

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 5

FEB 2005

## February Meeting Details

A joint meeting with the U.S. Green Building Council's Northern California Chapter

Date: Thursday, February 3, 2005

Place: Scott's Seafood, Oakland  
# 2 Broadway, Jack London Square,  
Oakland  
On-site valet parking, or self parking at  
Jack London Square

### Schedule:

5:30 PM - 6:30 PM: Registration and Social  
6:30 - 7:30 PM: Dinner, Announcements  
and Introductions  
7:30 - 7:45 PM: Break  
7:45 - 8:45 PM: Main program – Panel  
Discussion

Cost: \$35 for members and guests reserved by  
Monday, January 31 at noon

Students – No charge, but please reserve a  
spot

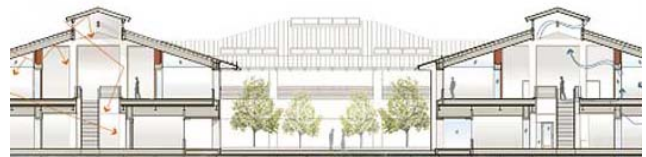
Voucher – No additional charge, but  
please reserve a spot.

\$42 for non-members, late reservations,  
and at the door

Please make your reservation via our website.  
Visit the Event Calendar at  
<http://www.ggashrae.org/calendr.htm>, click on  
February 3, and fill out and submit the form.

Remember – if you make a reservation and cannot  
attend, you need to cancel in advance, or you will be  
billed.

## February Program



## Panel Discussion on Operable Windows

### Panelists:

**Andres Anaya**, Hewlett Foundation

**Bill Bocook, AIA**, B.H. Bocook Architect, Inc.,

**Kailasam Senthil, P.E.**, Critchfield Mechanical

**Sharon Refvem, AIA**, Hawley Peterson & Snyder  
Architects

### Moderator:

**Jon Wintermeyer, P.E.**, Contra Costa County  
Superior Court

The annual joint meetings between Golden Gate ASHRAE and Northern California Chapter of U.S. Green Building Council have been tremendously successful, and we look forward to another interesting meeting focused on a timely topic. We expect a diverse audience of architects, engineers, students, and building owners/managers. Registration is limited to 150 people, and past meetings have exceeded this number. Please register early!

This panel discussion on operable windows will focus on a specific local project: The William and Flora Hewlett Foundation building in Menlo Park, California. The project architect, design/build mechanical contractor, and facilities supervisor will answer questions pertaining to their experiences with this building and with operable windows in general. A detailed description of this LEED 2.0 gold-level certified building will be presented first as background information.

*Continued on Page 3*

## **Golden Gate Chapter President's Message, February 2005**

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Are you proud of who you are and what you do in your profession? Your engineering skills can allow you to be both creative and innovative in designing what has not been tried before. Or are you simply working with old designs with the ultimate goal being a paycheck and not making errors? There is a good kind of pride—we tell our children to work hard and many bumper stickers tell the world how proud the parents are for what their child accomplished. When you look back over your past projects of the last few years, are you not proud at what you and your design team achieved in satisfying your clients and engineering a system that performed as promised to meet the needs of their building? If you and your design team can say that you are, then you should take pride in that. Back in Boston during the 60's and 70's when the Boston Celtics were the best in NBA, they had a creed called "Celtics Pride". It was the way they all played for the good of the team and assumed whatever role was theirs to play on any given night to be competitive against their opponent towards a victory or at least a well-played loss.

Because you and your design team have been performing your engineering work this way, be proud of it and contact Scott Wayland about getting an application for the 2005 Chapter Technology Awards and submit it to the CTT Committee in February for review. In the last few years, Golden Gate Chapter has made numerous submittals of the local Design teams selected to go on to the Region X CRC for further reviews and regional awards. This past year a Golden Gate Chapter Firm's designs submitted by our Region X has been recognized for a Society Award which will be presented in Orlando, Florida at the ASHRAE Winter meeting in February. These Firms and their Clients are willing to open themselves up to review by their peers in the HVAC industry and take pride in their expertise and design skills.

What better reward in our profession than to be recognized by your peers and Society for your design accomplishments. Make 2005 the year that you and your design team step up and submit one or more of your design projects for a possible award. Take pride in who you are as a Design Professional.

*Respectfully submitted, Jon L. Wintermeyer, Chapter President*

## **Change of Address?**

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All members who wish to make changes in their membership data (change of email address, change of address or change of employer are the most common) must make those changes through the national ASHRAE site <http://www.ashrae.org>.

### **THE GOLDEN GATE CHAPTER CANNOT MAKE THESE CHANGES FOR YOU.**

In order to change your membership data, you will need your ASHRAE member number and confidential PIN number, both of which are on the ASHRAE card issued to you each year. Go to the Change of Address link of the ASHRAE website, log in, then to Membership Records. If you don't have your PIN or membership card, please call Customer Service Section: 1-800-5-ASHRAE (US and Canada).

## February Program continued – Operable Windows

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Operable windows offer benefits and challenges to the occupant and designer. Compared to buildings with traditional fixed windows, facilities with operable windows offer individual comfort control and, typically, increased occupant comfort. However, operable windows present a unique set of design, operation, and maintenance issues. Designers must resolve control issues between mechanical and natural ventilation systems. Occupants should be aware of the potential effects to overall building efficiency of operable windows, so occupant education becomes very important. These and other issues will be discussed and debated. The panel will also take questions from the audience.

**Andres Anaya** is Facilities Supervisor for the Hewlett Foundation. He has first-hand experience with the HVAC system and operable windows at this facility.

**Bill Bocook, AIA** has been responsible for more than 4 million square feet of low and high-rise office, commercial, and retail structures since the early 1960's. He established his own firm in 1983, specializing in garden office and residential projects. B.H. Bocook Architect, Inc. is an established California architectural firm with over thirty-five years of experience in master planning and design of facilities, and senior housing. Licensed in the states of California, Washington D.C., and North Carolina, NCARB certified, and a member of the of the American Institute of Architects, B.H. Bocook has been acknowledged with design awards and recognized with articles and sketches in local and national periodicals. The firm's reputation is built on providing buildings that are creatively design not only for today, but for the long term.

**Kailasam Senthil** has been with Critchfield Mechanical Inc. (CMI) for over twenty years and currently serves as a Project Executive. He joined CMI immediately after graduating from the University of Kansas with a MS degree in Mechanical Engineering specializing in heat transfer & fluid dynamics. He has extensive experience in the design and construction of many building types including convention centers, higher education facilities, museums, healthcare, laboratories and green buildings. Kailasam is a registered Mechanical Engineer, Member of SMACNA's seismic restraint task force, and is a LEED accredited professional.

Kailasam has led many of the company's major projects, including: Colorado Convention Center, Natural Resources Building in Olympia, WA- an early green building, Gates Computer Science building at Stanford (with operable windows), and the Hewlett Foundation.

**Sharon Refvem, AIA** is an Associate with Hawley Peterson & Snyder Architects and is co-leader of the HPS - Sustainable Resource Group. She has served as Project Architect on several of the firms' projects, including projects for the City of Santa Clara, the David and Lucile Packard Foundation, the William and Flora Hewlett Foundation, and the Palo Alto Medical Foundation. Ms. Refvem is involved in a number of groups and tasks in an effort to advance the practice of Sustainable Building. She serves as Vice-Chair on the Executive Board of the U.S. Green Building Council's Northern California Chapter and is a LEED Accredited Professional.



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## ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

At the monthly meetings please take notice of the table cards. The cards list all individual and corporation honor roll donors for this year.

We have reached 28% of our chapter's annual goal for Research. Please remind your colleagues and clients that contribution to ASHRAE Research is a great way to give back to our industry. Thanks to everyone who has contributed so far this year. We are always looking for corporate support, especially corporations with "matching gifts" programs. Please contact the Research Chair with potential corporate contributor contact information.

Have you used your ASHRAE handbooks lately? If so, you realize how much research has gone into producing these books. The research for these books are your donation dollars at work! Every dollar donated to research goes to support ASHRAE Research.

The following individuals and corporations have donated on the honor level in the last month. If you have donated and have not been recognized please notify me. I want to recognize everyone who has donated.

Corporate Honor Roll Investors (\$250)  
EB Ward & Company

Individual Honor Roll Investors (\$100+)  
Thomas Reinarts  
Jon Malkovich

Thanks to everyone who has donated! If you have any questions or would like to donate please contact:  
Johanna Gustafsson, (925) 417-7218, [johanna@york.com](mailto:johanna@york.com).

# Chapter Technology Transfer Committee

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(Formerly the Technical, Energy and Government Affairs (TEGA) Committee)

By Scott Wayland, ASHRAE Golden Gate Chapter CTTC Chair

## 2005 Chapter Technology Awards

Applications for the 2005 Chapter Technology Award Competition entries are due to the CTT Committee by the end of February. Please visit the chapter technology transfer website at <http://ggashrae.org/cttc/> (or navigate via the 'committees' page) for more information. You can also contact Scott Wayland with questions at [sewayland@comcast.net](mailto:sewayland@comcast.net)

## Student Activities

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Gary Harbison

For the next chapter meeting in February, we will be inviting students from the local schools to join us. I would like to ask the membership to both help welcome and support a student at this meeting.

We had no student applicants for the travel grant(s) to Orlando ASHRAE winter meeting. I will make note to post the application on our website and advertise earlier next year.

The Bay Area Science Fair judging will be March 17<sup>th</sup> at the Hall of Flowers in Golden Gate Park. We have experienced judges for the task, but if any of the membership is keen on being a judge, we would welcome your participation. Kindly let me know your interest at [gharbison@calhydro.com](mailto:gharbison@calhydro.com) or phone: 510-266-7806.

## Region X Student Member Scholarship Contest

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Region X has sponsored a \$1,000 scholarship for ASHRAE student members within Region X. The application criterion for each student member is to write an article on the topic: "Describe one of your school projects or lessons learned that relates to the field of HVAC&R." The article must be related to an HVAC&R concept with an eye-opening conclusion or recommendation. The length of the article is not of significance. The short-listed applicants will be interviewed by telephone. Faculty advisors may also be contacted for further discussion. The deadline for applications is March 5, 2005. The article and winner will be announced in the Region X newsletter, and may also be announced in the *ASHRAE Insight* newsletter. This is a Region X activity only, and ASHRAE headquarters need not be contacted. The contact at Region X is Hank Bagheri.

Student Activities RVC, Region X

Hank Bagheri, P.E.

(949) 824-9364

(714) 996-7123

(949) 824-8096 Fax

[hbagheri@aol.com](mailto:hbagheri@aol.com)

[hbagheri@uci.edu](mailto:hbagheri@uci.edu)

# **Minutes of the Golden Gate Chapter Meeting January 13, 2005**

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Carnelian Room, San Francisco

- Lunch was served at 12 Noon.
- Following lunch were self introductions by members and Guests.
- Jon Wintermeyer started the announcements at 12:35 PM
- Allan Daly and Mark Hydeman announced the University of California Extension HVAC Certificate Courses. Links to the courses shall be posted on the Golden Gate Chapter ASHRAE website.
- The Chapter seminar this year will be held at the PEC on Monday, February 28, 2005 and the topic is Mold. Check the website for details.
- Johanna Gustafson announced the current level of Golden Gate Chapter research donations. As of this month the Golden Gate Chapter joined the Golden Circle with ASHRAE when all of the Chapter Board Members made Resource Promotion donations.
- Jon Wintermeyer announced the upcoming CTTC technical awards applications and encouraged everyone to participate.
- Kirk Peterson announced the date for this year's Golden Gate Chapter Golf Tournament on July 8, 2005.
- The next chapter meeting is a combined dinner meeting with the USGBC in Oakland at Scott's Seafood with a Panel Discussion on Operable Windows on Thursday, February 3. Check the chapter website for details.
- The feature presentation on Current Challenges and Trends in Data Center HVAC Design. Glenn Friedman introduced the speaker, John Pappas, Principal, Mazzetti and Associates.
- Following the presentation there was the prize raffle conducted by Kristin Vogt. The prizes were donated by Mazzetti and Associates, Advanced Cooling Tower Technologies and York.
- The meeting adjourned at 1:45 PM.

*Respectfully submitted, Glenn Friedman, Chapter Secretary*

## **Sustainable Products Program Training Session—Feb 2-3**

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U.S. GBC – Northern California Chapter

This training session, entitled “Manufacturing, Purchasing, Designing, Marketing, and Specifying Sustainable Products” is sponsored by USGBC – Northern California Chapter, City of San Francisco, and the Institute for Market Transformation to Sustainability. This event will take place February 2-3, 2005, at the Presidio Golden Gate Club

This is a unique opportunity to learn about Sustainable Products Standards and their increased use in the market place. This event showcases companies marketing sustainable products and agencies recognizing these standards in their purchasing policies.

This two-day, comprehensive class is about evaluating sustainable products and showcases those products who are meeting the challenging standards for Environmentally Preferable Products. For more detailed information and event agenda please see:

[http://mts.sustainableproducts.com/sf\\_training/sf\\_agenda05.doc](http://mts.sustainableproducts.com/sf_training/sf_agenda05.doc)

Contact information: phone 202-338-0313, or e-mail [MTS@sustainableproducts.com](mailto:MTS@sustainableproducts.com) for more information.

# From the Chapter Historian

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Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

## Golden Gate Chapter Factoids

Shortly after ASHVE changed its name to ASHAE, the latter merged with ASRE to become ASHRAE.

The first joint meeting of the board of the new ASHRAE Golden Gate Chapter, Feb. 27, 1959, was attended by Harry Angstead, Bill Baker, Al Ballard, Don Delaney, Leo Dwyer, Karl Guttman, Jack Kniveton, Dar Knowles, William Moon, Al Mudica, Rudy Pribus and Jim Smith.

On Feb. 9, 1970 the Golden Gate Chapter became incorporated in California. We believe that we were the Society's first chapter to do so. Our first Board of Directors comprised Dick Friedman – President, George Aronovsky – Secretary, Irving Alger, Charles Hardeman and Bob Voelz. Dick Charles was the Notary Public.

*(Information from the Chapter's historical files.)*

## Correction

In the January Fog Dispenser, I discussed the Chapter's financial contributions to Cal Poly. As many of you know, that relationship was the "Workship" (as differentiated from "scholarship") and not "workshop", as reported. Sorry about that.

*Note from Cory Palmer: I allowed 'spell check' to modify the document I received from our Historian. My apologies go to Chapter Historian Carl Jordan, the author of the article. Carl, I should have known better!*

## 2004/2005 Golden Gate Chapter Seminar

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### Avoiding Mold Problems in Commercial Building Enclosures

Speaker: Joe Lstiburek

Date: February 28, 2005, 9 am to 4 pm  
Location: Pacific Energy Center, San Francisco

This presentation deals with the impact of design, construction, and operation on the mold performance of buildings. The presentation will identify and evaluate solutions, and recommend remedial measures to alleviate performance, durability and indoor environmental problems.

Design of walls, claddings, roofs, mechanical systems and interior finishes will be discussed as they relate to moisture control, durability and indoor air quality. Diagnostic procedures and remediation techniques will also be discussed.

Building problems and their solutions will be related to operational concerns and monetary constraints. Case studies will be utilized to illustrate the key issues.

Moisture and related indoor air quality problems have become a major source of lost revenues, management frustration, litigation, image problems, lost clients, and related health problems. The building enclosure and mechanical systems interact with and influence interior environmental conditions with serious consequences. In this seminar industry practices are challenged and turned on their head. Delivered by an engineer with a sense of humor, this session will prove to be highly interactive and relevant. Clear methodologies for effectively and rapidly solving building envelope moisture and indoor air quality problems will be presented. Learn how to modify standard diagnostic, design, commissioning, inspection and testing and balancing procedures to identify problems. Attendees will learn problem-solving techniques that can be implemented immediately.

The Chapter web site will be updated with electronic registration information, the seminar cost, and time schedule.

## Employment Opportunities

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### Project Manager and Project Engineer positions

Chevron Energy Solutions is soliciting applications thru 2/28/05 for one Project Manager (PM) position and one Project Engineer (PE) position, both located in San Francisco, CA. Qualified candidates will possess at least 8 years of relevant experience and a strong working knowledge of a broad range of building energy systems, including design and installation of central chiller/heating plants, various HVAC systems, lighting, energy management controls, cogeneration and other distributed generation systems. The PM will manage all phases of projects from initial development through design, construction and commissioning. The PE will lead survey teams and identify energy conservation opportunities through modeling and calculation of building loads, develop designs and specifications, forecast savings, and assist with cost estimating. Bachelor's degree in Mechanical, Electrical or Civil Engineering is required; registration as PE is highly desired. Competitive salary package offered.

To view the job description and to apply for this position, log onto [www.chevrontexaco.com/careers](http://www.chevrontexaco.com/careers), click on Available Jobs, next click Search for Jobs, and then click the Search button.

### HVAC Engineer

Rumsey Engineers, Inc. ([www.rumseyengineers.com](http://www.rumseyengineers.com)) is a nationally recognized Bay Area based design engineering firm specializing in innovative and energy efficient HVAC system solutions for the most demanding commercial installations and critical environments, including green buildings, data centers, cleanrooms and laboratories. The company's philosophy is based on the premise that the best design is simple, elegant and results in substantially lower energy costs.

We have an opening in our Oakland, CA office for a mid to senior level articulate and innovative HVAC engineer with at least five years of energy efficient design experience.

Rumsey Engineers is a growth-oriented company that offers competitive salaries and benefits for focused and dedicated engineers.

Please e-mail resume to Pete Laborde: [plaborde@rumseyengineers.com](mailto:plaborde@rumseyengineers.com)

### Plumbing Engineer

Rumsey Engineers, Inc. ([www.rumseyengineers.com](http://www.rumseyengineers.com)) is a nationally recognized Bay Area based design engineering firm specializing in innovative and energy efficient HVAC and plumbing systems solutions for the most demanding commercial installations and critical environments, including green buildings, data centers, cleanrooms and laboratories. The company's philosophy is based on the premise that the best design is simple, elegant and results in substantially lower energy costs.

We have an immediate opening in our Oakland, CA office for an articulate and innovative Plumbing Engineer with a minimum of 3-5 years of experience in commercial and industrial plumbing and fire sprinkler design systems with extensive knowledge of the CA plumbing code.

Candidate should also be familiar with the USGBC and the LEED rating system as it applies to water efficiency credits.

Rumsey Engineers offers competitive salaries and benefits for dedicated engineers.

Please send resume to Pete Laborde at [plaborde@rumseyengineers.com](mailto:plaborde@rumseyengineers.com)

## Employment Opportunities continued

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### Sales Application Engineer

Pleasanton , CA

Major – BS, Mechanical Engineering  
BS, Industrial Engineering

Description: Attend a 10-week graduate-level technical training program at our York, PA headquarters, followed by on-the-job and mentor training in your assigned sales district. As a sale engineer you will work as a technical sales consultant working with mechanical contractors, consulting engineers, owners and architects in the design, application and sales of York equipment and York service products. You will be responsible for the development of assigned accounts with established sales objectives and policies.

Please e-mail resume to:

Elaine Cardoza

York International Corp.

7020 Koll Center Parkway, Ste. 110

Pleasanton, CA 94566

925-426-1144 phone

925-426-1188 fax

e-mail: [elaine.cardoza@york.com](mailto:elaine.cardoza@york.com)

# ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION

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*For Thursday, February 3rd*

## Reservations

Please reserve prior to **Monday, January 31st at noon.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on February 3, fill out the form and send.

**Members with vouchers – you too must send in your reservation. We need to know how many meals to request.** Please cancel your reservation if you cannot attend. Cancellations must be received by **January 31st.**

## Payment

**You can pay for meeting vouchers and dinner reservations using your credit card!**

Purchase your 2004-2005 Meeting Voucher now! If you have a voucher and miss a meeting, you can bring a guest to the next meeting and your guest can attend for free! This offer is only good for the October 2004 - June 2005 season and the "guest for free" option will not carry over to the 2005-2006 season. The Chapter has set up a PayPal account. You may now pay for your dinner meetings using your credit card if you have a PayPal account. It's a very simple process, and the instructions are on the website at <http://www.ggashrae.org/announc.html>

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid for their dinner vouchers using PayPal. If you have any questions about this process, please contact Robert Marcial at [rmarcial@berkeley.edu](mailto:rmarcial@berkeley.edu).

NOTE: At the Chapter meetings we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. **All credit card payments MUST go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.**

## Marble Draw

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The Golden Gate Chapter Marble Draw will continue in February, and the pot is over \$500!