



September 16, 2009: Vol. 52, No. 2

Produced by: Ian L. Bost, 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

Our meeting in August was a great success; we had a total of 69 folks in the room, a 38% increase over our attendance last August. This is a great sign and a trend I'd like for us to continue for the rest of the year. Please make an effort to reach out to others in our industry and invite them to come along to our meetings, especially if you see that the upcoming topic is something that they can really benefit from.

By now, everyone who attended last month's meeting should have received an email from Richard Watters containing your PDH certificate. This should help make it easier to maintain a file to streamline renewing your licenses and certifications. Let Richard (richard.watters@mail.ashrae.org) know if yours didn't make it to you.

We have another great program lined up for this month which is being presented by Fort Worth's own Chris VanRite. This will be a great discussion disseminating the findings of an ASHRAE sponsored study on air flow performance in flexible and rigid ductwork. This is a great opportunity to see our research contributions in action!

Our Special Events Committee, led by Jay Sullivan, has already booked our Fall golf tournament for October 5th. The details can be found later on in this newsletter, please mark your calendars and make plans to join us.

The Chapter Technology Transfer Committee (CTTC), led by Tony Finch, has been working hard to line up all of our programs for the coming year. The rough plan is listed later in the Therm and will be finalized soon. We will have some very interesting topics in the coming months:

- Relational Control (all-variable speed HVAC, plants) by Thomas Hartman (October)
- Differing Perspectives into Global Warming by Victor Goldschmidt – joint meeting with FTW BOMA (Should be a HOT topic) (November – NOTE, 11/3 IS FIRST TUESDAY IN NOV)

More than 30 local members are now active on our committees and we are always looking for even more help. We are experiencing fantastic results with this core group of active participants. Please continue to stop by our website (www.ashrae-ftw.org) for updates on our activities.

For those of you who are regulars at our meetings, I thank you for your support and hope you feel that it is a

Next Chapter Meeting

New Data on Air Flow Performance in Flexible Duct vs Round Sheet Metal Duct

September 16, 2009
11:30 A.M.

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

[Click here for map.](#)

President's Message Cont.

good use of your time. For those of you who haven't been in a while, I encourage you to swing by and see what we are up to – it may just make you want to keep coming back.

Sincerely,

Jay Martin
Chapter President

September Program/Speaker Bio.

TOPIC OF DISCUSSION:

Relational Control" HVAC System Control for the 21st Century

The presentation outlines 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. Guidelines referencing these new values are appearing in ASHRAE Energy Design Guide publications, 2009 ASHRAE Fundamentals Handbook and in revised editions of ACCA Manual D.

SPEAKER:

Thomas Hartman, PE

BIOGRAPHY:

Thomas Hartman is Principal and the founder of The Hartman Company, a technology development and applications firm that works with designers, manufacturers and end users to apply emerging ultra-efficient HVAC and lighting technologies. Among the most notable of Mr. Hartman's developments have been the "Equal Marginal Performance Principle" and relational control concepts. These provide new approaches to integrating variable speed and other new HVAC/Lighting technologies with network controls for simpler, lower cost and better performing building comfort systems.

Tom Hartman holds a number of patents for advanced technologies and works worldwide with manufacturing and engineering partners to develop sound, cost effective products and designs that utilize these technologies for a wide variety of applications. In addition to the development of the Equal Marginal Performance Principle and relational control, Hartman has developed and works to apply a number of other indoor comfort enhancing technologies. Tom currently serves as an editorial advisor to *Heating, Piping and Air Conditioning* Magazine and the on-line publication, *automatedbuildings.com*. Tom is also a member of ASHRAE SSPC 55 and lectures and writes about comfort and energy issues for major symposiums and periodicals all over the world.

Board of Governors Meeting Minutes

Attendees: 11 Members: Jay Martin, Ian Bost, Richard Watters, Dan Merkel, David James, Jay Sullivan, Cody Pace, Brodie Heflin, Patty Parish, W.O. Kelly, and John Rhodes..

Meeting Called to order at 10:36am on 8/19/09 by Jay Martin, Chapter President. Jay reported on our PAOE status; we have accumulated 1,380 points to date.

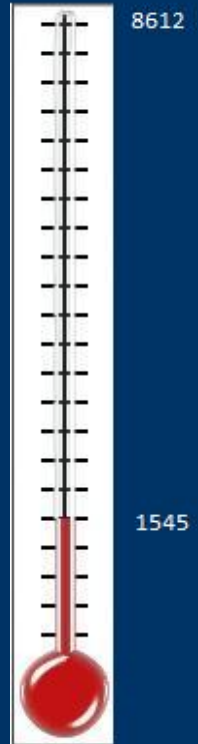
Reports:

President-Elect (Ian Bost): We have two student members this year; one is reflected in our current roster. Next year, the Petroleum Club will not be available. Jay deferred this to future business. Ian updated the status of his MBOs; he has met with his mentor and has successfully created and used a Newsletter prototype.

Secretary (Richard Watters): Identified bad email addresses from our current member roster and have worked to obtain correct email addresses. On target to have an updated Roster available next month. Richard met with his mentor last month.

Treasurer (Dan Merkel): We completed the Treasurer's Audit last month. Dan provided the signed auditor's report to Jay Martin. Dan reported the current balance for the checking account. He will be talking to Patty and making introductions at the Library so she can access the historical data. The Fort Worth Chapter received \$1,650 from the 90.1 Seminar last month, at which we had 33 people attend.

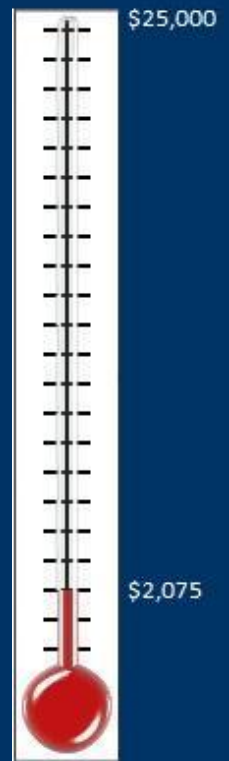
PAOE Points



8612

1545

RP Dollars



\$25,000

\$2,075

Board of Governors Meeting Minutes Cont.

Board of Governors (David James): No Report.

Board of Governors (W.O. Kelly): No Report.

Board of Governors (Cody Pace): No Report. Deferred to later for a report on the website.

ByLaws Revision (John Rhodes): Committee met and now has seven members.

CTTC (Tony Finch): NIA. Jay Martin reported that the Committee meets tomorrow, and the first four months of programs have been established.

Historian (Patty Parish): Working on the history of the briefcase. MBO was executed today.

Honors & Awards (Larry Akers): NIA. Jay Martin reported that Larry is working on a Fellow application for Bob Bittle.

Membership Promotion (Brodie Heflin): MBO is on track. Meeting with the Committee tomorrow.

Research Promotion (David James): Back from training. We exceeded our goal of \$22,500 last year with a total of donation to ASHRAE Research of \$29,896. Our goal this year is \$29,000. While at the training session, David received feedback on what worked for other Chapters.

Student Activities (Matt Carter): NIA. Jay Martin reported that the Committee has been established, but has not yet met. They will be working first on the Student Design Competition.

Special Events (Jay Sullivan): Working on dates for the Fall and Spring Golf Tournaments. We are trying to organize a Sporting Clay event in November. The October Golf Tournament will likely be held at Mansfield National, working with the same people that arranged the Fossil Creek tournament. Will contact Oslin Nation for a sponsorship. For the Spring Golf Tournament, we are targeting early April. Jay will work with Ian to organize a Casino Night, will work with someone else for the Sporting Clay, and with W.O. Kelly to organize the Past Presidents' Night. Board agreed to keep the winter party instead of moving it to December to be a Christmas Party.

Webmaster (Cody Pace): New website is up. Half of the Research Promotion page is up, and Cody is working on the rest. Cody solicited any feedback that members have. Jay Martin urged that the website cannot be a static site; we need to keep the information in the website as current as possible and add to it regularly.

Old Business:

- Mid September goal for the preliminary Roster to be available on the website.
- Technical Seminar for ASHRAE Standard 90.1-2007 met last month and raised \$1500.00 for the Fort Worth Chapter. PDH certificates were not yet circulated to the Fort Worth members. Dallas is working on these now.
- Delinquencies are down, and we are on target to reduce these by 30%.
- John Spec is making the Life Member calls.

New Business:

- Working on a joint meeting with BOMA for November. Have three meeting options available, each of which is an ASHRAE Distinguished Lecturer. We will move our meeting that month to coincide with BOMA's, since they regularly have 100 attendees. We will be targeting local leaders to also attend this meeting, since the topic will likely be Sustainability or Retro commissioning.
- May 2010, the Petroleum Club will close. Ian is looking for options on where we can hold our ASHRAE meetings.
- There will be no break in December this year, since the third Wednesday is one week before Christmas.
- Society level cashflow is down this year. YEA Leadership Event will likely need to be funded by the local Chapter with a contribution by the attendee's employer. The Region will match up to \$1500 of what the local Chapter donates for this event. Board members should think about who we would want to send. The retreat is in the Spring.

Board of Governors Meeting Minutes Cont.

Other Items:

- Cody Pace motioned that the Fort Worth Chapter donate \$100 to ASHRAE Research in the name of Jim Bynum. Dan Merkel seconded the motion. All were in favor, and the motion passed.

President Jay Martin adjourned the meeting at 11:20am.

General Business Meeting Minutes

Meeting Called to order at 12:00pm by Jay Martin, Chapter President

Old Business:

- Seminar on ASHRAE Standard 90.1-2007 was held on August 6th. There were 33 attendees, and the seminar raised \$1650 for Chapter Operations. PDH certificates will be distributed.
- Delinquencies – currently, a little over 20% of our membership is delinquent on dues. Please check your status with Richard.
- Last year, the Chapter raised \$29,896 for ASHRAE Research.
- Our Chapter was the first in Society to attain Full Circle for this year.
- We are on target for our PAOE goal this year.

New Business:

- We honored our past president, David James, who was not able to attend the Past Presidents' Night.
- Announcement - Jimmy Bob Bynum passed away this past Saturday (08/13/09).
- Jay introduced our new Officers and Committee Chairmen for this year
- The new Chapter website is up and active. The site will be updated often and will contain copies of past presentations when available. Advertising space is available, and the members were invited to let any of the Officers know about industry news that they would like to see on the website.
- A new Student Branch of ASHRAE will be started at TCU this year.
- We will be having a joint meeting with BOMA. The tentative date is November 3rd. We will move our meeting time that month to coincide with BOMA's meeting. We are targeting Distinguished Lecturer Hoy Bohanon, who will speak on "Using the Retro-Commissioning Process for Energy Savings," which was requested by BOMA. We expect over 150 people to attend. Local government leaders will be targeted to attend.
- We will be having meetings every month this year. There will not be a break in December.
- Jay introduced our seven newest Chapter Members.

Technical Session Minutes:

Grady Sherley introduced our speaker:

Speaker: Jim Meets, vice president with Metal Industries

Program: Energy Savings of VAV Terminal Units with ECM Motors ("ATU Considerations")

Synopsis:

Jim Meets presented an excellent discussion of parallel versus series boxes.

- The chief complaint has been that parallel boxes leak.
- ECM versus PSC motors. He discussed speed control and payback analysis
 - There is a private project to study ECM motors in parallel boxes with Texas A&M University, which is not yet published.
 - Early indications are that the study will show that the fan does not operate enough to offer a good payback.
- AHRI Data. Certification requirements, specifications, and NC data
 - ARI 880
 - ARI 885

General Business Meeting Minutes Cont.

- Things Coming
 - Research (ASHRAE)
 - Legislation
 - ECM motors for series boxes

Closing:

Jay Martin adjourned the meeting at 12:56pm.

Chapter Financial Report

STARTING BALANCE DATE 7/18/2009
NEW BALANCE DATE 8/26/2009

Treasurer's Report

Dan Merkel

Meeting Information:

Date of Meeting: 8/19/2009
Members 61
Guests 8
Total: 69

Financial Data:

Starting Balance (7/18/09): \$ 3,936.85
Deposits:

Golf Payment received - Designated for ASHRAE Research \$ 450.00
ASHRAE 90.1 Seminar \$ 1,650.00
August Lunch Payments \$ 935.00
Local member Dues \$ 70.00
Member Dues from Society \$ 700.00

Subtotal: \$ 3,805.00

Payments:

ASHRAE Research \$ 450.00
Golf Deposit \$ 200.00
May Parking \$ 72.50
August Meeting \$ 1,262.70
ASHRAE CRC Account Transfer \$ 1,000.00
Deposit to Cash Account \$ 35.00

Subtotal: \$ 3,020.20

New Balance as of 8/26/09: \$ 4,721.65

Grassroots Committee Reports

Membership Promotion

We have made great strides on reducing our delinquencies; down from 75 to 54 as of this writing. Please check your membership status (if you haven't already done so) and make sure you are up to date. We hope that you find your membership with us to be worthwhile and if so, please mention us to others within the industry so that they might also join. It's a great benefit to us all if our organization grows. As always, write to me at brodie.heflin@jacobs.com if you know of anyone who would benefit from membership with us.

Thanks, Brodie Heflin

Grassroots Committee Reports Cont.

Chapter Technology Transfer Chair (CTTC)

This month we have interesting and timely technical seminar on energy savings. Next month's presentation will be particularly exciting because we will have the rare opportunity to sneak a peek behind the scenes of an ASHRAE Research Project RP 1333 and see the findings of the research conducted at Texas A&M University Energy Systems Laboratory on Air Flow Performance in Flexible Duct vs Round Sheet Metal Duct
Thanks, Tony Finch

Chapter Officers and Committee Chairs

Officers

President	Jay Martin, P.E.	(817) 735-6756	jay.martin@mail.ashrae.org
President-Elect	Ian L. Bost, P.E.	(817) 338-1277	ian.bost@mail.ashrae.org
Secretary	Richard J. Watters, P.E.	(817) 338-1277	richard.watters@mail.ashrae.org
Treasurer	Dan Merkel, E.I.T.	(414) 807-0204	daniel.merkel@mail.ashrae.org
Governor	David James	(817) 921-5434	djames@haroldjames.com
Governor	W.O. Kelly, III	(817) 714-0504	wok59ag@aol.com
Governor	Cody W. Pace, P.E.	(817) 338-1277	cody.pace@mail.ashrae.org

Committee Chairpersons

Bylaws	John Rhodes	(972) 386-5629	johnrhodes@mail.ashrae.org
Audit	Phil Farco	(817) 267-8651	phil_farco@mason-dallas.com
Chapter Technology Transfer	Tony Finch	(817) 656-6076	tonyfinch@mail.ashrae.org
Historian	Patty Parrish	(817) 791-3227	patty.parrish@us.belimo.com
Honors and Awards	Larry Akers	(817) 336-0543	lakers@fribergassociates.com
Membership	Brodie Heflin	(817) 735-6251	brodie.heflin@mail.ashrae.org
Newsletter	Ian L. Bost, P.E.	(817) 338-1277	ian.bost@mail.ashrae.org
Refrigeration	Richard Long	(817) 354-2898	rjdklong@juno.com
Research Promotion	David James	(817) 921-5434	djames@haroldjames.com
Student Activities	Matt Carter	(817) 838-1379	matt.carter@mail.ashrae.org
Special Events	Jay Sullivan	(817) 805-0020	jay.sullivan@mail.ashrae.org

Upcoming Events

- Director and Regional Chairman for ASHRAE (Ken Fulk) will be visiting us in September and reporting on the activities of the Region and Society.
- East Texas ASHRAE Chapter:
Topic: Solar Energy Production for Residential and Small Commercial Applications (September 17th)
Location: 1700 E. Duncan St. Tyler, TX.
- ASHRAE FTW
 - Fall Golf Tournament (October 5th)
 - all Sporting Clay Tournament (date TBD)
 - Tour of NEW Cowboy Stadium (hopefully)
 - Winter Party (January, 2009)
 - Don't forget CRC in April, 2009 (Monterrey, Mexico). You will need to get your passport early.
 - Spring Golf Tournament (date TBD)

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Fort Worth Chapter of ASHRAE
6300 Ridglea Place, Suite 700
Fort Worth, Texas 76116