Street | Winnipeg, MB | R2K 3Z9
 www.price-hvac.com

Speaker Bio:

Cameron has a degree in Mechanical Engineering and spent several years in the aerospace field before making the transition into HVAC. Cameron has been providing applications support for displacement ventilation at Price for close to three years and currently covers displacement ventilation, underfloor air distribution and other air delivery products.

Presentation Outline:

Overview

- What is displacement ventilation?
- How is it different from mixing?

Theory and Design Considerations

- What are the benefits?
- What are the applications?
- What are the limitations?

Displacement diffuser design

- Diffuser placement and layout
- Architectural integration

Board of Governors Meeting Minutes – September 15, 2010

Attendees:

10 Members: Ian Bost, Ali Buron, Dan Merkel, Matt Carter, Tony Finch, Saul Martinez, Cliff Upham, Nick Schroeder, Cody Pace, Larry Akers (No quorum reached)

Called to order at 10:34am by Ian Bost, President

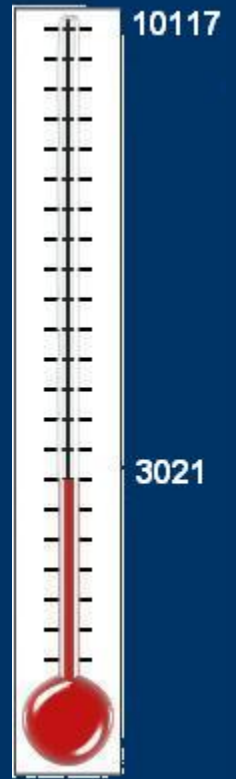
Ian updated us on PAOE status: we currently have 1,395 points.

	<u>Par</u>	<u>Last Year</u>	<u>YTD*</u>	<u>Goal</u>
○ Chapter Operations:	500	2210	1070	1590
○ Chapter Technology Transfer:	850	1665	100	1950
○ Research Promotion:	1050	3240	0	3035
○ Membership Promotion:	800	2175	50	1350
○ Student Activities:	500	2973	175	1567
○ Historical Reporting:	200	485	0	625
TOTALS	3,900	12,748	1,395	10,117

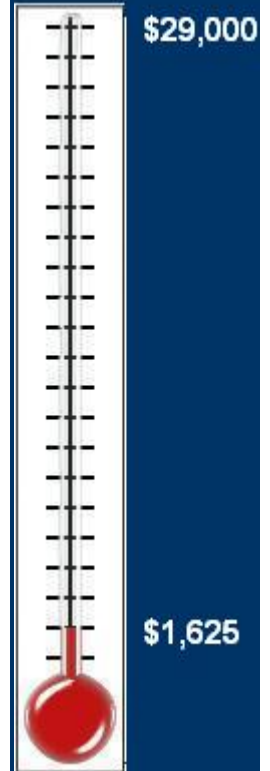
*YTD totals reflect what we have entered, they do not include points due to us via regional entry (which have not been granted to date). We qualify for 525 additional points already.

We are still leading the pack regarding PAOE points this year

PAOE Points



RP Dollars



Board of Governors Meeting Minutes – September 15, 2010 (continued)

Reports:

President-Elect (Watters) - NIA

- No report

Secretary (Merkel)

- The chapter now has a new mailing address:
Fort Worth Chapter of ASHRAE
P.O. BOX 893
Fort Worth, TX 76101
- Secretary and President shall have keys to check this box.
- Roster publication scheduled for October
- New faces of engineering - we should nominate a couple of people via ASHRAE national to this.

Treasurer (Finch)

- Invoiced 4 + August Jacobs Approx \$1,400 for outstanding luncheon payments.
- Local Delinquency: Even Life members need to pay local dues.

BOG At-Large (Martin, Rhodes, Sullivan)

- No report.

CTTC (Upham)

- Meeting schedule has been published on website, also have sent to RVC
- Nov 17th Meeting for November and a seminar in the morning.
 - IAQ H. E. BARNEY BURROUGHS (CIAQP, PM-FASHRAE) (Former president of Society)
 - ASHRAE Indoor Air Quality Guide: Best Practices for Design, Construction, and Commissioning
- For this meeting, and future Distinguished Lecturer meetings, we need to submit speaker evaluations online

Historian (Parrish)

- No report.

Honors & Awards (Akers)

- Will work to have John Rhodes recognized for all of his work

Membership Promotion (Olivo) - NIA

- No report

Research Promotion (Martin)

- Website is down, and will update later. 1575 was total for Sept 1.

Special Events (Carter)

- Hole Sponsorships – will contact usual suspects after going after the unusual suspects.
- Golf Tournament - October 25th @ Great Southwest. It will be a 1:30 shotgun start.
- Happy hour sept 23rd at Delaney's at 5:30

Student Activities (Schroeder)

- TCU Welcome Back Luncheon is on 9/21.

Webmaster (Pace)

- Has been updated...check out the picture gallery.

Welcome (Bartek)

- Making calls on contractors and recruiting others to the meetings.

Board of Governors Meeting Minutes – September 15, 2010 (continued)

YEA (Martinez)

- Looking into seeing if YEA members can be mentors (as many of our members are YEA).
- Leadership weeked in Atlanta Oct 4-5. Looking to send 2 people with sponsorship from region and chapter.

Old Business:

- Professional Photos
 - Tony Finch
- Roster
 - Target mid October for publication
- Delinquencies
 - We are up from 37 to 38
 - Have calls been made?

New Business:

- Looking for more technical articles for therm. And looking to put technical articles on website.
- Review meeting schedules

President Ian Bost adjourned the meeting at 11:08am.

General Business Meeting – August 18, 2010

Meeting Called to order at 11:47pm by Ian Bost, Chapter President.

Proceeded with self-introductions and the introduction of our guests by Tony Finch

Old Business:

- Ian Bost: We lead the way with PAOE POINTS: 1,395!
- Local Delinquency: Even Life members need to pay local dues.
 - Need to submit speaker evaluations online for this meeting.
 - The website has been updated...check out the picture gallery
 - Delinquencies
 - We are up from 37 to 38.

New Business:

- Presented by: Daniel Merkel -- Roster publication scheduled for October LOOKING FOR SPONSHIPS NOW
- Nov 17th Meeting for November and a seminar in the morning.
 - IAQ H. E. BARNEY BURROUGHS (CIAQP, PM-FASHRAE) (Former president of Society)
 - ASHRAE Indoor Air Quality Guide: Best Practices for Design, Construction, and Commissioning
- Golf Tournament - October 25th @ Great Southwest. It will be a 1:30 shotgun start.
- Hole Sponsorships – Become one today!
- Happy hour sept 23rd at Delaney's at 5:30
- TCU Welcome Back Luncheon is on 9/21
- Looking for more technical articles for the Therm. And looking to put technical articles on website.

Technical Session Minutes:

Cliff Upham introduced our speaker

Speaker:

David A John, P.E.

Topic of Discussion:

Air Terminal Unit Selection Guidelines for Consulting Engineers

General Business Meeting – August 18, 2010 (continued)

Synopsis:

Chris VanRite gave an excellent discussion on new airflow values derived from research which was co-funded by the Air Distribution Institute, ASHRAE and TXU and conducted at Texas A&M University Energy Systems Laboratory. His discussion included:

Selection of Air Terminal Units Overview

- i) Selection of Air Terminal Units Overview
 - (1) Problems to avoid
 - (2) Required information
- ii) Developing a complete schedule
- iii) Review of “difficult” to review schedule
- iv) Understanding Pressure
 - (1) Maximum Allowable Pressure
 - (2) Inlet/discharge Pressure
- v) Selecting Casing Size
- vi) Discussion of the use of ECM motors on Fan Powered Air Terminals
- vii) NC Calculations
 - (1) Effect of Primary Supply Pressure on NC
- viii) Selection of Heat
 - (1) Water Coils
 - (2) Electric Heat
- ix) Conclusion: What makes a good air terminal unit schedule

Closing:

Ian Bost adjourned the meeting at 12:58pm.

Chapter Financial Report

Treasurer's Report

Tony Finch

Financial Data:

Starting Balance (8/27/10):	\$3,994.63
Deposits:	
9/7/2010 August Luncheon	\$875.00
9/7/2010 Winter Party: Hildago	\$200.00
9/7/2010 Dues Membership - ASHRAE, Inc.	\$1,015.00
9/16/2010 September Luncheon - Pd by check	\$200.00
9/16/2010 September Luncheon - Pd by cash	\$480.00
Subtotal:	\$2,770.00
Payments:	
9/7/2010 - Check # 5333 Anthony Finch - Reimbursed August Luncheon/Entrees on Trays	\$1,180.16
9/7/2010 - Check 5334 Dan Merkel reimbursed - PO Box	\$74.00
9/16/2010 - Check # 5335 - Alonti - September Luncheon	\$1,223.01
9/16/2010 - Check # 5336 - Ian Bost - reimbursed Student Meeting Lunch	\$154.00
Subtotal:	\$2,631.17
New Balance as of 9/24/10:	\$4,133.46

Did You Know

Are you preparing a presentation to an Owner for an upcoming project that includes energy savings? Did you know that you can obtain articles on the national ASHRAE website in the “Abstract Archives” database that can help you with known facts from previous projects and research?

For example: if you enter the word energy savings, it will pull up almost 500 articles that may apply to your project, such as:

- An Office Building Used as a Federal Test Bed for Energy Efficient Roofs
- Better Building Codes for Energy Efficiency
- Energy Design Criteria for Prisons
- Are Energy Management Systems Cost Effective?
- HVAC Systems Dynamics and Energy Use in Buildings-Part II

You can purchase one of these articles from ASHRAE Customer Service at orders@ashrae.org or by phone at 1-800-527-4723.

Upcoming Joint Seminar with AIA

The joint seminar with Fort Worth AIA is scheduled from 1:30 PM to 4:30 PM on October 21st, co-sponsored by Texas Lighting and AIA. One of the presentations is an AIA Certified CEU Credit for Health Safety, Welfare, and Sustainable Design.

Presentations:

- Understanding IES LM-79 and IES LM-80
 - LM-79: Electrical and Photometric Measurements of Solid-State Lighting Products
 - LM-80: Measuring Lumen Maintenance of LED Light Sources
- Outdoor LED Luminaries
- LEDs – Bridging Technology to Outdoor Applications. The latest technological advancements, new quality standards orchestrated by the D.O.E., and what you need to know when designing with an LED-based luminaire.

The seminar will be held at:
AIA Fort Worth Center for Architecture
3425 W. 7th Street
Fort Worth, Texas 76107

More information will follow with pricing.

Grassroots Committee Reports

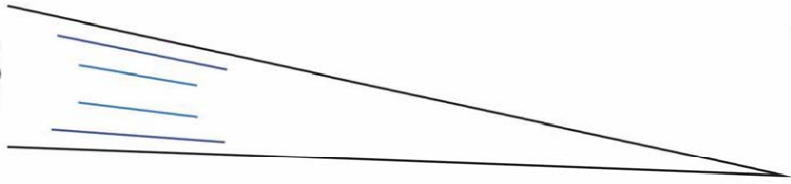
Research Promotion

We have been given credit for the following categories for RP:

- Full circle
- Donor recognition
- Workshop attendance
- Planning session with RVC

We have also finished the volunteer committee credit, but it is not shown on the spreadsheet. Our money raised to date is shown to be \$1,625. We are leading the region in R/P PAOE at 431 points to date.

Thanks, Jay Martin



FORT WORTH ASHRAE FALL GOLF CLASSIC

Monday, October 25, 2010

Great Southwest Golf Club
612 East Avenue J
Grand Prairie, Texas 75075
(972) 647-0114

Come on out and enjoy the fellowship, golf, and excitement and help the Fort Worth Chapter of ASHRAE Raise Money for ASHRAE Research Promotion!

FORMAT: 4-Person Scramble, Shotgun Start at **1:30 P.M.**
COST: \$100.00 per Player, Includes Golf, Dinner, and Awards
CONTESTS: Longest Drive, Closest to Pin
HOLE-IN-ONE: \$10,000 (\$5,000 to Player and \$5,000 to ASHRAE Research)

Team Captain: _____

Team Captain Email: _____

Team Captain Phone: _____

Player : _____

Player : _____

Player : _____

Number of Players _____ x \$100.00 \$ _____

Mulligans @\$5.00 ea. (Max. 10 per Team): \$ _____

Hole Sponsor @ \$150.00 per Hole: \$ _____

TOTAL ENCLOSED: \$ _____

*(please make your check payable to **Fort Worth Chapter of ASHRAE**)*

Mail, E-Mail, or Fax Entries to:

Matt Carter
McMillan James Equipment Company
1010 Mustang Drive
Grapevine, TX 76051
Cell: (817) 209-8168
Fax: (817) 912-0888
mattc@mjec.com

Entries Must Be Received No Later Than Monday, October 18th.

Grassroots Committee Reports (continued)

Special Events

The golf tournament will be on Monday, October 25, 2010.

Student Activities



Thanks to Ian Bost for attending the Career Day at Oakhurst Elementary School in Fort Worth, Texas.

The first of the regular Student Chapter meetings was held at TCU on September 21st!

We also have five new applications for student membership from UTA, as well as a new UTA faculty sponsor, Dr. Dereje Agonafer. The UTA ASHRAE Collegiate Design Competition team is also making great progress on their project and I am meeting with them weekly as their "faculty sponsor".

Thanks, Nick Schroeder

ASHRAE hold all the sustainability cards, Winter Conference to be held in Las Vegas

ATLANTA—Las Vegas, Nev. continues to build upon its reputation as a vibrant showcase for the extraordinary by offering the grandest hotels, the biggest stars in entertainment and, of course, the brightest lights. It's no wonder that the world's biggest HVAC Expo and the largest membership-based HVAC&R engineering society have chosen the city as the site of the ASHRAE 2011 Winter Conference and AHR Expo.

The extravagant setting of Las Vegas serves as a unique contrast to ASHRAE's Winter Conference theme of A Safe Bet: Zero-Energy Design. It is sure to highlight the importance of finding the balance in design. The 2011 Winter Conference takes place January 29-February 2 at the Las Vegas Hilton. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run January 31-February 2. The Expo is held at the Las Vegas Convention Center, a short distance from the Hilton, the Conference headquarters hotel.

In keeping with ASHRAE's goal of continuing education the Conference offers over 200 Professional Development Credits, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The technical program features more than 90 programs and 300 speakers addressing the efficient use of energy in new and existing buildings, refrigeration updates, applications including data centers, laboratories, healthcare facilities, the real cost of zero-energy design and other topics related to design, standards, codes and professional skills. Nearly all of the technical program sessions will be approved for NY PDHs and by USGBC for GBCI CE hours for LEED professionals. The Las Vegas Virtual Conference, included with paid attendees' registrations, will be available to non-attendees.

Six Professional Development Seminars and 14 Short Courses are offered to help industry professionals stay up-to-date on industry trends. ALI offers a new course on building energy modeling that focuses on HVAC&R systems and updates to courses covering Standards 62.1 and 90.1 to reflect changes in the 2010 versions of these standards from previous versions.

Additionally, ASHRAE continues to listen to the market and launches a sixth certification program in conjunction with the 2011 Winter Conference. This new program targets Energy Assessors/Energy Auditors and is appropriate for those individuals who perform energy assessments or audits for commercial, industrial or residential buildings. More information can be found at www.ashrae.org/certification.

This winter's technical tours spotlight how technology developed by ASHRAE members is practically applied to buildings and include the central plant at Planet Hollywood and MGM Center and Springs Preserve.

When members are not attending courses at the Conference, observing the technological advancements featured at the AHR Expo or touring the local sustainable buildings there are numerous general tours such as Hoover Dam, Springs Preserve, the Venetian Grand Canal Shoppes, the Bodies and Titanic exhibits and the Las Vegas Strip.

Those who take part in the early-bird registration before December 31 have the opportunity to save up to \$195. Complete information is available at www.ashrae.org/lasvegas.

ASHRAE in Government

Funding for the Office of Federal High-Performance Green Buildings may be in jeopardy. This office plays a critical role in green building efforts, and you can help by making your voice heard in Congress!

The U.S. General Services Administration's Office of Federal High-Performance Green Buildings combines authoritative knowledge of federal processes with multidisciplinary expertise in high-performance green buildings to provide leadership within the federal government and the broader commercial property market to ensure that our nation's buildings minimize their burden on both the environment and the taxpayer.

ASHRAE's mission is to advance building efficiency to serve humanity and promote a sustainable world. Thus, both ASHRAE's and this office's goals are closely parallel, and our efforts are complimentary. By helping the Office of Federal High-Performance Green Buildings you can help ASHRAE advance our own mission.

The federal government is the nation's single largest energy consumer and greenhouse gas emitter, and by assisting this office, you can help encourage increased performance in both the federal building stock and the commercial sector on a large scale.

You can help this office continue and expand its work to help green buildings across the nation!

We urge you to send a letter to your federal representatives in the House of Representatives and Senate, encouraging them to include funding for the Office of Federal High-Performance Green Buildings in a continuing resolution, and to provide this office with \$4 million for fiscal year 2011 to continue fulfilling its responsibilities under the Energy Independence and Security Act of 2007.

Background on Office of Federal High-Performance Green Buildings Funding

The Office of Federal High-Performance Green Buildings was created under the Energy Independence and Security Act of 2007, however it did not receive meaningful funding until the American Recovery and Reinvestment Act (ARRA). ARRA funds are considered "special" funds and are outside of the regular, annual appropriations process. Because of this, the Office of Federal High-Performance Green Buildings would not normally receive funding under a continuing resolution (CR), which funds federal programs and offices at the current fiscal years' levels and usually only applies to programs and offices that received funding under the regular appropriations process. Congress uses CRs when policymakers cannot come to agreement and pass federal funding bills. CRs serve as short-term solutions that essentially provide policymakers with more time to come to agreement on funding issues.

Congress had intended to begin funding this office under the regular appropriations process for the coming fiscal year, however unforeseen high levels of Congressional disagreement and partisanship have resulted in the need for at least one CR, which was recently passed by Congress. Additional CRs may be necessary if policymakers cannot come to agreement. Because of this unexpected development, this office may not receive needed funding. Exceptions are sometimes made however, and it is still possible for Office of Federal High-Performance Green Buildings to receive stop-gap, short-term funding under a CR, if another is needed.

Long-term, regular funding of \$4 million for fiscal year 2011 is also needed for this office to allow this office to continue fulfilling its responsibilities under the Energy Independence and Security Act of 2007.

You can help ASHRAE's efforts to preserve funding for the U.S. General Service Administration's Office of Federal High-Performance Green Buildings by sending a letter to your federal representatives in the U.S. House of Representatives and Senate. Please ask one of your Chapter Officers for a draft letter and instructions on how to contact your representatives.

Thank you for your time and support.

Sincerely,
Mark Ames
ASHRAE Manager of Government Affairs

Chapter Officers and Committee Chairs

Officers

President	Ian L. Bost	(817) 338-1277	ian.bost@mail.ashrae.org
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Refrigeration	Jeff Hammond	(817)735-7421	jsh@freese.com
Research Promotion	Jay Martin	(214) 490-2072	jay.martin@mail.ashrae.org
Student Activities	Nick Schroeder	(817) 272-9075	nschroeder@uta.edu
Special Events	Matt Carter	(817) 805-0020	mattc@mjec.com

Editor's Notes

There are many notices coming soon. Please watch for these in your upcoming Chapter Newsletter. Things that have been discussed and may be coming: (if you have any input on one of them or all of them please contact your Chapter Board Members)

- Fall Golf Tournament (October 25th)
- Fall Sporting Clay Tournament (date TBD)
- Winter Party (January, 2011)
- Don't forget CRC in April, 2011 (Dallas, Texas)
- Spring Golf Tournament (date TBD)

If anyone has news that pertains to ASHRAE locally please let me know and we will see about including it in an upcoming Therm.

Remember: **THIS IS YOUR CHAPTER NEWSLETTER.**

Thanks, Richard Watters

THERM Subscription Management

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