



February 4, 2010: Vol. 52, No. 7

Produced by: Ian L. Bost, P.E.  
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.

## President's Message

Another month is in the books, and it was a busy one:

- Our winter party at Joe T. Garcia's was a blast – check out the detailed recap in the special events section. Special thanks to Jay Sullivan, his committee, and all of our Sponsors (also listed in that section) for their support in making this event a success.
- The tour of Miller Brewery was informative and lots of fun. Thank you to Richard Long for his efforts organizing the event.
- The February luncheon featured a presentation on laboratory ventilation design considerations by Chad Dunn with Triatek. We all learned some valuable info to aid us when we deal with variable flow fume hoods in the future.
- Members of the Chapter again helped judge the “Future Cities” competition for 7<sup>th</sup> and 8<sup>th</sup> graders this year. Find out more about this activity in the student activities section.

Our February meeting will be held on Wednesday the 17<sup>th</sup>. Zahid Ayub, one of our own local Fort Worth Chapter members, will speak to us about natural refrigerants. Dr. Ayub served as the chairman of the ASHRAE committee which published a position paper on these alternatives to man-made refrigerants. He will discuss the findings of his committee and also explain to us why, as part of their government advocacy efforts, ASHRAE publishes position papers like this one.

This month's meeting will also be our primary membership promotion event for the year. If you know of someone that you think would benefit from membership in ASHRAE and you convince them to come to our meeting and join, lunch is on us. If you get them to sign up online prior to coming, just have them print off their receipt to get credit.

We will be hosting a Young Engineers in ASHRAE (YEA) happy hour at the Flying Saucer downtown on Feb 11 at 5:30pm. Any member of the chapter that is under 35 qualifies as a YEA member. This will be a great opportunity for you to meet and greet other “young” people in the industry. The first drink is

Next Chapter Meeting

Natural Refrigerants

February 17, 2010  
11:30 A.M.

Carter::Burgess  
Plaza  
777 Main St.  
39th Floor  
Fort Worth, TX

[Click here for map.](#)

## President's Message – Cont.

on us, so be sure to make the time to get down there.

As I've mentioned before, the Chapter Regional Conference (CRC) will be held this coming April in Monterrey, Mexico. We would like to have a strong showing at the CRC this year, so please **let us know if you have any interest in attending**. We will do as much as we can as a Chapter to help facilitate your journey there. In addition to great training opportunities and the annual business meetings, there are also many fun activities and fellowship events that make this trip well worth it.

A group of ASHRAE members, led by Matt Carter, met with TCU students in late January to promote the student membership program. Eleven students have signed up so far which gives us enough to start the student branch. We'll keep you posted on their progress.

Jay Martin  
Chapter President

## February Program/Speaker Bio.

**Topic of Discussion:**  
Natural Refrigerants

**Speaker:**  
Dr. Zahid Ayub

**Speaker Bio:**  
Dr. Zahid Ayub is a local ASHREA member, and an ASHRAE Fellow, with an extensive background in service to ASHRAE on the national level and is currently Chairman of the ASHRAE Natural Refrigerants Position Paper Committee

**Presentation Outline:**  
Driven by international agreements such as the Montreal and Kyoto protocols (UNEP 1999 and United Nations 1998) as well as a desire for a higher degree of sustainability, there is a renewed interest in increasing the application of natural refrigerants. The class of refrigerants commonly referred to as "natural refrigerants" offers the potential to improve the environmental performance of refrigeration systems. Because of its alignment with sustainability initiatives, ASHRAE supports research, assessment, and strategic growth in the use of natural refrigerants such as ammonia, carbon dioxide, hydrocarbons, air and water in refrigeration systems and technologies.

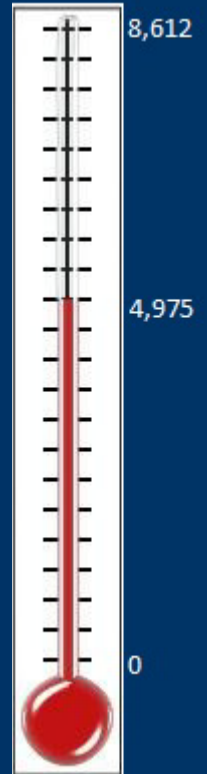
Taking a leadership role means ASHRAE and its members will continue to extend the scope of refrigeration and air conditioning technology by conducting research, disseminating knowledge, developing standards and guidelines, and promoting the responsible use of sustainable refrigerants. Several technical committees within ASHRAE are committed to achieve this goal. Limited research has been undertaken within a few ASHRAE technical committees during the past decade with most efforts focused on ammonia and carbon dioxide. In light of the current global scenario, ASHRAE's response to the demand for environmental sustainability is to promote the development of systems which use natural refrigerants safely, economically and efficiently.

## Board of Governors Meeting Minutes – January 20, 2010

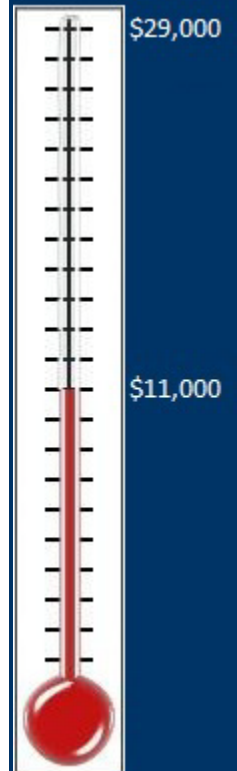
**Attendees:**  
14 Members: Jay Martin, Ian Bost, Richard Watters, Dan Merkel, Patty Parish, David James, Cody Pace, Brodie Heflin, Larry Akers, Matt Carter, Jay Sullivan, W.O. Kelly, John Rhodes, and Richard Long.  
Meeting Called to order at 10:35am by Jay Martin, Chapter President.

PAOE Update: Fort Worth Chapter is at 43% of our goal, which puts us at number 1 in the region, 10<sup>th</sup> among US Chapters, and 21<sup>st</sup> in Society. We have 4,324 points.

PAOE Points



RP Dollars



## Board of Governors Meeting Minutes – January 20, 2010 – Cont.

### Reports:

President-Elect (Ian Bost):

- Nominating Committee meeting is this Friday, and the second meeting is scheduled for February 4<sup>th</sup>.
- Nominating Committee consists of five members, which should have been approved last month.
  - Presented potential members: Buddy Pace, Tony Finch, Larry Akers, Matt Carter, and Ian Bost.
  - Jay Sullivan motioned to accept the members of the Nominating Committee as presented, Dan Merkel seconded, and the motion passed unanimously.
- Reviewed Manual of Chapter Operations for procedures of nominating next year's officers.
- After meeting this week, the Nominating Committee will present nominations to the membership.

Secretary (Richard Watters):

- Roster was printed, and copies are being mailed to the Golden Gavel.
- Trouble producing online version, so it will be on our website as soon as it's available.
- Email PDF of Roster was sent to membership.
- Have created database to track membership and continually update Roster.

Treasurer (Dan Merkel):

- Updated checking account balance is \$8,380.68. This balance does not include the Winter Party.
- Reconciled list of members and presented this to Secretary. Updated name badges for the membership.
- Jay Martin commented that we are on track with our budget that was established in our planning meeting. Expenses are lower than our income, so we are on track to give to Research Promotion.

Board of Governors (David James): no report

Board of Governors (W.O. Kelly): no report

Board of Governors (Cody Pace): no report

ByLaws Revision (John Rhodes):

- 2008, ByLaws & Constitution combined at Society
- Has developed document. Will send to BOG for review, with comments
- Changes to constitution will follow the ByLaws
- Present final version to membership in February and vote in March

CTTC (Tony Finch): NIA

- Per Dan Merkel, all speakers have been set with no changes.

## Board of Governors Meeting Minutes – January 20, 2010 – Cont.

### Historian (Patty Parish):

- Requested pictures of the Winter Party
- Jay Martin asked to work on CRC presentation

### Honors & Awards (Larry Akers):

- No news

### Membership Promotion (Brodie Heflin):

- Delinquencies are down to seven.
- Member count down to 284 from 292
- Has prospects for new members
- Membership promotion next month

### Research Promotion (David James):

- As of December 31, we were second in the Region to make it to 30% RP goal
- Walter Horn indicated to David that he will receive a check from Oslin Nation in the amount of \$3,700.12, to be spread among Dallas, Fort Worth, Houston, and San Antonio.
- Need \$16,000 to reach goal, and we need this before CRC.
- Sporting Clay being set up by Dallas ASHRAE and ASPE. They want the Fort Worth Chapter to participate, so we need 20 people or more to attend in order to share in the proceeds.

### Special Events (Jay Sullivan):

- Winter Party was good, but we had trouble collecting money and trouble with the sign-in sheet
  - 13 people have not paid
  - Some sponsors have yet to pay
  - Open to comments from membership on what they thought of the party
- Golf tournament will be at the end of March, on a Monday. Oslin Nation to sponsor again this year, so the tournament will likely be at Great Southwest. A final date will be set by the time the Therm is issued.
- The Spring Social (Past Presidents' Night) will be held at Joe T Garcias.
- Working on setting up the next Happy Hour. This will be done as a YEA event.

### Student Activities (Matt Carter):

- TCU Chapter starting this week; they will meet on Friday.
- Working on PR for E-Week
- Working on scholarship plan – books, etc.
- Future Cities is this Saturday, and Matt will judge.
- Internships – need names of any interns for recognition and PAOE points
- Will be visiting the schools.

## Board of Governors Meeting Minutes – January 20, 2010 – Cont.

Webmaster (Cody Pace):

- Added calendar online
- Update with Tony to fill-in any “TBD”s on the website program list.
- Have a few items to update for the History
- Working on a photo gallery

### Old Business:

- Roster is complete
- Membership promotion will be next month.

### New Business:

- Don Decker Passed away.
  - WO moved that the Chapter make a donation in honor of Don to ASHRAE Research in the amount of \$100.
  - Cody Pace seconded.
  - Motion passed unanimously
- We are ahead on our budget.
- In preparation of the CRC, WO moved that we have Ian Bost and Richard Watters named as our Delegate and Alternate, respectively.
  - Larry Akers seconded the motion, and it passed unanimously.

### Other Items:

- Any issues that we want to bring before CRC need to be brought to Ian or Richard.
- Yearly activities presentation to be done by Ian Bost.

President Jay Martin adjourned the meeting at 11:21am.

## General Chapter Business Meeting Minutes – January 20, 2010

### Business Meeting Minutes:

Meeting Called to order at 12:00pm by Jay Martin, Chapter President.

Proceeded with self-introductions and the introduction of our guests by Dan Merkel.

### Old Business:

- Sid Ellis motioned to approve the meeting minutes from last month. Seconded and passed.
- Winter Party was last Thursday. We had a lot of fun and hope to see everyone there next year.
  - Special thanks to all of our great sponsors!
  - Special thanks to Brett Denham's Card Shark and his many ASHRAE member dealers for providing the entertainment.
- Miller Brewery Tour was last Friday. It was a great tour of their refrigeration process with samples of their product at the end.
- CTTC Updates
  - Technology award competition is coming
  - January Meeting will be Lab Control Basics
- Research Promotion
  - We have raised 30% of our goal by 12/31/09; we were only one of two chapters in the region to accomplish that.

## General Chapter Business Meeting Minutes – January 20, 2010 – Cont.

- President's Award of Excellence (PAOE) Update: we have 4,324 points and have passed Houston to be in the lead.
  - We are the best Chapter in the Region
  - We are the 10<sup>th</sup> best in the USA
  - We are 21<sup>st</sup> in Society

### New Business:

- Don Decker passed away. The BOG has approved the Chapter to make a donation to ASHRAE Research in his honor.
- The website has a new feature, a consolidated calendar to make it easier for everyone to figure out what is going on. The calendar entries will be MS Outlook calendar compatible, so you can easily add them to your business calendar.
- Introduce Officer Selection Committee.
  - Members are Ian Bost, Larry Akers, Buddy Pace, Tony Finch, and Matt Carter.
  - Should have been established in December, but if we agree to this committee today, we will be on schedule.
  - John Rhodes motioned to approve the committee members as presented. Don Hardin seconded, and the motion passed unanimously.
- CRC is April 22 – 24.
  - Attendance is highly encouraged. If you want to go, but are having financial concerns, please see one of the Chapter Officers.
  - Chapter to help support fees, new committee chairs to attend for sure.
  - Get your passports ready.
  - Committee to solicit input from membership regarding policies, standards, etc.
- Membership Promotion events
  - YEA Happy Hour to be determined. The first drink will be on us.
  - Next month will be membership promotion. If you bring someone who signs up as a new member on the spot, your lunch will be paid for.
- Meeting in April moved to Thursday (4/15/10), to be held on the 26<sup>th</sup> floor of 777 Main
- ASHRAE webinar on Wednesday 4/21/10 from 12pm – 3pm on Commissioning for High Performing Buildings.
  - The cost will be \$15 per person and will include lunch. Also to be held on the 26<sup>th</sup> floor. We have brochures if you are interested. You **must** RSVP to have lunch.
- There will be a joint ASHRAE/ASPE sporting clays tournament on March 12<sup>th</sup>. The cost is \$100 per person.
- Spring Golf Tournament will be announced soon.
- TCU Engineering Career Fair will be on February 16<sup>th</sup> from 10am – 2pm.

## General Chapter Business Meeting Minutes – January 20, 2010 – Cont.

### Technical Session Minutes:

John Rhodes introduced our speaker:

#### Speaker:

Chad Dunn

#### Topic of Discussion:

Lab Control Basics

Review the basic systems involved in lab control. We will discuss mechanical equipment, control strategies, and sequences of operation. We will also discuss the test and balance of the system, along with commissioning strategies and issues.

#### Discussed:

- Venturi valve control
- Flow control
- Range of devices
- Actuators
- Sash position sensors
- Velocity sensors (pros and cons, and range)
- Program memory (non-volatile)
- Programming I/O and integration

Presented diagrams and examples.

#### Closing:

- Please fill out speaker evaluation forms
- This month is the meeting in Orlando
- E-Week is in February. If you want to help and talk to students, see Jay Martin or Matt Carter.
- Roster has been emailed to all members. If you need a paper copy, a few are available.

Jay Martin adjourned the meeting at 12:41pm.

## Chapter Financial Report

STARTING BALANCE DATE	12/3/2009
NEW BALANCE DATE	1/31/2010

**Treasurer's Report** *Dan Merkel*

Meeting Information:

Date of Meeting:	1/20/2010
Members	65
Guests	6
<b>Total:</b>	<b>71</b>

Financial Data:

Starting Balance (12/3/09): **\$6,700.05**

Deposits:

Dec Luncheon Payments	\$1,020.00
August luncheon Jacobs payments check 6259982	\$380.00
November Jacobs Luncheon Payments	\$320.00
Roster Sponsorship	\$100.00
Dec Eventbrite luncheon	\$80.00
Nov Dues	\$385.00
Dec Dues	\$525.00
Dec Lunch Jacobs	\$300.00
Winter Party payments received at the door. See spreadsheet for further information	\$2,270.00
Winter Party payments to chapter from Eventbrite reference 527099569 check 3264	\$1,190.00
January Luncheon Payments - at door 940	\$940.00
January Eventbrite payments received	\$160.00

**Subtotal: \$7,670.00**

Payments:

2009-2010 Roster printing at kinkos	\$229.29
Nov Parking	\$62.50
Dec Luncheon	\$1,366.87
Winter Party Dinner - To Joe T's	\$1,151.15
Winter party entertainment to Brett Denham	\$1,500.00
December Parking	\$92.50
ASHRAE Research - In memorium of Don Decker	\$100.00
Guest speaker expenses November meeting wrote 11-20-09 posted in this book 1-29-10	\$593.87
January Luncheon	\$1,299.30
Winter party prizes reimburse to Jay Sullivan	\$2,742.57
TCU Membership sponsorship: Glenn Putnam	\$16.00
Future Cities	\$100.00
UTA Trane Trace sponsorship	\$675.00

**Subtotal: \$9,929.05**

**New Balance as of 1/31/10: \$4,441.00**

## ASHRAE Technology Awards

### Show the World You Made It!

Be the winner of the industry's most prestigious honor for efficient use of energy in building and environmental system performance. The ASHRAE Technology Awards recognize, on a global scale, successful applications of innovative design, which incorporate ASHRAE standards for effective energy management, indoor air quality, and mechanical design.

### Awards are given annually in the following categories:

- Commercial buildings
- Health care facilities
- Public assembly
- Institutional buildings
- Industrial facilities
- Residential
- Alternative or renewable energy use

### Fort Worth Chapter Competition:

- Recognizes local members at the chapter level for outstanding design and innovations for effective energy utilization.
- The format of competition and judging at the chapter level can be setup by the local chapter (see attached **Short Form** and example Short Form).
- The chapter submittal deadline should be before **April 15<sup>th</sup>, 2010** to allow enough time to complete and submit a Short Form Award Application to the CTTC RVC before the **May 1<sup>st</sup>, 2010** Deadline.

### ASHRAE would like to recognize our 2009 first place National winners:

- **Kenneth Sonmor**—St. Laurent Office Tower/Montreal, Canada
- **Laurier Nicols**—Centre Communautaire de Mississini/Misstissini, Quebec, Canada
- **Thomas Durkin**—HVAC Renovations at George Washington Carver Elementary School Indianapolis, Indiana
- **Jacques de Grace**—Normand-Maurice Building/Montreal, Quebec, Canada

## ASHRAE Technology Awards – Cont.

### Technology Awards Program



The purpose of the ASHRAE Technology Awards program is to:

1. Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
2. Communicate innovative systems designs to other ASHRAE members;
3. Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

Each year the Society may present awards in seven categories: Commercial Buildings (New and Existing); Institutional Buildings (New and Existing); Health Care Facilities (New and Existing); Industrial Facilities or Processes (New and Existing); Public Assembly (New and Existing); Residential (New and Existing); Alternative or Renewable Energy Use.

For each category a first, second, and honorable mention winner may be named. Also, one of the category first place winners may be selected to receive the ASHRAE Award of Engineering Excellence. The recipient will have demonstrated the best overall compliance with the judging criteria.



**ASHRAE**  
Advancing HVAC&R to serve humanity  
and promote a sustainable world

### Technology Awards Program



The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation. Their designs incorporate ASHRAE standards for effective energy management and IAQ. Performance is proven through one year's actual, verifiable operating data.

## Casino Night



Fort Worth ASHRAE held their Winter Party on Joe T Garcia's at the Old Church at Joe T Garcia's in Fort Worth. The members who attended were treated to wonderful Mexican food as well as a little charity gaming. ASHRAE members dealt craps, blackjack and Texas Hold 'em to a packed house. Our members and sponsors gave party-goers the opportunity to win prizes that ranged from iPod's to 42" LCD TV/DVD combo's, not to mention

a Coach purse or two. Thank you again to our sponsors who are listed below and all the members in attendance.



### Winter Party Sponsors:

Trane  
Mech Tech Sales  
Harold James, Inc  
Enviromatic Systems  
Texas AirSystems  
Johnson Controls, Inc  
Summit Consultants  
Carel  
Commercial Air Products  
Hidalgo Industrial  
Air Distribution Warehouse

## Grassroots Committee Reports

### Student Activities

On Saturday January 23<sup>rd</sup>, Fort Worth ASHRAE presented The Excellence in Use of Heating & Air Conditioning Concepts Award at the 2010 Future Cities Competition. This award went to the group of students who most effectively modeled the use of alternative energy sources. Team Insyah Allah from Decatur Middle School was this year's winner. Congratulations!

Thanks, [Matt Carter](#)

### Membership Promotion

We have a few prospects for new members. Two people have joined since the beginning of the year. And we have a happy hour planned for February 11 please plan on stopping by.

Thanks, [Brodie Heflin](#)

## News from Society

### ASHRAE Recognizes Outstanding HVAC&R Industry Achievements

ORLANDO – Forty-eight people were recognized by ASHRAE for their contributions to the Society and the building industry at the Society's 2010 Winter Conference held here Jan. 23-27.

The **ASHRAE Hall of Fame** honors deceased members of the Society who have made milestone contributions to the growth of HVAC&R technology. The Society inducts Presidential Member **William J. Collins Jr.**, ASHRAE Fellow, who dedicated over half a century to the HVAC&R industry, and **J. Donald Kroeker**, ASHRAE Fellow, a pioneer of heat pump applications, into the ASHRAE Hall of Fame. The **F. Paul Anderson Award**, ASHRAE's highest given for technical achievement, is awarded for notable achievement of outstanding services performed in the HVAC&R field. The recipient is **Gerald C. Groff**, Fellow ASHRAE, Life Member, principal, Groff Associates, Cazenovia, N.Y.

**Fellow ASHRAE** is a membership grade recognizes distinction in the arts and sciences of environmental technology and is earned through achievement as a researcher, designer, educator or engineering executive. The Society elevated 22 members to the grade of Fellow ASHRAE:

- Robert G. Baker, ASHRAE-Certified Operations and Performance Management Professional, chief executive officer, BBJ Environmental Solutions, Tampa, Fla.
- Darryl K. Boyce, P.Eng., assistant vice president, Facilities Management and Planning, Carleton University, Ottawa, Ontario, Canada.
- Michael R. Brambley, Ph.D., a staff scientist, Pacific Northwest National Laboratory, Richland, Wash.
- Michael J. Brandemuehl, Ph.D., P.E., a professor of civil, environmental and architectural engineering at the University of Colorado, Boulder, Colo.
- Donald J. Cleland, Ph.D., a professor of process engineering and head of the School of Engineering and Advanced Technology, Massey University, Palmerston North, New Zealand.
- Drury B. Crawley, Ph.D., commercial building team lead, U.S. Department of Energy, Washington, D.C.
- Charles J. Cromer, Ph.D., P.E., program director, Appliance Laboratory, Florida Solar Energy Center, Cocoa Beach, Fla.
- Abdel Hakim Elmahdy, Ph.D., P.Eng., Life Member, principal research officer, Institute for Research in Construction, National Research Council Canada, Ottawa, Ontario, Canada.
- Forrest B. Fencl, president, UV Resources, Santa Clarita, Calif.
- Daniel Fisher, Ph.D., P.E., a professor, School of Mechanical and Aerospace Engineering, Oklahoma State University, Stillwater, Okla.
- Lewis G. Harriman III, director of research, Mason-Grant Consulting, Portsmouth, N.H.

## News from Society – Cont.

- Glenn C. Hourahan, P.E., vice president of research and technology, the Air-Conditioning Contractors of America, Arlington, Va.
- Anthony M. Jacobi, Ph.D., the Kritzer Distinguished Professor, co-director of the Air Conditioning and Refrigeration Center, and associate head, the University of Illinois at Urbana-Champaign, Ill.
- Srinivas Katipamula, Ph.D., a staff scientist, Pacific Northwest National Laboratory, Richland, Wash.
- H. Ezzat Khalifa, Ph.D., NYSTAR Distinguished Professor of mechanical and aerospace engineering and director of the Star Center for Environmental Quality Systems, Syracuse University, N.Y.
- Essam E. Khalil, Ph.D., a professor of mechanical engineering, Cairo University, Cairo, Egypt.
- Mukesh K. Khattar, Ph.D., department head with Oracle, Redwood City, Calif.
- Carl N. Lawson, Life Member, a commissioning authority, Hanson Professional Services, Maitland, Fla.
- John Budi Harjanto Listijono, president and director of Pt. Metropolitan Bayutama and Pt. Metropolitan Bayu Industri, Jakarta, Indonesia.
- Kecha Thirakomen, P.E., managing director, EEC Engineering Network Co., Bangkok, Thailand.
- Marija Todorovic, Ph.D., a professor, University of Belgrade, Serbia, permanent guest professor, Southeast University of Nanjing, China, and director, Virtual Engineering and Art-Investment Vision.

The **ASHRAE Technology Awards** recognize outstanding achievements by members who have successfully applied innovative building designs, which incorporate ASHRAE standards for effective energy management and indoor air quality. Four projects received first-place ASHRAE Technology Awards:

- Michael Hedrick, Thomas Marseille, P.E., and Long Lam, Stantec Consulting, Seattle, Wash., in the new commercial buildings category for The Terry Thomas building in Seattle.
- Peter Rumsey, P.E., Fellow ASHRAE, Rumsey Engineers, Oakland, Calif., in the existing commercial buildings category for the IDEAs Design Facility, San Jose, Calif.
- Donald McLaughlan, P.E., Steven Maze and David Lavan, Elara Energy Services Inc., Hillside, Ill., in the new institutional buildings category for the Richard J. Klarchek Information Commons Building, Chicago, Ill.
- Martin Roy, P.Eng., Martin Roy et Associes, Deux-Montagnes, Quebec, Canada, in the new industrial facilities/processes category, for Sobey's Warehouse, Trois-Rivieres, Quebec, Canada.

The **ASHRAE Student Design Project Competition** challenged teams of students to create an integrated sustainable building design as well as select and design HVAC&R systems for a 15,650-square-foot office building. First place in HVAC System Design is awarded to Craig Allen, Brian Sybesma, Chan Kim, William Raschefsky and Elyse Widin, of California Polytechnic State University, San Luis Obispo, Ca. First place in HVAC System Selection is awarded to Kelly Griffith, James Newman, Phillip Podlasek and Darren Rottinghaus, of Kansas State University, Manhattan, Kan. First place in the integrated sustainable building design is awarded to Troy White, Edward Wood, Jaime Gonsalves and Ivan Fernandes of Seneca College of Applied Arts and Technology, Toronto, Ontario, Canada.

## News from Society – Cont.

The **Lou Flagg Historical Award** recognizes a chapter Gold Ribbon award winner for compiling information on outstanding historical projects or persons related to HVAC&R. The recipient is Roderic S. Potter, principal, Rodders CAS, Carp, Ontario, Canada.

The **John F. James International Award** is given to an ASHRAE member who has done the most to enhance the Society's international presence. The recipient is P Leo P. Stambaugh, Life Member, who resides in Dallas, Texas.

The **E.K. Campbell Award** honors outstanding achievements by engineering educators is presented by the ASHRAE Life Members Club. The recipient is Eckhard A. Groll, Ph.D., Fellow ASHRAE, a professor of mechanical engineering and director of the Office of Professional Practice, Purdue University, West Lafayette, Ind.

ASHRAE, founded in 1894, is an international organization of 50,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

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