

Student Activities Newsletter



A S H R A E

Students, Student Branch Advisors, Chapter Presidents, and Chapter Student Activities Chairs:

Welcome to the next edition of the ASHRAE Student Activities Newsletter! We hope the newsletter provides you with relevant SA material as it relates to student membership, chapters, and student branches.

We would also like to extend an opportunity for ASHRAE student members, student branch advisors and chapter student activities chairs, to submit material to our quarterly newsletter. Give us a chance to show off your great work!

Happy Holidays!

Sincerely,
Ashley Prueett
Manager of Student Activities
apruett@ashrae.org



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IMPORTANT REMINDERS!

Pre-Registration for the Winter Meeting

Ends December 2, 2005!

Senior Undergraduate Project Grants Applications

Due on December 1, 2005! Late entries will not be accepted! Electronic submissions only!

Scholarship Applications for Engineering Students

Due on December 1, 2005!

Grant-in-Aid Applications

Due on December 15, 2005.

Student Design Project Competition Entries

Due to the local chapter by May 5, 2006!

Student Branch Status Reports

Due to HQ no later than May 31, 2006!



ASHRAE Winter Meeting Updates (too hot!)



THE ASHRAE WINTER MEETING WILL BE HELD IN CHICAGO, ILLINOIS, JANUARY 21 - 25, 2006, AT THE PALMER HOUSE HILTON.

PRE-REGISTRATION FOR THE MEETING CLOSES ON DECEMBER 2, 2005. REMEMBER, STUDENTS CAN REGISTER FOR THE MEETING FREE OF CHARGE!

THE SCHEDULED STUDENT EVENTS ARE:

SATURDAY, 1/21

NEW EVENT!

Cool Tools for Building Performance

8:00 a.m. - 3:00 p.m.

6 PDHs / 6 CEUs or 6 AIA LUS

LIMITED TO 24 PARTICIPANTS!

\$35 ASHRAE student members, \$55 non-members

This workshop will provide an intensive, hands-on experience with the post occupancy evaluation of building environments. This is a "doing" workshop (not a "listening" seminar) that will take participants step-by-step through the development of a case study of building system performance – including selecting an area of study, establishing a methodology, using appropriate instrumentation, analyzing data, and presenting findings. The techniques to be addressed are directly applicable to building commissioning efforts and green building design practice – as well as to day-to-day design projects.

NEW EVENT!

YEA/Student Welcome Reception

5:30 p.m. - 6:30 p.m.

Come out for a welcome reception to the ASHRAE Winter Meeting! This event will offer light refreshments, meeting information for students and young professionals, networking opportunities and more! See you there! **NO CHARGE**

SUNDAY, 1/22

Student Breakfast

7:30 a.m. - 8:30 a.m.

NO CHARGE

Student Program

8:30 a.m. - 11:30 a.m.

LUNCH BREAK (11:30 a.m.—12:30 p.m.)

12:30 p.m. - 2:00 p.m.

This year's student breakfast and program will include an address from ASHRAE President, Mr. Lee Burgett, presentation of winners and poster presentations from the 2005 Student Design Competition, a career panel, student branch presentations, and more! We'll see you there in your school colors! **NO CHARGE.**

Student Technical Tour

2:00 p.m. - 5:00 p.m.

\$15 for ASHRAE student members

More information to come!

MONDAY, 1/23

AHR EXPO - The HVAC&R Industry show

Learn about new products and the most innovative technology by attending the Expo, the world's largest event for HVAC&R. You also can ask questions of company representatives.

The 2006 AHR Expo will be held in the North & South Buildings of the McCormick Place Convention Center, Chicago, Illinois. Discover the latest in: • Green Building Technology • Indoor Air Quality • Energy Efficiency • Building Automation & Control • Industry Standards • Networking and Systems Integration • Business Solutions • And much more

The Expo is free to those registered for the meeting! You can also visit the Expo on Tuesday or Wednesday!

10 REASONS TO DO AT THE WINTER MEETING IN CHICAGO!

1. STUDENT PDS (COOL TOOLS)
2. PLENARY
3. STUDENT BREAKFAST
4. STUDENT TECHNICAL TOUR
5. STUDENT MIXER
6. TECHNICAL SESSIONS
7. COMMITTEE MEETINGS
8. PUBLIC SESSIONS
9. AHR EXPO
10. SNOW

REGISTER ONLINE AT THE ASHRAE WEBSITE! (CLICK HERE)



What's New in Student Activities?

Find Your Dream Job in ASHRAE, which helps students with getting involved, writing resumes and cover letters, interview tips, job transition skills, and continued leadership development after college.

We have five copies available for loan only of a great DVD called *Serving the Needs of Mankind: A History of Refrigeration*.

"Serving the Needs of Mankind" is a video prepared for the XXIst International Congress of Refrigeration held in Washington D.C. in September, 2003. One segment of the video was shown each morning at the plenary sessions. The video highlights the contributions made to society by refrigeration and air conditioning science and technology over the course of history, from prehistoric times to the present.

Each segment covers a specific

period of history and the refrigeration and air conditioning developments and applications of that period. These segments are: **Pre-history to 1860: The Era of Discovery and Exploration**, **1860-1914: Innovation and Global Development**, **1914-1945: Responding to Societal Needs**, **1945-1973: Addressing New Technological Frontiers**, **1973 to Present: Awakening to Environmental and Geopolitical Challenges**. Each segment is approximately 6 minutes long; when played continuously the entire video is under 40 minutes long.

This DVD would be great for college students interested in HVACR!

Click here for more information about our available SA resources and for the online request form!

As many of you already know, we have a Student Activities Resources Request program on the Student Zone website. This program is for any ASHRAE Student Activities constituent to request materials for SA programs. We have created a brand new site for requesting resources and you must see it!

We have more great news! We have updated one of our favorite brochures, **Career Profiles** in HVACR.

We also have a new brochure called

Student Night with the Central Florida Chapter!

By Jason Alphonso, Central Florida Chapter Student Activities Chair

November's Central Florida's meeting featured the UCF Student Branch of ASHRAE. The student branch officers, Megan Tosh, Ben Walton, and Sophia Wells spoke on behalf of the student chapter, discussing the goals of the student branch and introducing the two project teams participating in this year's HVAC System Design and Selection Competitions. Many other students from the UCF Student Branch were also in attendance. The Central Florida chapter dedicates one special night, (called "Students night") in the year to student activities. The members truly enjoyed having the students attend their meeting. For the students it was a night of great food, great fun and lots of learning. Larry Stoff, Region XII Student Activities Chair graced the special night with his attendance.



The YEA Connection! (What the heck is that?)

YEA Connection is specifically targeted at young ASHRAE members who wish to receive regular communication of interest to young people and who wish to network and communicate with one another. It will offer a monthly newsletter, a one-time free logo item, listserv, and information and updates on special events as they occur. It's a great opportunity to stay abreast of Society news and events and network with young professionals around the world.

Who qualifies to be in the YEA Connection? All members age 30 and under with the following member grades:

- Member
- Associate Member
- Student Transfer
- Affiliate Member

To subscribe to the YEA Connection, please send an email to youngengineers@ashrae.org with the following information:

- Subject line: Subscribe to YEA Connection
- Message body:
 - Your name
 - Your member number
 - Your physical mailing address (if outside of the U.S., please include a phone number for this mailing address)
 - Your active email address

SIGN UP TODAY!





Student Activities

The American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

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MISSION STATEMENT:

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public and ASHRAE members.

VISION STATEMENT:

ASHRAE

-Will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.

-Will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.

-Will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

ASHRAE Memphis Chapter Hosts Successful Student Event



The second annual FedEx Forum joint technical tour with our collegiate members was conducted November 9. The Forum is home to the NBA's Memphis Grizzlies. Mr. Howard Parker, Director of Engineering & Energy Services, did another outstanding job showcasing the inner workings of the huge facility. It was the first chance for many of these students to see a hands-on demonstration of industrial sized mechanical systems.

2005 Solar Decathlon

ASHRAE Provides Networking Opportunity for Solar Decathlon Participants By Jodi Dunlop, ASHRAE Insights

WASHINGTON, D.C. - Energy efficiency, sustainability and ASHRAE were highlighted in the 2006 Solar Decathlon held in October.

The annual competition brings together architecture, design and technology to demonstrate the ways that people can produce and use energy more efficiently in their homes. The 18 teams from colleges and universities around the world construct a solar village on the National Mall in Washington, D.C. Teams are judged in architecture, dwelling, documentation, communications, comfort zone, appliances, hot water, lighting, energy balance and transportation.

As part of the activities surrounding the event, ASHRAE hosted a reception attended by more than 300 students. Terry Townsend, ASHRAE president-elect, spoke to students about sustainability, while Larry Sun, chair of ASHRAE's Young Engineers at ASHRAE Subcommittee, shared stories from his career in HVAC&R. Numerous ASHRAE members took part, including members from the National Capital and Baltimore Chapters.

"With some 300 students there who are interested in the technology of ASHRAE, especially the integration of systems into a facility that must work in an efficient and effective manner, the reception provided a perfect opportunity to highlight the Society's work," Townsend said. "My message was that ASHRAE isn't just about black boxes that condition a facility or provide refrigeration for processes but rather ASHRAE is the technology of the efficient, healthy and comfortable built-environment. The principles they integrated into their design

efforts are from ASHRAE. The guidance for proper IAQ and comfort within the houses comes from ASHRAE. The integration and control of the various thermal systems demonstrated in the houses is via ASHRAE technology and application principles. The ability to provide a successful alternative-based living environment requires an understanding and proper application of ASHRAE HVAC&R fundamentals."

Many ASHRAE student members participated in the decathlon. The Engineering Panel judging team included Townsend and ASHRAE members John Mitchell and Steve Emmerich. The winning team was from the University of Colorado at Boulder. Mike Brandemuehl, advisor of the University's ASHRAE student branch, served as faculty advisor for the team.

The team focused on five goals in building their home - using natural materials, innovation,

energy efficiency, modularity, and accessibility. The team also won in 2002.

"Our 2002 goal was to create an energy-efficient solar home that would fit right into an American suburb, so it was a little bit conventional," Brandemuehl said. "In 2005, students are using more innovative materials and solar technologies to create a modular home for the future."

An online photo album of some great photos we took at the Solar Decathlon is available on the ASHRAE Student Zone. [Just click here!](#)

"I think the Solar Decathlon was integral in my education as an architectural engineering master's student at the University of Texas at Austin," Paul Havens, ASHRAE student member, said. "My responsibilities in the engineering of the HVAC and renewable energy systems for the UT SolarD Snap House paralleled well with the kind of class work and research I was doing. I hope other students pursuing the same kind of engineering knowledge will take advantage of the Solar Decathlon project as a true hands-on research experience. Some of the great opportunities include working with professors and students from architecture and engineering and having the chance to interact with vendors with cutting edge technologies. Often time the relationship with a vendor includes a motivating relationship on both the student and business, working out a donation and getting enthusiastic support. I feel that a lot of the ASHRAE standards and materials and research helped hone the design of the engineering systems of the UT SolarD Snap House. We were building our small project by 'standing on the shoulders of giants' (taken from a letter written by Isaac Newton to fellow scientist Robert Hooke in 1676) in ASHRAE."



Students from the Universidad Politecnica de Madrid having fun at the ASHRAE reception!