

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 4

JANUARY 2004

January Meeting Notice

Date: Thursday, January 8th
Place: Carnelian Room @ Bank of America Bldg.
555 California Street
San Francisco, CA

Schedule:

11:30AM to Noon - Registration & Social
12:00 noon to 12:40 PM - Lunch with
Announcements and Introductions
12:40 to 12:50 Break
12:50 to 1:20 Speaker
1:30 Meeting Adjournment

Cost: \$35 for members and guests

Reserve by Monday, January 5th 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

Don't forget about "PAYPAL" You may pay in
advance with your credit card for Chapter meetings
through paypal. Send your payment to
paypal@ggashrae.org. But please remember that you still
have to register your reservation as noted below:

Please reserve on-line by visiting www.ggashrae.org and
clicking on "Meetings", and click on "Jan 8", fill out the
form and send.

Or use the fax form in the Fog Dispenser.

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

January Program

"Title 24 year 2005 Version, What's
coming for changes and improvements"

Mark Hydeman will present an overview of the
mechanical requirements for the upcoming Title 24 2005
non-residential energy standard at our annual lunch
meeting on January 8, 2004. This standard has a number
of new requirements including:

- Performance verification for mechanical
equipment and controls
- Limitations on application of air-cooled chillers
and centrifugal fan cooling towers
- Expanded demand ventilation control
requirements
- Requirement for isolation valves on WLHP
systems and 2-way valves for CHW and HW
systems
- VSDs for fans 10 hp and
larger and pumps 5hp
and larger
- ECM motors on series
fan-powered VAV boxes
- Duct sealing for small
commercial systems
- Verification of minimum
ventilation in VAV
systems throughout the full range of control
- Substantial changes to the compliance forms



Come learn about these requirements now or learn about
them the hard way when you try to get a permit in 2005.

Mark Hydeman is a Principal at Taylor Engineering, a
consulting engineering firm in Alameda California. Mark
was the California Energy Commission's lead consultant
for development of the mechanical portions of the non-
residential Title 24 energy standards for 2001 and 2005.
Mark is a past member of the ASHRAE/IESNA
Standard 90.1 Committee and a Past President of the
Golden Gate Chapter of ASHRAE.

Golden Gate Chapter President's Message, January 2004

Volunteer – A New Year's Resolution

Whether you read this before or after the holidays, the Board of the Golden Gate Chapter of ASHRAE wishes you the best for a happy, safe, and prosperous 2004.

Did you or will you make any New Year's resolutions? In case you are short on resolutions, why not take my suggestion to volunteer some of your time. Volunteering benefits both the individual volunteer and the wider community by offering

- + Access to social and business networks
- + Opportunities for learning and developing skills
- + Opportunities to experience the satisfaction of making a contribution
- + Improved physical and mental well being

Why not volunteer by increasing your participation in the Chapter? Most of our committees could use some help, and some could even be fun, such as assisting with the golf or tennis tournament. Contact any of our Board members to discuss your interests and the opportunities. Maybe you are not ready to take on any new tasks, so here are some thoughts for things that do not take any time – invite a colleague, customer, or friend to a chapter meeting, and donate to ASHRAE Resource Promotion.

Naturally, I would like to see some of your volunteer efforts go towards ASHRAE. Nevertheless, my message is to volunteer somewhere – As the Nike ad says “Just Do It”. Consider helping at your child's or grandchild's school, senior organization, humane organization, health care organization, food bank, etc. As stated above, volunteering benefits the individual and the community. You are doing a good thing.

Our January meeting is a LUNCH meeting on the second Thursday of the month, since the first Thursday falls on New Year's Day. Past Chapter President Mark Hydeman will talk to us about the 2005 Title 24. Hope to see you there.

Respectfully submitted,
Robert F. Levi, P.E., Chapter President

Membership Promotion

Was all of your contact information correct in last year's Roster? Now is the time to correct that data so that it will be correct in the joint Golden Gate/San Jose Roster due for publication early next year.

Only you can correct your membership data. THE GOLDEN GATE CHAPTER CANNOT MAKE THESE CHANGES FOR YOU.

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

At the ASHRAE home page, click on “Member Resources”, then “Manage Your Membership”. Under the “Manage Personal Information” heading click on “Address Change”, log in, and then fill out the form and send. Alternatively, you may call ASHRAE Customer Service at 800-5-ASHRAE. If you do not have your PIN or membership card, then you must call Customer Service.

Since ASHRAE's system is not flawless, it would not hurt to call Customer Service a couple of weeks after you made the change to be sure that the change took effect. Should you have any questions, please do not hesitate to contact me at lofton@accoes.com, or 510.346.4300.



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The Trane Company proudly supports ASHRAE Research

2003 – 2004 Golden Gate ASHRAE Events

DATE	LOCATION	PROGRAM	SPEAKER
Feb. 5	Scott's Seafood (Jack London Square)	Barriers to Sustainable (Or Green) Design	Kevin Hydes, PE Keen Engineering
Mar. 4	Embassy Suites, San Rafael (Joint w/ R.E.)	Hybrid Central Chilled Water Plant Design and Operating Analysis	Ken Mozek, York International
Apr. 1	Pacific Energy Center	Science Fair and Scholarship Winners Product Show before Dinner	Students
May 13	Field Trip and Lunch in San Francisco	Asian Art Museum for HVAC tour and then Museum exhibit viewing time	Guide Gordon Bailey
June 3	Scott's Seafood (Jack London Square)	Spouse Night with Comic Relief	James "Jim" Giovanni

Student Activities Committee – The Student Zone

We are pleased to announce that the winner of the student travel grant to the ASHRAE winter meeting is UC-Berkeley student, Gwelen Paliaga. Gwelen has a BS in Physics from UC-Santa Cruz and is finishing the course of study for MS in Architecture with emphasis on Building Science. Please join with me in congratulating Gwelen on being awarded this grant.

The student scholarship applications for the Eric Thor Andressen and Don Bryant Memorial scholarships can be accessed on our website. Applications are due on or before March 16, 2004.

In order to encourage a student to pursue a career in our industry, and targeted for grades 3-12, we have arranged to have available by the end of next month, ASHRAE's **Cool Science Kit**. This kit contains most of the necessary hardware to conduct scientific demonstrations, and the modules include background to allow students to observe and participate in the demonstrations and student investigations. The kit will allow us to tailor the presentation to the student's age, the level of understanding and the time available for the program.

I have tentative programs set up with San Francisco University High School and Lowell High School and will be scheduling additional sessions as my time will allow. The kit is provided on loan and we encourage any of you use if you have a child in school and you want to present at their school.

To schedule, please contact me:

Phone: 510-266-7806, or Email: GHarbison@CalHydro.com.

ASHRAE Research Report

Congratulations, Golden Gate Chapter! We have fulfilled the requirements for the Golden Circle Research Award. To receive this award every board member must give individually on the honor roll level (\$100 or more). Thanks to all the board members for their support of ASHRAE Research!

Do you realize that 100% of your contributions to ASHRAE Research goes directly to the researchers? All of ASHRAE's operational overhead costs are paid from other sources. You can contribute by check or credit card and your contributions are 100% tax deductible.

The following individuals have donated on the honor level in the last month:

Corporate Honor Roll Investors (\$150.00 or more)

Air Treatment Corporation

Individual Honor Roll Investors (\$100.00 or more)

Kevin Dowling

Thomas Reinarts

Thanks to everyone who has donated!

If you have any questions or would like to donate please contact:

Jon Malkovich

925.688.1369 x4

jon.malkovich@ebward.com

Johanna Gustafsson

925.417.7218

johanna.gustafsson@york.com

Minutes of November 6, 2003 Chapter Meeting

Location – Marriott Hotel, San Mateo

- Meeting called to order at 7:15 p.m. by Bob Levi.
- Self-introductions.
- The Winter Meeting and Expo are in Anaheim at the end of January. Anyone planning to go and wanting to stay overnight should make room reservations well in advance. 50,000 people will be there and they will fill up the hotels in the vicinity. Go to the ASHRAE website (ashrae.org) for registration and housing info. Bob Levi offered free Expo registration tickets, or we can register in advance for free on-line.
- Sargon and Bob Levi offered a free one-day ticket to the meeting to a first time attendee. Please contact either of them if interested.
- Edgar DeGuzman recognized Jason Daters for his work on the Eric Thor Andresen Memorial Tennis Tournament in the 2002-2003 ASHRAE year.
- Membership Promotion announcement by Jack Zarour, Regional Vice Chair for Membership Promotion.
- Resource Promotion announcement by Jon Malkovich.
- Mark Hydeman announced upcoming UCB Extension HVAC classes.
- Marble Draw – Shaun Webster sold tickets.
- 10 minute break.
- Jon Wintermeyer introduced the speaker, Ron Wilkinson, and mentioned the December 5 commissioning seminar in San Francisco.
- Program: Ron Wilkinson discussed commissioning HVAC systems.
- Marble Draw – Hugh Tuck won several raffle prizes but did not win the marble game. The \$800+ pot rolls over to next month!
- Next month's Golden Gate Chapter meeting – Jan. 8th, lunch at the Carnelian Room. Mark Hydeman will discuss what to expect in the 2005 version of Title 24.
- The meeting was adjourned at 9:20 p.m.

Respectfully submitted, Cory Palmer, Chapter Secretary

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

If you have not read any of the previous TEGA columns, **please take a look in the archived issues of the Fog Dispenser at www.ggashrae.org**. It's important that every member knows what TEGA is all about! TEGA's role with society and the members includes many areas of responsibility. ASHRAE functions with a grass roots base, and TEGA is glue that binds everything together. One of the roles is for TEGA to create, enhance and maintain the two-way communication between members and society technical activities. TEGA assists with member interaction with the community as well as with local and state affairs (without getting involved with "the political process"). TEGA also helps with local and regional recognition of ASHRAE's authoritative position.

TEGA needs your help!!! Please contact me if you would like to participate / join the TEGA Committee at sewayland@comcast.net

Technology Awards

As you know, last year our chapter had an outstanding participation in the Technology Awards. All the members who submitted projects will tell you it was a rewarding experience. The TEGA Committee would like to encourage all members to start thinking about Technology Awards for this year. **Entries will be due the last week of February 2004**. For more information including an application, go to:

<http://www.ashrae.org/template/AssetDetail/assetid/25447>

Code Committee

We are now at the start of the next cycle for the UMC and there is a lot of work to be done. The Golden Gate Chapter, the TEGA and the Code Committee invite you to help us make a difference again! Comments on the 2003 UMC and UPC are requested by IAPMO starting this month and ending February 1st, 2004. The Code Committee will be submitting comments and would like your input.

TEGA and the Code Committees would also like to request your assistance with code interpretations. If you have a compelling interpretation or variance from a local jurisdiction, please forward a copy of it to Scott Wayland. The TEGA and Code Committees intend to use these interpretations to determine what code issues need our attention. The future TEGA website will also include code information including interpretations and links to other code resources online. Please contact us if you are interested in helping out.

Contact Matt Chikhale at mmcal@msn.com if you would like to get involved with the Code Committee or if you simply have an issue with a part of the codes that you would like us to review.

Our professional community has the opportunity to shape the codes we work with. Help us make a difference.

ASHRAE GOLDEN GATE CHAPTER - LUNCH RESERVATION FAX

For Thursday, January 8th

Please reserve prior to **Monday at noon, January 5th.**

Please reserve on-line by visiting www.ggashrae.org and click on "Meetings", and click on "Jan 8", fill out the form and send. Or FAX the following form to Debbie Marshall (510) 639-3337.

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 5th.

FROM: _____

COMPANY: _____ Phone: _____

Please make _____ reservation(s) for the following people (fill in names below):

Pay for meetings using your credit card

The Chapter has set up a PayPal account. You may now pay for your meetings using your credit card if you have a PayPal account. It's a very simple process, and the instructions are on the website.

- 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 meal vouchers using PayPal. If you have any questions about this process, please contact Robert Marcial at [<rmarcial@uclink4.berkeley.edu>](mailto:rmarcial@uclink4.berkeley.edu).

NOTE: At the meeting, 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.**

Roster

SAN FRANCISCO BAY AREA COMPANIES INTERESTED IN BECOMING ROSTER SPONSORS FOR THE COMBINED GOLDEN GATE AND SAN JOSE CHAPTERS ROSTER FOR THE 2003-2004 YEAR SHOULD START THINKING ABOUT HOW THEY WANT THEIR AD TO READ, AS THE ROSTER WILL BE GOING TO PRESS IN FEBRUARY 2004 AND SHOULD BE CONTACTING: Sargon Ishaya at (408) 347-3400 or sishaya@therma.com to reserve their space

Marble Draw

Thank you to our many sponsors for all the great prizes: Air Systems (4 tickets to a San Jose Sharks Hockey Game), Siemens (2-\$50 gift certificates to Best Buy), ACCO Engineered Systems (2 bottles of wine), Trane (2- \$50 gift certificates to Macy's), Norman Wright (2-\$100 gift certificates for Dinners), Cal Hydronics (2 bottles of wine), Air Treatment (4 bottles of wine) and Western Allied (1-\$75 Gift Certificate). If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at nicolina.j.guiliano@jci.com

Employment Opportunities

Job Opening for Mechanical Engineer Committed to Sustainable Design

Rumsey Engineers is one of the country's preeminent sustainable design mechanical engineering firms. We have an opening for an articulate and innovative mechanical engineer with at least five years of design experience. The position is in our Oakland, CA office.

Qualified applicants please send resume in confidence to plaborde@rumseyengineers.com

Applications Engineer - Contracting / Complex Solutions

Trane, a leading manufacturer of HVAC equipment and automation, is seeking an Applications Engineer for our Sacramento Contracting group. This individual will be responsible for the turnkey design and development of mechanical systems retrofit and construction work in commercial and light industrial applications – from inception through design, estimating, sales assistance, and project management. A highly motivated self-starter with exceptional communication and computer skills is required. This individual should possess a BSME and have a minimum of 5 years related construction experience with emphasis in chiller plant design. Trane, a division of American Standard Inc., is an equal opportunity employer. We offer a highly competitive salary and benefits package and a rewarding professional work environment with advancement opportunities. Qualified candidates please send your resume in confidence to gbrandon@trane.com or call Gregg Brandon at 916-577-1100.

Alfa Tech, a full service mechanical, electrical, plumbing, fire protection, and technology consulting engineering company is currently looking for mechanical engineering candidates for their San Francisco office. Qualified candidates need to have a minimum of 5-7 years consulting HVAC and Plumbing engineering experience as well as design knowledge of multiple HVAC systems. Candidate must have good communication and documentation skills, and ability to meet schedules. AutoCAD and TRANE Trace 700 required. Self-motivation and strong communication and presentation skills are required. Our current design and construction projects include biotech, pharmaceutical, healthcare (OSHPD), educational, microelectronics, data centers, commercial, industrial, and LEEDS accredited projects. BSME required, P.E. a plus. Please fax your resume to 415.788.6040 to the attention of Theria Boyd. See our web page www.alfatech.net



Edgar DeGuzman presenting the appreciation award to Jason Daters for his work on the Tennis Tournament



Bob Braun tells the attendees about his UC Berkeley Extension Class



Joint San Jose and Golden Gate members listen to an announcement



ASHRAE Distinguished Lecturer Ron Wilkinson our speaker talks about third party Commissioning



Jon Wintermeyer and Bob Levi



Edgar DeGuzman, Shawn Webster and Johanna Gustafson read out winning ticket numbers for the Marble Draw



Hugh Tuck was the evening's Big winner for Marble Draw Prizes



Dennis Thompson collects his Marble Draw Prize