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Produced by: Jay Sullivan
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.

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President's Message

Welcome fellow Fort Worth Chapter ASHRAE Members. This September 10th we are excited to be able to bring you a program on Natatorium Design and Dehumidification from an ASHRAE Distinguished Lecturer. Our speaker, Ralph Kittler, is very involved on a Society level serving on TC 9.8's as revisor responsible for the chapter which covers Natatorium Design (Large Building Air Conditioning Applications) in ASHRAE's 1999/2003/2007/2011 Applications Design Handbooks. He is also TC 8.10's Handbook subcommittee chair for the new Dehumidifiers chapter (24) in the Systems and Equipment Handbook.

Please remember there are two important differences about our September monthly meeting. The date is the 10th which is the second Tuesday of the month, and the location is The Fort Worth Club (306 West 7th Street, Fort Worth, TX). We have sent out reminder emails and passed out flyers at our August meeting about this change in typical date and location. I am enjoying the opportunity to serve the Chapter as this year's President and encourage you to please reach out and contact me with any feedback, questions, comments or concerns. Together we will all make this a successful year for our Fort Worth ASHRAE Chapter.

In closing I want to extend a special thanks to David Muzzy, Sean Rath, Patty Parish, Connie Stuardt and many more of our Chapter members for putting together a very successful golf tournament this summer, raising \$6,579.56. The funds raised go to our CRC fund, which will help our Chapter host the regional conference in the spring of 2015.

Thank you, Tony Finch, P.E.
Chapter President 2013-2014

Next Chapter Meeting

Sept 10, 2013

11:30AM

"Natatorium Design and Dehumidification"

The Fort Worth Club
306 West 7th St,
Fort Worth, TX

[CLICK HERE TO CONTRIBUTE!](#)

September Program – September 10, 2013

Date: September 10, 2013

Time: 11:30 a.m. – 1:00 p.m.

Location: The Fort Worth Club, 306 West 7th Street, Fort Worth, TX

Topic: Natatorium Design and Dehumidification

Summary:

These facilities are notoriously complex to design and can be expensive to operate. The presentation covers the many critical system design aspects of a Natatorium which include the fundamentals of psychrometrics, dew point, humidity/condensation control, moisture load calculation, air distribution, ventilation requirements, water chemistry and how to optimize your operating conditions to minimize operating costs.

Speaker Biography:

Mr. Kittler is an ASHRAE Distinguished Lecturer and well regarded in the HVAC industry as an expert in dehumidification and Indoor Pool Design. He has been in the dehumidification and Natatorium design field for 22 years. He is TC 9.8's revisor responsible for the chapter which covers Natatorium Design (Large Building Air Conditioning Applications) in ASHRAE's 1999/2003/2007/2011 Applications Design Handbooks. He is also TC 8.10's Handbook subcommittee chair for the new Dehumidifiers chapter (24) in the Systems and Equipment Handbook and speaks regularly at ASHRAE meetings across the country.

Mr. Kittler is a Co-Founder and Director of Sales & Marketing for Seresco Technologies Inc., a dehumidifier manufacturer. He is a Professional Engineer with a degree in Mechanical Engineering from Lakehead University, Ontario Canada in 1989.

August Meeting Minutes – Board of Governors

Call to Order by Tony Finch at 10:32 am

Members in attendance – Tony Finch, Jay Sullivan, Clif Upham, Dan Merkel, Nick Schroeder, Patty Parrish, Connie Staudt, Sean Rath, Ian Bost, Saul Martinez, Allen Grammer, Dennis Bohn, Mark Harris.

President

- Our next general business meeting will be on the second Tuesday of the month (September 10th) and will take place at the Fort Worth Club
 - Distinguished Lecturer Ralph Kitter will be the speaker
 - The topic is Natatorium Design and Dehumidification
- Needs all officers and committee chairman to sign MBOs and report any PAOE points that can be achieved.
- Make sure to communicate with Regional Vice Chairs on a monthly basis.
- Will send out survey monkey with CTTC Chair by the end of the month to the chapter to determine which topics the members would like presentations on.

President's Award of Excellence (PAOE) Update

	<u>Par</u>	<u>Last Year</u>	<u>YTD</u>	<u>Goal</u>
○ Membership Promotion:	800			1450
○ Student Activities:	500			1585
○ Research Promotion:	1050			3015
○ Historical Reporting:	300			600
○ Chapter Operations:	600			1980
○ Chapter Technology Transfer:	850			1950
TOTALS	4,100		0	10,580

August Meeting Minutes – Board of Governors (cont.)

Officer Reports

President-Elect (Sullivan)

- MBO
- PAOE
- Newsletter - Needs everyone to complete their reports early this month so we can send out next month's newsletter early to inform membership of early meeting and venue change in September.

Secretary (Upham)

- MBO – discussed and signed.
- PAOE
- Roster done by November meeting.
- Added to Chapter Technology Transfer Committee.

Treasurer (Schroeder)

- MBO
- PAOE
- Nothing to report.

BOG At-Large (Finch, Merkel, Sullivan, Upham, Pace, Bost)

Committee Chairman Reports

CTTC (Brunkenhoefer)

- MBO
- PAOE
- Gave status of getting committee setup to come up with speaker topics for chapter survey. Will send Survey Monkey out by the end of the month to the membership to determine what presentation topics we will get speakers for.
- Added Clif Upham to CTTC Committee.

Historian (Martinez)

- MBO
- PAOE – Talked about what points he will go after.

Honors & Awards (Akers)

- MBO
- PAOE
- Nothing to report.

Membership Promotion (Woodlee)

- MBO
- PAOE
- Nothing to report.

Refrigeration (Bohn)

- MBO
- PAOE
- Tentative Refrigeration Tour at Miller Brewery

Research Promotion (Merkel)

- MBO
- PAOE
- Going to RP Training Sep. 22nd.
- Discussed having a raffle for RP starting at next month's meeting.
- Challenged all chapter officers to donate \$100 to RP for Full Circle. Also challenged Committee Chairman to donate \$100 as well.

August Meeting Minutes – Board of Governors (cont.)

Special Events (Rath)

- MBO
- PAOE
- Will get dates for golf tournaments and will post. Tentative Happy Hour scheduled for the fall.

Student Activities (Bost)

- MBO
- PAOE
- Planning on setting up UTA and TCU Chapter yearly kick off meetings.

Webmaster (Pace) – Allen Grammer sat in for Cody.

- MBO
- PAOE
- Will update leadership tab on website.

YEA (Baierski)

- MBO
- PAOE
- Nothing to report.

Government (Merkel)

- MBO
- PAOE
- Looking to set up activity with local government.

CRC (Parrish)

- MBO
- PAOE
- Waiting to determine how much was raised for the 2015 CRC from the Summer CRC golf tournament fundraiser.

PR / Outreach (Harris)

- MBO
- PAOE
- Tentative Car Show at FAI's new office parking lot on October 19th.

Sustainability (Staudt)

- MBO
- PAOE
- Will line up 1 chapter meeting focused on sustainability. Tentative joint meeting with NTAEE or AIA.

Grassroots (Fields)

Old Business

New Business

Car Show – Tentative October 19th
Fall Golf Tournament
Next Meeting 9/10 at the Fort Worth Club

Closing @ 11:15

August Meeting Minutes – General Business

Call to Order 11:51 AM – Self introductions

62 members in attendance.

Old Business

- Thanks to David Muzzy, Patty Parish, and Connie Staudt for helping to raise funds for the 2015 Chapter Regional Conference in Fort Worth through the Summer CRC Golf Tournament Fundraiser. The tournament was a huge success and helped to raise a lot of money (total funds still TBD) for the upcoming CRC.

New Business

- Clif Upham motioned to approve the Therm for this month, Jay Sullivan seconded.
- Our next general business meeting will be on the second Tuesday of the next month (September 10th) and will take place at the Fort Worth Club
 - Distinguished Lecturer Ralph Kitter will be the speaker
 - The topic is Natatorium Design and Dehumidification

Program

Travis Brunkenhoefer introduced the speaker.

Speaker: **Nolan Hosking**

Speaker Bio:

Nolan is a Senior Product Manager at Price Industries, specializing in Critical Environment Solutions. A Professional Engineer with extensive experience in application engineering and design, Nolan oversees all product development initiatives for healthcare, laboratory and cleanroom solutions at Price. Nolan is a current voting committee member of ASHRAE 170 and is also actively engaged in other industry organizations.

Topic: Healthcare and Laboratory Valve and Control Solutions

Seminar Outline:

The presentation will cover room pressure control strategies and considerations for healthcare as well as fume hood face velocity and room pressure control for laboratory spaces.

Closing @ 12:48 PM

- Reminder to fill out speaker evaluation forms.
- Reminder that next month's meeting has been changed to second Tuesday (9/10) and will be at the Fort Worth Club.

Treasurer's Report – Jay Sullivan

STARTING BALANCE DATE		\$41,487.00
NEW BALANCE DATE		\$41,517.00
<u>Financial Data:</u>		
Starting Balance (8/1/13):		7,255.04
Deposits:		
8/22 - Square Deposit (CC Dues Payment)		194.48
8/29 - August Luncheon Dues	\$	875.00
	Subtotal:	1,069.48
Payments:		
8/21/2013 - Check #5365 to Petroleum Club of Fort Worth for August Luncheon	\$	1,359.59
5/21/2013 - Check #5366 to Petroleum Club of Fort Worth for May Parking	\$	72.50
	Subtotal:	1,432.09
	\$	
New Balance as of 8/31/13:		6,892.43

Student Activities Report – Ian Bost

Another school year is in the books and we are off and running again. We have several events planned out at UTA with our Student Chapter. On September 4th they are having a table at the UTA College of Engineering Welcome Bash and their first general chapter meeting will be on September 19th. We will also be holding a welcome party for our TCU Student Chapter, stay tuned for more details.

In order to help promote our ASHRAE Student Members we will be including their resumes on our chapter website. So, if you are looking for an intern or new full time employee, please visit our Chapter website.

Sincerely,
Ian Bost

CRC Treasurer's Report – Tony Finch

STARTING BALANCE DATE 6/30/2013
NEW BALANCE DATE 8/27/2013

Treasurer's Report

Tony Finch

Financial Data:

Starting Balance (6/30/13):	\$4,460.53
Deposits:	
8/1/2013 7-29 Golf Tournament -Cash for 18th Hole BuyUp	\$300.00
8/1/2013 7-29 Golf Tournament -Cash for Putting Contest- \$70.00/Cash from Player for Tournament- \$125.00	\$195.00
8/1/2013 7-29 Golf Tournament - ck# 6048- Russell Collins	\$500.00
8/1/2013 7-29 Golf Tournament - ck# 1222- Collins Walker Inc	\$500.00
8/1/2013 7-29 Golf Tournament- ck# 21490- Control Tech Supply	\$500.00
8/1/2013 7-29 Golf Tournament - ck# 6354 Harold James Inc	\$150.00
8/1/2013 7-29 Golf Tournament - ck# 6355- Harold James Inc	\$500.00
8/1/2013 7-29 Golf Tournament- ck# 66323- Oslin National Co.	\$650.00
8/1/2013 7-29 Golf Tournament- ck# 103100- Thermacor Process Inc	\$500.00
8/27/13 7-29 Golf Tournament- ck#1024- Travis Brunkenhoefer	\$260.00
8/27/2013 7-29 Golf Tournament-ck#82400 Bartos Industries	\$650.00
8/27/2013 7-29 Golf Tournament -ck#124812 Eventnbrite online pmts	\$4,450.00
8/27/2013 7-29 Golf Tournament-ck#43513 PVI Industries	\$650.00
8/27/2013 7-29 Golf Tournament- ck#10697 Dixon Golf Inc for contribution	\$148.00

Subtotal: \$9,953.00

Payments:

7/31/2013 check#1001 Catering By Julies	\$1,216.00
8/1/2013 ck# 1002 Sean Rath- Gift Cards for 7-29 Golf Tournament	\$674.60
8/1/2013 ck# 1003 David Muzzy- for Hole In One Insurance for 7-29 Golf Tournament	\$221.00
8/1/2013 ck# 1004 Waterchase Golf Club - Golf Course fee for 7-29 Golf Tournament	\$3,551.84

Subtotal: \$4,447.44

New Balance as of 8/27/13:

\$8,750.09

Invoices Billed - 8/27/2013:

Chris Hill w/ Cohesive Automation/Alerton for team	\$500.00
Matt Carter w/ McMillan James for team	\$500.00
Mark James w/McMillian James for team and table	\$750.00
Jeff Wagner w/ McMillian James for team	\$500.00
Collin Sandifer w/Schneider Electric for Closest-to-the-Pin contest	\$20.00
Van Vanderburgh w/HTS for Closest-to-the-Pin contest	\$20.00

Total Balance to be Collected: \$2,290.00

Total Income From July 29th CRC Golf Fund Raiser **\$6,579.56**

High-Performing Buildings: Energy Efficiency and Indoor Air Quality Must Go Hand In Hand

Finding the balance between environmental health and energy efficiency in the pursuit of low energy buildings is examined in a paper at the upcoming ASHRAE IAQ 2013, setting the tone for discussion for the entire conference.

“Neglecting indoor air quality while pursuing other goals can result in building environments that negatively impact the health, comfort and productivity of occupants and therefore defeat the overall goal of building design, including reduced costs,” Kevin Teichman, a senior science advisor at the U.S. Environment Protection Agency, said. “While building design is key to achieving a high-performing building, it is critically important to follow these good intentions through construction, commissioning, operation and maintenance. Only in this way will high-performing buildings actually perform as designed.”

Teichman’s papers are among 80 conference papers and extended abstracts being presented at IAQ 2013, Environmental Health in Low-Energy Buildings, which takes place Oct. 15-18, 2013, in Vancouver, British Columbia, Canada. This conference is the 17th in the ASHRAE IAQ conference series and is co-organized by ISIAQ.

Registration is now open for the conference. To register and for complete conference information, visit www.ASHRAE.org/IAQ2013. An early bird rate expires Aug. 31 but advanced registration is open through Sept. 30, 2013.

Teichman’s paper, “Indoor Air Quality in High-Performing Building Case Studies: A Wealth of Intent, A Dearth of Data,” examines the role of indoor air quality in high performing buildings, focusing on case studies in ASHRAE’s High Performing Buildings magazine. The paper was co-authored by Andrew Persily and conference co-chair Steve Emmerich, mechanical engineers at the National Institute of Standards and Technology.

A panel discussion on the topic also is planned.

“While progress has been made in achieving sustainable, high-performance buildings, it is noteworthy that many discussions of green, high-performing and certainly net-zero energy buildings tend to focus on energy consumption,” Teichman said. “Energy is critically important, but is only one aspect of performance and should not be pursued to the neglect of the others.”

The conference seeks to describe the current state-of-understanding of the relationship of IEQ in high-performance buildings.

“There are not a lot of data on IEQ in high performance buildings, but this conference will bring the collective knowledge of the industry together to set a benchmark, if you will, on where we are and how we should move forward,” Hal Levin, conference co-chair, said. “It will be important in identifying critical gaps in our knowledge and potential priorities for future ASHRAE research, standards and guidelines.”

The state of knowledge will be summarized in written “topic overviews” to be included in the Conference proceedings publication. These overviews may include comments on papers in the sessions; provide supplemental information; summarize the state of the art; include suggestions for high-priority research, as well as identify areas that are well researched; or include recommendations to ASHRAE about implementation of energy conservation and IEQ design activities, Levin said.

The Conference features papers and presentations in nine tracks, which include

- Environmental Health in Low-Energy Buildings
- Moisture and Health
- Sources and Chemistry
- Indoor Environmental Quality Factor Interactions
- Residential Buildings
- Commercial and Institutional Buildings
- Air Cleaning and Filtration
- Microorganisms and Infection
- Tools (models, measurements and more)

Plenary Lectures are given by four distinguished international authorities:

- William Bahnfleth, Ph.D., P.E., Fellow ASHRAE, ASME Fellow, Pennsylvania State University, 2013–14 ASHRAE president, “Are We Putting Enough Energy into Making Buildings Healthy?”
- Richard Corsi, Ph.D., P.E. University of Texas, Austin, Indoor Air 2011 president, “Building Energy and Reactivity”
- Mark J. Mendell, Ph.D., Lawrence Berkeley National Laboratory and California Department of Public Health, “Do We Know Much about Low Energy Buildings and Health?”
- Pawel Wargocki, Ph.D., Danish Technical University, ISIAQ president, “What Can Europe Teach Us?”

ASHRAE Announces 2013-14 Conference Lineup

Mark your calendars now because ASHRAE's conference schedule for 2013-2014 is widespread in both dates and global reach.

ASHRAE conferences present the latest developments in the industry and fundamental tried and true practices. Topics range from high performance buildings to buildings that have combustion with low-grade fuels.

- Oct. 15-18, [ASHRAE IAQ 2013: Environmental Health in Low Energy Buildings](#), Vancouver, British Columbia, Canada
- Jan. 18-22, 2014, [ASHRAE Winter Conference](#); Jan. 20-23, AHR Expo, New York, New York
- Feb. 24-26, 2014, [First International Conference on Energy and Indoor Environment for Hot Climates](#), Doha, Qatar
- April 7-8, 2014, [High Performance Buildings Conference](#), San Francisco, Calif.
- April 24-25, 2014, [Efficient, High Performance Buildings for Developing Economies](#), Manila, Philippines
- June 28-July 2, 2014, [ASHRAE Annual Conference](#), Seattle, Wash.
- September 10-12, 2014, [ASHRAE/IBPSA-USA Building Simulation Conference](#), Atlanta, Ga.

The conferences feature peer-reviewed papers, presentations with hands-on information presented in a non-commercial format, Professional Development Hours and networking opportunities.

ASHRAE IAQ 2013 in October 2013 reviews the state of knowledge on the balance between environmental health and energy efficiency in the pursuit of low energy buildings and covers a range of topics: residential and commercial buildings, new construction and retrofit, active and passive approaches, design and operation.

What better city than New York for ASHRAE to host a **Winter Conference** in January 2014 with a Technical Program focused on buildings? The Conference has a building-oriented theme with papers and presentations related to building information systems; environmental health; international design; HVAC&R applications and systems; and, of course, tall building performance.

The First International Conference on Energy and Indoor Environment for Hot Climates in February 2014 tackles energy and indoor environmental quality issues in humid and arid hot climates, providing a forum for discussion of the latest research and developments.

Building upon its 2012 High Performance Buildings Conference and 2009 Net Zero Conference, the **High Performance Buildings Conference** in April 2014 seeks to advance the industry's efforts to accomplish a true high-performance built environment. The tracks include building performance modeling, envelope strategies, lighting/daylighting strategies, indoor environmental quality strategies, building occupant behavior, market value, new building technologies and case studies and lessons learned.

The design, construction and operation of energy efficient, high performance buildings in developing economies have been identified by the building industry and policymakers as key areas where technology, standards and investments are needed. The **Efficient, High Performance Buildings for Developing Economies Conference** in April 2014 will address a number of themes on this topic.

The **2014 ASHRAE Annual Conference** takes place in Seattle, Wash., June 2014. The Conference addresses broad topics in the application of technology to practice, specific applications in ground source heat pumps, operations and maintenance and indoor environmental quality as well as new reports on research taking place worldwide.

Finally, ASHRAE and IBPSA-USA have created a new jointly co-sponsored **Building Simulation Conference** taking place in September 2014 that encompasses the ASHRAE Energy Modeling and IBPSA-USA SimBuild Conferences. The conference is a first for the industry and focuses on "BIM, BEM and SIM – Integrated Building Design and Modeling," addressing building information modeling, building energy modeling and building simulation.

Chapter Officers and Committee Chairs

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