CHAPTER OFFICERS

President
Jake Garcia
jgarcia@lhairco.com

President Elect
Dean Schouweiler
deans@aircomech.com

Secretary
Karl Rapp
krapp@calhydro.com

Treasurer
Kyle Deane
kydeane@ragingwire.com

COMMITTEE

STUDENTS ACTIVITIES CHAIR
Kevin Baldwin
kevin@mcbreznor.com

TECHNOLOGIES TRANSFER CHAIR
Anthony Gagliardi
anthonyg@fmbdbc.com

MEMBERSHIP PROMOTION CHAIR
Bill Carmody
bill@lhairco.com

RESEARCH PROMOTION CHAIR
Kevin Stillman
kstillman@capital-engineering.com

YOUNG ENGINEERS IN ASHRAE (YEA) CHAIR
Adam Davis
adavis@capital-engineering.com

HISTORIAN
Sergio Rodriguez
srodriguez@kitchelltt.com

WEBMASTER
Michael Hamaker
mhamaker@airtreatment.com

PRESIDENT’S MESSAGE
By Jake Garcia

Hello Everyone:

Our year is off to a great start! Our first fundraiser was an enormous success and our first technical meeting was well received. John Lau’s presentation, earlier this month, on Ice Thermal Storage was informative and came at an ideal time. With utility rates on the rise, we as the HVAC community need to stay abreast of the various technologies and strategies available to maximize system efficiencies. Mr. Lau’s message struck a chord with many members as this meeting attendance was well above our historical average.

Adding to the success of our meeting was Air Treatment’s generosity. They were kind enough to provide us with great raffle prize offerings that left all the winners smiling and the not so lucky eager to move on to the marble game. Anxious to adjourn the meeting I forgot to play the marble game. I apologize for my haste and I will make it up to each and every one of you if you attend our January meeting. If you show up to January meeting, I assure that everyone who purchases raffle tickets will have an opportunity to win.

As a chapter, we are responsible for many projects that are innovative and noteworthy. In an effort to recognize these projects, ASHRAE hands out Technology Awards that “recognize outstanding achievement in the design and operation of energy-efficient buildings.” I am pleased to announce that Guttmann & Blaevoet’s, Sacramento office, are a Second Place winner of an ASHRAE Technology Award in the Other Institutional – New Category for the Segundo Students Services Center project in Davis, CA and will be featured in the March 2013 issue of the ASHRAE Journal. I applaud Abdel Darwich’s team’s effort for pursing and succeeding in this endeavor.

As a chapter member you have a voice. If you have a project that you would like to submit to ASHRAE for a Technology Award let your board know. Contact our Technologies Transfer Chair Anthony Gagliardi or me for details.

Looking forward to December, the venue and menu have been set. On December 5, we will be holding our seasonal guest night. Be sure to join us for a dining experience that, with out a doubt, is guaranteed to be a highpoint of the year. We will be gathering at the Red Rabbit Kitchen & Bar in mid-town (see further in the newsletter for details). This is the perfect time to bring a guest to ASHRAE. The seating for this event is limited and RSVP’s are required.

See you all soon.

[Signature]
DON’T MISS OUR DECEMBER GUEST NIGHT!

December Dinner

The board members for the Sacramento Valley ASHRAE chapter cordially invite you and a guest to join us for a Wednesday night out. We recognize that mixing business with pleasure is a recipe for success and this event will be nothing but pleasure. We will be enjoying a specially prepared dinner menu with wine pairing. The architect of our culinary experience is Chef Jon Bays with The Red Rabbit Kitchen & Bar. Event details below:

When: December 5, 2012
Check-in starts at 5:00PM
Appetizers will be served at 6:00PM

Where: The Red Rabbit Kitchen & Bar
2718 J St
Sacramento, CA 95816

Menu: See following page

Cost: $80.00 per person

Reservation: The seating for this event is limited with reservations and pre-payment required 1 week in advance. RSVP to Jake Garcia at jgarcia@lhairco.com and include number in party and names of individuals. Your reservation will be completed upon received payment. An email will be sent to the primary contact confirming reservation.

Payment: Checks can be made out to “Sacramento ASHRAE” and mailed to:
L&H Airco
Attention: Jake Garcia
2530 Warren Dr
Rocklin, CA 95677

To pay with credit card:
1) Go to paypal.com
2) From the “Send Money” drop down, select “Send Money Online”
3) Enter “sacashrae@yahoo.com” as sent to
4) Under Notes: Enter “Wine Pairing Dinner” and “Your Name”
5) Send email notification to jgarcia@lhairco.com indicating Paypal payment
Appetizers

Beet Involtinis
Roasted Yolo Beets with Goat Cheese and White Balsamic Gastrique

Polenta Squares
Butternut Squash and White Polenta Squares, Brie Cheese, Wild Mushrooms, Red Onion Confit

Assorted Fruit and Cheese

Salad

Del Rio Mixed Greens
Del Rio Greens, Pomegranates, Point Reyes Bleu Cheese, Candied Walnuts, Pear Vinaigrette
Pairing: N’Oak Chardonnay

Entrée
(Please Choose One)

Niman Ranch Pork Chop
Rosemary Balsamic Marinated Pork Chops, Apple Chutney, Cranberry Bean Cassoulet, Grilled Romanesque
Pairing: Wild Horse Pinot

Or-

Herb Marinated Airline Chicken
Airline Chicken with Wild Mushroom Demi, Celery Root Mashed, Broccolini
Pairing: Berryessa Gap Tempranillo

Dessert

Candy Bar Pie For Two
Pairing: Tawny Port
2012-2013 EVENTS
MARK YOUR CALENDARS!

November 7, 2012
Thermal Energy Storage by BAC

December 5, 2012
Guest Night Dinner at the Red Rabbit

January 9, 2012
HVAC Systems Design for Airborne Infection Control Spaces in Healthcare Facilities by Wei Sun (DL)

February 6, 2012
Geosource Chillers/Heat Recovery Chillers by Multistack

March 6, 2012
Designing Air Handlers for IBC and OSHPD by Governair

April 3, 2012
OSHPD State of the State by Chris Tokas

EVENT PRICING:

$35 MEMBERS
$40 NON-MEMBERS
$5 STUDENTS

EVENT PAYMENT:

- Payment can be cash or check day of the event
  » Make Checks Payable to “Sac Valley ASHRAE”
- Payment can be made by credit card in advance using PayPal
  » Go to www.paypal.com
  » From the “Send Money” drop down, select “Send Money Online” and enter the following fields:
    - Enter sacashrae@yahoo.com as sent to
    - Under Notes: Enter “Month ASHRAE Dinner and Your Name”
    - Send email notifications to Jake Garcia (jgarcia@lhairco.com) and Kyle Deane (kydeane@ragingwire.com) with payment and note indicating payment by paypal.

WITH THE EXCEPTION OF OUR DECEMBER DINNER, ALL EVENTS WILL TAKE PLACE AT CATTLEMENS LOCATED AT:
12409 FOLSOM BLVD
RANCHO CORDOVA, 95670

November 7, 2012
Thermal Energy Storage by BAC

December 5, 2012
Guest Night Dinner at the Red Rabbit

January 9, 2012
HVAC Systems Design for Airborne Infection Control Spaces in Healthcare Facilities by Wei Sun (DL)

February 6, 2012
Geosource Chillers/Heat Recovery Chillers by Multistack

March 6, 2012
Designing Air Handlers for IBC and OSHPD by Governair

April 3, 2012
OSHPD State of the State by Chris Tokas

EVENT PRICING:

$35 MEMBERS
$40 NON-MEMBERS
$5 STUDENTS

EVENT PAYMENT:

- Payment can be cash or check day of the event
  » Make Checks Payable to “Sac Valley ASHRAE”
- Payment can be made by credit card in advance using PayPal
  » Go to www.paypal.com
  » From the “Send Money” drop down, select “Send Money Online” and enter the following fields:
    - Enter sacashrae@yahoo.com as sent to
    - Under Notes: Enter “Month ASHRAE Dinner and Your Name”
    - Send email notifications to Jake Garcia (jgarcia@lhairco.com) and Kyle Deane (kydeane@ragingwire.com) with payment and note indicating payment by paypal.
BECOME A MEMBER

ASHRAE MISSION
To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

WHY JOIN?
ASHRAE members bring the world of ours together through the exchange of technical information, writing of standards and through committee work and networking. When you join ASHRAE, you are making an investment in yourself. When you become active in the Society by giving your time and sharing your knowledge, you get even more out of that investment.

THE BENEFITS OF MEMBERSHIP
• ASHRAE Handbook – this reference manual is the most widely cited reference for HVAC&R technology in the world. Each year one of the four volume Handbooks is updated and delivered to members to add to their library and knowledge base.

• ASHRAE Journal – a monthly magazine that brings current trends and information to your desk in your choice of print or digital format.

• ASHRAE E-newsletter – delivered to your desk in print and digital form, these publication help you keep on top of what is going on in the Society and the industry, all over the world.

• Discounts – on ASHRAE publications – ASHRAE members earn 15% off publications through the ASHRAE website at www.ashrae.org/bookstore. More than 300 titles are available including the ASHRAE standards.

• Chapter Meetings – ASHRAE chapters convene for an informational program featuring speakers and topics key to professionals in the industry. Also, an excellent opportunity to network with your peers.

• Become an Industry Leader - Develop leadership skills, work with and lead ASHRAE committee members, and network with industry professionals at ASHRAE chapter, region, and society meetings.

• Advance your Career - Look for employees & employment at ashraejobs.com and network with other HVAC&R professionals at ASHRAE meetings, participate in job postings, maintain your professional education and designation with 40+ courses, earning CEUs/PDHs/AIA LUs, and explore technical topics at ASHRAE chapter, region and society meetings.

• Protect Yourself Through Insurance - If you’re in the market for insurance, keep in mind that ASHRAE members have access to a variety of plans through March U.S. Consumer.
ASHRAE provides essential resources for sustainable design, construction and operation of buildings. We are the world’s leader of the built environment technologies.

Through your knowledge and understanding of the industry, we can continue to expand our sustainability efforts, increase the stringency of industry standards and develop technology that enables high performance for the life of a building.

With more than 52,000 members from over 125 nations, ASHRAE is a diverse organization representing building system design professionals around the world.

**Member Benefits and Resources**

**Publications & Resources**
- The ASHRAE Handbook – the industry-wide resource for all HVAC&R professionals. (Available to Members and Associate Members.)
- ASHRAE Journal – the most trusted monthly technical magazine in the HVAC&R community.
- HPB magazine – quarterly magazine focusing on the benefits of innovative technologies and energy-efficient design and operation. A digital subscription is available to members.
- eSociety – a monthly electronic news resource from ASHRAE about its activities and members.
- Access to the members-only resource website.
- New members have access to the ASHRAE Handbook series with a complimentary 12-month subscription to ASHRAE Handbook Online, which allows search of all four volumes in I-P and SI units. (You can renew this subscription for only $49 at the end of your first year of membership.) This offer applies to first-time Associate Members and Members joining on or after July 1, 2011.

**Professional Education and Career Development**
- Maximize your knowledge by taking courses from the ASHRAE Learning Institute (ALI).
- Earn PDHs / CEUs / AIA LUs to maintain your certification/license with courses, seminars and webcasts.
- Demonstrate your knowledge and experience by earning an ASHRAE certification.
- Build communication and management skills by participating in a technical program or serving on a technical committee.
- Post jobs or seek employment utilizing ASHRAEJobs.com.

**Networking**
- Meet with industry experts and colleagues at chapter, region and Society conferences.
- Connect locally, regionally and internationally with over 175 chapters worldwide.
- Learn, share and grow at the ASHRAE Annual & Winter Conferences, and the AHR Expo at the ASHRAE Winter Conference.

**Member Discounts**
- On education courses and certification applications.
- On registration at ASHRAE conferences.
- Access to and discount on more than 300 of the industry’s leading technical publications.

**Membership**
- Members are represented by consulting engineers, mechanical contractors, building owners, employees of manufacturing companies, educational institutions, research organizations, government, architects, students or anyone concerned with HVAC&R for the built environment.

**What Member Type is Right for You?**
ASHRAE has three grades of membership awarded to applicants based on their experience and participation in the industry.

**Member ($190 US)**
Available to anyone with 12 years or more ASHRAE-approved experience in the HVAC&R industry.

**Associate Member ($190 US)**
Available to anyone with less than 12 years of ASHRAE-approved experience in the HVAC&R industry.

**Affiliate Member ($50 US/first year, $70 US/second year, $90 US/third year)**
Affiliate grade is perfect for individuals who are new to ASHRAE (not previous Student or Associate members) who are age 30 or younger. It provides a great beginning for young professionals who wish to become involved in ASHRAE. Affiliate grade does not include the annual member benefit of the ASHRAE Handbook.

**Before you apply and select a member grade, we encourage you to visit the ASHRAE website at: www.ashrae.org/membership to see the member grades and their corresponding member benefits.**

Join ASHRAE today. Save time, join online.

www.ashrae.org

ASHRAE
1791 Tullie Circle NE, Atlanta, GA 30329 • Phone: 1-800-527-4723 (U.S and Canada) • 404-636-8400 (world-wide) • Fax: 678-539-2129
We recognize our future success as a society is driven by students of today. Without the future leaders of the HVAC&R industry, we at ASHRAE wouldn’t be able to do what we do. In an effort to encourage student involvement, reward academic success and help reduce the financial burdens of obtaining an engineering education we are pleased to announce that we are offering two $500.00 scholarships. Additional scholarships may be awarded as funds are available. Applications must be submitted no later than March 18, 2013.

**AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS**

**SCHOLARSHIP APPLICATION FORM**

Name: ____________________________________________________________
Address: __________________________________________________________
City, State, Zip Code: ________________________________________________
Phone: (_______) _________________________________________________
Email: ____________________________________________________________
School Attending: __________________________________________________
Major: _____________________________________________________________
Units to Date: _______________________________________________________
Major GPA: ___________________     Cumulative GPA: ____________________

**ASHRAE STUDENT MEMBERSHIP NUMBER:** ____________________________

If you are currently applying for student membership please attach a copy of your membership application.

**ATTACHMENTS REQUIRED:**

1. **RESUME**
2. **PERSONAL STATEMENT** which should include information on your background, goals, community activities, intentions upon completion of the degree, financial needs (i.e.; size of household, are you responsible for financing your own education, do you live independently), and any material that supports your application. (500 words or less.)
3. **MOST RECENT TRANSCRIPT**
4. **TWO LETTERS OF RECOMMENDATION**

**APPLICATION DEADLINE:** March 18, 2013

**RETURN APPLICATION MATERIALS TO:**

Attn: Kevin Baldwin  
McClintock & Bustad  
3144 Java Court | West Sacramento, CA 95691
STUDENTS

Here is an opportunity you may be interested in pursuing.

SMUD’s Energy & Technology Center (E&TC) offers educational programs to its customers on energy efficiency and current industry technology. The E&TC offers technical trainings on subjects such as lighting, HVAC, architecture/construction, whole building performance, and building science. Most of the classes are at “no cost”. See the current schedule and class descriptions at www.smud.org/etc. Register online or call (916) 732-6738.

ADVERTISING SPACE!!

ADVERTISEMENT SPACE IS LIMITED SO ACT NOW!

COST:
Full Page: $100/month or $400/year
1/2 Page: $75/month or $300/year
1/4 Page: $50/month or $200/year
Business Card: $50/month or $200/year

Email: Jake Garcia at jgarcia@lhairco.com for more information.
The ASHRAE Research Strategic Plan for 2010-2015 consists of 11 strategic goals that were chosen to address technical challenges that limit our ability to maximize building performance, energy efficiency and indoor environmental quality while minimizing our impact on the environment. Meeting any of the 11 strategic goals will require coordinated effort among multiple technical committees.

Please help the Sacramento Valley Chapter achieve our 2012-2013 goals and contribute today. Every dollar donated to research is used toward research goals.

You can make a difference.

Donations can be completed online at: https://xp20.ashrae.org/secure/researchpromotion/rp.html

This is found at www.ashrae.org. From the ASHRAE home page, click on Standards, Research & Technology, click on Research, click on Research Promotion and click Online Contribution Form.

Note: In the “Assigned ASHRAE Chapter” box please enter Sacramento Valley, Region X.

Donations can be submitted along with completed form to:

ASHRAE Research
c/o Capital Engineering
Attn: Kevin Stillman
11020 Sun Center Drive, Suite 100
Rancho Cordova, CA 95670
UP TO 80% ENERGY SAVINGS
NO SYNTHETIC REFRIGERANTS
NO ADDED MOISTURE

The breakthrough technology that’ll change things forever. It’s a new class of air conditioning system and it’s in a class by itself. Climate Wizard, distributed by L&H Airco, is the innovation revolution in cooling technology.

This new type of cooling is unlike anything the world has seen before. It’s cooling the hottest climates in the world and radically reducing energy usage. It’s changing the way the world looks at air conditioning.

Climate Wizard delivers an innovative cooling solution with a high-performance, indirect evaporative air conditioner. Climate Wizard’s cooling performance rivals that of refrigerated systems which use 80% more energy with compressors that rely on synthetic refrigerants. Climate Wizard’s patented technology only uses water and the natural cooling properties of evaporation, all without adding or removing any moisture to the air.

The introduction of this breakthrough technology is the right product at the right time. Most California utilities are moving small and medium business customers to a Time-Varying Pricing electric rate structure. This means higher electric rates during summer weekdays from noon to 6 p.m. When you use energy is becoming just as important as how much energy you use. Climate Wizard is a more cost effective and energy efficient cooling solution than traditional air conditioning systems.

Climate Wizard is more than an excellent way to reduce power bills. It’s also great for the environment. No matter how hot it gets outside, Climate Wizard uses the same amount of energy and still delivers amazingly cool air inside. Its integrated water management system optimizes water usage, has built-in chlorination, and reduces pump energy. You need to experience this amazing technology in action. You have to see it to believe it!

Contact L&H Airco today for a live, working demonstration at your facility. John Harris or Bill Carmody 916-677-1000 www.lhairco.com

Cold Front Cooling
- Pre-cools the fresh air component of refrigerated systems
- Applies to existing and new installations of refrigerated systems or central plant rooms

Supplementary Cooling
- Enhances cooling of existing refrigerated systems with independent supply of cooled fresh air
- Particular application in installations with split systems

Stand Alone Cooling
- Delivers all cooling required
- Can be used with in-line gas heating