



The Texas Norther

Monthly Newsletter of the Dallas Chapter, Region VIII

www.dallas-ashrae.org

Volume 57, No. 4

December 2007

Chapter Meeting

See You In December at the next meeting.

11:30 a.m. - Luncheon

Where:

Royal Oaks Country Club
7915 Greenville Ave.
Dallas, TX

Lunch Session Topic:

Complying with the mechanical sections of ASHRAE90.1-2007

Presenter:

Mack Wallace,
TXU

Reservations:

By Phone - 972/780-6019
On the web - <http://www.dallas-ashrae.org/reservations1.php>

PLEASE REFER TO THE RESERVATION POLICY ON THE BACK PAGE OF THIS NEWSLETTER

Letters to the Editor should be sent via e-mail to stuartdevaney@yahoo.com

ASHRAE National Customer Service:
800/5ASHRAE

Message From the President

Our November meeting ushered in Membership Promotion Month featuring 'two for one' lunch at the meeting for those who brought a guest to the meeting. Guests who signed up for associate membership at the meeting will receive a free lunch at the December meeting. Our membership chairman, Ben Bain and his committee, were real busy signing up new folks online at the meeting registration table making the event a real success.



Mark Jenkins, with Jentek Water Treatment, presented 'Water Treatment & New Construction' during November meeting. Mark presented the purpose of water treatment, available technologies, and common problems and solutions in cooling tower and boiler systems. Our December meeting with focus on the future requirements of ASHRAE 90.1.

We presented the 2007-2008 Dallas Chapter Roster at last month's meeting. We will have CDs available for registered members at subsequent meetings.

For those going to the Winter meeting in New York, AHR Expo passes will be available at the registration table during the December meeting.

Next meeting on December 12th at Royal Oaks CC. Please read further for complete program information.

Look forward to seeing everyone next week.

*Mark Meyer
Dallas Chapter of ASHRAE
President 2007-2008*





CALENDAR 2007-08						
	Chapter	Society	Other			
September	9/5/07 9/12/07	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'High Density Data Center Design'	9/26/07	AHRAE Learning Institute(ALI) Complying with Standard 90.1		
	10/3/07 10/10/07	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'Controls for Sustainable Buildings'	10/14/07 10/15/07 10/17/07 10/22/07 10/24/07 10/31/07	IAQ 2007: Healthy & Sustainable Baltimore, MD ALI-Humidity Control I ALI-Humidity Control II ALI-Complying with Standard 90.1 ALI-Complying with Standard 62.1 ALI-Dedicated Outdoor Air Systems	10/4/07 10/21/07	ASPE Product Show - Lonestar Park SMACNA Annual Convention Las Vegas, NV
November	11/7/07 11/14/07 11/7/07	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'Water Treatment & New Construction' Membership Promotion Month	TBD 11/7/07 11/4/07 11/14/07	ASHRAE Satellite Broadcast ALI-Intro to Bacnet ALI-Natural Ventilation ALI-Intro to Green Buildings and Sustainable Construction	11/6/07 11/7/07 11/10/07	NEBB Annual Meeting-Orlando, FL Greenbuild 2007-Chicago, IL ARI Annual Meeting-Key Largo, FL
	12/5/07 12/12/07	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'Standard 90.1 Future Requirements'				
December	12/5/07 12/12/07	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'Standard 90.1 Future Requirements'				
	1/2/08 1/9/08	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'ASHRAE Healthcare Certification'	1/19/08	ASHRAE Winter Meeting - New York	1/22/08	AHR Expo - New York
January	2/6/08 2/13/08	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'Building Commissioning'	2/15/08 2/16/08	Region VIII Strategic Planning Meeting - President Elect Training	2/5/08 2/17/08	ACCA Annual Conv. Colorado Sprgs, CO MCAA Annual Conv.-San diego, CA
	3/5/08 3/12/08 11/7/08	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'Ethics for the Professional Engineer' Membership Promotion Month			3/16/08	IIAR Ammonia Refrigeration Conference and Exhibition
March	4/2/08 4/9/08 4/17/08	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC 'ASHRAE Standard for High Performance Buildings' ASHRAE Golf Tournament	4/24/08	Region VIII CRC-Shreveport, LA		
	5/7/08 5/14/08	BOG Meeting - Double Tree Hotel Chapter Meeting - Royal Oaks CC Keynote Speaker - TBD				
May	6/4/08	BOG Meeting - Double Tree Hotel	6/21/08	ASHRAE Annual Meeting Salt Lake City, UT		
	Notes			ALI - ASHRAE Learning Institute		



Date: Wednesday, 12/12/07

Time: 11:30 am Luncheon

Location: Royal Oaks Country Club

Reservation Line: (972) 780-6019
Or online at www.dallas-ashrae.org

DECEMBER CHAPTER LUNCHEON



ASHRAE DALLAS CHAPTER

“Complying with the mechanical sections of ASHRAE90.1-2007”

Mack Wallace,
TXU

Our next chapter meeting program will focus on the mechanical section of ASHRAE Standard 90.1 – 2007. Mack will give us a preview of the day long presentation he is developing for ASHRAE to be presented at the Winter Meeting in New York.

Mack Wallace is an ex-Dallas Engineer currently living in Galveston Texas. Mack works for TXU Energy as Director of Demand Management and has served on the 90.1 committee for more than 12 years.

1 PDH will be available.

Reservations can also be made
online at Dallas-ASHRAE.org

Luncheon Price is \$20 for reservations or \$25 without.



CHAPTER NEWS

November Membership Promotion Month

Thanks are due to everyone who participated in our Fall Membership Promotion Month. We had several people take us up on the "2 for 1" lunch offer for those who brought a prospective member. The guests who signed up for membership at the meeting received a Voucher for free attendance for the December Meeting.

Those who joined or renewed as a result of our Membership Drive are:

Jerrod Woodruff

Nicholas Miller

Mark Bordelon

Christopher Fry

Patty Parrish

Jake Buckner

Alan Smith

Please take a moment to introduce yourself to our new members at the next meeting!

It's easy to join or renew your membership. If you have access to the internet, join on-line by going to ASHRAE's website at <http://www.ashrae.org/>. Once at ASHRAE's website, if you are a member, LOG IN and you'll find the "JOIN ASHRAE" or "RENEW MEMBERSHIP" link on the left side of the webpage. Click the link and follow the instructions in order to process an application on-line.

Otherwise, pick-up a hard copy of the Membership Application at the next meeting or email me at benb@texasairsystems.com and I'll send you a copy.

Please remember to sign up for the **DALLAS** chapter activities.

Happy Holidays,

Benjamin Bain, PE
Membership Promotion Chair

Student Activities Update

The fall semester is quickly coming to an end for the students and we have some promising updates to tell you about.

First, we have caught up with our UNT branch and are planning a formal student branch meeting in January. The meeting will include a presentation on RIVET to the students as well as an opportunity for them to ask questions to professionals about their careers and what to expect when they get out of school. We hope the students find this opportunity valuable and more students might get involved in ASHRAE. Second and more importantly, we had our first meeting with students and faculty at SMU in an attempt to start a new student branch there. The meeting went well and we have been invited back to put on a larger event in January. Since our meeting in November we have received a few student membership applications and expect more to follow!

As for the younger student population, the DFW Future City competition is about to kick-off. We have been invited by the organizers to assist them in the selection process for the competition winner. Volunteering is easy and it will only take about 10 hours of your time. Most of the work can be done from your home computer and the DFW Future City organization will provide you the software. If you are interested in volunteering please follow this link <https://www.dfwfuturecity.org/CityBin/Judge/Enroll> and they will walk you through the process. This is a great chance to get involved in the community and to see what the younger generation in planning. The regional winning team gets a chance to compete nationally in Washington DC, were pas DFW participants have done very well. If you have any questions bout this competition or any other student related activities, please do not hesitate to email me at tim@team-cep.com.

Timothy McNulty
Governor Student Activities



SOCIETY NEWS

ASHRAE Studies Heat, Moisture Production Rates of Swine, Houses

ATLANTA – The proverbial “little pig who stayed home” will be assured of good indoor environmental quality under proposed research from ASHRAE.

The Society is funding research to update heat and moisture production rates from pigs and their housing facilities, which are the foundation for effective design and operation of HVAC&R systems.

“Without proper heat and moisture production values, ventilation systems will be inadequately designed and operated, resulting in unsuitable building environments for animals and workers,” said Lingying Zhao, Ph.D., a member of ASHRAE’s technical committee on plant and animal environment, which is sponsoring the project. “Incorrect data about those values also can create potential moisture buildup that could lead to premature building failure.”

The project is one of 16 currently out for bid by ASHRAE. Complete information on all of the projects and bid submittal information can be found at www.ashrae.org/research.

Currently available data on heat and moisture production rates is nearly 50 years old. Since that time, swine production has undergone significant changes in terms of genetic potential, nutrition, housing strategies and production systems, all of which affect swine heat and moisture production rate.

New feeds, for example, can affect the heat production rate from the actions of eating, digestion, and absorption and utilization of the nutrients. The amount pigs are fed today on a regular basis has changed throughout the years as well as differences in the nutrients contained in today’s feed.

Types of housing also impacts swine heat and moisture production rates. Although pigs have a few sweat glands, they mainly stay cool due to other moisture sources in their pen evaporating from their skin, according to Zhao.

Other projects out for bid are:

- 1216-RFP, *Inlet Installation Effects on Bi/Airfoil Centrifugal Fans, Air & Sound*, sponsored by TC 5.1.
- 1267-RFP, *Development of an ASHRAE Design Manual for District Heating and Cooling Systems*, sponsored by TC 6.2.
- 1345-RFP, *Waterside Fouling Performance of Brazed-Plate Type Condensers in Cooling Tower Applications*, sponsored by TC 8.5.
- 1356-RFP, *Methodology to Measure Thermal Performance of Pipe Insulation at Below-Ambient Temperatures*, sponsored by TC 1.8
- 1387-RFP, *Thermal Energy Storage Design for Emergency Cooling*, sponsored by TC 6.9.
- 1408-RFP, *The Effect of Lining Length on the Insertion Loss of Acoustical Duct Liner in Sheet Metal Ductwork*, sponsored by TC 2.6.
- 1416-RFP, *Development of Internal Surface Convection Correlations for Energy and Load Calculation Methods*, sponsored by TC 4.7.
- 1418-RFP, *Indoor Environment Modeling*, sponsored by TC 4.10.
- 1456-RFP, *Assess and Implement Natural and Hybrid Ventilation Models in Whole-Building Energy Simulations*, sponsored by TC 4.10.
- 1466-RFP, *Development of a Calibration Reference Device for Use with Test Standard ANSI/ASHRAE 52.2-2007*, sponsored by TC 2.4.
- 1475-RFP, *Updating Heat and Moisture Production Rates of Modern Swine and Their Housing Systems*, sponsored by TC 2.2.
- 1480-RFP, *Island Hood Energy Consumption and Energy Reduction Strategies*, sponsored by TC 5.10.
- 1481-RFP, *Economic Data Base In Support of Standard 90.2*, sponsored by Standing Standards Project Committee 90.2.
- 1482-RFP, *Update to Measurements of Office Equipment Heat Gain Data*, sponsored by TC 4.1.
- 1484-RFP, *Energy and Performance of Secondary Coolant Low-Temperature Refrigeration Systems*, sponsored by TC 3.1.
- 1486-RFP, *Fault Detection and Diagnostics for Centrifugal Chillers - Phase III: Online-Time Implementation*, sponsored by TC 7.5.



SOCIETY NEWS

Measuring Up: Case Studies of Green Building Energy Performance Shared in ASHRAE Seminar

ATLANTA – When it comes to high-performance buildings, the proof is performance.

Measuring actual energy performance, however, can be challenging due to inadequate modeling practices, failure to include operations staff in goal setting, and lack of adequate budgets for commissioning, evaluations and ongoing benchmarking.

“As more actual energy performance data become available on high-performing buildings, clearer and more realistic expectations will help establish confidence within the building design and construction industry about costs and savings,” said Donald Winston, The Durst Organization, New York, N.Y.

Winston is one of three speakers who will provide a look at the role of performance measurement in high-performing buildings presented in a seminar at ASHRAE’s 2008 Winter Meeting, Jan. 19-23, New York City. The seminar, *Green Building Energy Performance: Some Experience and Data from the Field*, takes place from 9:15-10:45 a.m. Jan. 23 at the New York Hilton.

Winston will focus on his experiences with Class A office space in midtown Manhattan, including the Conde Nast Building at 4 Times Square and recent high-rise green residential buildings. His experiences with this building also are featured in a new magazine, *High Performing Buildings*, recently launched by ASHRAE.

Based on the Durst Organization’s experiences with 4 Times Square, several design changes are being made to its current project, the Bank of America Tower at 1 Bryant Park. These changes deal with use of fuel cells, photovoltaics and commissioning and owner involvement.

“Energy cost savings are often cited as offsetting any additional first costs of green buildings,” said Adam Hinge, a member of ASHRAE’s Technical Committee TC 7.6, Systems Energy Utilization, which that is sponsoring the seminar. “Many times the cited energy benefits are based on predicted, not measured, savings. In some cases actual energy performance can be quite different from predicted performance. Accurate reporting of the actual performance of green buildings is important, as sharing operating results and lessons learned earlier rather than later can avoid repeating potential mistakes as the green buildings movement proceeds. This seminar presents experience and data on several high-profile projects.”

Other speakers in the ASHRAE seminar are:

- *High-Rise Residential Buildings: What Works and What Doesn't*, Michael Gubbins, The Albanese Organization, New York, N.Y.
- *From Energy Model to Ongoing Operation: A Portfolio Wide Approach to Greening Schools*, James F. Dolan, P.E., O’Dea, Lynch, Abbatista Consulting Engineers, PC, Hawthorne, N.Y.
- *Lessons Learned in Operation High-Performance Green Buildings*, Donald Winston, P.E., Durst Organization, New York, N.Y.

For more information about the ASHRAE meeting, Jan. 19-23, New York Hilton, visit www.ashrae.org/newyork.

Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 22-24 (Tuesday-Thursday), at Javits Convention Center. For more information, visit www.ahrexpo.com.

‘High Performance Buildings’ Magazine

This new quarterly magazine is published by ASHRAE and distributed to building owners, facility managers, architects, contractors and engineers. This periodical’s mission is to help decision makers in the building community learn about the benefits of innovative technologies and energy-efficient design and operation. ASHRAE will be doing this with case studies of exemplary buildings, developed through the support of leading practitioners in the sustainability movement. Read more about this new publication and sign up for magazine or online subscription at: <http://www.hpbmagazine.org/>



SOCIETY NEWS

Prediction of Building Lifecycles via BIM Explored in ASHRAE Session

ATLANTA – Imagine having a crystal ball that allows you to predict the design, construction and operation of a building while still in concept phase.

Building information modeling (BIM), which is the use of real-time, intelligent, multi-dimensional and dynamic models long used in the manufacturing and aerospace industries, provides you with that look into the future of a building.

A look at how BIM is changing the building industry will be presented in a seminar at ASHRAE's 2008 Winter Meeting, Jan. 19-23, New York City. The seminar, *Building Information Modeling*, takes place from 8-9:30 a.m. Jan. 20 at the New York Hilton.

“Although buildings will continue to be unique undertakings that will never enjoy the refinements and economies that mass production industries do, BIM allows the construction industry to accurately design, construct and operate buildings in a virtual environment before the first yard of earth is moved or the first brick or bath of mortar ordered,” Dennis Knight said. “By allowing for greater collaboration between disciplines and trades involved in the process, we will produce better buildings that are safer, healthier, environmentally more sustainable and economically more efficient with fewer errors, omissions and less waste.”

Knight is vice chair of ASHRAE's technical committee on integrated building design, which is sponsoring the session. The session seeks to provide practical information from practicing HVAC&R design professionals on how to begin the process of implementing BIM into a design or construction practice.

Knight notes that ASHRAE is actively participating in the process of making BIM a preferred method of designing, constructing and operating buildings.

ASHRAE has established a Building Information Modeling and Interoperability Steering Committee to develop and identify initiatives and opportunities presented by interoperability, BIM, and related topics.

“We need to be cognizant of the bigger picture – the potential impact of BIM on almost everything we do as a technical society, not just on technology associated with buildings but the actual process of design, construction, commissioning and operation,” Gordon Holness, chair of the steering committee, said.

The committee also is working to develop informational and educational programs on BIM and interoperability.

Externally ASHRAE is participating in collaborative efforts to help develop common terminology and common technologies to ensure data exchange across operating platforms and software systems is reliable and accurate.

ASHRAE has representation on the “buildingSMART” Alliance, which is an independent body of the National Institute of Building Sciences. The alliance, whose members include the International Code Council, the International Alliance on Interoperability and the Construction Specification Institute, is working to develop an open information environment for knowledge based collaborative processes throughout the lifecycle of a building.

Speakers in the ASHRAE seminar are:

- *Automating Code Compliance Checking with BIM*, David Conover, International Code Council, Washington, D.C.
- *The Promise and Reality of BIM*, Christopher Wilkins, P.E., Hallam-ICS, Burlington, Vt.
- *Building Information Modeling and ASHRAE's Steering Committee on BIM and Interoperability*, Gordon

Holness, P.E., Grosse Pointe Shores, Mich.

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AIA Guide Promotes Integrated Teams for Better Building Projects

WASHINGTON, D.C.—Integrated Project Delivery: A Guide, a primer for working in an integrated team model, is available. The guide's proposed team model includes the owner, architect and contractor, and extends beyond the major stakeholders to also include subcontractors, engineers and major systems suppliers, among others. The guide was developed by The American Institute of Architects (AIA) in conjunction with the AIA California Council. It is available for download at no cost at <http://www.aia.org/ipdg#ipdguide>



SOCIETY NEWS

Hitting the O&M Notes to Achieve Net-Zero-Energy Buildings

ATLANTA – In composing net-zero-energy buildings, operation and maintenance are two of the most important chords.

“Zero energy is only in its infancy,” said Richard Rooley, FREng. “Right now, engineers are like a composer, who sets out the notes and the way music is presented. As our knowledge grows, we will learn how to play our instrument to achieve a zero carbon building. But without more guidance on design of net-zero buildings, the music will fail.”

The role of operation and maintenance in achieving net-zero-energy buildings is highlighted in a two-part seminar at ASHRAE’s 2008 Winter Meeting, *Net-Zero Energy Buildings: The Impact of O&M Practices?* It takes place from 8-9:30 a.m. and from 9:45-10:45 a.m. Jan. 22, New York Hilton.

In recent years, high-performance and net-zero-energy buildings have been identified as performance targets by ASHRAE, federal governments and other organizations. Much of the work to date toward these targets has focused on design of such buildings. Commissioning, operation and maintenance (O&M) are likely just as critical to achieving actual net-zero-energy performance as design.

“The seminar shows us how we are slowly learning to procure buildings for use, not just to look beautiful and meet theoretical design-as-an-end criteria,” said Rooley, chair of the seminar, sponsored by ASHRAE’s technical committee on operation and maintenance management

Other sessions in the technical program focusing on net-zero energy buildings include:

- *How to Model Nothing: Energy Simulations of Net-Zero Energy Buildings: Part 1 and 2*, 11 a.m.-12:30 p.m. and 1:30-3 p.m., Jan. 20.
- *Long Term Data Center Planning: the Push Toward Net-Zero Energy and Other Considerations*, 12:40-1:20 p.m., Jan. 20.
- *Net-Zero Buildings: Will Energy Storage Be Essential*, 12:40-1:20 p.m., Jan. 20.
- *Thermoeconomics of Net-Zero Design* 9:45-10:45 a.m., Jan. 21
- *Exergy Analysis 2: Exergy Efficient Design, Analysis and Rating for Net-Zero Energy Buildings, Part 1*, 9:45-10:45 a.m., Jan. 21; *Part 2*, 11 a.m.-noon, Jan. 23.
- *Exergy Analysis 3: Advanced Applications for New Heights in Net-Zero Energy Buildings*, 11 a.m.-noon, Jan. 21.
- *Zero Energy Buildings of the Future: Is it Time to Define Resource Energy Efficiency and Apply it to Buildings in the Future*, 11 a.m.-noon, Jan. 21.
- *How Low Can You Go? Case Studies of Low-Energy Buildings*, 9:45- 10:45 a.m., Jan. 22.
- *How Do You Connect Your Net-Zero Building to the Grid*, 8-9 a.m., Jan. 23.
- *What Defines a Net-Zero Energy Building*, 11 a.m.-noon, Jan. 23.
- *Low- and Zero-Carbon Cities of the Future*, 1-2:30 p.m., Jan. 23.
- *Performance Monitoring to Achieve Net-Zero Energy*, 1-2:30 p.m., Jan. 23.

For more information about the ASHRAE meeting, Jan. 19-23, at the New York Hilton, visit www.ashrae.org/newyork.

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SOCIETY NEWS

ASHRAE Winter Meeting - AHR Expo Guide

The 2008 AHR Expo® is on pace to become the largest HVAC&R show held in the northeastern United States. To date, 1,757 exhibiting companies have contracted for more than 352,000 ft² of space. The Show will be held in New York on January 22–24. It is cosponsored by ASHRAE and the Air-Conditioning and Refrigeration Institute (ARI). The Heating, Refrigeration and Air-Conditioning Institute of Canada (HRAI) is an honorary sponsor.

Visit ASHRAE Journal's new Online Guide to AHR Expo for the latest information on ASHRAE's technical program at the Show, Expo sessions, and featured products and listings. Links are included to request an appointment.

Due to the holiday, the AHR EXPO is being held Jan. 22-24, Tuesday- Thursday at Javits Convention Center in New York. This is "the HVAC&R Industry Show" — the world's largest HVAC&R trade show event for professionals to buy, sell, network and learn.

Show Hours

Tuesday, January 22nd
10:00am - 6:00pm

Wednesday, January 23rd
10:00am - 6:00pm

Thursday, January 24th
10:00am - 4:00pm

Healthcare Facility HVAC&R Design Certification

ASHRAE has developed the Healthcare Facility Design Professional (HFDP) certification program in close collaboration with the American Society for Healthcare Engineering (ASHE) of the American Hospital Association. Candidates who earn the HFDP certification have demonstrated a well-rounded understanding and knowledge of medical terminology and facility operations as they affect HVAC&R design in healthcare facilities. *The HFDP examination is designed to assess an individual's understanding of medical terminology and facility operations as they affect HVAC&R design of healthcare facilities. Participation in the HFDP Program is in no way limited to or by membership in ASHRAE, participation in a preparatory course or other activity, or purchase of any publication.* Visit the following link for more information:

<http://www.ashrae.org/education/page/1531>

Standards Actions - November 2007

ASHRAE Insights

Public Review—Call for Comments

Review open to Nov. 26, 2007

First Public Review of *BSR/ASHRAE/IESNA Addendum d to ANSI/ASHRAE/IESNA Standard 90.1-2007*, Energy Standard for Buildings Except Low-Rise Residential Buildings

To access public review drafts, go to www.ashrae.org and click on "Standards" under the "Technology" tab. Then click on "Standards Actions and Public Review Drafts."

New Interpretation

A new interpretation to ANSI/ASHRAE/IESNA Standard 90.1-2004, *Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings* was approved on Oct. 12:

Interpretation 90.1-2004 8-14

Interpretations are available for downloading from the Standards page on www.ashrae.org.



Dallas Chapter - ASHRAE

Income/Expense Statement

Dec-07	Budget	Actual	Percentage
	for '07-'08	YTD	of Budget
Income			
(1) - Chapter dues	\$ 15,000.00	\$ 6,020.00	40%
(2a) - Money Market interest	\$ 800.00	\$ 91.22	11%
(2b) - Regular Share Interest	\$ 5.00	\$ 0.49	10%
(2c) - Checking Interest	\$ 75.00	\$ 8.32	11%
(3a) - Meeting - meals, bar	\$ 20,500.00	\$ 5,550.00	27%
(3b) - Seminar - Fall	\$ 4,000.00	\$ -	
(3b) - Seminar - Spring	\$ 4,000.00	\$ -	
(4) - Roster sponsors	\$ 850.00	\$ 100.00	12%
Golf tournament - Spring	\$ 15,000.00	\$ -	
RP Event (raffle - proceeds fwd to Society)	\$ 500.00	\$ -	
Miscellaneous	\$ 500.00	\$ -	
Total Income	\$ 61,230.00	\$ 11,770.03	19%
Expense			
(5) - CRC representation	\$ 1,600.00	\$ -	
(6) - Student Activities	\$ 1,000.00	\$ -	
(7a) - Meetings-meals,bar,room	\$ 20,000.00	\$ 5,700.85	29%
(7b) - Meetings - audio/visual	\$ 2,700.00	\$ -	
(8) - Research Promotion - matching funds	\$ 10,000.00	\$ -	
(9) - RP Events - Raffle Prizes	\$ 600.00	\$ 48.71	8%
(10a) - Seminar - Fall	\$ 1,000.00	\$ -	
(10b) - Seminar - Spring	\$ 1,000.00	\$ -	
(11) - Website Charges	\$ 500.00	\$ -	
(12) - Miscellaneous	\$ 1,000.00	\$ 268.00	27%
(13) - Golf tournament - Spring	\$ 10,000.00	\$ -	
(14) - Winter Meeting	\$ 2,000.00	\$ -	
(15) - P.N Vinther Scholarship Fund	\$ 1,000.00	\$ -	
(16) - Printing - Roster	\$ 670.00	\$ -	
(17) - Regional Dues/Award	\$ 1,800.00	\$ -	
(18) - CPA Fees	\$ 250.00	\$ -	
(19) - USPS P.O. Box	\$ 204.00	\$ 204.00	100%
Membership promotion	\$ 500.00	\$ -	
Bank service charges/check printing	\$ 50.00	\$ -	
Awards	\$ 400.00	\$ -	
Scholarships	\$ 4,500.00	\$ -	
Total Expense	\$ 60,774.00	\$ 6,221.56	10%



RESERVATION POLICY: To encourage members to make early reservations, the CHAPTER offers meals at the reduced rate of \$20.00. The regular rate of \$25.00 per meal is charged for all meals for which there is no prior reservation. A non-diners' table is provided for the convenience of those who do not want to eat a meal, but do want to attend the CHAPTER meeting. Reservations must be made by 12 NOON of the Monday prior to a CHAPTER meeting. If necessary, a previously made reservation may be cancelled no later than 8 AM of the day before a CHAPTER meeting. Those who have made reservations for a meal are responsible for payment to the CHAPTER, even if they cannot attend the meeting.

2007-2008 Dallas Chapter Officers and Board of Governors

The Officers, Board of Governors and Committee Chairs may be contacted via the following phone numbers or at the Chapter address; P.O. Box 802426, Dallas, 75380-2426

		Phone	E-mail
President	Mark Meyer	972-570-4700	markm@texasairsystems.com
President-Elect /Programs	Walter Horn	214-739-8880	walter.horn@jjainc.com
Research Promotion	Jeanine Bounds	214-872-0200	bounds@schmist-stacy.com
Secretary	Jeff Vestal	469-568-6300	Jvestal@adwcorp.com
Treasurer	Peter Sudbeck	972-868-3658	peter.j.sudbeck@jci.com
Immediate Past President	Jeanine Bounds	214-872-0200	bounds@schmist-stacy.com
Governor Membership Promotion	Ben Bain	972-570-4700	benb@texasairsystems.com
Governor TEGA	Doug Bronson	214-522-3900	dbronson@pspaec.com
Chapter Technology Transfer	Walter Horn	214-739-8880	walter.horn@jjainc.com
Governor Student Activities	Tim McNulty	214-766-4977	timothy.mcnulty@exhausto.com

2007-2008 Dallas Chapter Committee Chairs

Historian	Vacant		
Webmaster	Justin Bowker	972-888-9369	justin.bowker@tdindustries.com
Roster	Bob Dawson	214-765-8703	RDawson@lan-inc.com
Newsletter Editor	Stuart DeVaney	214-483-5000	stuartdevaney@yahoo.com
Photographer	Paul W. LeMaire	972-620-3600	plemaire@frymire.com
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