



February 19, 2013: Vol. 55, No. 06

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.

## President's Message

This ASHRAE year is going by very quickly and hopefully you have had a few opportunities to join us, but if not, fear not, we have plenty of events coming up quickly. Here is a quick list:

February 20<sup>th</sup> February Meeting What Consulting Engineers Need to Know About Installing VRF Systems From a Contractors Perspective

- February 25<sup>th</sup> -26<sup>th</sup> SPEER Conference – *Austin, TX*
- March 15<sup>th</sup> Sporting Clays
- March 20<sup>th</sup> Parkland Central Plant Tour
- March 21<sup>st</sup> March Meeting – Joint Meeting with NTAEE at TCU
- April 1<sup>st</sup>: ASHRAE Fort Worth Golf Tournament: Timarron Golf Course
- April 18<sup>th</sup>: Webcast - Assessing Building Energy Performance: From Principals to Practice
- April 17<sup>th</sup> : April Meeting
- April 18-20<sup>th</sup> ASHRAE CRC – *Austin, TX*

Back to this week, John Reynal, Manager, Encore Mechanical, will present on What Consulting Engineers Need to Know About Installing VRF Systems From a Contractors Perspective. This will include: Variable Refrigerant Flow – State of the Union, VRF systems require uncommon acumen, and VRF Specifying.

Thanks again for your participation in ASHRAE and making YOUR chapter great!

Dan

Next Chapter Meeting

Feb 20, 2013

11:30 A.M.  
Design with Confidence: What Consulting Engineers Need to Know About Installing VRF Systems From a Contractors Perspective

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

[Click here for map.](#)

## February Program – February 20, 2013

**Date:** February 20, 2013

**Time:** 11:30 a.m. – 1:00 p.m.

**Location:** Carter Burgess Plaza Petroleum Club – 40<sup>th</sup> Floor

**Topic:** Design With Confidence: What Consulting Engineers Need to Know About Installing VRF Systems From a Contractors Perspective

### Speaker Info.

John Reynal, Manager, Encore Mechanical, LLC

John is an owner and a manager of Encore Mechanical, LLC, a mechanical contracting firm formed in 2006 and based in Southlake, TX.

Encore Mechanical, LLC is a leader in variable refrigerant technologies with proven installations for the US Army, LG VRF Laboratory, Make-A-Wish Foundation, and most recently Halliburton. As early adopters, Encore Mechanical, LLC has a portfolio of work that stretches from Washington to Pennsylvania and includes work in six other states in between.

John's career includes a significant background in estimating and project managing large mechanical scopes of work for multiregional customers who value a predictable performance.

John earned his BS degree in Environment Economics at the University of Florida and his MS degree in Construction Management from Texas A&M University.

### Presentation Outline

1. Variable Refrigerant Flow – State of the Union
2. VRF systems require uncommon acumen
3. VRF Specifying

## January Meeting Minutes – Board of Governors

### Call to Order by Dan Merkel at 10:40 am

Members in attendance – Tony Finch, Keith Woodlee, Bill Lueg, Jay Sullivan, Sean Rath, Richard Watters, Saul Martinez, John Maryak, David Muzzy, Clif Upham, Ian Bost, Dan Merkel, Richard Long, Cody Pace

### President

- o Future Cities \$100 donation was made.
- o Reminder for anyone who volunteered for the annual meeting that the date was fast approaching
- o Start thinking of goals, etc for next year. What will the board be “passionate about”
- o Dan needs input on a sustainability project. There are ideas on the Society website
- o We are trying to host the Parkland plant tour on the 3<sup>rd</sup> Wednesday of March. It will be the day before the joint meeting for AEEE

### Officer Reports

#### *President-Elect (Finch)*

- o Volunteers will be needed for next year. Ask around in the chapter for support

#### *Secretary (Sullivan)*

- o The roster is complete with the exception of sponsor letters.
- o The sponsor letters will go out at the same time as the PDHs after this meeting

#### *Treasurer (Upham)*

- o We will be carrying the endowment balances forward in the account until we decide how to allocate it

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

- o Dan will attend the AEEE meeting on 1/17 and plan the joint meeting in March.

[CLICK HERE TO  
CONTRIBUTE!](#)

## January Meeting Minutes – Board of Governors (cont.)

### Committee Chairman Reports

#### *CTTC (Schroeder)*

- Nothing to report

#### *Historian (Brunkenhoefer)*

- Nothing to report

#### *Honors & Awards (Akers)*

- Nothing to report

#### *Membership Promotion (Woodlee)*

- The AEEE meeting on the 3<sup>rd</sup> Thursday of March will be the membership promotion lunch. Those bringing a guest will receive free entrance.

#### *Refrigeration (Lueg)*

- A committee volunteer is still needed.

#### *Research Promotion (Watters)*

- Emails were sent in an effort to start the fundraising campaign

#### *Special Events (Rath)*

- Timarron and The Tribute are being considered for an early April tournament

#### *Student Activities (Bost)*

- Anyone interested in volunteering at the Future Cities competition should get in touch with Ian.

#### *Webmaster (Pace)*

- Cody will update the \$ raised portion of the website once the figures are counted

### Old Business

- The YEA happy hour idea for the ASHRAE Convention has been cancelled due to excessive time commitments of the members

### New Business

- There will be a 2015 CRC Committee meeting in Feb or March
- See everyone at ASHRAE

### Closing @11:17

Motion to close – IB, 2<sup>nd</sup> - JS

## January Meeting Minutes – General Business

### Call to Order – Self introductions

- 63 members in attendance

### Old Business

- Roster Sponsorship spots are still available. Look for an email near Jan 1.
- ASHRAE YEA Happy Hour during the Convention has been cancelled

### New Business

- Approve Meeting Minutes for last month – Upham, Watters 2<sup>nd</sup>, approved
- There were 7 members in attendance at the seminar this morning

## January Meeting Minutes – General Business (cont.)

### Program

- Introduce Speaker

### Speaker Bio:

Bill England is the 'National Hydronics Training Manager' for Flow Design Inc., a manufacturer that provides Hydronic HVAC Automatic and Manual Balancing Valves, Pre-assembled Coil Piping Hookups, Differential Pressure Controllers, Piping Components & Accessories as well as Hydronic Knowledge and Systems Support through training and seminars.

He has been active in the HVAC industry for over 25 years, specifically concentrating on hydronic flow control for over 18 years. He has conducted engineering seminars for various organizations such as NEBB and ASHRAE on many subjects including hydronic balancing and pressure independent systems.

Bill is a graduate of Drexel University in Philadelphia with a Bachelors in Electrical Engineering and an MBA from the University of Baltimore. He is an active member of ASHRAE.

The presentation is available online at the Fort Worth ASHRAE Website.

### Closing

- Next meeting is February in the same location.
- Please fill out speaker evaluation forms.

## Treasurer's Report – Clif Upham

STARTING BALANCE DATE	2/1/2013
NEW BALANCE DATE	2/28/2013

**Treasurer's Report** *Clif Upham*

### Financial Data:

Starting Balance (2/1/13):	\$ 6,391.96
Deposits:	
2/1/2013 - December Chapter Dues	\$ 420.00
<b>Subtotal:</b>	<b>\$ 420.00</b>

Payments:

<b>Subtotal:</b>	<b>\$ -</b>
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<b>New Balance as of 2/28/13:</b>	<b>\$ 6,811.96</b>
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## ASHRAE Dallas Sponsored Sporting Clay Shoot

The Dallas Chapter would like to extend an invitation to all the Fort Worth Chapter members to attend a sporting clay shoot on March 15th. We will be giving away two high-quality, rugged Brute Coolers (better than the Yeti) to an attendee and a corporate sponsor. It should be a fun event and we hope to see your members out there.

Regards,  
Charles

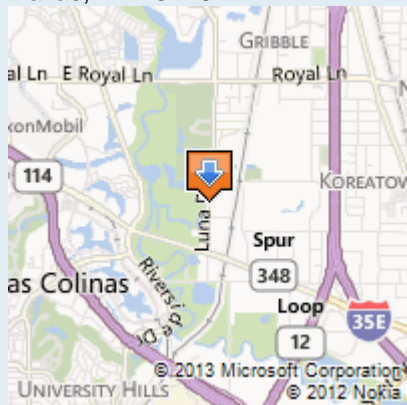
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## REMINDER

### ASHRAE Dallas Chapter Sporting Clay Shoot 2013

#### Where:

Elm Fork Shotgun Sports  
10751 Luna Road  
Dallas, TX 75220



#### [Driving Directions](#)

#### When:

Friday March 15, 2013 from  
11:30 AM to 4:00 PM CST  
[Add to my calendar](#)

Enjoy an afternoon having lunch and shooting sporting clays with the ASHRAE Dallas Chapter. This event is hosted by the ASHRAE Dallas Chapter with the intention of bringing together professionals from several great Texas chapters of ASHRAE, ASPE, & AFE. Members, non-members, and vendors are all welcome.

The cost is \$125 per person and includes BBQ lunch and shooting fees. Beginners are welcome and a brief safety & instruction course will be held prior to shooting. Shooters are responsible for bringing at least 100 rounds of ammo and a shotgun. Shotguns are available for rent at the range and ammo can be purchased. Registration begins at 11:00 AM. Lunch will be served at 11:30 AM and the shooting starts at 12:30 PM.

Click on the link below to register.

### **[Register Now!](#)**

[I can't make it](#)

Corporate sponsorship packages are available. All proceeds will benefit chapter scholarships or research promotion.

Contact the event coordinator Doug Jones with Lochinvar at [djones@lochinvar.com](mailto:djones@lochinvar.com) or call 817-946-7452 with any questions or for additional sponsorship details. Thank you for your continued support of our chapter and we look forward to seeing you at the event.

Sincerely,

## ASHRAE Tour of Parkland CUP – March 20<sup>th</sup>

We will begin promptly at 11:45 so as to respect everyone's busy schedule.

Pre-tour Presentation (15-20 minutes) **start at 11:45:**

Cityville, Kessler Conference Room  
2222 Medical District, Suite 210  
Dallas, Texas 75235

There is a parking garage in the Cityville complex that should accommodate us.

from there we will walk to the CUP for the tour (physical address):

5218 Tex Oak Ave  
Dallas, Texas 75235

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

**April 18, 2013 12:00 pm – 4:00pm CST**

Hosted by *Texas AirSystems FW*

2951 Northern Cross Blvd, Ste 201  
Fort Worth, TX 76137



**Tentative Program:**

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

1:30pm Break

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

2:55pm Closing

## South-central Partnership for Energy Efficiency as a Resource

The South-central Partnership for Energy Efficiency as a Resource (SPEER) enters its second year with an exciting [Summit](#), designed to explore, further develop, and prioritize policies and strategies needed to push energy efficiency forward in new buildings, existing buildings, and electric markets.

Ed Mazria, founder and CEO of Architecture 2030, will deliver the keynote address to kick off the Summit in Austin on February 25. Mr. Mazria is an international leader on efforts to make buildings dramatically more energy and water efficient, leading the movement to establish 2030 districts in cities with goals to reach carbon neutrality by 2030. These districts have been established so far in Los Angeles, Seattle, Cleveland, and Pittsburgh.

**ASHRAE Members can receive a \$50 discount off the registration. On the [registration page](#), select "Early Registration-Supporting Organization" and then select ASHRAE from the drop down menu.**

Sponsors of the SPEER Summit include Dow Chemical, Mitsubishi, Environments for Living, TexEnergy Solutions, BASF, CCRD Partners, the Texas Home Energy Raters Organization, and the CleanTX Foundation.

To learn more about the Energy Efficiency Summit, please visit: [www.eepartnership.org/summit](http://www.eepartnership.org/summit)

## ASHRAE Publishes Revised Filtration Standard; Combines Standard 52.1 and 52.2

A newly revised filtration standard from ASHRAE combines two standards setting the path to improve the technical accuracy of filter testing.

ANSI/ASHRAE Standard 52.2-2012, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size, establishes a test procedure for evaluating the performance of air-cleaning devices as a function of particle size. The publication marks the first time Standard 52.2 has been published combining Standard 52.1, Gravimetric and Dust Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter.

“Combining the two standards provides a clean slate to begin significant changes regarding making the method much more technically accurate,” Robert Burkhead, chair of the Standard 52.2 committee, said. “Specifically, we have plans in motion to change the MERV (minimum efficiency reporting value) table ranges, narrow the ambient conditions allowed and further refine the instrumentation specifications – all in an effort to reduce the variability of the data product from the standard.” Standard 52.2 now incorporates the Standard 52.1 sections on arrestance and dust-holding capacity; and also adds a new informative appendix, Appendix J, that provides an optional method of conditioning a filter using fine potassium chloride particles to demonstrate efficiency loss that might be realized in field applications.

The standard addresses three air-cleaner performance characteristics of importance to users: the ability of the device to remove particles from the airstream, the total dust holding capacity with arrestance (weight efficiency) and its resistance to airflow, according to Burkhead.

The cost of ANSI/ASHRAE Standard 52.2-2012, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size, 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](http://www.ashrae.org/bookstore).

## ASHRAE and UNEP Strengthen Global Cooperation; Launch 2013-2014 Biennial Work Plan

ASHRAE and UNEP Strengthen Global Cooperation; Launch 2013-2014 Biennial Work Plan

ASHRAE and the United Nations Environment Programme (UNEP) have launched their third biennial Work Plan for 2013-2014, based on a global cooperation agreement signed in 2007, at ASHRAE’s 2013 Winter Conference held in Dallas, Texas, Jan. 26-30, 2013.

The ASHRAE-UNEP cooperation agreement was developed to achieve several international goals, including the sustainable phase-out of Ozone Depleting Substances (ODS) in refrigeration and air-conditioning applications; maximizing the climate benefits of using zero ODS alternatives including aspects of energy saving in buildings; as well as facilitating the transfer and adoption of suitable technologies in developing countries.

The new work plan covers the 2013-2014 timeframe with an objective of increasing cooperation between ASHRAE and UNEP by transferring relevant technologies amongst different regions and continents. The plan is prepared based on success achieved and lessons learned from the implementation of two previous work plans.

The new work plan includes two main goals and several relevant actions. The first goal, which addresses emissions reduction, long-term refrigerants and energy efficiency in buildings, includes five different actions. These actions address promoting research of long-term refrigerants, building knowledge of specialists about refrigerants through education and certification, developing a specialized guide for refrigeration installations and coordinating efforts in the area of energy efficiency in buildings.

The second goal aims at promoting expertise and technological information exchange to governments and specialists dealing with ASHRAE and UNEP, developing a regional roster of experts, establishing an international advisory team to assist developing countries in instituting/updating relevant standards and codes, as well as developing joint online tools and a forum for partners and stakeholders, allowing for better communication and dissemination of related information.

The ASHRAE-UNEP coordination team will continue its work to oversee sound implementation of the work plan and facilitate the involvement of ASHRAE chapters around the world as well as UNEP regional teams.

## Return to Dallas Sees High Attendance, New Technology at ASHRAE Conference

From technology in the palm of your hand to technology from around the world, the ASHRAE Winter Conference brought attendees all the latest updates in the building industry.

Some 2,840 people attended the Conference, held Jan. 26-Jan. 30, in Dallas, Texas. Attendees came from around the globe, including India, Latvia, Romania, Thailand and even Uganda, to name just a few.

Also taking place in conjunction with the Conference was the ASHRAE co-sponsored Air-Conditioning, Heating, and Refrigerating Exposition, which set new all-time records for a Southwest Show. The Expo attracted 51,337 attendees, including nearly 34,000 visitors. The Show also saw the most exhibitors, 1,951, and largest square footage, 397,000 sq. ft., for any Southwest Show.

New to the Conference was the ASHRAE Event App. Some 2,000 Conference attendees accessed education courses and social events with the touch of a button; had maps and floorplans in hand to find their way around; added sessions to their personal schedules and created one-touch custom agendas of events from their smartphones and tablets.

The Winter Conference technical program featured nearly 200 presentations, with the top attended session in the systems and equipment, facility management, energy conservation and fundamentals and applications tracks. The top-attended sessions were Introduction to the ASHRAE/REHVA Chilled Beam Design Guide; Desiccant Enhanced Air Conditioning; The FM Perspective: Reducing Energy Consumption and the True Cost of Maintenance; Innovative Energy Efficiency Strategies for Commercial Buildings; and Decoupling the Latent Load Through Psychrometrics.

Other Conference highlights included the Technical Plenary, which drew 330 attendees, with its focus on ethics and engineering.

These, and additional sessions, from the Technical Program are part of ASHRAE's Virtual Conference, which provides access to more than 250 presentations. Register or access presentations at [www.ashrae.org/dallasvirtual](http://www.ashrae.org/dallasvirtual).

The Conference offers an opportunity for ASHRAE to strengthen its relationships with other associations from around the world. ASHRAE took advantage of the diverse group of attendees to sign Memorandums of Understanding (MOU) with the Council of American Mechanical and Electrical Engineers (CAMEE); the National Association of State Energy Officials (NASEO); and the Society of Heating, Air-Conditioning and Sanitary Engineers of Japan (SHASE). The Society also signed a Mutual Recognition Agreement (MRA) with the Chartered Institution of Building Services Engineers (CIBSE). The MOUs and MRA highlight the shared goals of ASHRAE and the organizations and promote mutually beneficial partnerships between the signing parties.

ASHRAE also furthered its existing relationship with the United Nations Environment Programme (UNEP), launching its third biennial Work Plan for 2013-2014, based on a global cooperation agreement signed in 2007.

Also offered were five Professional Development Seminars and 14 short courses from the ASHRAE Learning Institute (ALI). The most popular courses were Energy Management in New & Existing Buildings; Humidity Control Applications, Control Levels and Mold Avoidance; and Laboratory Design: The Basics and Beyond. Additionally, ALI offered a special session of its in-depth HVAC Design: Level I—Essentials training. The session was held Jan. 30-Feb. 1 and saw 39 attendees.

Top selling publications included "Performance Measurement Protocols: Best Practices Guide;" "Handbook of Smoke Control Engineering;" "Thermal Guidelines for Data Processing Environments, 3rd edition;" Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings;" "A Practical Guide to Seismic Restraint, 2nd edition;" "ASHRAE Papers CD: 2013 ASHRAE Winter Conference;" and Standard 90.1-2010 User's Manual.



## Chapter Officers and Committee Chairs

### OFFICERS

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