

THE AUSTIN REGISTER

American Society of Heating, Refrigerating and Air Conditioning Engineers
Austin, Texas
www.ASHRAE-Austin.org



Chapter Year 2003-2004

February 2004

PRESIDENT'S MESSAGE

Mike Hayes with Munters Corporation gave a very beneficial presentation on the use of desiccant dehumidification during last month's meeting. In addition to presenting several wheel technologies, he discussed several cases where desiccant dehumidification has served well for high volume outdoor air and indoor air quality remediation. It was interesting that in some instances, it took several months to "dry" the materials within the building that had become saturated due to high indoor air humidity.

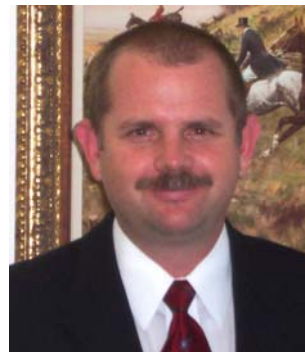
Also at last month's meeting, Glenn See recognized contributors to ASHRAE re-

source promotion. Plaques and commemorative coins were presented to donors of \$100 or more.

This month, the meeting will include an introduction to the newly developed Testing Adjusting, and Balancing Bureau (TABB) standards and certification requirements. The technical session will include a discussion on the common pitfalls on airside balancing.

Again, we will be meeting at the ever-popular County Line on the Hill. Engineers! Remember that attendance to the meeting will qualify you for Professional Development Hour credits towards licensing requirements

(1.0 hour per meeting), and PDH certificates will be provided at each subsequent meeting.



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

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Special points of interest:

Next Chapter Meeting:

When: Thurs., Feb. 19th
Where: County Line on the Hill
6500 Bee Caves Dr.
(512) 327-1742
Map Provided

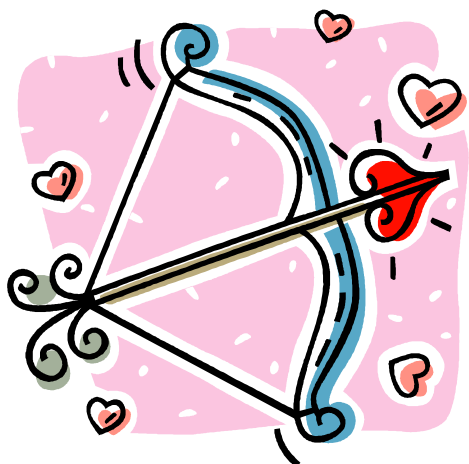
Social: 5:30-6:00 p.m.
Tech Session: 6:00-6:15 p.m.
Dinner: 6:30-7:30 p.m.
Program: 7:30-8:00 p.m.
Cost is \$20/person

Next Board of Gov. Meeting

When: Thurs. Feb. 19th
4:30 p.m.
Where: County Line on the Hill
Public Invited

Please RSVP to:

Jeremy Smith
Ph 512-744-4400
Fax 512-744-4444
smithj@auseea.com



February Technical Session and Main Program Summary

Submitted by: Jeremy Smith, P.E.

Technical Session

“Do’s and Don’ts of Testing and Balancing” by Pat Pico

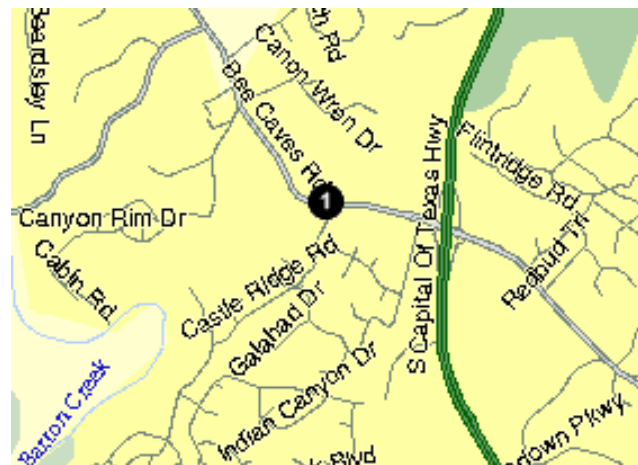
Balancing of an HVAC system is not always the first priority in the design process. Consequently, many engineers have misapplied or omitted very important devices required to adequately balance a system. These misapplied or omitted devices can prevent the test and balancing contractor from balancing the system properly and potentially cause the system to operate very poorly. In an effort to avoid these problems, Mr. Pico will review many of the things we as engineers should be including in our designs as well as the most common mistakes that are seen by testing and balancing contractors.

Main Program

“An Introduction to TABB” by Pat Pico

Many of us have been asked the question “Will you add TABB to your specifications for test and balance contractor certification?” The response has typically been “What is TABB? What are the differences between TABB and the other two main certifications (NEBB and AABC)?” In a direct response to these questions the main program will be an introduction to the Testing, Adjusting and Balancing Bureau (TABB).

Mr. Pico is the Training Director for the Santa Clara Sheet Metal Training Center and employed by the Sheet Metal Workers International Association, Local Union 104. He has been with SMW 104 for 5 years as the Training Director and has been in the industry for 15 years.



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

For Period Ending 1/31/03

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
Austin Chapter Dues		\$236.00		\$236.00	\$0.00
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		\$4,139.00		\$861.00
Expense		\$6,000.00		\$5,155.03	\$844.97
Student Meeting Meals					
Income (donations)	\$1,000.00		\$0.00		\$1,000.00
Expense		\$1,000.00		\$0.00	\$1,000.00
Student Scholarships					
Expense		\$1,000.00		\$1,000.00	\$0.00
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		\$169.33	-\$129.33
Website		\$430.00		\$15.00	\$415.00
Miscellaneous		\$500.00		\$250.00	\$250.00
Total Income	\$34,950.00		\$5,219.00		\$29,731.00
Total Expenses		\$34,356.00		\$6,825.36	\$27,530.64
Year to Date Cash Balance					-\$1,606.36
Wells Fargo Checking Account					
Beginning Balance (12/31/03)		\$11,504.18	Ending balance		\$10,775.67

Submitted by: Tom Green, P.E.



**Austin ASHRAE
BOG Meeting Minutes
January 15, 2004
County Line on the Hill
Austin, Texas**

1. Wes Goodwin, President
 - a. Strategic Planning/Pres Elect Training on Feb 20,21, 2004
 - Mark Merriman is tentatively scheduled to attend
 - Wes Goodwin will be attending
 - Travel Expenses will be paid by the Austin ASHRAE Chapter
2. Mark Merriman, President Elect
 - b. Newsletter
 - All Newsletter submissions due by the 6th of February (including History)
3. Jeremy Smith, Vice President
 - c. Programs – Update for remainder of the year
 - May's program is solid
 - February meeting to be TAB and/or commissioning
 - No additional updates
 - d. Webmaster – Status of site, issues with Domain Host
 - Website is functioning
 - e. Tax filing for 2002 – Status
 - Complete and being reviewed, to be submitted by February 15th
4. Cameron Labunski, Secretary
 - f. To attend UT Austin ASHRAE Student Meeting with Drew
 - g. To handle Reception duties in place of Paul Cherry
5. Tom Green, Treasurer
 - h. Current financial status and budget
 - On-line with budget planning
 - Notice to be included in newsletter for unpaid local dues
6. , BOG 1
 - i. Research Promotion – Awards to be handed out at this meeting by Jim Ruth
 - j. Golf – By Jim Ruth
 - Golf Tournament set-up
7. Mike Davidson, BOG 2
 - k. PAOE update
 - Full-Circle contributions were made by all Chapter Officers
 - l. Regional Energy
 - Firm Submissions
 - Deadlines to be announced
8. Randy Schrecengost, BOG 3
 - m. Membership – Ken Simpson, phone committee
 - n. Honors and Awards – Bill Klock
 - o. Reception – Paul Cherry
 - p. Roster – Morgan Stinson – Due out in March/April
 - q. Seminars – Update on next scheduled seminar
 - Possible ASHRAE Self-Directed Learning Course, 3-4 nights. Will need to have a P.E. Instructor (volunteer). ASHRAE will issue certificates. Try to attain sponsor for capital costs.
 - r. Historian
9. Glenn See, BOG 4
 - s. TEGA-Mark Treadway
 - Seminar with USGBC
 - t. Refrigeration
 - u. CEU certificates
 - Contact Glen See for certificates
10. Drew Harrison, BOG 5
 - v. Student activities
 - Proclamations made in February
 - Eweek speaker - Rick McMaster, possibly 10-minutes
11. Next meeting – February 19, 2004



ASHRAE Program Organizer

Year 2003-2004

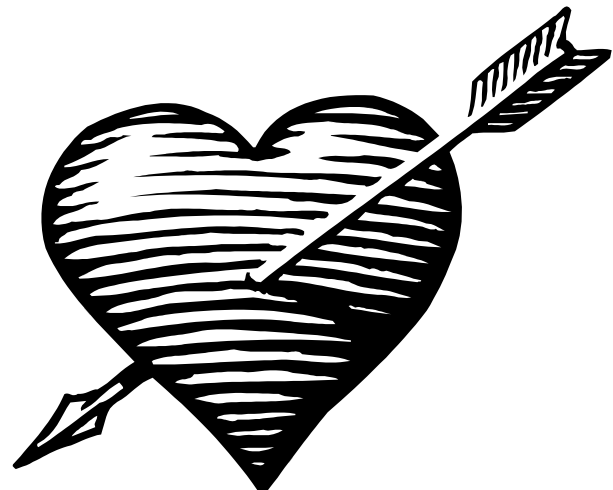
Month	Date	Location	Tech Session			Theme
			Speaker	Company	Topic	
August	8/24	County Line (on the hill)	Scott Whigham & Steve Houtz	Ingersoll Rand	Flow Control and Regulation of Compressed Air	Membership Promotion
September	9/18	County Line (on the hill)	Steven Rowley	Particle Measuring Systems	Airborne 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)	Mike Hayes	Munters	Energy Recovery Equipment - Overview	RP
February	2/19	County Line (on the hill)	Pat Pico	SMW	Do's and Don'ts of Testing/Balancing	Engineers Week
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)	Mike Hayes	Munters	OA & Dessicant Wheels..A Perfect Match?	RP
February	2/19	County Line (on the hill)	Pat Pico	SMW	An Introduction to TABB	Engineers Week
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	37
Life Members	4
Students	0
Guests	4
Total	45

Submitted by: Mark Sheehan



RESOURCE PROMOTION CAMPAIGN

Submitted by: Jim Ruth P.E.

Our annual Austin ASHRAE Golf Tournament has always been our largest fundraiser. A part of the funds raised every year at the golf outing go to ASHRAE Research. Last year, ASHRAE renamed it's Research Promotion to Resource Promotion but the functions are basically the same. Instead of soliciting everyone for golf sponsorships and then later for RP contributions, since I'm the Golf and RP Chairs this year, I am going to try to raise funds for RP by modifying the golf sponsorships. I hope this makes your ASHRAE contributions easier to make this year and avoids multiple phone solicitations later in the year. I will be contacting those non-golf RP contributors as well!

Please see the attached entry form for further details.

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.

**2004 ASHRAE Golf Tournament
Friday – April 16, 2004 - The Golf Club @ Circle C**

Tournament Schedule

Registration & Driving Range	11:30 – 1:15
Putting Contest	11:45 – 1:15
Shotgun Start	1:30
BBQ Buffet	Approx. 6:00
Awards Ceremony	Approx. 6:30

Note: Tournament will be during Daylight Savings!

A Texas BBQ will be provided for all paid entries. Trophies will be awarded to the top 3 golf teams, 2 long drives, 2 closest to the pin and the putting contest winner. A Hole in One on any of the Par 3 holes wins a vacation package. (**Mulligans cannot be used to win a Hole in One prize.**) Hole sponsors will have a sign with their Company name and logo placed on a tee box and on the Tournament Sponsor Board. A General Sponsor will have their Company name and logo on the Tournament Sponsor Board only. Beverage Sponsors get 1 person to ride with the Circle C Beverages to meet participants and are General Sponsors as well. Spaces are limited, so get you entry in ASAP!

Package Name	PLATINUM	GOLD	SILVER	BRONZE	COPPER	LEAD	ALUMINUM	TIN
Package Price	\$2,000	\$1,600	\$1,000	\$750	\$450	\$300	\$130	\$110
RP CONTRIBUTION	\$1,000	\$750	\$500	\$250	\$100	\$75	\$55	\$25
<i>Single</i>	N/A	N/A	N/A	N/A	N/A	INCL (1)	INCL (1)	N/A
<i>Team</i>	INCL (8)	INCL (8)	INCL (4)	INCL (4)	INCL (4)	N/A	N/A	N/A
<i>Green fees</i>	INCL (8)	INCL (8)	INCL (4)	INCL (4)	INCL (4)	INCL	INCL	N/A
<i>Meals</i>	INCL (8)	INCL (8)	INCL (4)	INCL (4)	INCL (4)	INCL	INCL	N/A
<i>Putting</i>	INCL (8)	INCL (4)	INCL (4)	NIC	NIC	NIC	NIC	N/A
<i>Mulligans</i>	INCL (32)	INCL (16)	INCL (16)	INCL (4)	NIC	NIC	NIC	N/A
<i>"Freebies"</i>	INCL (8)	INCL (4)	INCL (2)	NIC	NIC	NIC	NIC	N/A
<i>Hole Sponsorship</i>	INCL (2)	INCL (2)	INCL	INCL	NIC	NIC	NIC	N/A
Single	N/A	N/A	N/A	N/A	N/A	N/A	\$95	N/A
Team	\$700	\$700	\$350	\$350	\$350	N/A	N/A	N/A
Putting	\$80	\$40	\$40	\$0	\$0	N/A	\$0	N/A
Mulligans	\$160	\$80	\$80	\$20	\$20	N/A	\$0	N/A
"Freebies" -putt is good!	\$160	\$80	\$40	\$0	\$0	N/A	\$0	N/A
General sponsors	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$100
Beverage cart sponsors	N/A	N/A	N/A	N/A	N/A	\$250	N/A	N/A
Repeat Sponsorship	\$400	\$400	\$200	\$200	\$0	\$0	\$0	\$0
Total PKG Value	\$2,500	\$2,050	\$1,210	\$820	\$450	\$325	\$150	\$125
Savings	(\$500)	(\$450)	(\$210)	(\$70)	(\$0)	(\$25)	(\$20)	(\$15)
Select your pkg qty								
<i>New sponsors Add</i>	\$100	\$100	\$50	\$50				
Total amount of check								

Make Checks payable to: ASHRAE – Austin Chapter

Send to the attention of -Jim Ruth – Dynamic Systems, Inc. – 3901 S. Lamar, Suite 300, Austin, TX 78704
Benefiting Research and Scholarship activities for Austin ASHRAE

Fundamentals Courses Being Revised by ASHRAE

ATLANTA - As building-related technologies advance, new educational opportunities are needed for HVAC&R practitioners.

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is revising its self-directed learning courses to incorporate the latest technologies, while the "fundamentals" will remain the same.

Revision of the nine-course Fundamentals series will take place over the next two years. It was created in 1995.

"By updating the series, we hope to create a resource that maintains ASHRAE on the leading edge of HVAC&R education," Bill Root, chair of ASHRAE's Course Development Committee, said. "These updates also could serve as the basis for any certificate program created by ASHRAE."

The first revision will be to Fundamentals of Thermodynamics and Psychrometrics. It will be divided into two courses, Fundamentals of Thermodynamics, which will be completed by June 2004, and Fundamentals of Psychrometrics, which will be completed by September 2004. In addition, a new course, Fundamentals of Steam System Design, is being created.

"The fundamental materials of most of the courses will remain the same," Root said. "The revisions will focus on updates to keep pace with advances in research, ASHRAE standards as well as materials and equipment."

Proposed revisions include updating Heating and Cooling Loads to match the latest methods in the ASHRAE Handbook, Fundamentals; reformatting HVAC Systems to expand upon the changes in many HVAC&R systems available today; and rewriting the direct digital control chapter of Controls to include current technology.

ASHRAE's Fundamentals series currently includes courses on HVAC systems, thermodynamics and psychrometrics, heating and cooling loads, air system design, water system design, heating systems, electrical systems and building electrical energy use, HVAC control systems, and refrigeration.

For more information on the series, visit www.ashrae.org/template/EducationLinkLanding/category/1496.

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

ASHRAE Recognizes Outstanding HVAC&R Industry Achievements

ANAHEIM, CALIF. - The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recognized 45 people for their contributions to ASHRAE and the HVAC&R industry at the Society's 2004 Winter Meeting held here Jan. 24-28.

The F. Paul Anderson Award, given in recognition of notable achievement or outstanding work or service in any field of the Society, was presented to Clark Bullard, Ph.D., a professor of mechanical and industrial engineering at the University of Illinois at Urbana-Champaign in Urbana, Ill.

The ASHRAE/ALCO Medal for Distinguished Public Service recognizes distinguished public service by an ASHRAE member. The recipient is Richard Vermillion, vice president, AME Inc., Edmond, Okla.

The Technology Award first-place winner is:

- David Inghram, P.E., for the Des Moines Area Community College - West Campus - West Des Moines, Iowa. He is a senior project engineer, KJWW Engineering Consultants, Des Moines, Iowa.

The ASHRAE Technology Award honorable-mention project is:

- Jeffrey Blaevoet, for the Hamilton Landing Hangars commercial speculative office space, Novato, Calif. He is principal, Guttman and Blaevoet Consulting Engineers, San Francisco, Calif.

The ASHRAE Student Design Project Competition challenged teams of undergraduate students to design a two-story educational building to be constructed on a medium size college campus in Singapore.

In the HVAC System Design Category, the recipients are:

- First-place: Jesse Bigelow, Andy Geem, Gerard Harris, Robert Krieg, Nathon Klein and Mike Sweeney of Ferris State University, Big Rapids, Mich. Their advisors are Mike Feutz and Eric Quilitzch.
- Second-place: Jeremy Cox, Mason Gup, Doug Gwaltney, Matthew Miller and Andrew Rode of the University of Florida, Gainesville, Fla. Their advisor is H.A. Ingley, Ph.D., P.E.

In the HVAC System Selection Category, the recipients are:

- First-place: Larry Good, Scott Huber and Rebecca Thompson of Pennsylvania State University, University Park, Pa. Their advisor is William Bahnfleth, Ph.D., P.E.
- Second-place (tie): Joe Brandsen, Toby Giangrande, Nick Keeler, Chris Korn, Jarrad Mitchell and Eric VanBogelen of Ferris State University, Big Rapids, Mich. Their advisor is Eric Quilitzch. Daniel Barnes, Kimberly Bunz, Nicholas Rosenberry and Nathan Sheets of the University of Nebraska-Lincoln, Omaha, Neb. Their advisor is Lynn Werman, P.E.

The E.K. Campbell Award honors outstanding achievements by engineering educators. The recipient is Anthony Jacobi, Ph.D., professor, mechanical engineering, University of Illinois, Urbana, Ill.

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

Upcoming Events in Austin

Who: United States Combined Heat and Power Association (USCHPA)

What: CHP Roadmapping Workshop

When: September 20 and 21, 2004

The USCHPA brings together diverse market interests to promote the growth of clean, efficient CHP in the United States. It is a private, non-profit association, formed in 1999 to promote the merits of CHP and achieve public policy support. For more information visit: www.uschpa.org.

Who: Association of Energy Engineers (AEE)

What: World Energy Engineering Conference (WEEC)

When: September 22-24, 2004 – Austin Convention Center

AEE is your source for information on the dynamic field of energy efficiency, utility deregulation, facility management, plant engineering, and environmental compliance. For more information visit: www.aeecenter.org/shows.

Update for Austin ASHRAE Student Activities

Submitted by: Drew Harrison

On January 27, Cameron Labunski and Drew Harrison spoke at the University of Texas Architectural Engineering Program on the benefits Professional Societies bring to industry and more particular the benefits ASHRAE brings to the HVAC Industry. About 40 students attended in what they called "One of the most beneficial meetings they have had all year."

After the meeting, the Austin ASHRAE Chapter received close to 30 requests for ASHRAE Student Memberships and received several request for more activities.

- **Friday in the Park**
This is when a company or organization sponsors or helps Engineering Students get some much needed R and R on a Friday afternoon on the UT Austin Campus. We have volunteered to buy some food and possible help them with a Thermo Project, which involves using a solar device to chill liquids to a suitable temperature for drinking. More information to follow.
- **Austin ASHRAE Chapter Meeting.**
We have invited Austin ASHRAE Students to attend the meeting in February as a way to help celebrate Engineers Week. If you see any students at the meeting please feel free to introduce yourself and make them feel at home.
- **Shadow an Engineer Day**
This is a program where an Engineer allows a student to follow them around for the day. The Dallas ASHRAE did this and said it was on of the most successful Student Activities Events they have ever had. We will discuss this at the next Chapter Meeting as I have already been receiving request from Students to do this.
- **Internships**
Get them while they are cheap and inexpensive and still have the ability to stay up and work all night! We have a great source for Interns if anyone wants one for the spring, summer, or fall semester. Please either contact Cameron or Drew if interested.



In the News...

During the 78th legislative session, SB277 was passed instructing the Texas Board of Professional Engineers to develop and implement a Continuing Education Program (CEP). ASHRAE offers PDH credits for attending both the technical session and main program. See the following website for more information: http://www.tbpe.state.tx.us/CEP_Info.htm

January Meeting Photos!





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
President-Elect	Mark Merriman	512-481-0220	512-499-8528	mark.merriman@york.com
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
BOARD OF GOVERNORS				
BOG - 1(1st PP)				
BOG - 2	Randy Schrecengost, P.E.	512-314-3160	512-314-3135	schrecengostRC@c-b.com
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
COMMITTEE CHAIRS				
CRC Delegate (President)	Wes Goodwin, P.E.	512-349-9667	512-349-9668	wgoodwin@goodwineng.com
CRC Alternate Delegate (Vice President)	Mark Merriman	512-481-0220	512-499-8528	mark.merriman@york.com
Research Promotion (1st PP)	Jim Ruth, P.E.	512-443-4848	512-448-9802	jruth@dynamics.com
Golf	Jim Ruth, P.E.	512-443-4848	512-448-9802	jruth@dynamics.com
Membership Promotion/Communication-Telephone	Ken Simpson	512-744-4400	512-744-4444	simpsonk@auseea.com
Honors and Awards	Bill Klock, P.E.	512-744-4410	512-744-4444	KlockB@auseea.com
Reception	Paul Cherry	512-349-9667	512-349-9668	paul.cherry@goodwinengineering.com
Roster	Ken Simpson	512-744-4400	512-744-4444	simpsonk@auseea.com
Chapter Programs/Tech Sessions	Jeremy Smith	512-744-4417	512-744-4444	smithj@auseea.com
Seminars	Randy Schrecengost, P.E.	512-314-3160	512-314-3135	schrecengostRC@c-b.com
Student Activities	Drew Harrison	512-416-8822	512-416-8894	dharrison@trane.com
Webmaster	Jeremy Smith	512-744-4417	512-744-4444	smithj@auseea.com
Refrigeration	Glenn See	512-443-4848	512-443-7575	gsee@tab-tech.com
TEGA	Mark Treadway	512-444-1835	512-444-5522	markt@mechreps.com
Nominating Comm.	Bill Klock, P.E.	512-744-4410	512-744-4444	KlockB@auseea.com
Past President's Council (3rd PP)	Carl Crow, P.E.	512-416-1654	512-416-7547	carl.crow@goetting.com
Newsletter Editor	Mark Merriman	512-481-0220	512-499-8528	mark.merriman@york.com
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