



# The Texas Norther

Monthly Newsletter of the Dallas Chapter, Region VIII

www.dallas-ashrae.org

Volume 59, No. 3

December 2009

## Chapter Meeting

**December 09, 2009**

10:00 a.m. - 11:00 a.m. Seminar  
11:30 a.m. - 1:00 p.m. Luncheon

**Where:**

City Place Conference Center  
2711 North Haskell, Suite 100  
Dallas, TX

**Lunch Session Topic:**

Utility Subsidy Programs and  
Texas Energy Reduction  
Incentives

**Presenter:**

John Hanel  
Oncor Electric Delivery

**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  
[kmiller@md-eng.com](mailto:kmiller@md-eng.com)

ASHRAE National Customer Service:  
800/5ASHRAE

## Message From the President

Our November meeting was divided up into a technical session and a luncheon. This provided members with the ability to get 2 PDH certificates if they chose to attend both sessions. The topic of the technical session was Sound & Vibration Control Considerations in Fan Applications. The Chapter Luncheon was very well received bring in around 90 members. The topic of the luncheon was Fan Systems Effects Design to Minimize Operational Problems.



On top of having an outstanding program and technical session the Dallas Chapter was extremely honored to present Clarence Gilmore with an ASHRAE Lapel Pin. Clarence was a great contributor to the Dallas Chapter and Region VIII during his employment in the DFW market. Please see the extensive list of accomplishments that Clarence has received during his career.

- o 1942 Clarence enrolled as a Civil Engineering student at Texas A&M, changed to ME during sophomore year cause he liked Fluid Dynamics and Heat Transfer
- o Called to military active duty in 1944. Served as a Liaison pilot and flight instructor
- o Joined A&M Campus Chapter of ASHVE in 1946
- o Joined Dallas Air Conditioning in 1947
- o Recalled to military as flight instructor from 1951-1953.
- o Mechanical Engineer with Zumwalt & Vinther from 1953 thru 1968.
- o Started Clarence Gilmore & Associates 1968, retired early 90's
- o Clarence served on Dallas ASHAE (later became ASHRAE) BOG in various capacities from 1958 thru 1969,
- o He also served as Chairman of the Regional ASHRAE Board of Directors in the 70's
- o Has great respect for the ASHRAE Preamble and has won several awards for his service such as:
  - Regional Award of Merit in 1978
  - Distinguished Service Award in 1994
  - Fellow Life Member as of 1995
  - Distinguished 50 Year Member in 1996

The next Chapter's next meeting will be held on December 9th. The December meeting will split up into a seminar and luncheon. The seminar will provide members with a 3 hour session starting with Energy Consumption Series vs. Parallel Fan Powered Terminal Units and finishes up with Hospital Operating Room Air Distribution Design. The Luncheon topic will be Utility Rebates And Subsidy Programs For The North Texas Region. There will also be a small presentation that will provide members a description of how to update their Biographic Information using the ASHRAE Society website. Thanks to all for your participation and we hope to see you at the next meeting.  
Sincerely,

Peter Sudbeck



## CALENDAR 2009-10

	<b>Chapter</b>		<b>Society</b>	
<b>Sept</b>	9/2/09 BOG Meeting - Double Tree Hotel 9/9/09 Chapter Meeting - City Place <i>Natatorium Design and Dehumidification</i> Ralph Kittler, P.E. - Distinguished Lecturer			
<b>Oct</b>	10/7/09 BOG Meeting - Double Tree Hotel 10/14/09 Technical Session - City Place <i>Cooling Tower Basics</i> Daniel Kelly  10/14/09 Chapter Meeting - City Place <i>New IBC Codes Affection Mechanical Equipment</i> Daniel Kelly			
<b>Nov</b>	11/4/09 BOG Meeting - Double Tree Hotel 11/11/09 Fall Seminar - City Place <i>Fan Basics and Troubleshooting</i> TBD 11/11/09 Chapter Meeting - City Place <i>Fan Tie-in</i> TBD	11/6/09 NYSERDA/ASHRAE Data Center Energy Efficiency Workshop New York City, NY  11/10/09 ASHRAE Seminar at Green Build Phoenix, AZ		
<b>Dec</b>	12/2/09 BOG Meeting - Double Tree Hotel 12/9/09 Chapter Meeting - City Place <i>Utility Rabates and Subsidy Programs for the North Texas Region</i> John Hanel - Oncor			
<b>Jan</b>	1/6/10 BOG Meeting - Double Tree Hotel 1/13/10 Chapter Meeting - City Place <i>Frictionless Centrifugal Chiller Systems</i> Julian De Bullet - Distinguished Lecturer	1/23/10 thru 1/27/10	ASHRAE Winter Meeting Orlando, FL	1/23/10
<b>Feb</b>	2/3/10 BOG Meeting - Double Tree Hotel 2/10/10 Chapter Meeting - City Place <i>Engineering Ethics</i> TBD	TBD TBD 2/14/10 thru 2/20/10	Region VIII Strategic Planning Meeting - President Elect Training Engineer's Week	
<b>Mar</b>	3/3/10 BOG Meeting - Double Tree Hotel 3/10/10 Chapter Meeting - City Place Technical Session - TBD TBD 3/10/10 Chapter Meeting - City Place Ebtron Flow Measurement TBD			





## Making a Case for Energy Efficiency in Existing Buildings

ATLANTA – Improving energy use all comes down to green – the green of energy efficiency and resource sustainability as well as the green of money.

So, show them the money. Building owners and managers of existing buildings need to understand the economic benefits of improving systems and operations. A new publication from leading industry organizations provides guidance for the business case to achieve energy savings as much as 30 percent.

Energy Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Managers provides the rationale for making economic decisions related to improving and sustaining energy efficiency in existing buildings. Approximately 86 percent of U.S. annual building construction expenditures relate to renovation of existing buildings vs. new construction.

“Our goal is to enable business owners to break down the ‘mystery’ of energy conservation opportunities into business-based scenarios that are both practical and cost-justifiable,” said George Jackins, who chaired the committee overseeing the book. “To achieve true sustainability in the building industry, we must help owners learn that investing in energy efficiency translates into a high rate of return with a low associated risk. Owners and managers typically view buildings in terms of short-term economics. We must make the transition from best value vs. lowest first cost of buildings.”

Specifically, the guide provides straight-forward applications that could produce energy savings from 10 to 15 percent to a more aggressive approach that could save 30 percent or more.

The book is a collaboration between ASHRAE, the American Institute of Architects, the Building Owners and Managers Association, the Illuminating Engineering Society of North America, the U.S. General Services Administration and the U.S. Green Building Council.

Here are the five important tips that owners and managers need to know to make their buildings energy efficient:

- Know your current energy utilization index (EUI) (kBtu/SF-year).
- Establish a target EUI and an initial budget estimate for achieving this goal.
- Conduct an internal energy study/audit (using ASHRAE’s Procedures for Commercial Building Energy Audits as a basis) or have the facility retro-commissioned by a certified retro-commissioning firm. This activity may result in a modification to the original estimated budget amount.
- Identify energy efficiency measures with attractive rates of return on energy retrofit or renovation investments.
- Implement the recommended energy conservation measures that will get the facility to the desired goal with the stipulated budget.
- Commission the energy conservation measures by a certified commissioning firm. This process should include training of facility personnel on properly operating and maintaining equipment and systems.

The book is the first of three planned guides on energy efficiency. The second will be aimed at providing technical guidance in undertaking existing building renovation programs. The third will provide operation and maintenance guidance to help sustain the energy efficiency.

The cost of Energy Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Managers is \$69 (\$59, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit [www.ashrae.org/energyguide](http://www.ashrae.org/energyguide).



## **ASHRAE, IES Seek to Lighten Energy Use through Changes to Standard 90.1**

ATLANTA – Requirements to “lighten up” energy use and costs through fenestration, parking lot lighting and other proposed measures are being recommended for Standard 90.1.

ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. Currently, 15 proposed addenda to the standard are open for public review.

“As the industry continues to call for buildings and systems that use less energy, the Standard 90.1 committee is striving to find ways to reduce energy uses and costs,” Mick Schwedler, chair of the Standard 90.1 committee, said. “The proposed changes not only reduce energy use but move the standard closer to the workplan goal of a 2010 standard with 30 percent energy cost savings compared to the 2004 standards.”

Among the proposed addenda out for public comment is addendum cd, which would require active exterior control rather than just require the control capability; add bi-level control for general all-night applications, such as parking lots to reduce lighting when not needed; and add control for façade and landscaping lighting not needed after midnight.

Eric Richman, chair of the standard’s lighting subcommittee, noted that studies from the California Lighting Technology Center at the University of California at Davis found that control strategies reduce lighting energy use by significant amounts during night time hours. A study by Polytechnic State University showed that parking lot lighting operates in a low mode 68 percent of the time.

Additional information from a study by Navigant Consulting shows that parking lots account for 22 Twh out of a total 57 TWh used for outdoor lighting annually nationwide. While this estimate includes all lit parking areas, the potential for energy savings in parking areas that are directly associated with specific building projects are significant and should be supported by the standard.

A second public review of proposed addendum bn would reduce solar loads by orienting the fenestration in more appropriate directions. Changed in response to comments during the first public review, this approach gives flexibility to building design teams to work with siting and fenestration and orientation as well as fenestration area to comply with the requirement.

Proposed addendum bb updates building envelope requirements for opaque elements, such as walls and rooms, and fenestration (windows and skylights). A number of changes were made in response to public comments during the first public review.

“I would like to thank all of those who met with the Standard 90.1 committee during our fall interim meetings for their candor, input and willingness to work toward an addendum that can reach consensus and save both energy and energy costs,” Schwedler said.

The proposed addenda to ASHRAE/IESNA Standard 90.1 are available for comment only during their public review period. To read the addenda or to comment, visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).



**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.

## 2009-2010 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	Email
President	Peter Sudbeck	972.570.4700	peters@texasairsystems.com
President-Elect/Programs	Ben Bain	972.570.4700	benb@texasairsystems.com
Research Promotion	Walter D. Horn, P.E.	214.622.6441	walter.horn@jjainc.com
Secretary	W. Preston Dickson	214.349.2320	pdickson@timberlakedickson.com
Treasurer	Shelley Z. Zhao	817.912.0800	shelleyz@mjec.com
Immediate Past President	Walter D. Horn, P.E.	214.622.6441	walter.horn@jjainc.com
Governor Membership Program	Bo A. Twumasi	972.241.9411	btwumasi@brandteng.com
Governor TEGA	Doug Bronson	214.622.6402	doug.bronson@jjainc.com
Chapter Technology Transfer	Ben Bain	972.570.4700	benb@texasairsystems.com
Student Activities	---	---	---

## 2009-2010 Dallas Chapter Committee Chairs

Historian	Chris Stacha	972.789.3435	chris.stacha@carrier.utc.com
Webmaster	David Pich	214.622.6417	dallasashrae@yahoo.com
Roster	Bob Dawson	214.765.8703	RDawson@lan-inc.com
Newsletter Editor	Kevin Miller	469.467.0200	kmiller@md-eng.com
Photographer	Paul LeMaire	972.788.4222	paul.lemaire@rwb.net
Honors & Awards	David Arbaiza	214.350.6871	David_Arbaiza@mail.ashrae.org
Golf	Rusty Vaughn	972.570.4700	rustyv@texasairsystems.com
Publicity	Leo Stamaugh	214.369.3500	leostambaugh@cs.com
Refrigeration	Richard A. Lobb, P.E.	214.912.2864	rick.lobb@jacobs.com