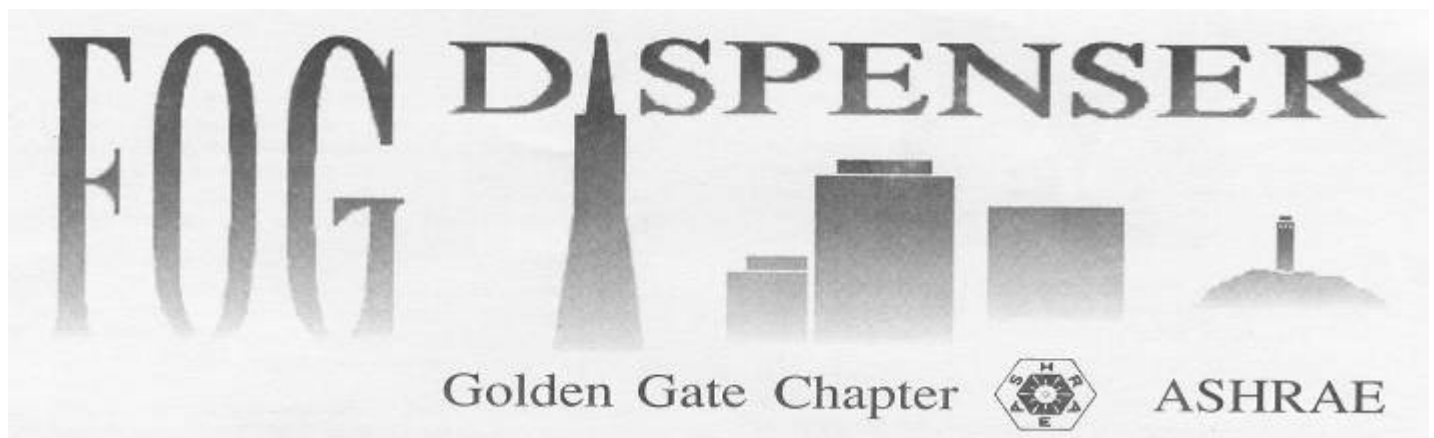




VOLUME XLVIII - NUMBER 7

April 2010

April 2010 Tour

Date: Tuesday, April 20 2010

Place: The Pyramid Center; 600 Montgomery; San Francisco, CA 94111

Morning Tour

10:45 am Meet in Lobby and handle security

11:00 am - 12:30 pm Tour 1 preceded by lunch and short presentation

Afternoon Tour

12:45 pm Meet in Lobby and handle security

1:00 pm - 2:30 pm Tour 2 preceded by lunch and short presentation

When you register indicate morning or afternoon session, or no preference. These tours will have more applicants than spaces available, as we are limited to 25 per tour. Only those pre-registered will be admitted. We must advise the facility the attendees in advance. If you are accepted and then find that you cannot go, we ask that you please let us know, so we can allot your space to one on the waiting list.

Meet in the lobby. Security will require a photo ID and the clearance process will take 10-15 minutes. Please plan accordingly. Each tour will include a pre-tour technical session, to be held in the 48th floor conference room, with lunch, sandwiches & salads; followed by a walk-through of the facility.

NOTE: Space is limited. Reservations will be accepted on a first-come first served basis. You must be a member of the Golden Gate Chapter of ASHRAE to attend.

Cost: \$20

Main Presentation:

The Pyramid Center Tour

Transamerica Pyramid has achieved LEED Gold Certification. The iconic Transamerica Pyramid building now generates 70 percent of the 1.88 megawatts of electricity it uses daily, and it recycles or composts 70 percent of its waste products. A water-use reduction program has cut water consumption by overall. These environmental upgrades reduced their utility bills by 30 percent and will generate savings of about \$600,000 annually. About \$5 million of private capital was spent on Transamerica Pyramid's environmental upgrades during the past 10 years. The cogen uses natural gas to generate electricity and the waste heat from this process is captured to generate hot & cold (through an absorption chiller) water for use in warming the domestic water, and heating and cooling the building.

The Transamerica Pyramid was designed by William Pereira & Associates to be part architectural masterpiece and part environmental practicality, as the unique pyramid shape was chosen to allow natural light and fresh air to filter down to the streets below. Construction was completed and first occupancy commenced in the summer of 1972. For the next two years, the 853-foot-high Pyramid (260 meters) was the tallest building in the United States west of the Mississippi River. It remains Northern California's tallest building.

Speakers: Doug Peterson, Chief Building Engineer
John Oldham, Oldham Engineering
Hratch Krikorian, Anderson Rowe & Buckley
Amit Wadhwa; Amit Wadhwa and Assoc.

There is no April chapter dinner meeting.

Golden Gate Chapter President's Message



Making a difference through philanthropy

Dear Golden Gate ASHRAE Members and friends,

Happy April to you and your family, The Golden Gate Chapter hopes this edition of the Fog Dispenser finds you well.

This month, I would like to share with you some recent news. As you may know, in 1990 one of our members had a tragic accident in The City. Eric Thor Andresen, an employee of Glumac, died in a traffic accident while riding his motorcycle. In memorial, his family created a Scholarship Fund through the Golden Gate Chapter. Some of you were at Glumac at the time; I started around 3 years after this tragedy and I still remember that Mr. Glumac would always make an announcement over the office P.A. on the anniversary of the accident.

Through the Andresen's generosity, the Golden Gate Chapter has given out dozens of Scholarships through the [Eric Thor Andresen Memorial Scholarship Fund \(ETAMSF\)](#) to engineering students the sciences of the HVAC industry. April marks the 20th anniversary of Eric's passing.

It's also the month that I have to share with you that Eric's father, Mr. Flemming Andresen, died September 2009 in Denmark. The Golden Gate Chapter is saddened to hear of this loss. Mr. Andresen wanted to make sure that the memorial for his son Eric was kept alive. The Andresen estate has left seventeen percent (17%) of the estate to the Golden Gate Chapter ASHRAE Eric Thor Andresen Memorial Scholarship Fund. The fund will soon grow to approximately 4.5 times its current size.

Golden Gate Members, in this dark time due to the loss of a good friend of our Chapter and Society, this news is tremendous. This will transcend all of our lives. The donation to our Scholarship Fund will practically guarantee that the Golden Gate Chapter will give to students into perpetuity. This is a very big opportunity for us to continue to make a difference. If you have not noticed yet, that is my Presidential theme and my philosophy in life. Making a difference is what it's all about. The Andresen gift to our scholarship fund will assure that Golden Gate ASHRAE will continue making a difference in the lives of students for generations to come.

Golden Gate Members and particularly those that have served and have helped with the ETAMSF over the years: we have a lot to be proud of. This gift from the Andresen Family is a testimony to the dedication that we as members have demonstrated. The Golden Gate Chapter is a premier group, and I am very proud to be your President in these compelling times.

The Chapter and Board have organized a Chapter Foundation Formulation Committee that consists of the Board and a few Past Presidents. This Committee is working on how to proceed with the new funds, because even before this event, we were mandated to either move our funds for scholarships to the ASHRAE Society Foundation or create our own Foundation and move our funds there. In the next few weeks, this committee will be making arrangements to address this.

As always, please accept my invitation to get involved with the Golden Gate Chapter and ASHRAE, we need your participation.

Best Regards,
Scott Wayland,
Golden Gate ASHRAE 2009/2010 President
Region X Technology Transfer (CTTC) RVC

Historian – Actions NOW!....they'll be Historic later!

Tom Gilbertson – Chapter Historian

Who would ever have thought that something you could have done...would someday be considered “historic”

Lets be clear...”Historic” really just means that it happened some time ago.....so what did you do?...or maybe the question is “What could you have done...some time ago....that would have made difference in your life today?

Lots of items can be covered, but lets stick to ASHRAE-related subjects...

(I do think that buying shares of IBM in 1948...would have been a good idea...and buying those two-40-acre plots of cut-over Wisconsin-timber land in 1958...for \$200.00 each...would have been a good idea...but I didn't execute them either.)

So...what about “solar energy”?...Why aren't you installing a solar/photovoltaic system today...to reap the advantages later on from your investment, what will then be considered... “Historic”...action?

If I understand the “solar-financial” implications...you will receive a substantial tax credit for your investment and a monthly reduction in your electric bill, and probably a discount as an inducement to “buy” the system. So why aren't you installing a solar/photovoltaic system?

What is keeping you from making an investment, which by all of the calculations that are offered, generally pays for the system in 10 to 12 years?

It seems to me that the financial calculations neglect to consider the residual value that your...(in “10- to 12 years)...then “historic action” has, and would have earned for you.

Surely the unit cost of electricity will have increased in 10 years...and you would be receiving a monthly “decrease” in your necessary expenses...**AND**...here is a “catch” that just might be over-looked...that “decrease” in your necessary expense is not taxable!...as it would not have been for the 10 to 12 years that it took you to pay off the installation costs.

Now this may be simplistic reasoning...and it does not apply to “business” investment...but for personal activity, a decrease in expenses...(lets call that a “responsible energy savings”)...is not taxed!...In other words, if you “saved” \$100.00 per month...this is about the same effect as having made \$140.00 per month...upon which you first had to pay taxes.

So...perhaps the “historic” activity of installing an “energy saving” system of some sort...(solar/photovoltaic, solar water heating, wind-power, or improved insulation as in “Insulated-Concrete-Forms”, etc...) has an economic aspect that is underrated?...Oh, and don't forget that your taxes...(historic, for last year)...are due this month...April 15th.

Chapter Technology Transfer Committee (CTTC)

Tyler Bradshaw, ASHRAE Golden Gate CTT Committee Chair

2010/2011 Technology Awards are in

Thanks to all who submitted a project for this year's competition. All projects are currently in the judging process by the chapter's board. Results will be announced during the awards ceremony at the May chapter meeting.

The Golden Gate chapter flexed its "technical muscle" with a very strong showing at the national level for last year's national competition with a total of 5 projects making it to the national competition including one first place and two second place results. Refer to the special Technology Awards section in your March 2010 ASHRAE Journal on pages 56-70 for more details about all of the great projects submitted from other chapters across the country.

If you missed this year's submission deadline, it's not too late to start working on your 2010/2011 application.

Please email me if you are interested in getting started on your application for next year.

Free ASHRAE Webcast April 21, 2010

Mark your calendars! **"Right from the Start – Commissioning for High Performing Buildings"** webcast registration begins March 2, 2010. Go to <http://www.ashrae.org/Cxwebcast> to sign up.

The April 21, 2010 CTTC webcast, "Right from the Start-Commissioning for High Performing Buildings," has been approved by the U.S. Green Building Council (USGBC) for three (3) credits toward LEED AP renewal. In addition, the webcast has been approved by the American Institute of Architects (AIA) for three (3) Learning Units (LU's). AIA approval is recognized by the State of New York. Three (3) Professional Development Hours (PDH's) may be awarded to all viewers who complete the "Participant Reaction Form" online following the webcast. The "Participant Reaction Form" will be posted following the webcast at www.ashrae.org/Cxwebcast and must be completed by April 30, 2010 to allow ASHRAE to comply with reporting requirements.

You may also earn credits by purchasing and viewing the webcast DVD. The "Participant Reaction Form" will be included on the DVD with instructions for completion and submittal to ASHRAE. Many states and organizations accept viewing the DVD and completing the "Participant Reaction Form" as credit toward continuing education, license renewal, or certification renewal requirements. The individual is responsible for verifying approval from a state or organization. Upon request, ASHRAE will provide appropriate support. DVDs will be available in May via the ASHRAE Bookstore.

Join the CTTC Committee

If you like to assist the chapter and get involved with ASHRAE, the Chapter Technology Transfer Committee is one of the best places and we could use your help. Talk to a board member or contact Tyler Bradshaw at tbradshaw@rumseyengineers.com.

Golf Tournament

Emil Chan, Committee Chair

ANNUAL GOLDEN GATE ASHRAE GOLF TOURNAMENT

SAVE THE DATE!

July 30, 2010 at Crystal Springs Golf Course

Start planning your foursomes! Hope to see you there.

YEA

Michelle Dionello, Committee Chair

The 2nd YEA event was held at Pyramid Brewery in Berkeley on February 28th. It was a shame there was a low turn-out from the YEA members to this, the most requested event! Although the YEA presence was low, there was still fun had by all those members that attended!

If there is still interest in a brewery tour or any particular event, please email the YEA group at gg.ashrae.yea@gmail.com. We look forward to hearing about what you would like to see from the group. As a reminder, YEA stands for Young Engineers of ASHRAE. This committee is focused on ASHRAE members 35 years old and below. We want to promote YEA members involvement in the chapter and learn from this group, how ASHRAE can help them in their professional careers.



On March 19th, the YEA members had a mixer with the Bay Area Young Architects (BAYA)! The crawl was a great success with 30 people attending! Our new architect friends had so much fun with us that we will be planning other future events with them. So, if you missed the mixer-there will be others!





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akearns@nocalhawaiiinebb.org

CAL POLY
HVAC&R
SEVENTH ANNUAL GOLF TOURNAMENT
APRIL 24, 2010



LOCATION: Avila Beach Golf Resort

TIMES: Sign-in 9:30 a.m.
Tee-off 10:00 a.m.
Awards 3:00 p.m.

FORMAT: Select your own foursome or allow yourself to be matched up in any foursome in this Combined Scramble and Best Ball Format tournament.

CLUB RENTALS: Limited rental clubs are available directly from Avila Beach Golf Resort and payable to the Resort on site.

ENTRY FEE: Entry fee of \$200 per person includes green fees, tournament gift, lunch, entry into the raffle, and a \$75 contribution to the HVAC&R Program. Reservations are appreciated by March 26, 2010.

DRESS CODE: Collared shirt, shorts must be mid-length and cannot be denim.

SPONSORSHIP: The fee for hole sponsorship is \$350. Contact Dennis Thompson for more information on corporate sponsorship:

Dennis Thompson
Phone 510/723-7708
dennis.thompson@siemens.com

ACCOMMODATIONS: We have reserved a block of rooms at the Quality Suites Hotel for tournament participants. Please call the hotel directly at 805.541.5001 to make reservations.

SOCIAL MIXER: We will be hosting a mixer on Friday, April 23rd from 5 to 9 pm at Native Lounge located at 1023 Chorro Street (near the mission.)

QUESTIONS?

Joe Chin (Northern California)
Phone: 650/326-0750
Email: jchin@westernallied.com

Will Clark (Southern California)
Phone: 562/692-1277 Ext. 249
Email: will.clark@dmghvac.com

Please Complete the Entry Form on the Next Page
Your reservation by March 26, 2010 would be appreciated!



**ALL PROCEEDS FOR THE SOLE PURPOSE OF
SUPPORTING THE
HEATING, VENTILATING,
AIR CONDITIONING AND REFRIGERATION PROGRAM
AT CAL POLY**



Company Name: _____
 Contact Name: _____
 Title: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 E-mail: _____ Phone: _____

Players (list additional players if registering more than one person):

Name: _____
 Name: _____
 Name: _____
 Name: _____

Tournament Registration Fee \$200 x # of participants _____
 Registration Fees include green fees, tournament gift, lunch, entry into the raffle, and a \$75 contribution to the HVAC&R Program

Cancellation Policy: No refund for cancellation of tournament registration. Registration is transferable with written notification 10 days prior to the event.

Are there other players that you would like to have on your team? If so, please list below:

Name: _____
 Name: _____
 Name: _____

Additional luncheon tickets may be purchased for guests not entered in the golf tournament:

Name: _____
 Name: _____

Hole Sponsorship \$350 x # of holes sponsored: _____

Additional luncheon tickets \$25 x # of additional guests: _____

Total Amount Enclosed or Pay by Credit Card \$ _____

Credit Card Number: _____ **Card Type:** _____

Name on Card: _____ **Exp. Date:** _____

Please mail this form and your check made payable to Cal Poly HVAC&R:
 Jesse Maddren
 Cal Poly Mechanical Engineering Department
 San Luis Obispo, CA 93407
 Phone: 805/756-1386 FAX: 805/756-1137 email: jmaddren@calpoly.edu
 Fax reservations will be accepted with payment pending
 Credit card payment accepted by fax, phone, or email

ASHRAE Learning Institute

Spring 2010 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.

Introduction to Thermal Energy Storage Systems for A/C
Wednesday, April 7, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Standard 90.1-2007: HVAC/Mechanical
Monday, April 12, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Energy Management in New & Existing Buildings: A Sustainable Activity
Wednesday, April 14, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Standard 90.1-2007: Envelope/Lighting
Monday, April 19, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Using Standard 90.1 to Meet LEED Requirements
Monday, April 26, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Introduction to Cleanroom Design
Wednesday, April 28, 2010 – 1:00 p.m. to 4:00 p.m. EDT

District Cooling & Heating Systems: Central Plants
Monday, May 3, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Complying with Requirements of ASHRAE Standard 62.1-2007
Wednesday, May 5, 2010 – 1:00 p.m. to 4:00 p.m. EDT

Understanding & Designing Dedicated Outside Air Systems (DOAS)
Monday, May 10, 2010 – 1:00 p.m. to 4:00 p.m. EDT

A leader in HVAC&R technology, ASHRAE publications cover topics that impact every facet of the environment, both indoors and out.

Latest Publications from ASHRAE!

- ☐ *Standard 189.1-2009, Standard for the Design of High-Performance Green Buildings* (A Jurisdictional Compliance Option of the IGCC)
- ☐ *ASHRAE Handbook Online* – Web-Based access to all 4 volumes
- ☐ *ASHRAE Pocket Guide* – Useful information that fits in a shirt pocket
- ☐ *IAQ Guide: Best Practices for Design, Construction and Commissioning*
- ☐ *Load Calculation Applications Manual*

Other Products from ASHRAE!

- ☐ *Energy Efficiency Guide for Existing Commercial Buildings*
- ☐ *Dampers and Airflow Control*
- ☐ *Building Information Modeling Guide*
- ☐ *Advanced Energy Design Guide for Small Hospitals and Healthcare Facilities*
- ☐ *Principles of Heating, Ventilating, and Air Conditioning* – Textbook based on the 2009 ASHRAE Handbook - Fundamentals

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Introduction to Specifications & Project Delivery Methods: Effects on Specifications

Location: XL Construction
851 Buckeye Court
Milpitas, CA 95035

Introduction to Specifications:

Project Delivery Methods:

0.40 CSI CEN Continuing Education Units
4.0 AIA Learning Units

John R. Guill AIA, CSI, CCS, CCCA, SCIP is Director of Construction Technology for AXIA Architects in Santa Rosa, CA, specializing in Construction Contract Administration, Specifications, Bidding and Quality Control. He has over twenty-five years experience in a wide variety of educational, institutional and industrial facilities for local, state and Federal government agencies as well as corporate and private clients.

Since 2000, Mr. Guill has served on the faculty of Sonoma State University, where he teaches Construction Contract Administration and Construction Specifying in the School of Extended Education's Construction Management Program. He is a regular presenter of continuing education programs on construction-related topics and has received a number of awards and recognitions for architecture, construction specifications and industry education, including honors by Construction Specifications Institute (CSI), the American Institute of Architects (AIA) and the Coalition for Adequate School Housing (CASH).

Construction specifications are an essential part of Contract Documentation. Learn how to specify appropriate quality, enforce your design intent, how to coordinate specifications with drawings, hints, tips, tricks and key language for preparing professional specifications. Tour the CSI formats and understand the use and preparation of Master Guide Specifications and the process of preparing a Project Manual.

Construction specifications for different or non-traditional Project Delivery methods can require use of specialized documents and highly customized administrative procedures. Learn about various Product Delivery methods, how the roles of the parties vary between methods, what contract types are available for use and how to craft specifications and administrative procedures appropriate to the contract type and

	delivery method.
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Mail in registration information below with payment today

Pay in advance or at the door. Checks payable to: "CSI – Santa Clara Valley"

Introduction to Specifications: Friday, April 30, 2010, 9:00 a.m. to 5:00 p.m.

Project Delivery Methods: Friday, May 28, 2010, 9:00 a.m. to 1:00 p.m.

Registrant: _____ Company Name: _____ Complete Address: _____ _____ _____ Email Address: _____ Phone: _____ Fax: _____ I authorize the CSI to charge my credit card in the amount of: \$ _____. Cardholder's Name: _____ Credit Card # _____ Exp. Date _____ MC Visa Signature: _____	Registration Fee: Introduction to Specs:\$135.00 Project Delivery Methods:\$75.00 Both Seminars:\$190.00 Sorry, no refunds for no-shows. Send registration & payment to: CSI Santa Clara Valley 1176 Lincoln Avenue San Jose, CA 95125 Email: maia@mba-architects.net QUESTIONS? Call 408-297-0288 Attach a list of additional attendees with email addresses.
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Marble Draw

Many thanks to our sponsor Victaulic for graciously donating fantastic prizes at the March meeting! So far this year, we have collected \$1175 for ASHRAE research. Keep on contributing to this great cause! Your support is greatly appreciated. The marble draw odds are down to 1 of 7. We are due for a winner and the pot is getting big. It's up to \$780! We are always in need of meeting sponsors. If you would like to donate a prize for a future meeting, please contact Sheila Ruder at sruder@rumseyengineers.com or 510-663-2070.

Student Activities

John Williams, ASHRAE Student Activities Chair

The Chapter is committed to fostering relationships with students at all levels to encourage interest and convey the importance of our industry in the built environment.

DEADLINE ALERT!!!

If you'd like to be considered for upcoming grants, please check out the website for an application. Note that these application dates are very close so please submit as soon as possible.

- March 19, 2010 for the Travel Grant to the [Summer Meeting in Albuquerque](#)
- April 16, 2010 for the Eric T. Andresen and Golden Gate Chapter Scholarships
http://www.ggashrae.org/awards/docs/GG_ASHRAE_2009-2010_Student_Awards_Application.pdf

Sid Palmer's Review of 2010 ASHRAE conference.

Theme

The main theme that I got from the conference was how to use new technologies in already existing buildings. It's true that there are new buildings out there using way less energy than building built 20 years ago. However, those building from 20 years ago are still around and have not been updated. Being able to see the difference solutions to making existing buildings less energy demanding was the more interesting.

Student Congress

The Student congress was asked to come up with ideas and activities to improve student involvement within ASHRAE. This was the fourth student congress ever held. I was honored to able to be a part of such a newly developed program. We came up with many great ideas from a wide range of ideas. We asked to improve the technical tours. The tours given were great, but students would like to see more of them and on a wider range of technology.

It's hard to mix students and professionals together in a semi serious atmosphere. The student congress looked into ways of bridging the gap between the two. We found that many students do not fully see all that ASHRAE has to offer or even the HVAC industry as a whole. However we also found that students who were apart of ASHRAE we glad they joined and wish they had done so earlier.

We came up with several plans to improve technical tours, organizing more student/member mixers and events, and having more design project classes offered by ASHRAE.

Central Florida Hospital

I was able to attend some of the ASHRAE sponsored events. I went on the technical tour of the Central Florida Hospital, the site for next year's ASHRAE's student design competition. We were allowed to walk around and see all of the systems it takes to run a HVAC system on a very large scale.

Mixing with other students

The best part of the conference for me was the student mixers and breakfasts. It was great to see other student just like me from not only all over the country, but from around the world. I was able to meet some students from China and Egypt. It was cool to see how other's ASHRAE experiences matched up to mine and how each of them came to join ASHRAE.

Would you recommend the conference to other students?

I would, and I have, I already plan to attend the next one and bring some fellow students along.

Contacts

Most of the contacts I made were for my senior project. We have already received donations toward our senior project as well as had the chance to take a tour of the Fafco Solar Thermal Panel factory to see how they produce solar thermal panels on a large scale.

How did the conference improve your understanding of the HVAC&R industry?

The conference really opened the door for me into the HVAC world. I never realized how much was offered in a career in HVAC. I found a new understanding of how integrated HVAC is in my everyday life.

It really showed me all that there is, and how interesting a career in HVAC could be.

FUTURE ACTIVITIES

If you want to help out the work of the student activities committee with local schools, colleges and universities to actively increase our presence. Please contact me.

FREE DINNER ALERT!!! We encourage our youngest members to come along to any of our regularly scheduled chapter meetings and we will buy you dinner! All that is required is that you are a registered student member of ASHRAE. Student membership application is available on-line at <http://www.ashrae.org/students/page/698> .

Contact info – john-g.williams@arup.com (415) 946 0230

ASHRAE Research Report

Jeff Violet – Research Promotion

The 2009-10 ASHRAE Research contributions.

A special thank you to contributors who gave on the honor level or above:

Corporate Golden Circle (\$10,000+)

Corporate Honor Roll (\$250+)

Taylor Engineering

Nazzaro and Associates

Conservation Mechanical Systems Inc.

Esherick Homsey Dodge and Davis

Individual Honor Roll (\$100+)

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Thomas Weaver

Isabelle Lavedrine

Scott Wayland

Max Sherman

Jeff Violet

John Roth

Annie Foster

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Joo Young Kim

Gerald Yaffe

Kristin DeMartini

Gary Harbison

Jeff Blaevoet

James MacDonald

Alonzo Laws

Yalek Ho

Kyle Blocker

Osamu Yamauchi

Donations are tax deductible, by check, credit card or online at www.ashrae.org.

To make contributions please contact Jeff Violet, jviolet@myeesi.com, 415-724-1214

March Minutes

Kristin DeMartini, Secretary Golden Gate Chapter BOG

1. 5:30 pm Registration and social hour
2. 5:45 pm Technical session on Commercial Water Reclamation and Reuse by Brian Soderholm, Water Control Corporation.
3. 6:45 pm Meeting called to order by Scott Wayland
4. Self Introductions
5. Announcements:
 - a. Thank you from Redwood Empire section – annual joint meeting
 - b. Research promotion needs more donations
 - c. Thank you to ASPE for participating in the meeting
6. Scott Wayland introduced the meeting speaker: Lori Steere, EBMUD, The Growing Global Importance of Recycled Water
7. Marble Draw – Sponsored by Victaulic.
8. Meeting was adjourned at approximately 9 pm.

2009 - 2010 Event Calendar

<i>Date</i>	<i>Venue</i>	<i>Presentation Topic</i>	<i>Speaker(s)</i>
Thursday, October 15 5:30 pm - 9:00 pm (map)	Scott's Seafood, Oakland	Emerging Infectious Diseases during Healthcare Construction	Marlene Linders: Philders Group International
Thursday, November 12 4:30 pm – 9:00 pm (map)	PG&E Pacific Energy Center, San Francisco	Tech Session: 4:30 pm – 5:30 pm: Low NOx Levels for Boilers and Hot Water Heaters Program: Effective Room Air Distribution...IAQ, Air Distribution, Comfort, Std 90.1 and LEED	Julian Elliot, BAAQMD Daniel Int-Hout Krueger
Thursday, December 3 5:30 pm - 9:00 pm (map)	San Mateo Fairgrounds Event Center, Sequoia Room, San Mateo	Joint meeting with San Jose Chapter Maintain to Sustain	William A. Harrison Society Past President Trane Arkansas
Thursday, January 7 5:30pm – 9:00pm (map)	Scott's Seafood, Oakland	ASHRAE/USGBC/IESNA Standard 189.1 for High-Performance Green Buildings	Kent Peterson, P2S Engineering
Thursday, February 4 5:30 pm - 9:00 pm (map)	Scott's Seafood, Oakland	Getting to Zero: Lessons Learned from Designing Net Zero Energy Building	Brad Jacobson EHDD Architects
Thursday, March 4 5:30 pm – 9:00 pm (map) (Joint meeting with Redwood Section)	Sausalito Yacht Club, Sausalito	Tech Session: 5:30pm - 6:30pm Water Reclamation, Conditioning & Conservation-Rainwater, Graywater, Reverse Osmosis, Deionization Program: The Growing Global Importance of Recycled Water	Brian Soderholm Water Control Corporation Lori Steere Community Affairs Rep., Office of Water Recycling, EBMUD
Tuesday, April 20 Lunch and Tour	The Pyramid Center, San Francisco	The Pyramid Center Co-Gen & Facility Tour	Doug Peterson, Chief Building Engineer
Thursday, May 6 (map)	PG&E Pacific Energy Center, San Francisco	Showcase/Tech Awards/Student Science Fair	Vendors and Award Recipients
Thursday, June 3 5:30 pm - 9:00 pm (map)	Scott's Seafood, Oakland	Targeting Net-Zero-Energy/Zero-Carbon-Emissions (Z2).	Peter Rumsey, Rumsey Engineers David Kaneda, Integrated Design Associates

TBD = To Be Determined. Visit www.ggashrae.org/calendr.htm for updates, presentation summaries, speaker biographies and to register for the meetings.

Photos

