



FOG DISPENSER



Golden Gate Chapter  ASHRAE

VOLUME XXXIX - NUMBER 3

DECEMBER 2000

Joint Meeting Notice

- Date:** December 7, 2000
- Place:** SFO Airport Doubletree Hotel
835 Airport Blvd, Burlingame, CA
- Time:** 5:00pm Pre Meeting Technical Seminar
6:00pm Society President's Reception
(no host cocktails)
7:00 Dinner
8:00pm Program Presentation
- Cost:** \$35.00 Members and Guests with prior reservations, \$37.00 for Walk-Ins (food not guaranteed)

All reservations must be received by John Wintermeyer by email at ASHRAE@atce.com or by fax (see form in this issue) to: (415)788-6040 by Friday December 1st.

Please note that the Hotel needs a guaranteed count for the meeting and will not accept additional guests over the guarantee! Make your reservation on time and show up!

Pre-Meeting Technical Seminar 5:00 p.m.

"Evaporative Cooling after Deregulation in California"

Keith Dunnnavants will present this proven energy saving concept concerning two stage Evaporative Cooling and its benefits in our dry climate. Keith published this topic as a featured article in the December 1999 ASHRAE Journal on this topic and brings his expertise to our meeting to benefit our members. See Inside for more information.

December Program:

The Future of HCFC and HFC Technologies

Speaker: Society President Jim Wolf!

Don't Miss this Month's Meeting!

December's Meeting has been special for the last 3 years as it is our Annual Joint Meeting with the San Jose Chapter. Once a year these 2 leading chapters get together and create the Bay Area's HVAC place to be for one night.

This year's meeting is even more special due to the fact that the ASHRAE Society President, Jim Wolf, will be visiting our chapters and presenting a Distinguished Speaker's presentation on HCFC and HFC Technologies.

Who better than the Society President to give us the latest information on the issue that affects our industry more than anything else?

Join Jim and the Officers of both chapters at a very special reception prior to the meeting. It will be worth leaving work early to be there!



Golden Gate Chapter President's Message December 2000

To all those who are UNDECIDED:

This month's President's message is for those of you who are still Undecided

"Undecided" has replaced the word "Internet" and seems to be "THE Word" these days. The next U.S. President, as of this writing, is UNDECIDED. Many of us are still Undecided as to who would best govern in this political atmosphere.

This message is for members who are still UNDECIDED on coming to the December ASHRAE chapter meeting.

UNDECIDED ASHRAE members, I empathize with all of you who are busy with work and personal lives. But consider this: how many of you members out there have to come up with an inspirational message every month for the membership? I want to know!

So, all you UNDECIDED, I will look for you at the next meeting which happens to be a joint meeting with the San Jose Chapter and we will have the honorable PRESIDENT of NATIONAL ASHRAE, Mr. James E. Wolf, with us as speaker.

UNDECIDED members, turn out in force! Let us out-number the San Jose Chapter and impress Mr. Wolf with the vitality of our chapter. Bring a friend, bring a neighbor, bring your spouse and bring your co-workers. We will enjoy an interesting talk by Jim. This President won't be talking about prescription drug policy, social security solvency or educational accountability! You will all have a good time and as a bonus you will be out by 8:30pm – in time to catch your favorite 10 o'clock TV program.

So after your participation, on Thanksgiving Day, in the beginning of the five biggest poultry-consumption weeks of the year, come to the Joint ASHRAE meeting and support the only PRESIDENT YOU HAVE.

Respectfully submitted

Benjamin Sun

Golden Gate ASHRAE Prez

Looking for the Chapter's Committee Chairs? Visit the web site: ggashrae.org

December Pre Meeting Technical Seminar:

Evaporative Cooling After Deregulation in California

With the advent of electric utility deregulation, free enterprise will be subject to electric energy costs dictated by the marketing laws of Supply and Demand. In summer months, electricity costs will soar in the afternoon hours between 12:00 noon and 6:00 p.m. this same time period is when evaporative cooling systems can have their greatest impact on cooling energy requirements and subsequent costs. Evaporative cooling works best when wet bulb depression (ambient dry bulb temperature minus wet bulb temperature) is the greatest; i.e., the hours between 12:00 noon and 6:00 p.m.

Keith Donnavant, National Accounts Manager for Des Champs Laboratories, will present this timely and relevant topic. A member of ASHRAE, and frequent speaker at local ASHRAE chapters around the country, he has sixteen years of broad engineering experience in air-to-air energy recovery, dehumidification, and evaporative cooling. Keith holds a BS degree in Mechanical Engineering from North Carolina State and is a registered professional engineer in North Carolina.

SECRETARY'S CORNER

December 2000

Our meetings are getting better and better! For November, Mike Scoffield conducted a magnificent pre-meeting technical seminar about low temperature liquid over-feed systems. Again Ross Sheryl, Frank Mayhew, Charlie Nadig were among the many who attended the meeting. Cyndy Callaway, Regional TEGA Chairperson was our special visitor for this meeting.

- The only unfortunate incident of the evening was when 67 people showed up at the meeting, when only 38 reserved. But luckily the PG&E center is next to a restaurant. Ben Sun ended up ordering spaghetti and meatballs, and serving the food himself (what a president, "He aims to serve").
- The speaker for the November program, Kent Harris of PG&E, showed us the benefits and the government incentives available for electric vehicles.
- Glenn Friedman presented a synopsis of student actions, travel grants for the convention, and scholarships available to all eligible students.
- Gail Brager with husband in tow, showed up and apologized for not bringing any students. It was Student Night and Carl Jordan was wondering where the students were.
- At the monthly Board Meeting, the board approved the following motion unanimously: Bob Levi was authorized to open a Money Market account for the chapter's checking account to allow the chapter to collect interest on our checking account's balance.

Directions to the DoubleTree Burlingame:

The Doubletree is located right off Hwy. 101 in Burlingame, 835 Airport Boulevard, (650) 344-5500.

From San Jose: (a) take 280 North; (b) take 380 East towards the SF Airport and exit onto 101 South; (c) from 101 South exit Broadway/Burlingame and head east; (d) go over overpass, stay in right lane; (e) right at stoplight onto Old Bayshore Road; (f) turn left on Airport Boulevard; (g) the Doubletree is on the right side of the road

From San Francisco: (a) take 101 South; (b) exit Broadway/Burlingame and head east; (c) go over overpass, stay in right lane; (d) right at stoplight onto Old Bayshore Road; (e) turn left on Airport Boulevard; (f) the Doubletree is on the right side of the road

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For Thursday December 7, 2000

Email: John Wintermeyer ASHRAE@atce.com *preferred method of communication!!!!*

FAX: (415) 788-6040

Please cancel your reservation if you cannot attend the meeting.

Cancellations must be received by the Tuesday prior to the meeting.

FROM: _____

COMPANY: _____ Phone: _____

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

EMPLOYMENT OPPORTUNITIES

Western Allied Corporation, a design build HVAC contractor located in Menlo Park currently has opportunities for senior mechanical engineers. Western Allied Corporation has a large variety of interesting projects including, biotechnology facilities, laboratories, data centers, dry rooms, and clean rooms, as well as office buildings, remodels, central plant replacements, and renovations. We have a genuine interest in energy efficient and innovative design options and a comfortable, family friendly working atmosphere. We offer a very attractive compensation and benefits package.

The ideal candidate would have a minimum of 5 years of HVAC design experience, a B.S. degree in mechanical engineering, a California P.E. license, have a good working knowledge of AutoCAD, Word, Excel, Carrier HAP 4.0, Outlook or Eudora and other software products, and be comfortable working alone on projects and in a team environment. Please contact Loek Vaneveld via email at lvaneveld@westernallied.com, phone: 1(650)326-0750, fax: 1(650)321-4946, or via mail at Western Allied Corporation, 1180 O'Brien Drive, Menlo Park, CA 94025.

PACIFIC ENERGY CENTER

Fall 2000 classes

For a current listing of classes visit the PEC's website at www.pge.com/pec. All classes are FREE, but to guarantee a space, please register by calling 415-973-7268 or visiting our Web site (www.pge.com/pec) to register online.

Location and transportation: The PEC is located at 851 Howard Street, San Francisco between 4th and 5th Streets, just two blocks from the Powell Street Muni and BART station and just one block from the huge parking garage at 5th and Mission Streets.

Direct Digital Controls Wednesday, December 6, 9:00 a.m. to 4:30 p.m.

Now that BACnet and LONWorks have brought interoperability and better networking options to DDC systems, how do facility managers take advantage of the new technologies? This full-day seminar covers the capabilities of these technologies and presents case studies for their application. Find out how to update existing DDC systems and add new features without replacing the old system.

Join ASHRAE President-Elect Joe Olivier as he presents this topical and informative program.

Underfloor Design Workshop Tuesday, December 12 9:00 a.m. to 4:30 p.m.

Steve Taylor of Taylor Engineering, Alisdair McGregor of Ove Arup and Partners, Clark Bisel of Flack and Kurtz, and Fred Bauman, Research Specialist at UC Berkeley's Center for the Built Environment (CBE), present design issues and techniques for underfloor HVAC systems. Instructors will present innovative projects and participate in panel discussions on design techniques. Students will also hear the latest research from UC Berkeley's CBE on the performance of underfloor systems.

Top 10 Performance Issues In Commissioning: How to Diagnose and Correct Them Wednesday, December 13 (Repeated due to high demand) 9:00 a.m. to 4:30 p.m.

This workshop, intended for facility operators, engineers, and commissioning practitioners, applies to both existing equipment and new installations. We will present results from numerous commissioning projects. Class includes a hands-on breakout session examining Pacific Energy Center equipment in operation.

ASHRAE RESEARCH YEAR-TO-DATE INVESTOR LIST

Our year 2000 ASHRAE Research is off to a great start! The following corporate and individual Honor Roll investments have been received:

Corporate Honor Roll Investors (\$150.00 or more)

<i>ATI Engineering Services</i>
<i>Flack + Kurtz, Inc.</i>
<i>JYA Consulting Engineers</i>
<i>Laws & Associates</i>
<i>Marelich Mechanical</i>
<i>Norman Wright Mechanical Equipment Corp</i>
<i>R. F. MacDonald Company</i>

Individual Honor Roll Investors (\$100.00 or more)

<i>Wasil Popow</i>	<i>Cory Palmer</i>
<i>Carl Jordan</i>	<i>Edward Arens</i>
<i>Joe Olivier</i>	<i>Edgar DeGuzman</i>
<i>John Roth</i>	<i>Bob Levi</i>
<i>John Wintermeyer</i>	<i>Ben Sun</i>
<i>Kent Lim</i>	<i>Bernard Beckius</i>
<i>Lane Loyko</i>	<i>Shlomo Rosenfeld</i>
<i>Mark Hydeman</i>	<i>Robert Voelz</i>
<i>Max Sherman</i>	<i>Lewis Brooks</i>
<i>Robin James</i>	<i>Dennis Thompson</i>

Our chapter has completed the requirements of the Full Circle Award – all board members plus the RP Chair have contributed at the individual honor roll level!

All contributions are tax-deductible and should be made to:

ASHRAE Research
c/o Cory Palmer
Norman Wright Mechanical Equipment Corp.
99A South Hill Drive
Brisbane, CA 94005
415-467-7600 phone / 415-467-0900 fax
cpalmer@norman-wright.com e-mail

Have you moved?

Members, please help us keep track of you. If you have recently changed your address, phone, fax or email, please make sure that Society's database is up to date. Call 1-800-5-ASHRAE or change information on Society's website at <http://www.ashrae.org/>. If you want to make changes on-line follow these steps:

1. Click on "Membership Records" under the "Members-Only Section" (note you will need your membership # and pin which are on your membership card).
2. Click on "Address Change"
3. Enter your Name, Membership#, E-mail Address and any changed contact information
4. Click on submit

GOLDEN GATE CHAPTER ROSTER

The Golden Gate Chapter's Roster is scheduled for publication at the end of January. You may include your company "non-advertisement" for the following charges.

Full-Page	\$ 150.00
Half-Page	\$ 100.00
Business Card (3 per page)	\$ 75.00

The prime locations for your full-page ad will be auctioned. The following locations will go to the corresponding bidder:

Back Cover	Highest Bidder
Inside Back Cover	Second Highest Bidder
Inside Back Page	Third Highest Bidder

The way that the auction will work is that the bids must be submitted in writing (fax or e-mail) to Robin H. James no later than the January meeting (January 11th). Upon winning the prime locations, the bidders will write two checks, one for \$ 150 for the full-page ad charge and the other for the remainder of their bid to ASHRAE Research. This way the contributing company will receive the recognition for their additional Research contribution.

As always, the artwork must be camera ready or in an electronic format. Artwork must be received no later than Friday, January 12, 2001.

At the same time as you place a non-ad in the Roster, why not consider placing the same non-ad and a listing on the Golden Gate Chapter web site? For all non-advertisers in the Roster, there is only a \$30 charge to provide your non-ad and listing on our web site, as long as the artwork is in electronic format. Future changes to the website non-ad or listing will be available at any time for only a \$10 charge with your new electronic file.

Do not forget to make sure that your database information is correct. If your listing in last year's Roster was incorrect or incomplete you must update the information with Society. Please contact them by phone (1-800-5ASHRAE) or through the Members-Only section of the website (www.ashrae.org). Society's database information will be used for the Roster, so it's up to you to make sure that it is correct.

If you are just updating your information now, it is possible that Society may not get it updated in the database in time for the Roster publication. So you are welcome to also send the new date (in writing, via fax or e-mail) to Robin H. James. The Roster and Database Committees will make an attempt to manually correct the data – no guarantees!

Please send your bids, artwork, and updates to:

Robin H. James
2129 Via Alta
Benicia, CA 94510
Wk: 707-745-5998
Fax:707-745-5999
E-mail: rjames@belimo.com

ASHRAE'S Region X Chapters Regional Conference

The San Francisco ASHRAE Golden Gate Chapter is honored to host the Annual Region X Chapters Regional Conference (CRC) from May 3-5, 2001. This is a meeting of all 14 ASHRAE Chapters in the Western Region who come together to discuss chapter operations and to celebrate our successes. In attendance will be ASHRAE Board Members, Committee Chairs, Society Members, and ASHRAE members of each of the 14 chapters in Region X.

We are looking for sponsors for this special event. This is an opportunity for you to help the Golden Gate Chapter host one of the grandest meetings ever. Listed below are the sponsorship levels:

◆ **Diamond** (greater than \$1500)

- ◆ Special Mention of Sponsorship during Hornblower Yacht Cruise
- ◆ Special Mention of Sponsorship at Awards Luncheon
- ◆ Company Name & Sponsorship Level on Banner at Hornblower Yacht Cruise
- ◆ Company Name & Sponsorship Level on Banner at PG&E Energy Center
- ◆ Company Name & Sponsorship Level on Tricards placed on tables of every event
- ◆ Company Name & Sponsorship Level on Registration Package sent to all attendees

◆ **Platinum** (\$ 1,000)

- ◆ Special Mention of Sponsorship during Hornblower Yacht Cruise
- ◆ Special Mention of Sponsorship at Awards Luncheon
- ◆ Company Name & Sponsorship Level on Banner at Hornblower Yacht Cruise
- ◆ Company Name & Sponsorship Level on Banner at PG&E Energy Center
- ◆ Company Name & Sponsorship Level on Tricards placed on tables of every event
- ◆ Company Name & Sponsorship Level on Registration Package sent to all attendees

◆ **Gold** (\$ 500)

- ◆ Special Mention of Sponsorship at Awards Luncheon
- ◆ Company Name & Sponsorship Level on Tricards placed on tables of every event
- ◆ Company Name & Sponsorship Level on Registration Package sent to all attendees

◆ **Silver** (\$250)

- ◆ Company Name & Sponsorship Level on Tricards placed on tables of every event
- ◆ Company Name & Sponsorship Level on Registration Package sent to all attendees

◆ **Bronze** (\$ 100)

- ◆ Company Name & Sponsorship Level on Tricards placed on tables of every event
- ◆ Company Name & Sponsorship Level on Registration Package sent to all attendees

All Sponsorship monies can be paid with a check to "ASHRAE Golden Gate Chapter". Please mail your checks no later than December 15th to Bob Levi at the following address:

Edward B. Ward
Attn: Bob Levi
337 Roebbling Rd.
So. San Francisco, CA 94080

Thank you for your support and helping the Golden Gate Chapter host one of the grandest CRC meetings in Region X.

Submitted by: Robin H. James

Buildings Needed for Research:

UC Berkeley has been awarded an ASHRAE research grant to study how personal control of operable windows affects the variability of thermal environments in buildings, and how acceptable these conditions are to the occupants. We will be conducting a series of field studies involving both physical measurements and web-based surveys. We are looking for buildings that have operable windows, and are particularly interested in including some mixed-mode buildings that also have air-conditioning. Although we're open to learning about buildings from all locations, for convenience we would prefer buildings in Northern California. If you know of any buildings that we could use in our research, or have any questions about the project, please contact Gail Brager, 510-642-1696, gbrager@socrates.berkeley.edu.

PAOE Self Reporting Form

Please complete this form and fax back to Ernie French, (415)467-0900

Every year your board and committee chairs make a mad dash to report on member activities that result in Presidential Award of Excellence (PAOE) points. In general these are educational programs, presentations to professional groups and schools, and educational activities to encourage careers in engineering. These points, a relative of the fabled Brownie points, serve an important purpose: they force the Board of Governors to keep track of the ASHRAE related activities undertaken by our members. In turn they provide an oversight function for Society and Region of the Chapters and their operations. Please take a few minutes to fill out the attached form and return it to Ernie French. Each year we will post versions of this form on the chapter website and Fog Dispenser and have it returned to the Past-President who serves as the Chapter's PAOE Chair.

Code	Description
X1	Continuing education course (EX UC Berkeley HVAC/R Course) – not refrigeration related
X2	Continuing education course (EX UC Berkeley HVAC/R Course) – refrigeration related
X3	Technical program or paper to and outside organization or group – not refrigeration related
X4	Technical program or paper to and outside organization or group – refrigeration related
X5	Presentation on HVAC/R Technology to professional or business group
X6	Presentation to school about engineering and related technologies – K-12
X7	Presentation to school about engineering and related technologies – post high-school (e.g. college or trade school)

Name _____ Member #: _____

Code	Date	Length	Approximate Attendance	Description



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Chuck Shane • Doug Herbert • Phillip Chardon • David Day • Aaron Avila
Gladys Mendoza • Terri Shelton • Antonio Argente

SAN JOSE OFFICE 2348-C Walsh Avenue • Santa Clara, CA 95051-1301 • Phone (408) 330 – 6199 • Fax (408) 330 – 194

Mark Hardin • Andre Shinshiro • Dan Hornak • Stephanie Baggs • Ian Bailey • Thu Pham

SACRAMENTO OFFICE 3741 Business Drive, Ste 200 • Sacramento, CA 95820-2165 • Phone (916) 736 – 2888 • Fax (916) 451 – 1226

Al Alexy • Kevin McPeters • Diane Silva • Eric Synhorst • Janet Georgie
Pat McPeters • Georgia Clawson

ASHRAE Golden Gate Chapter Photo Gallery



Glen Friedman



Wasil wins the wine



Joe Olivier



Speaker



Gail Brager and Carl Friedman



Robin James et al



Mike Scofield



President Ben Sun