

December 14, 2009: Vol. 52, No. 5

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

The holidays are nearly upon us and we have just one more meeting before we take a little time out to focus on our loved ones. This month we have invited Mike Olson with ABB to present a technical seminar on "Total Energy Management of Building Systems." This discussion will focus on the use of variable frequency drives on fans and other HVAC systems. As always, I encourage you to swing by our website ([www.ashrae-ftw.org](http://www.ashrae-ftw.org)) to see a more detailed synopsis of the monthly meeting and to get information on all our upcoming events. Please be on the lookout for the eventbrite invitation when it comes out shortly. Ken Fulk, our Director and Regional Chairman (DRC) will be joining us in December to see how things are going first-hand.

Here's a couple of things to look forward to in the coming months:

- Our annual winter party in January at Joe T. Garcia's. This will also be our casino night fundraiser
- A tour of the Miller Brewery
- January meeting with a technical theme on lab controls

We continue to have fantastic turn-outs at our meetings this year and I'm hoping December will not be an exception. Tony Finch has done a fantastic job with the programs and I hope you find the meeting topics both interesting and pertinent. If you haven't done so already, please encourage others in the industry that you haven't seen at ASHRAE in a while to come along and see what we've got cooking.

Have a fantastic holiday season!

Sincerely,

Jay Martin, Chapter President

Next Chapter Meeting

Total Energy Management of Fans

December 16, 2009  
11:30 A.M.

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

[Click here for map.](#)



Building Sustainability from the Inside Out

ASHRAE 2010 Winter Conference  
Orlando, FL  
January 23-27

## December Program/Speaker Bio.

### Speaker:

Mike Olson  
ABB Inc.  
Power & Control Sales  
Manager - HVAC Applications  
email: [mike.olson@us.abb.com](mailto:mike.olson@us.abb.com)

### CVR Bio:

"Total Energy Management of Fans" and other topics will be described by Michael R. Olson, Manager – HVAC Applications, ABB, Inc. Automation Technologies, Low Voltage Drives. VFDs play a vital role in the precise control of high-performance green buildings by contributing towards energy-efficient air and water movement for HVAC systems. In addition, VFDs are an integral component of ASHRAE Standard 90.1 and the LEED - Energy and Atmosphere category.

Mr. Olson will present serial communications interfaces to building automation systems for the HVAC market, and describe the impact of these developments specifically on fan applications. ABB is the pioneer of serial communications interfaces and has recently enhanced the capabilities of the VFD in the HVAC environment. In this session, Mr. Olson will demonstrate these enhanced capabilities and describe several potential paradigm shifts that are expected to develop from same. In addition to optimizing electrical energy usage, the real-time information gained from these serial communications interfaces may be used to develop, and implement, enhanced energy savings strategies on fan applications. Case studies demonstrating the enhanced energy savings available will be presented, with a live equipment / communications demonstration.

Mr. Olson has extensive experience in the HVAC, Water/Wastewater Treatment, and Chemical markets. He has been applying adjustable speed drives for over 27 years. Mr. Olson has been published numerous times in trade journal articles discussing energy savings and the proper application of adjustable speed drives and has been a contributing editor to several books on the subject. He has an Electrical Engineering degree from the University of Illinois, and a Masters of Science in Engineering Management degree from the Milwaukee School of Engineering. He is a Member of ASHRAE and of BACnet International. He is on the BACnet International marketing committee and has helped plan and coordinate all BACnet Conference and Expos since 2005. He also attended the United States Air Force Academy in Colorado Springs for two years.

### Presentation Title:

Total Energy Management of Building Systems - VFDs and the Green Building

### Presentation Outline:

ASHRAE Standard 90.1 requires efficient part-load control above a certain HP and the easiest and best way to accomplish the part-load efficiency specified is VFDs. Likewise, LEED points are available for use of VFDs on fans and pumps and the Energy and Atmosphere category awards points for electrical part-load efficiency.

## Board of Governors Meeting Minutes

**Attendees:** 9 Members: Jay Martin, Ian Bost, Richard Watters, Patty Parish, Larry Akers, Jay Sullivan, Tony Finch, Matt Carter, and Cody Pace.

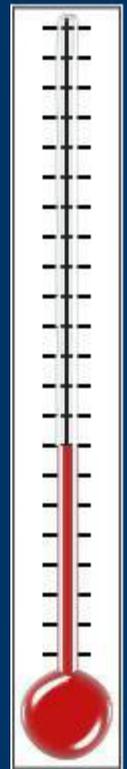
Meeting Called to order at 10:36am by Jay Martin, Chapter President.

### Reports:

President-Elect (Ian Bost):

- President training is a go for 11/20/09. This will be a conference call, with a meeting in February.

PAOE Points



RP Dollars



## Board of Governors Meeting Minutes - Cont.

- Other venue for Chapter meetings is unknown. Will work with Heath Kline on this.
- Newsletter is in good shape. PAOE and RP have not been updated.
- Next Newsletter will describe what PAOE is and why it is important.

Secretary (Richard Watters):

- We will be printing the roster before the next meeting.
- Will be sending emails to chairman and officers to track status of MBOs.
- Sent emails to all members with their data as it will be shown in the Roster. I received much feedback, and have 45 more people to update in the database.

Treasurer (Dan Merkel): NIA

Board of Governors (David James): NIA

Board of Governors (W.O. Kelly): NIA

Board of Governors (Cody Pace):

- Keep up the good work.

ByLaws Revision (John Rhodes): NIA

CTTC (Tony Finch):

- Justin and Richard have updated program list
  - Richard has commitment to go to Miller as an additional activity
  - Will do this after Christmas
- Technical Award is next to do on the list
- PAOE status: the report has been sent to Regional

Historian (Patty Parish):

- Went to Library with Dan and reviewed the holdings
- PAOE - attempted to log in and had problems. Working on this.

Honors & Awards (Larry Akers):

- Need the second sponsor for Fellow Application as discussed last month.
- Still working on all the paperwork.

Membership Promotion (Brodie Heflin): NIA

- Per Jay Martin, we now have 29 delinquents.

Research Promotion (David James): NIA

Student Activities (Matt Carter):

- Everything is good
- TCU - we are waiting on getting the student group setup
- K-12 - waiting until next year to pursue involvement
- Future Cities is in Review

Special Events (Jay Sullivan):

- Winter Party Committee formed. George Buckmaster and Khanh Ho are on the committee.
  - Winter Party will be a Thursday night in January, tentatively the 14th.
  - Committee meeting is scheduled for next week for Sponsors and prize discussions.
  - Will email membership to inquire about sponsorships.
  - Members will be dealers.
  - Will review ticket cost.
- Spring Golf Tournament is being planned. It will likely be at Southwest.

Webmaster (Cody Pace):

- Last weekend, the site was updated with links to Facebook and LinkedIn
- Blog functionality updated

### Old Business:

- Finding a Petroleum Club replacement - activity on this action item has not progressed.
- Casino Night / Winter Party - looking at turning this into a Membership Promotion event and discussing how student members can be incorporated.

### New Business:

- Membership Promotion in January.

## Board of Governors Meeting Minutes - Cont.

- Happy Hour downtown on November 19th. Jay and Matt looking at venues.

**Closing:** President Jay Martin adjourned the meeting at 11:06am.

## General Business Meeting Minutes

### Business Meeting Minutes:

Meeting called to order at 11:54am by Scott Jones, BOMA Fort Worth President.

Scott discussed background of BOMA for introduction to all. Discussed BOMA Chapter Business. Jay Martin, Fort Worth Chapter of ASHRAE President, spoke about what ASHRAE is, our accomplishments, and our goals.

### Technical Session Minutes:

Tony Finch introduced our speaker:

**Speaker:** Victor Goldschmidt

### Topic of Discussion:

Anthropogenic Global Warming – Differing Perspectives

Mr. Goldschmidt provided an opening challenge to everyone. He discussed the commonality between ASHRAE and BOMA, and described how history was accomplished in Florida as the local chapters of ASHRAE and BOMA joined together to enact changes in local government by advising City personnel. Goldschmidt challenged the Fort Worth Chapters of both organizations to start a Fort Worth Energy Initiative.

Mr. Goldschmidt provided a very informative and engaging discussion on Global Warming. A different approach to the usual formal presentation on these topics will be presented. It is the consequence of attempting to analyze the available data to demonstrate the reality of anthropogenic global warming. Unfortunately the analysis led to the conclusion that the only reality is in the uncertainties of these areas. A review of the data and predictions from climate change models will first provide evidence as to the culpability of CO2. Following that, through careful analysis of the data, consideration of solar and astronomical large scale effects, and the nature of computer modeling, the second perspective will raise serious doubts on the culpability of CO2 as a greenhouse gas threatening the welfare or even survival of future generations. The closing message will be a challenge to always “think as engineers”.

Always question the data.

**Closing:** Jay Martin adjourned the meeting at 1:05pm.

## Chapter Financial Report

STARTING BALANCE DATE 10/28/2009  
NEW BALANCE DATE 12/3/2009

### Treasurer's Report

*Dan Merkel*

#### Meeting Information:

Date of Meeting: 11/3/2009  
Members 47  
Guests 7  
**Total:** 54

#### Financial Data:

Starting Balance (10/28/09): \$ 6,580.55  
Deposits:

November Luncheon Payments \$700.00  
October eventbrite Payments \$80.00  
November Luncheon Jacobs Payments \$420.00  
November eventbrite Luncheon Payments \$120.00  
October Dues \$420.00

**Subtotal:** \$ 1,740.00

#### Payments:

November Luncheon \$1,128.00  
October Parking \$72.50

**Subtotal:** \$ 1,200.50

**New Balance as of 12/3/09:** \$ 7,120.05

## ASHRAE Technology Awards

### Show the World You Made It!

Be the winner of the industry's most prestigious honor for efficient use of energy in building and environmental system performance. The ASHRAE Technology Awards recognize, on a global scale, successful applications of innovative design, which incorporate ASHRAE standards for effective energy management, indoor air quality, and mechanical design.

#### Awards are given annually in the following categories:

- Commercial buildings
- Health care facilities
- Public assembly
- Institutional buildings
- Industrial facilities
- Residential
- Alternative or renewable energy use

## ASHRAE Technology Awards - Cont.

### Fort Worth Chapter Competition:

- Recognizes local members at the chapter level for outstanding design and innovations for effective energy utilization.
- The format of competition and judging at the chapter level can be setup by the local chapter (see attached **Short Form** and example Short Form).
- The chapter submittal deadline should be before **April 15<sup>th</sup>, 2010** to allow enough time to complete and submit a Short Form Award Application to the CTTC RVC before the **May 1<sup>st</sup>, 2010** Deadline.

### ASHRAE would like to recognize our 2009 first place National winners:

- **Kenneth Sonmor**—St. Laurent Office Tower/Montreal, Canada
- **Laurier Nicols**—Centre Communautaire de Mississini/Misstissini, Quebec, Canada
- **Thomas Durkin**—HVAC Renovations at George Washington Carver Elementary School Indianapolis, Indiana
- **Jacques de Grace**—Normand-Maurice Building/Montreal, Quebec, Canada

### Technology Awards Program



The purpose of the ASHRAE Technology Awards program is to:

1. Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
2. Communicate innovative systems designs to other ASHRAE members;
3. Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

Each year the Society may present awards in seven categories: Commercial Buildings (New and Existing); Institutional Buildings (New and Existing); Health Care Facilities (New and Existing); Industrial Facilities or Processes (New and Existing); Public Assembly (New and Existing); Residential (New and Existing); Alternative or Renewable Energy Use.

For each category a first, second, and honorable mention winner may be named. Also, one of the category first place winners may be selected to receive the ASHRAE Award of Engineering Excellence. The recipient will have demonstrated the best overall compliance with the judging criteria.



### Technology Awards Program



The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation. Their designs incorporate ASHRAE standards for effective energy management and IAQ. Performance is proven through one year's actual, verifiable operating data.

## Casino Night

**FOOD**



**FUN**

**SAVE THE DATE**

## Fort Worth ASHRAE Winter Casino Night

**January 14, 2010**

**La Puertita at Joe T Garcia's**

**2201 N Commerce St.**

**Fort Worth, TX 76016**

**GREAT PRIZES**



## Grassroots Committee Reports

### Special Events

#### Winter Casino Night

The Fort Worth ASHRAE Chapter will be hosting a Winter Casino Night at La Puertita at Joe T Garcia's (the same location as our previous Winter Party). The event will be held on the evening of January 14, 2010. Be there for food, fun and great prizes. There are still sponsorship opportunities available. Please contact Jay Sullivan at 817-805-0020 if you're interested in helping support your Fort Worth ASHRAE Chapter. We'll see you there.

Thanks, Jay Sullivan

### Student Activities

The end of 2009 is shaping up to be just as exciting as the beginning for ASHRAE Student Activities! We are inching closer and closer to founding the student chapter at Texas Christian University, and the UTA senior design project team is wrapping up their load calculation and zoning for the ASHRAE design competition. Stay tuned for updates on K-12 involvement to kick off 2010."

Thanks, Matt Carter

# Help Spread The Word About ASHRAE!



## ASHRAE Winter Conference Jan 23-27

ASHRAE returns to Orlando January 23-27 for the Winter Conference and AHR EXPO. Your chapter can help promote the conference in your newsletters and on your web pages. Visit [www.ashrae.org/orlandoresources](http://www.ashrae.org/orlandoresources) and download additional information to help share the latest updates about the technical program, speakers, networking opportunities and more. Feel free to copy from the press release to use on your website and use the web ads to link to the official conference web page - [www.ashrae.org/orlando](http://www.ashrae.org/orlando).

Thanks in advance for sharing the news!



For more information on the 2010 Winter Conference, visit [www.ashrae.org/orlando](http://www.ashrae.org/orlando).

Questions? Comments? Send an email to [orlandoconference@ashrae.org](mailto:orlandoconference@ashrae.org).

ASHRAE, Inc.  
1791 Tullie Circle NE  
Atlanta, Georgia 30329

## ASHRAE Launches Virtual Conference

ASHRAE is adding a Virtual Conference option for the 2010 Winter Conference so members don't have to miss information presented in technical sessions. The Orlando Virtual Conference allows participants to view presentations, post and view questions and comments, and see presenters' responses. It includes more than 250 presentations (synced audio and PowerPoint presentations), with online access to the material for one year. The Virtual Conference is free for paid attendees at the Winter Conference. Registration for the Virtual Conference opens on Nov. 13.

[Click here](#) to learn more about the Virtual Conference.



The Virtual Conference allows remote access to sessions.

## Chapter Officers and Committee Chairs

### Officers

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

### Committee Chairpersons

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

## Upcoming Events

- Director and Regional Chairman for ASHRAE (Ken Fulk) will be visiting us in October and reporting on the activities of the Region and Society.
- ASHRAE FTW
  - ASHRAE Refrigeration Tour at Miller Brewery (January 15th @ 4:00pm?)
  - Winter Party (January 14, 2009)
  - 2010 ASHRAE Winter Conference in Orlando Florida (January 23-27)
  - ASHRAE Webcast, "**Right From the Start – Commissioning for High Performing Buildings**" (April 21, 2010)
  - All Sporting Clay Tournament (date TBD)
  - Spring Golf Tournament (date TBD)
  - Webcast "Right From the Start - Commissioning for High Performing Buildings (April 21st)
  - Tour of NEW Cowboy Stadium (hopefully)
  - CRC - Monterrey, Mexico (April 22-24)
    - <http://www.crc-2010.org/index1.html>
    - **You will need to get your passport early.**

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