

THE AUSTIN REGISTER

American Society of Heating, Refrigerating and Air Conditioning Engineers
Austin, Texas

www.ASHRAE-Austin.org

Chapter Year 2003-2004

November/December 2003



PRESIDENT'S MESSAGE

We had over seventy people in attendance for last month's meeting in the Skyline Club, overlooking the ice rink, at the Texas Exposition and Heritage Center. A formidable showing of students from Central Texas College, Texas State Tech College, Austin Community College, and The University of Texas at Austin were on hand for Student's Night. Drew Harrison awarded \$250 scholarships to recipients from each institution.

In addition to the scholarship presentations, attendees enjoyed a tour of the ice making plant with glycol based chilled water system for the ice rink as well as the conventional chilled water plant for the central air conditioning. Tour Guide Tom Messenger (whom also maintains the equipment) provided insight to the operation and maintenance of the equipment. Of special interest is the fact that the facility was originally designed without air conditioning. When the center was later retrofitted with air conditioning, the electrical service did not have capacity for new electric chillers.

Therefore, the design decision was made to utilize natural gas engine driven chillers to minimize electrical demand in lieu of upsizing the electrical service.

We concluded the evening by watching an ice hockey game between the Austin Ice Bats and the San Angelo Saints. The Ice Bats jumped ahead early, but a surge by the Saints resulted in a 4-2 victory in their favor. Thanks to Glenn See for arranging the meeting, and Mark Merriman for arranging the visit to the central plant.

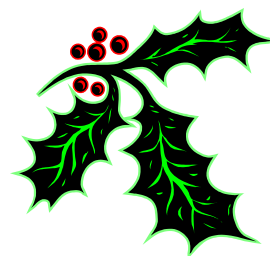
On November 12, we held our second seminar of the 2003-2004 season with a presentation by Cashco on Control Valves and Industrial Regulators. Attendees were treated to an informative session and were presented with PDH credits. Thanks to Randy Schreengost for organizing this event.

Next month's meeting will be on December 4th, and will be in honor of Past Chapter Presidents as well as member spouses. We are trying a new venue this year at the

Chez Zee restaurant. This will be our last meeting before the Christmas holiday, so please join us at Chez Zee for an entertaining evening.



Respectfully submitted,
Wes Goodwin, P.E.
Chapter President



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Special points of interest:

Next Chapter Meeting:

When: Thurs., Dec. 4th
Where: Chez Zee
5406 Balcones Drive
Austin, TX 78731
(512) 454-2666
Map Provided

HOLIDAY BANQUET

Social: 6:00-6:00 p.m.
Dinner: 6:30-7:30 p.m.
Program: 7:30-8:00 p.m.
Cost is \$30/person or \$50/couple

Next Board of Gov. Meeting

When: Wed., Dec 3rd
11:00 a.m.
Where: Goodwin Engineering
Public Invited

Please RSVP to:

Jeremy Smith

Ph 512-744-4400

Fax 512-744-4444

smithj@auseea.com

December Program Summary

Submitted by: Jeremy Smith

HAVING FUN WITH PEACE ON EARTH

With Harlan and Nancy Oelklaus

Bring your significant other and your sense of humor to the December 4 meeting at Chez-Zee.

Harlan and Nancy Oelklaus will explore brain differences between men and women and style differences between people in general—all within a lighthearted framework with comfortable audience participation.

What a great opportunity to laugh our way through our differences and make the holidays more peaceful. You'll pick up tips for more success both at work and at home.

Harlan and Nancy are partners in Entrepreneurial Systems, an Austin consulting firm. Harlan's specialty is working with family-owned businesses to be a prosperous team, at work and at home. Nancy teaches tools for leaders in organizations to release and harness brainpower for better results.

Harlan also facilitates The Alternative Board (TAB) where business owners share their experience and success with each other, as a aid for each other's businesses.

To learn more about Harlan, go to www.FamilyBusinessMentor.com; about Nancy, go to www.TheSuccessAccelerator.com.



2003-04 BUDGET REPORT (Fiscal Year Ending 6/30/04)

For Period Ending 10/31/03

Category Name	Budgeted Income	Budgeted Expenses	Year to Date Income	Year to Date Expense	Year to Date Budget Balance
Chapter Dues	\$3,450.00		\$680.00		\$2,770.00
Golf Tournament					
Income	\$18,500.00		\$0.00		\$18,500.00
Expense		\$10,500.00		\$0.00	\$10,500.00
Product Directory					
Income	\$5,000.00		\$0.00		\$5,000.00
Expense		\$1,700.00		\$0.00	\$1,700.00
Trade-Shows-Seminars					
Income	\$2,000.00		\$400.00		\$1,600.00
Expense		\$1,000.00		\$0.00	\$1,000.00
Education Fund		\$2,000.00		\$0.00	\$2,000.00
Guest Speaker		\$500.00		\$0.00	\$500.00
Meeting Meals					
Income	\$5,000.00		\$1,234.00		\$3,766.00
Expense		\$6,000.00		\$1,311.39	\$4,688.61
Student Meeting Meals					
Income (donations)	\$1,000.00		\$0.00		\$1,000.00
Expense		\$1,000.00		\$0.00	\$1,000.00
Newsletter					
Postage		\$900.00		\$0.00	\$900.00
Printing		\$200.00		\$0.00	\$200.00
Region VIII Fee		\$150.00		\$0.00	\$150.00
Research Contributions					
Expense		\$8,000.00		\$0.00	\$8,000.00
Student Memberships		\$200.00		\$0.00	\$200.00
Supplies/Software		\$40.00		\$110.42	-\$70.42
Website		\$430.00		\$0.00	\$430.00
Miscellaneous		\$500.00		\$250.00	\$250.00
Total Income	\$34,950.00		\$2,314.00		\$32,636.00
Total Expenses		\$33,120.00		\$1,671.81	\$31,448.19
Year to Date Cash Balance	\$642.19				
Wells Fargo Checking Account					
Beginning Balance	\$11,840.00		Ending balance	\$12,366.76	

Submitted by: Tom Green, P.E.



Austin ASHRAE
BOG Meeting Minutes
October 30, 2003
County Line on the Hill
Austin, Texas

1. Wes Goodwin, President
 - a. Relay info from Society
 - DRC moved, use old contact information until notified
2. Mark Merriman, President Elect
 - b. Newsletter
 - Looks great
 - No response from Members stating non-receipt of last month's newsletter
 - All newsletter info due by 2nd Friday of the month
 - Newsletter to be sent out before Thanksgiving
 - Limit requests for additional newsletter items to those necessary
3. Jeremy Smith, Vice President
 - c. Programs – Status of Christmas meeting
 - Program on Stress Management at Chez-Zee
 - d. Webmaster – Status of site
 - No Update
 - e. Tax filing for 2002
 - Drew and wife to fill out prior to next meeting, prior to deadline
4. Cameron Labunski, Secretary
 - f. None.
5. Tom Green, Treasurer
 - g. Current financial status and budget
 - No Update
6. BOG 1
 - h. Research Promotion – Jim Ruth
 1. Full Circle Reminder
 - To be completed prior to the end of the year
 - i. Golf – Jim Ruth
 - Everything is set-up for tournament
7. Mike Davidson, BOG 2
 - j. PAOE update
 - Website would not download
 - Next reporting deadline is Nov-1
 - Time critical PAOE's were completed by Oct-1, with remaining by Nov-1
8. Randy Schrecengost, BOG 3
 - k. Membership – Ken Simpson, phone committee
 1. Fifty-year membership certificates
 - To be issued at January meeting
 2. Changes from Society
 - l. Honors and Awards – Bill Klock
 - m. Reception – Paul Cherry
 - n. Roster – Morgan Stinson
 - o. Seminars – Update on next scheduled seminar
 - p. Historian
9. Glenn See, BOG 4
 - q. TEGA-Mark Treadway
 - r. Refrigeration
 - s. CEU certificates
 - PDH Credits to be issued for Sept-Oct meetings during December meeting
 - Future PDH Credits will be issued at every meeting, for the previous meeting's attendees
10. Drew Harrison, BOG 5
 - t. Student activities
 - Going well, with many schools visited and several to follow
 - Expecting between 40-50 students tonight
 - To issue 4-scholarships tonight, each \$250.00
11. Next meeting – December 4, 2003

ASHRAE Program Organizer

Year 2003-2004

Month	Date	Location	Tech Session			Theme
			Speaker	Company	Topic	
August	8/24	County Line (on the hill)	Scott Whigham & Steve Houtz	Ingersoll Rand	Flow Control and Regulation of Compressed Air	Membership Promotion
September	9/18	County Line (on the hill)	Steven Rowley	Particle Measuring Systems	Airborne Molecular Monitoring	RP
October	10/30	Travis County Expo Ctr	Tom Messenger	Cool Tech	Refrigeration Tour	Student Month
Nov/Dec	12/4	Chez Zee	N/A	N/A	N/A	Holiday Banquet
January	1/15	County Line (on the hill)	TBA	Greenheck	Air to Air Energy Recovery	RP
February	2/19	County Line (on the hill)	TBA	TBA	The Benefits of Testing and Balancing	TBA
March	3/18	County Line (on the hill)	TBA	TBA	Design Implications - Energy Code	TBA
April	4/15	County Line (on the hill)	TBA	TBA	Introduction to LEED and USGBC	Nominating
May	5/20	County Line (on the hill)	Ken Luther	Bell and Gossett	Pumping Design	Officer Induction

Month	Date	Location	Dinner Presentation			Theme
			Speaker	Company	Topic	
August	8/24	County Line (on the hill)	Scott Whigham & Steve Houtz	Ingersoll Rand	Designing and operating compressed air systems for lowest overall cost.	Membership Promotion
September	9/18	County Line (on the hill)	Mark Huza	Camfil	Carbon/Chemical Filtration Tech	RP
October	10/30	Travis County Expo Ctr	Expo Operators	Travis County	Refrigeration Tour	Student Month
Nov/Dec	12/4	Chez Zee	Harlan and Nancy Oelklaus	Entrepreneurial Systems	Stress Management	Holiday Banquet
January	1/15	County Line (on the hill)	TBA	TBA	Panel Discussion: Energy Recovery	RP
February	2/19	County Line (on the hill)	TBA	TBA	The Benefits of Commissioning	TBA
March	3/18	County Line (on the hill)	TBA	TBA	Rooftop Equipment Acoustics	TBA
April	4/15	County Line (on the hill)	TBA	TBA	Tips on How to Avoid Being Sued and Limit Your Exposure	Nominating
May	5/20	County Line (on the hill)	Ken Luther	Bell and Gossett	Pumping Design	Officer Induction

Submitted by: Jeremy Smith

Attendance Report	
Members	24
Life Members	0
Students	52
Guests	1
Total	77

Submitted by: Paul Cherry



STUDENT ACTIVITIES

Submitted by: Drew Harrison

It has been a great fall in Student Activities for the Austin ASHRAE Chapter. A list of some of the accomplishments and activities that have taken place are listed below.

1. Started fall activities with three different ASHRAE Student Branches, Austin Community College, Central Texas College, and Texas State Technical College. This included visiting each of the chapters and holding their first meeting of the year. During the meeting new student members were recruited and the benefits of ASHRAE membership was discussed. Students were also encouraged to attend the Annual ASHRAE Student Night.
2. Hosted the Annual ASHRAE Student Night, which had a record breaking 52 students attend. It was held at the Travis County Expo Center during an Austin Ice Bats Hockey Game. Dinner, a technical session, a tour of the ice and water systems, and a ticket to the Ice Bats game was provided for each student. This was a great experience for the students as it allowed them to see an ice making system and a chilled water system at the same time and compare the differences between the two.
3. Gave Austin ASHRAE Scholarships to one recipient from each of the student branches, Breke Hill from ACC, Tim Gohdes from CTC, Gregory Klement from TSTC, and Eddie Parkman from the University of Texas.
4. Hosted and presented the Region VIII Scholarship to Salome Balderrama, an Architectural Engineering Student from UT. This is a \$3000 scholarship presented to a single student in the Region VIII area.
5. Hosted anywhere from 2 to 52 students at each of the Austin ASHRAE Chapter Meetings this fall.
6. Took University of Texas students to an Open House at CMBPS as a way to see sustainable building design.
7. Participated in four Central Texas Eweek Steering Committee Meetings and helped host their Annual Fall Volunteer Recruitment Event.

With just the activities listed above, the Austin ASHRAE Chapter has already achieved 4 times PAR for Student Activities Presidential Award of Excellence Points (POAE). This is well above the national yearly average and there is still another 5 months to go in the school year.

Plans for the spring include repeating the nation leading K~12 effort that Austin ASHRAE was able to achieve last year with classrooms visits planed for over 500 students. Also in the works is a University of Texas Engineering Party in the Park for an expected 150 UT students.

A big thanks goes out to Cameron Labunski and Glenn See for all of their help and support with Student Activities. Cameron has been instrumental in getting UT more involved and Glenn was very generous by getting TAB Technologies to pick up 100% of the student dinners and tickets at the Ice Bats game. Thanks again to Cameron and Glenn.

RESOURCE PROMOTION CAMPAIGN

Submitted by: Jim Ruth P.E.

The *Resource Promotion (RP)* campaign annually raises funds to support ASHRAE's research program. It is conducted by the Society's membership through local chapter volunteers and receives over 7,000 contributions each year from the membership and companies associated with the HVAC&R industry.

This annual support totals more than \$1.7 million annually and is matched dollar-for-dollar by ASHRAE from the proceeds of the annual winter AHR Exposition. Since ASHRAE pays all the fund raising expenses, **100% of every donor's invested dollar goes into the research program.**

Members can submit individual or company contributions with their dues payment or by sending their contributions to their chapter's Resource Promotion chair. Companies can also send their research investments to their local ASHRAE chapter chair, Jim Ruth and made payable to:

ASHRAE Research
c/o: Jim Ruth
3901 S. Lamar, Suite 300,
Austin, TX 78704.

ASHRAE, Inc. is a 501(c)(3) non-profit organization. Contributions from U.S. citizens and businesses are deductible as allowed by law.

As part of this years Austin ASHRAE RP campaign, we will be utilizing our April 2004 golf tournament registration to allow for a one time payment. This contribution will cover your golf tournament expenses and your annual RP contribution. This way, contributors will only be contacted once and they will get the recognition they deserve at the golf tournament!

Additional information on the golf tournament and RP contributions will be in next month's newsletter.

Please come and join us in recognizing last years RP contributors at our January meeting!

Happy Holidays!

Design Guideline for Displacement Ventilation

ATLANTA -- While displacement ventilation has the potential to improve indoor air quality and save energy, it has not been widely used in the United States.

But its potential for use is great, due to existence of large core offices in many U.S. buildings that are isolated from the external climate and that need cooling.

A 10-step guideline for use by designers in designing displacement ventilation systems is featured in a book from ASHRAE.

System Performance Evaluation and Design Guidelines for Displacement Ventilation is the result of an ASHRAE research project by Qingyan Chen, Ph.D., professor of mechanical engineering, Ray Herrick Laboratories, Purdue University, West Lafayette, Ind., and Leon Glicksman, Ph.D., professor of building technology and of mechanical engineering, Massachusetts Institute of Technology.

"Our results show that displacement ventilation systems can provide a thermally comfortable indoor environment at a high cooling load through careful design," Chen said.

Displacement ventilation is used mainly in Scandinavian countries. Many U.S. cities have higher temperatures in summer than those in Scandinavian cities, and U.S. offices may have more lighting and equipment that produces more heat. Therefore, the cooling load could be higher.

With displacement ventilation, warm contaminants rise to the ceiling, the contaminated air is extracted, and fresh, cool air is supplied at floor level.

"The indoor air quality is better if the contaminant sources are associated with the heat sources, such as computers, people and equipment," Chen said. "This is because the thermal plumes from the heat sources will bring the contaminants to the upper part of the room where exhausts are located. The displacement ventilation system can also save energy but requires a separate heating system if it is applied to building perimeter zones."

The cost of *System Performance Evaluation and Design Guidelines for Displacement Ventilation* is \$59 (\$47, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723, fax 404-321-5478, by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org [Bookstore](#).

Reprinted from ASHRAE's "The HVAC&R Industry" electronic publication.

ASHRAE to Host Homeland Security Satellite Broadcast

ATLANTA—Guidance to reduce the threat of terrorism in buildings will be presented as a public service by ASHRAE during an upcoming satellite broadcast on homeland security issues.

The Society has been awarded a grant from the Alfred P. Sloan Foundation in New York to host the broadcast.

Topics will include risk assessment, chemical, biological and radiological (CBR) protection such as envelope tightness, ventilation systems, particle filtration and gas absorption, pressure relationships and building interior partitioning, and an update on building codes and standards as they relate to CBR.

"By using a satellite broadcast to reach our 162 chapters, other associations and industry representatives, ASHRAE can bring vital information to thousands of design engineers, architects, builders, building owners and operators, code officials, medical personnel, first responders and others to educate and inform them on protection of buildings," Ron Vallort, P.E., who will chair the broadcast, said.

Through the broadcast, ASHRAE will offer guidance to:

- Reduce the threat of terrorism by introducing risk management methods for building protection;
- Reduce the threat of bioterrorism by introducing new methods to use in buildings;
- Educate building owners on the costs vs. the benefits of improved air filtration and the efficacy of currently available protective measures.

Details regarding the date and time of the broadcast, tentatively scheduled for spring 2004, will be announced soon. The program will feature a computer uplink where participants can e-mail questions and comments during the live question and answer session.

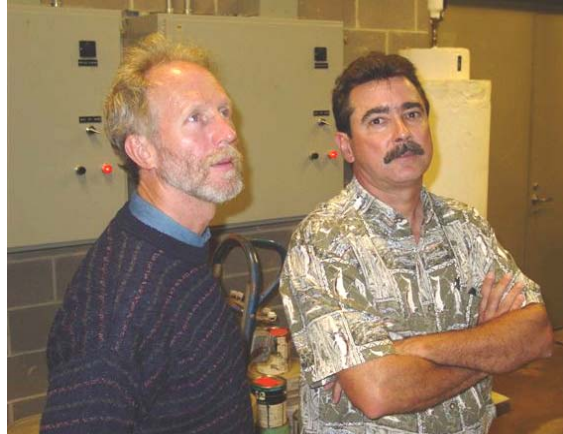
The broadcast will be similar to the 2001 broadcast sponsored by ASHRAE on ANSI/ASHRAE/IESNA Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. More than 4,000 people took part in that program at 160 downlink sites.

More information about ASHRAE's work in homeland security, including free reports, can be found at <http://www.ashrae.org/template/AboutLinkLanding/category/1561>.

Reprinted from ASHRAE's "The HVAC&R Industry" and "Insurance Journal" electronic publication.



Ben Gray and Guest pose in front of the chillers at the Expo Center.



Riley Ryan and Billy McAlister view the central plant at the Expo Center



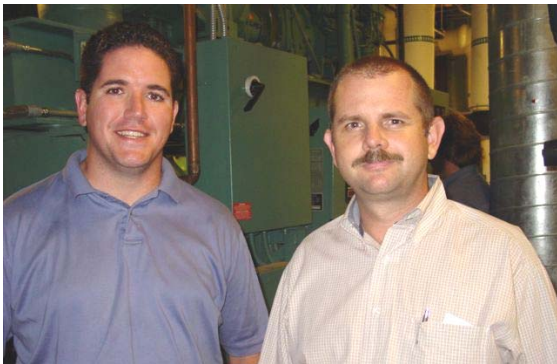
Drew Harrison awards \$250 scholarships to Breke Hill (ACC), Tim Gohdes (CTC), Gregory Klement (TSTC) and Eddie Parkman (UT).

Tom Messenger leads the tour of the ice making equipment

Vigain Harutunian and teacher from the local college inspect the chiller panel.



President Wes Goodwin and BOG Member Glenn See smile for the camera.



ASHRAE members learn how the ice is made for the Hockey Rink.



Bill Klock and Paul Cherry look up in amazement at the central plant.



THE AUSTIN REGISTER

Austin ASHRAE Chapter
 c/o YORK International
 2101 E. St Elmo, Suite 330
 Austin, Texas 78744



THE AUSTIN ASHRAE CHAPTER VOLUNTEERS - 2003 - 2004

Position	Name	Bus. Ph.	Fax	E-Mail
President	Wes Goodwin, P.E.	512-349-9667	512-349-9668	wes.goodwin@goodwinengineering.com
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Vice President	Jeremy Smith	512-744-4417	512-744-4444	smithj@auseea.com
Secretary (Parliamentarian)	Cameron Labunski	512-440-8333	512-440-8328	clabunski@acreng.com
Treasurer	Tom Green, P.E.	512-345-7793	512-345-7201	tomg@tgce.com
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BOG - 1(1st PP)				
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BOG - 3	Mike Davidson	512-894-3086	512-894-0867	stepheng@htseng.com
BOG - 4	Glenn See	512-443-4848	512-443-7575	gsee@tab-tech.com
BOG - 5	Drew Harrison	512-416-8822	512-416-8894	dharrison@trane.com
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Auditing Committee	Carl Crow, P.E.	512-416-1654	512-416-7547	carl.crow@goetting.com
Historian	Randy Schrecengost, P.E.			schreck@texas.net

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