



# The Texas Norther

Monthly Newsletter of the Dallas Chapter, Region VIII

Volume 62, No. 1

[www.dallas-ashrae.org](http://www.dallas-ashrae.org)

September/October 2012

## Chapter Meeting

### November

10:00a.m.-11a.m. Technical Session

11:00 a.m. Registration

11:30 a.m. -1:00 p.m. Luncheon Meeting

### Where:

Maggiano's North Park Dallas  
8687 N Central Expressway  
Dallas, TX 75225

### Technical Session Topic:

Building Blocks of Hydronic Systems

### Lunch Session Topic:

Differential Pressure Control of Hydronic Systems

### Presenter:

Hooman Daneshmand, PE,  
Hydronic Trainer for TA  
Hydronics

### Reservations:

[www.dallas-ashrae.org](http://www.dallas-ashrae.org)

Letters to the Editor should be sent via e-mail to [april@ccrd.com](mailto:april@ccrd.com)

ASHRAE National Customer Service:  
800/5ASHRAE

## Message From the 2012-2013 Dallas ASHRAE President



Hello Fellow Dallas Chapter Members,

After a long summer sabbatical, it was great to see so all the familiar faces during the September meeting. We got off a great start with 140 attendees for the September meeting, and 110 attendees for the October meeting. Mixed in there were a

good percentage of new faces, I am looking forward to meet all of you, and hope to see you regularly at our monthly meeting.

No doubt, our CTTC chair Charles Crawford has done a great job of putting programs together. The first topic presented "Chilled Beam Systems in Southern Climates" lift a few myths about condensation as a result of Chilled Beam Systems in our climate. Indoor humidity control is the key regardless of installation location. The October topic presented on desiccant technology, which can effectively and efficiently remove moisture in the air, hence controls indoor humidity. Continuing with energy saving theme, November meeting will include a presentation on "Differential Pressure Control for Hydronic Balancing", as well as a tech session from 10:00 am to 11:00 am. Please be on lookout for flyer in your email for details on topics and presenter.

November meeting will also be the "Member Recognition Night for Research Promotion". During the meeting, past RP Chair Ben Bain will recognize all individuals who have contributed to the 2011-2012 ASHRAE Research campaign. List of members who have made generous donation can also be found in "Honor Roll of Investors, 2011-2012" in October issue of ASHRAE Journal. Congratulations to Ben Bain! With Golf Tournament and Sporting Clay, Dallas Chapter was able to forward \$33,000.00 and puts us on top list of ASHRAE Chapter Treasury Contribution.

Lastly, volunteer positions for the Winter Conference had been fulfilled! However, Dallas Chapter is in need of volunteers to man the hospitality suite at Sheraton Downtown. Please contact any BOG members if you wish to be involved.

I look forward to see you at this month's meeting!

Until Next Month's Newsletter,  
Shelley Zhao  
Dallas Chapter President, 2012-2013



## ASHRAE Dallas Chapter - Program Organizer

### Year 2012-2013

Date	Session	Program / Technical Session		
		Speaker	Company	Topic
9/12	Main Program	Nick Searle	Danaco	Chilled Beam Systems in Southern Climates
10/10	Main Program	Trevor Wende	Advantix Systems	Liquid Desiccant Technology
	Tech Session	Trevor Wende	Advantix Systems	Outdoor Air Systems
11/14	Main Program	Hooman Daneshmand	Tour Andersson	Differential Pressure Control for Hydronic Balancing
	Tech Session	Hooman Daneshmand	Tour Andersson	Fundamentals of a Hydronic Heating/Cooling System
12/12	Main Program	Dr. Dan Int-Hout III, ASHRAE Fellow & DL	Krueger & ASHRAE Distinguished Lecturer	(DL) Methods of Effective Room Air Distribution
	Tech Session	Dr. Dan Int-Hout III, ASHRAE Fellow & DL	Krueger & ASHRAE Distinguished Lecturer	TBD
1/9	Main Program	David Reid, Vice President of Ethics	Texas Instruments	Professional Ethics
2/13	Main Program	Ben Westcott, Attorney	Andrews Myers, PC	Texas Legislative Updates for Construction
3/13	Main Program	Mike Thompson	Ingersoll Rand	The Future of Refrigerants: Where do we go from here?
4/10	Main Program	Doug Hass	TexasAirSystems	Health and Safety Utilizing Energy Recovery in a Critical Environment
5/8	Main Program	Dr. Dru Cawley, DL	ASHRAE Distinguished Lecturer	(DL) AEDGs to ZEBs
	Tech Session	Dr. Dru Cawley, DL	ASHRAE Distinguished Lecturer	(DL) TBD



## **New Scholarship Honors ASHRAE's First Female President**

ATLANTA —A scholarship created in memory of Presidential Member Lynn G. Bellenger, P.E., Fellow ASHRAE, has been announced for the 2013-2014 school year.

The one-year \$ 5,000 Lynn G. Bellenger Scholarship will be awarded to a deserving female undergraduate engineering student pursuing a degree in a field related to HVAC&R.

"Lynn was a role model for us all, and her dedication to energy modeling helped to promote a more sustainable world," ASHRAE President Tom Watson said. "Through this scholarship we hope to build upon her legacy by encouraging students to pursue excellence in the field of engineering, just as she did."

More information on the scholarship and details on how to apply can be found at [www.ashrae.org/scholarships](http://www.ashrae.org/scholarships).

Bellenger served as ASHRAE's president during 2010-2011 and was ASHRAE's first woman president in its 116 year history. Her presidential theme was Modeling a Sustainable World; she was a recognized expert in energy management, with a strong focus on the need for energy modeling to help create and refine more efficient buildings.

During her time as president, Bellenger promoted sustainable design, which according to her, "ignited a passion in people that is changing the world." The first ASHRAE Energy Modeling Conference was also held during her presidency.

Bellenger passed away in 2011. To honor her legacy, ASHRAE established the Lynn G. Bellenger Scholarship, which is being used to recognize women in engineering. Contributions to help fund the scholarship are being accepted at [www.ashrae.org/bellenger](http://www.ashrae.org/bellenger).





## TEGA Update

By: Matt Short, TEGA Officer, 2012-2013

### Advanced Metering and Data Management in Federal Buildings

The Senate unanimously passed the Enabling Energy Saving Innovations Act (H.R.4850). Originating in, and previously passed by the House, this bill was primarily aimed at changing energy efficiency requirements for walk-in cooler or freezer components that meet or exceed energy efficiency goals. The bill was subsequently amended in the Senate by U.S.

Senator Jeanne Shaheen (D-NH), and now also addresses industrial energy efficiency and federal building energy efficiency. Specifically, the bill would encourage advanced metering, energy management, and data collection. Significantly, the bill would also allow the U.S. General Services Administration (GSA) to update projects for which design is substantially completed but construction has not yet begun, to meet federal building energy efficiency standards (e.g., ASHRAE Standard 90.1-2010). This would help reduce the number of federal buildings built to out-of-date standards.

Because the bill was amended it must be passed by the House again before going to the President and possibly becoming law. The next opportunity for this to happen is when Congress returns in November from its election season recess.



### Life-Cycle Cost and Commissioning Requirements for Federal Buildings Gain Support in the U.S. House

Efforts to promote life-cycle cost considerations and building commissioning gained an important victory when a subcommittee of the House Transportation and Infrastructure Committee approved two amendments to the Public Buildings Reform Act (H.R.6430).

Offered by U.S. Representative Russ Carnahan (D-MO), the two amendments were drawn from the Congressman's High-Performance Federal Buildings Act (H.R.3371). One of the amendments would require GSA to consider life-cycle costs during the design of buildings for structures whose estimated construction costs top \$1 million, and where the federal government is paying more than half of the construction expenses. Under the bill, life-cycle costs would include the sum of investment, capital, installation, energy, operating, maintenance, and replacement expenses over the greater of either 50 years or the projected use period of the building. The amendment would also require GSA to report on life-cycle cost savings for buildings that GSA acquires or leases.

Mr. Carnahan's other amendment would require GSA to issue regulations that establish federal building commissioning standards that are modeled on existing private sector standards and guidelines, which could include ASHRAE Guideline 0 – The Commissioning Process. Buildings that GSA constructs or alters would be required to meet the commissioning standards GSA issues.

While these victories should be celebrated, the future of the Public Buildings Reform Act, which now includes Mr. Carnahan's amendments, remains uncertain, as the bill still faces approval from the full Transportation and Infrastructure Committee before being considered on the House floor for passage, and would then need to overcome similar hurdles in the Senate. Given the congested post-election Congressional agenda, hope for this bill may indeed be slim, though still present, as these issue have bipartisan support.



## **Membership Promotion Update**

**By: Shelby Felix, Membership Promotion, 2012-2013**

It's October, and you know what that means! That's right – bratwurst at the local Oktoberfest celebration, kids in costume running around your neighborhood, and (my most favorite of all) membership promotion month in ASHRAE! We had our membership drive at this month's lunch meeting, meaning you could bring someone that is a potential new member and they get in for free. Anyone in this industry is a potential new member, including – but not limited to – contractors, architects, building owners, commissioning agents, school districts, manufacturers, and of course, engineers. Continue to get out there and spread the word! We will have another membership drive in the spring.

As of the end of September, we only have 32 unpaid members. That means only 32 people are delinquent between 1 and 6 months. While 32 sounds like a lot, considering the size of the Dallas chapter, that's a fairly small number! If you are one of those members, you should have received an email on how to renew. The easiest way is online. For more information on how to renew, check out <http://www.ashrae.org/membership—conferences/my-membership>. If you have any questions on your membership status, you can contact me at [shelby.felix@trane.com](mailto:shelby.felix@trane.com).

Finally, we are having our Young Engineers in ASHRAE (YEA) happy hour happening Wednesday, November 7th. Come join us at Katy Trail Ice House in Uptown from 5 pm to 7:30 pm. This month's happy hour is sponsored by McMillan James Equipment. Keep an eye out for the invitation via the YEA email list. If you're not on this list and want to be a part of it, please let me know! Also, if you're interested in hosting a YEA event, talk to me or any other member of the board. While YEA members are under the age of 35 (hence the word "young" in the title), anyone is invited to this as well. These events better our industry by allowing both younger and more experienced professionals to network in a casual setting. Come on out – you never know who you'll meet or what you'll learn!"

## **CALLING ALL VOLUNTERS! ASHRAE WINTER MEETING**

**By: Jay Martin, Sessions Subcommittee Chairmain - 2013 Winter Meeting**

ASHRAE's winter meeting is coming to Dallas this January (26-30). If you are willing/able to serve as a monitor for the educational sessions you will receive complimentary registration for the conference (you would still have to pay for individual extras like lunches). This is a serious commitment since you will be getting a \$300+ value, so we need for you to be prompt and diligent on your day of service.

- A monitor serves during the technical sessions to scan badges, take attendance, and to alert others if something is going wrong. We will provide training.
- The time commitment is from approximately 7:30 am to 12:30 pm on a single day (Sunday through Wednesday) or from 1 pm to 5 pm on Sunday or Monday.

Please contact me [jay.martin@mail.ashrae.org](mailto:jay.martin@mail.ashrae.org) if you are interested in serving. Monitor roles will be awarded on a first-come, first-serve basis – you will know for sure if you have been selected by early October.

Thank you for your interest and service to ASHRAE.





## Refrigeration Update

By: Stuart DeVaney, Refrigeration, 2012-2013



Greetings from your Refrigeration Chair!

Please find below a copy of the [ASHRAE.org/news/2012](http://ASHRAE.org/news/2012) article from Jodi Scott of ASHRAE concerning the ASHRAE/NIST 2012 Refrigerants Conference “Moving toward Sustainability” October 29-30, 2012. This conference may affect high GWP refrigerants and their phase out. All refrigerants are on the table for this conference. I will keep you informed of the general theme and outcome of the conference when available as this will impact our industry.

### Alternative Low-GWP Refrigerants to be Presented at ASHRAE/NIST Refrigerants Conference

ATLANTA – Alternative low global warming potential (GWP) refrigerants will be presented at the ASHRAE/NIST 2012 Refrigerants Conference: “Moving toward Sustainability,” [Oct. 29 - 30, 2012](#), at the National Institute of Standards and Technology (NIST), Gaithersburg, Md.

Papers from leading global experts will be presented on refrigerant alternatives and technologies, environmental effects of refrigerants, new refrigerant performance considerations and natural refrigerants. All papers at the conference are presented by invited speakers.

“The goal of the conference is to provide new information on the technologies, methods and means that will be used in the future to accommodate the imminent phase-down of high-GWP refrigerants,” Piotr Domanski, conference co-chair, said. “International concerns about the impact of refrigerants on climate change inevitably lead to increased focus on refrigerants with a low GWP applied in high-efficiency systems. This includes a new generation of unsaturated fluorochemicals and the expanded use of ‘natural’ refrigerants.”

This is the fourth jointly sponsored refrigerants conference organized by ASHRAE and NIST.

Those involved in all the different aspects of refrigerants and refrigeration technology – policymakers, manufacturers, researchers and government officials – will receive an opportunity to learn about the latest developments and directions going forward.

A number of papers address the new generation of low-GWP fluorochemicals, including “Introduction to Alternatives for High-GWP HFC Refrigerants;” “Alternatives to High-GWP HFC Refrigerants” for air-conditioning, heating and refrigeration applications, chillers and residential and small commercial unitary; and “AHRI Low-GWP Alternative Refrigerant Evaluation Program” among others. Complete information on new low-GWP refrigerants according to ASHRAE designations, including blend compositions, will be presented.

Papers addressing risk assessments for applications with 2L refrigerants will include “Risk Assessment of Residential Heat Pump Systems Using 2L Flammable Refrigerants” and “2L Flammability Investigation and Risk Assessment Enables Automotive Industry Approval of HFO-1234yf.” Papers on specific emerging refrigerants address “Environmental Impacts of HFO-1234yf and Other HFOs,” “Thermal and Chemical Stability of HFOs” and “Thermophysical Properties, Heat Transfer, and Pressure Drop of HFOs.”



## **DALLAS ASHRAE 2012-2013**

### **BOARD OF GOVERNORS MEETING NOTES**

**Date:** August 22<sup>nd</sup>, 2012  
**Time:** 3:30 PM  
**Location:** Hotel Intercontinental  
Dallas, TX

#### **IN ATTENDANCE:**

Leo Stambaugh; Shelley Zhao; Charles Crawford; Gene Lowery; Brandon Damas; Shelby Felix; April Eisenhauer; Matt Short; Kevin Chow; Marc Tompkins

#### **COMMITTEE CHAIRS AND OFFICERS:**

1. President – Shelley Zhao
  - A The Board of Governors (BOG) has accepted the motion to keep the BOG meetings immediately following the general meeting.
2. President Elect/CTTC – Charles Crawford
  - A Made a motion to accept Fred Schroeder's invite to provide alcohol in a hospitality suite at the Sheraton for the national meeting in January. The budget approved to spend was \$2,000
  - B. Charles will make new nametags for the BOG members with the new ASHRAE logo.
  - C. Speaker for September's meeting will be Nick Searle with Dadanco and the topic will be Chilled Beam Cooling in Southern Climates.
3. Secretary – Gene Lowery
  - A New ASHRAE PDH's were ordered and received. We will use the remainder of the 2011 PDH certificates before switching over to the new PDH format.
  - B. Gene was assigned as the PAOE czar.
4. Treasurer – Brandon Damas
  - A Gene will send Brandon last year's fiscal year budget.
  - B. Gene will transfer treasurer accounts to Brandon on Monday 8/27/12.
  - C. BOG accepted a motion to move the remaining \$7000 funds from the 2010-2011 CRC Dallas into the chapter's regular checking account.
5. Research Promotion – Preston Dickson
  - A Was not in attendance.
  - B. The BOG needs to find out what the RP goal for 2012-13 is and what events besides the Clay Shoot on March 14th and the golf tournament in April we will be hosting.
6. Membership Promotion – Shelby Felix
  - A The membership promotion dates are set.
  - B. Gene made a motion to approve \$400 for hotel expenses for Shelby to attend membership promotion training in Atlanta, GA. Motion was seconded by Brandon Damas and carried.
  - C. YEA happy hours will start in October. Charles Crawford agreed to sponsor the first happy hour and it will be held at Ozona's on Greenville Avenue.
7. Honors and Awards – Kevin Chow
  - A Kevin will recognize B.J. Melton as being named an ASHRAE fellow at the September meeting. BJ is a past president of Dallas ASHRAE in 1980-81.
  - B. The chapter will invite BJ and his wife to the next meeting and comp their attendance.  
(cont'd on next page)
8. Newsletter – April Eisenhauer
  - A Newsletter articles are due at the first of each month and April said she would send everyone a calendar invite as a permanent reminder.
9. Historian – Marc Tompkins
  - A No new business.

The meeting was adjourned at 5:05 PM.

**Next BOG Meeting:** Immediately following the next monthly meeting on September 12<sup>th</sup>.



## **DALLAS ASHRAE 2012-2013**

### **BOARD OF GOVERNORS MEETING NOTES**

**Date:** September 12, 2012  
**Time:** 1:00 PM (meeting started at 1:23 PM)  
**Location:** Maggiano's  
Dallas, TX

#### **IN ATTENDANCE:**

Leo Stambaugh; Shelley Zhao; Charles Crawford; Gene Lowery; Brandon Damas; Shelby Felix; April Eisenhower; Julie Short; Marc Tompkins; Paulina; Matt Short; Fred Schroeder

#### **COMMITTEE CHAIRS AND OFFICERS:**

1. President – Shelley Zhao
  - A. Shelley had Leo Stambaugh say a few words – Leo thanked the board for a great turnout out of 129 folks. Leo said that BJ Melton should have been made a fellow 30 years ago and challenged the board to recognize fellows earlier in their careers.
  - B. Shelley had Fred Schroeder give us an update on the 2012 Winter Meeting. Fred still needs more than 30 volunteers to man tables, provide directions, etc. The welcome party at the hotel will be a western theme. There will be a hospitality suite that Dallas and possibly FW officers will need to man for the entire conference. He expects 50,000 guests with 3,000-3,500 being active participants. There will be tours of SMU, Baylor Cancer Center and Cowboys Stadium.
2. President Elect/CTTC – Charles Crawford
  - A. 119 folks RSVP'd and 140 attended.
  - B. Nametags will be complete for next month's meeting.
  - C. Working with the USGBC for a possible tour of the George Bush library in November.
  - D. YEA Happy Hour will be October 10<sup>th</sup> and Charles will be the sponsor – location TBD.
3. Secretary – Gene Lowery
  - A. Gene is to meet with Charles and Brandon to send out ASHRAE news.
  - B. Gene is to check the Yahoo account each month.
4. Treasurer – Brandon Damas
  - A. Brandon is to setup a vox.com account so we can store up to 506G.
  - B. Brandon is to write a check to full circle for the 3 BOG members who paid on Paypal.
  - C. Brandon is to get Preston a date to establish an audit date.
5. Research Promotion – Preston Dickson
  - A. Was not in attendance.
6. Membership Promotion – Shelby Felix
  - A. No new business.
7. Honors and Awards – Kevin Chow
  - A. Not in attendance.
8. Newsletter – April Eisenhower
  - A. Last Friday of the month is when BOG members should send in their articles. New photos of the BOG will be in the newsletter in 2 months.
9. Historian – Marc Tompkins
  - A. No new business.

The meeting was adjourned at 2:42 PM.

**Next BOG Meeting:** Immediately following the next monthly meeting on October 10<sup>th</sup>.





## **DALLAS ASHRAE 2012-2013**

### **BOARD OF GOVERNORS MEETING NOTES**

**Date:** October 18, 2012  
**Time:** 1:00 PM (meeting started at 1:18 PM)  
**Location:** Maggiano's  
Dallas, TX

#### **IN ATTENDANCE:**

Shelley Zhao; Charles Crawford; Gene Lowery; Brandon Damas; Shelby Felix; Kevin Chow; Marc Tompkins; Stuart Devaney

#### **COMMITTEE CHAIRS AND OFFICERS:**

1. President – Shelley Zhao
  - A. Will resend the instructions out on how to access the PAOE points website.
  - B. Shelley instructed that all BOG member reach out to their regional ASHRAE officers.
  - C. Shelley would like to get 50G of free space on box.com and the BOG and regional BOG would be given access.
  - D. A sustainability committee has to be established for PAOE points.
  - E. Roster sponsorship – could we raise money from it? No conclusion was reached.
2. President Elect/CTTC – Charles Crawford
  - A. 101 attended and 105 paid.
  - B. Made a motion to require a speaker evaluation form be given to the secretary in order to obtain a PDH certificate after the meeting. The motion carried.
  - C. The ASHRAE skeet shoot is set for March 15<sup>th</sup>, 2012.
3. Secretary – Gene Lowery
  - A. Noted that many cannot hear the self introductions. We will pass around a wireless mike in the future to address this.
  - B. Gene to call Preston to setup last year's treasurer/book audit for this coming Friday.
4. Treasurer – Brandon Damas
  - A. The \$200 overpay for Full Circle the the BOG will be allocated to a past president's scholarship at the national level. Brandon made this motion and Charles seconded it.
5. Research Promotion – Preston Dickson
  - A. Was not in attendance.
6. Membership Promotion – Shelby Felix
  - A. BJ Melton's membership was update to fellow.
7. Honors and Awards – Kevin Chow
  - A. Kevin will be reaching out to John Norris and Dick Schneider as a consideration for upgrading their membership to fellow.
8. Newsletter – April Eisenhauer
  - A. Not in attendance.
9. Historian – Marc Tompkins
  - A. No new business.
10. Refrigeration – Stuart Devaney
  - A. Stuart will come up with 2 committee members for Refrigeration

The meeting was adjourned at 2:03 PM.

**Next BOG Meeting:** Immediately following the next monthly meeting on Wednesday November 14<sup>th</sup>.



## SEPTEMBER 2012 MEETING





## OCTOBER 2012 MEETING





## Dallas Chapter - ASHRAE Income/Expense Statement

Official Starting Balance

Approximately \$15,000\*

\*per Gene

2012-2013 Annual Budget	Budget for '12-'13	Actual YTD	Percentage of Budget
<b>Income</b>			
(1) - Chapter dues	\$ 13,000.00	\$ -	
(2a) - Money Market interest	\$ 100.00	\$ -	
(2b) - Regular Share Interest	\$ 1.00	\$ -	
(3) - Meeting - meals, bar	\$ 18,500.00	\$ -	
(4) - Roster sponsors	\$ 1,500.00	\$ -	
(5) - Golf tournament	\$ 25,000.00	\$ -	
(6) - RP Events	\$ 500.00	\$ -	
PN Vinther	\$ 1,700.00	\$ -	
Miscellaneous	\$ 100.00	\$ -	
<b>Total Income</b>	<b>\$ 60,401.00</b>	<b>\$ -</b>	
<b>Expense</b>			
(7) - CRC representation	\$ 500.00	\$ -	
(8) - Student Activities	\$ 500.00	\$ -	
(9a) - Meetings-meals,bar,room	\$ 18,500.00	\$ -	
(9b) - Meetings - audio/visual	\$ 2,700.00	\$ -	
(10) - Research Promotion - Matching Fund	\$ 6,000.00	\$ -	
(11) - RP Events - Webcast	\$ 300.00	\$ -	
(12a) - Seminar - Fall	\$ 500.00	\$ -	
(13b) - Seminar - Spring	\$ 500.00	\$ -	
(14) - Website Charges	\$ 500.00	\$ -	
(15) - Miscellaneous	\$ 1,000.00	\$ -	
(16) - Golf tournament	\$ 20,000.00	\$ -	
(17) - Winter Meeting Fund	\$ 3,000.00	\$ -	
(18) - P.N Vinther Scholarship Fund	\$ 1,700.00	\$ -	
(19) - Printing - Roster	\$ 650.00	\$ -	
(20) - Regional Dues/Award	\$ 1,800.00	\$ -	
(21) - CPA Fees	\$ 125.00	\$ -	
(22) - USPS P.O. Box	\$ 204.00	\$ -	
(23) - Membership promotion	\$ 50.00	\$ -	
(24) - Bank service charges/check printing	\$ 50.00	\$ -	
(25) - Awards	\$ 400.00	\$ -	
(26) - Scholarships	\$ 500.00	\$ -	
<b>Total Expense</b>	<b>\$ 59,479.00</b>	<b>\$ -</b>	





**DALLAS CHAPTER  
2012-2013 Board of Governors**

President	President Elect / Programs Chair (CTTC)	Secretary
Shelley Zhao McMillan James Equipment Co. Phone: 817.912.0800 <a href="mailto:shelleyz@mjec.com">shelleyz@mjec.com</a>	Charles Crawford Victaulic Phone: 214.676.4134 <a href="mailto:ccrawford@victaulic.com">ccrawford@victaulic.com</a>	Gene Lowery Texas Air Systems Phone: 972.570.4700 <a href="mailto:glowery@texasairsystems.com">glowery@texasairsystems.com</a>
Treasurer	Membership Promotion	Historian
Brandon Damas, PE, LEED AP HTS Phone: 469.263.1000 <a href="mailto:brandond@htseng.com">brandond@htseng.com</a>	Shelby Felix Trane Phone: 972.919.2302 <a href="mailto:shelby.felix@trane.com">shelby.felix@trane.com</a>	Marc Tompkins HTS Phone: 469.263.1000 <a href="mailto:marct@htseng.com">marct@htseng.com</a>
Research Promotion	Tech Energy & Govt Activities	Student Activities
W. Preston Dickson Timberlake & Dickson Inc. Phone: 214.349.2320 <a href="mailto:wdickson@timberlakedickson.com">wdickson@timberlakedickson.com</a>	Matt Short, PE, LEED AP, CSI, HFDP Acts 29 Consulting Phone: 469.222.8489 <a href="mailto:matt.short@acts29consulting.com">matt.short@acts29consulting.com</a>	Chris Carr, PE, LEED AP, CEM, DBIA Brandt Engineering Phone: 972.395.6162 <a href="mailto:ccarr@brandteng.com">ccarr@brandteng.com</a>
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Honors & Awards		Publicity
Kevin Chow CCRD Partners Phone: 214.521.1661 <a href="mailto:kevinc@ccrd.com">kevinc@ccrd.com</a>		Leo Stambaugh Retired Phone: 214.369.3500 <a href="mailto:leostambaugh@cs.com">leostambaugh@cs.com</a>



Date: Wednesday, November 14, 2012

Time: 10:00-11:00 AM Technical Session  
11:00 AM Registration Begins  
11:30 – 1:00 PM Lunch Meeting

Location: Maggiano's North Park Dallas  
8687 N. Central Expressway  
Dallas, Texas 75225  
Click the link below for directions  
<http://goo.gl/maps/YOcBK>

On-line Reservations:  
[www.dallas-ashrae.org](http://www.dallas-ashrae.org)

Making reservations helps the chapter keep expenses to a minimum and ensures everyone has a seat.

#### Upcoming Calendar of Events:

12/12/12  
Lunch Program:  
Methods of Effective Room Air  
Distribution

01/09/13  
Lunch Program: Ethics

01/26/13 – 01/30/13  
ASHRAE 2013 Winter Conference  
in Dallas, Texas

02/13/13  
Lunch Program:  
Texas Legislative Updates for  
Construction

Send suggestions for presentation topics  
to Charles Crawford  
[ccrawford@victaulic.com](mailto:ccrawford@victaulic.com)  
President-Elect / Programs Chair



### Lunch Presentation

#### Differential Pressure Control of Hydronic Systems

The presentation will address the challenges faced in hydronic systems and allow the participants to develop an understanding of how pressure changes in a dynamic system can affect building control, balance, and efficiency. In a variable flow system specifically, differential pressure control is critical for high system effectiveness and optimum energy consumption.

### Technical Session Presentation

#### Building Blocks of Hydronic Systems

A hydronic machine transmits heating or cooling power. Prioritization in design, system effectiveness, controllability, maintainability, and operational energy consumption are components to a successful system. This presentation offers tools to read and analyze hydronic systems, covers hydronic system architectures, and defines controllability and ways to increase it.

Hooman Daneshmand, P.E. is a Hydronic Trainer for TA Hydronics, a manufacturer of hydronic balancing valves, control valves, and water quality equipment. Hooman has 6 years of valve development, design, production, supply chain, and application experience in Oil & Gas, hydronic, beverage dispense, and pneumatic applications. He has been trained in pedagogy as well. He received his Bachelors of Science in Mechanical Engineering from UCLA with a focus on heat transfer and control systems.

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Lunch Program with Online Reservations - \$25  
Lunch Program without Online Reservations - \$30  
Lunch Program Only (No Food) - \$10  
Student Member Program - \$10  
Technical Session & Lunch Program - \$35  
Technical Session Only - \$10

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**Date:**

Wednesday, October 10, 2012

**Time:**

10:00-11:00 AM Technical Session  
11:00 AM Registration Begins  
11:30-1:00 PM Lunch Meeting

**Location:**

Maggiano's North Park Dallas  
8687 N. Central Expressway  
Dallas, Texas 75225  
Click the link below for directions  
<http://goo.gl/maps/YOcBK>

**On-line Reservations:**

[www.dallas-ashrae.org](http://www.dallas-ashrae.org)

Making reservations helps the chapter keep expenses to a minimum and ensures everyone has a seat.

**October is Membership Promotion Month**

**Become an ASHRAE Member and attend the lunch meeting FREE!**

**Upcoming Calendar of Events:**

**11/14/12**

Technical Session & Lunch  
Program: Differential Pressure Control for Hydronic Balancing

**12/12/12**

Technical Session & Lunch  
Program: Methods of Effective Room Air Distribution

**01/09/13**

Lunch Program: Ethics

**01/26/13 – 01/30/13**

ASHRAE 2013 Winter Conference in Dallas, Texas

**02/13/13**

Lunch Program: Texas Legislative Updates for Construction

Send suggestions for presentation topics to Charles Crawford

[ccrawford@victaulic.com](mailto:ccrawford@victaulic.com)

President-Elect / Programs Chair



**Lunch Presentation**

**Liquid Desiccant Technology**

As much as heat can be a challenge, humidity can pose even more of a problem. Dry air is essential for human comfort and keeps the air free of bacteria and mold. In industrial processes, low humidity levels are also essential for producing quality products in clean, safe conditions. In this presentation, Mr. Wende will discuss liquid desiccant technology: an alternative, efficient solution to dehumidification and cooling. He will explain how liquid desiccant effectively cools, dries and cleans the air naturally and also reduces energy consumption by over 30%. By reviewing the history of how this technology has evolved and citing numerous real life examples of applications that have benefitted from this approach, Mr. Wende will present an overview of this innovative approach to dehumidification and cooling.

**Technical Session Presentation**

**Outdoor Air Systems**

Presentation of the different approaches to treating outside air to a building. Review of the benefits and drawbacks of conventional vapor compression systems, dedicated outdoor air systems (DOAS), solid desiccant wheels and liquid desiccant systems. Mr. Wende will compare energy consumption, upfront costs, maintenance and indoor air quality of these different systems and engage the group in a discussion about lessons learned from real installations in the field.

**Mr. Trevor Wende is the Vice President of Marketing for Advantix Systems,** manufacturers of efficient air conditioning systems. Prior to joining Advantix Systems, Mr. Wende was at McKinsey & Company where he worked primarily in the firm's energy and sustainability practices. Mr. Wende was a leader in McKinsey's Climate Change Strategic Initiative, and worked extensively on energy technology and energy efficiency opportunities. Mr. Wende has a B.S. in mechanical engineering from UC Berkeley and a Masters from MIT's Sloan School.

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Lunch Program with Online Reservations - \$25  
Lunch Program without Online Reservations - \$30  
Lunch Program Only (No Food) - \$10  
Student Member Program - \$10  
Technical Session & Lunch Program - \$40  
Technical Session Only - \$15

Please consider the environment and conserving our planets resources before you print this document.

Date:  
Wednesday, September 12, 2012

Time:  
11:00 AM Registration  
11:30 – 1:00 PM Lunch Meeting

Location:  
Maggiano's North Park Dallas  
8687 N. Central Expressway  
Dallas, Texas 75225  
Click the link below for directions  
<http://goo.gl/maps/YOcBK>

On-line Reservations:  
[www.dallas-ashrae.org](http://www.dallas-ashrae.org)

Making reservations helps the chapter keep expenses to a minimum and ensures everyone has a seat.

Upcoming Calendar of Events:

**10/10/12**

Technical Session & Lunch  
Program: Liquid Desiccant  
Technology  
MEMBERSHIP PROMOTION  
MONTH

**11/14/12**

Lunch Program: Differential  
Pressure Control for Hydronic  
Balancing

**12/12/12**

Lunch Program:  
Methods of Effective Room Air  
Distribution

**01/09/12**

Lunch Program: Ethics

**01/26/12 – 01/30/12**

ASHRAE 2013 Winter Conference  
in Dallas, Texas

Send suggestions for presentation topics  
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[ccrawford@victaulic.com](mailto:ccrawford@victaulic.com)  
President-Elect / Programs Chair



## **Lunch Presentation**

### **Chilled Beam Systems in Southern Climates**

#### **Topic Description:**

Active chilled beam systems have been used for over 10 years in the USA. Most of these installations are in the northern states but the system is spreading into southern climates with installations in the Carolina's, Georgia, Alabama, Texas and Florida. This presentation covers the basics of chilled beam system design in humid climates with a case study of an installation in Tallahassee, Florida.

#### **Presenter:**

**Nick Searle is a Regional Director of DADANCO-MESTEK**, a manufacturer of chilled beams and perimeter induction units. He has over 20 years experience in the design and selection of air distribution, chilled beams and noise control equipment. He has worked on several of the major chilled beam projects in the USA. In 1996 Nick joined Trox (UK), a manufacturer of air distribution products and air/water systems. In 2006, Nick relocated to North America to support the growing interest in chilled beam technology and has since become a permanent resident based in Atlanta, Georgia. Nick earned a BTEC in Mechanical and Air Conditioning Engineering at Wandsworth College London, UK, before going on to study Noise & Vibration Control Engineering at NESCOL, Epsom, UK.

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