

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXIX - NUMBER 6

MARCH 2001

March Meeting Notice

Date: Thursday, March 1, 2001

NOTE NEW MEETING LOCATION

Place: Scott's Seafood Restaurant
Jack London Square
Oakland, CA.

Time: 5:00 pm: Technical Seminar
5:30 pm: Social Hour
6:30 pm: Dinner
7:30 pm: Program
8:30 pm: Adjournment

Cost: \$35.00 with reservations, \$37.00 without.

Reservation Policy:

Scott's requires a guaranteed minimum count and entrée selection by February 22nd. Members without reservations are welcome, but we cannot guarantee availability of food. Send your reservation in now!

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 Thursday, February 22, 2001.

Pre Meeting Seminar

"New Requirements for Title 24"

Find out what changes to expect from the new Title 24. See inside for more details

March Program:

"Cooling California Computer Centers"
Speaker: Keith Donnavant, P.E.

With their demands for dependable HVAC and 24/7 operations, computer centers have always been large energy users. With California's continuing energy crisis, these centers have come under scrutiny because of their high-energy demands.

This month's program brings Keith Donnavant to discuss the latest trends and methods for designing the HVAC for these sophisticated facilities. The presentation is a summary of Keith's article of the same name that is scheduled to be published in March's HPAC magazine.

Keith Donnavant, National Accounts Manager for Des Champs Laboratories 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



Golden Gate Chapter President's Message

February 2001

Dear Golden Gate Members:

S h a r e Y o u r W e a l t h !

Many of you may have read the recent Chronicle Article about Bill and Melinda Gate's Foundation giving away billions of dollars. Mr. Cory Palmer, research chair, may not agree with me regarding my thoughts on sharing your wealth, but I am not asking you to share your monetary wealth. I am asking you to come to the local Golden Gate Chapter ASHRAE meeting and share your wealth of knowledge and experience.

There are many younger members who have arrived in the San Francisco Area in the recent years and would welcome an opportunity to meet some of the members who have 'acclimatized' to the Bay Area HVAC & R industry. I know that it takes time to come to the meeting and the travel to San Francisco is sometimes daunting, but the personal satisfaction of sharing knowledge and experience with new members about the Bay Area HVAC & R industry is the invaluable part being a chapter member.

In order to facilitate the travel for the members who live in the East Bay, we will be having the March meeting in Jack London Square in Oakland. For those of you who missed our last meeting in the World Trade Club be sure to read the Meeting Minutes when our San Francisco AHJ (Authority Having Jurisdiction) share their views on the common plan check issues.

We will also announce the Nominating Committee members who will select the slate of officers who will serve the Golden Gate Chapter for 2001-2002. If you would like to make a nomination for consideration, be sure to mention it to the Nominating committee Chair Mr. Mike Scofield.

Look forward to seeing you in Oakland.

P.S. Does anyone know if this will be the first time we have met in Oakland?

Regards,

Benjamin Sun
GGASHRAE President
2000-2001

Region X Chapter's Regional Conference (CRC)

14 chapters of ASHRAE and several Society Officers are coming on San Francisco on May 3rd to 5th 2001. The event is the Region X Chapter's Regional Conference (CRC) and the Golden Gate Chapter/Redwood Empire Section are co-sponsoring the event. This event features a dinner cruise, a wine country tour, a billiard's tournament and workshops on chapter operations. Full information is available on the Region X website at, <http://www.ashraex.org/FSOps.htm>. We need volunteers to help with this event. We also need to borrow RGB projection units for the workshops on Friday May 4th and Saturday May 5th. If you are interested in volunteering for this important event or if you have an RGB projector that we can borrow, please contact Mark Hydeman by email at mhydeman@taylor-engineering.com or by phone, 510-749-9135.

Change of Address?

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

REGISTER NOW FOR THE 2001 ASHRAE PRODUCT SHOW!

The annual Product Show will be held on Thursday, April 5 at the PG&E Pacific Energy Center in San Francisco. This year's Product Show is sponsored by Golden Gate ASHRAE; no other professional organizations are involved in the organization or planning. More than one hundred attendees are expected, including mechanical contractors, consulting engineers, architects, building owners, and sales representatives.

If your firm has exhibited at past Product Shows, you may be familiar with this annual ASHRAE event. If 2001 will be your first year as an exhibitor, you should be prepared to generate interest in your product or firm, answer questions from other ASHRAE members, and enjoy the exposure you will receive.

The **schedule** for April 5, 2001 will be as follows:

2:00 – 4:00 p.m. Exhibitor Setup

5:00 – 6:30 p.m. Table Top Displays/Social Hour/Hors d'oeuvres (bar opens at 5:00)

6:30 p.m. Dinner (make payment and reservations through ASHRAE)

7:30 – 8:30 p.m. Meeting/After Dinner Program for ASHRAE.

After dinner, each exhibitor will make a *30-second* presentation. The topics can be humorous and/or informative.

Letters and applications will be sent to all of the 2000 Product Show exhibitors by March 1. Any firm that has not participated in the past should contact Cory Palmer with any questions. New participants are welcome. We are striving for a mix of equipment manufacturers, consulting engineers / design firms; technology companies (internet and/or software geared to the engineering and construction industries), and HVAC service companies.

Respectfully submitted,

Cory Palmer

2001 Product Show Committee Chair

415-467-7600 Phone

415-467-0900 Fax

cpalmer@norman-wright.com

MONTHLY RESEARCH REPORT

MARCH 2001

We have reached 20% of our chapter's annual goal for Research. Please remind your colleagues and clients that a 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.

February Contributors:

Recent Corporate Honor Roll Investors (\$150.00 or more)

C & B ENGINEERS, MAZZETTI & ASSOCIATES

Recent Individual Honor Roll Investors (\$100.00 or more)

Leo Cooper

Ernie French

All contributions should be made to ASHRAE research and mailed 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

Pre Meeting Technical Seminar

“New Requirements for Title 24”

Mark Hydeman, P.E. from Taylor Engineering will present the new Title 24 mechanical requirements that take effect in July of this year. Come to the seminar and get a “heads up” from one of the authors of the new code!

Copies of the upcoming standards can be obtained from the California Energy Commissions website at http://www.energy.ca.gov/ab970_standards.

Being a consulting engineer (i.e. low on the food chain), Mark says "buy your own damn drinks."

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For March 1st, 2001

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

Taylor Engineering is looking for HVAC design engineers to join us as we expand. We specialize in innovative large building HVAC and control system design, energy and indoor air quality analysis, and system commissioning. Current projects include the new GAP Headquarters building in San Francisco, GAP San Bruno Phase II, Electronic Arts II in Redwood City, Palm Inc. Campus in San Jose and the Title-24 Energy Standard for 2005. Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals and excellent presentation and writing skills. Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Design/build or field experience is also desirable. Excellent work environment in Alameda. High salaries for top performers.

Send resume to:

Glenn Friedman, Taylor Engineering, 1305 Marina Village Parkway, Suite 101, Alameda, CA

Tel: (510) 749-9135. Fax: 510-749-9136

E-mail: gfriedman@taylor-engineering.com

Redwood Empire ASHRAE Presents its Spring Seminar

ENERGY SAVING & DEMAND LIMITING STRATEGIES FOR HVAC

The recent energy crisis in California has once again put energy conservation and peak demand limiting in the forefront. California has run out of generating capacity and the only source of new energy is through effective energy conservation. This half-day seminar will address strategies that can be employed to reduce energy consumption and costs through implementation of demand limiting strategies. Seminar topics will include thermal energy storage, DDC control strategies, variable speed pumping & central plant optimization. This seminar is essentially a condensed version of the presenter's two popular ASHRAE Professional Development Seminars.

About the presenter:

Frank Mayhew is a principal/ owner of EC/TC Consulting Engineers in Sebastopol with an in-depth experience in DDC control applications. Mr. Mayhew is currently a lecturer in ASHRAE's Professional Development Seminar series and is active in ASHRAE's Technical Committees on Building Operation Dynamics and Temperature Controls. Mr. Mayhew is also an instructor at the University of California, Berkeley extension and featured speaker at ASHRAE meetings.

When: Thursday, March 22, 2001

Time: From 1:00PM to 5:00PM

Where: The Double Tree Hotel
One Double Tree Drive
Rohnert Park

Cost: Early Registration By March 7th. \$50.00 per person
Late Registration \$60.00 per person

Space is limited so register early to reserve you spot at this important seminar.

(return this portion with your registration fees)

Energy Saving and Demand Limiting Strategies for HVAC

March 22, 2001 from 1:00PM to 5:00PM at the Double Tree Hotel, Rohnert Park

Name(s) _____

Company _____

Address _____

Phone _____

Return Completed Form to:

Redwood ASHRAE
P.O.Box 365
Napa, CA 94559

Questions concerning this seminar
can be directed to Paul Irwin at
707-255-1811 ext. 314 or
<pdirwin@bellproducts.com>

Fax _____

ASHRAE Golden Gate Chapter – Code Review Committee

Golden Gate Chapter's Code Review Committee was re-established in 1998 by Dick Glumac after several years of inactivity. We have met almost every month since November 1998. There have been several topics reviewed: IBC 2000 Code, Smoke Control Sections of IBC and UBC, ASHRAE's "Design of Smoke Management Systems" Manual, misc. revisions to the California Building Standards Code dated May 19, 1999, NFPA Building Code, and a few other subjects.

In most cases our review comments were sent to the appropriate parties involved with authoring upcoming changes of each code or standard. The intent of the Committee is to create a voice that represents our chapter and our profession and to make sure it is heard. The committee includes engineers, equipment representatives, code officials and contractors.

Our most recent topic was the upcoming changes to the California Energy Code, Title 24 Part 6. The Chapter's members should be aware that the California Energy Commission finalized the new Energy Code per Assembly Bill 970 in January. The new code will be in effect June 1st, 2001. You can visit the CEC's website to get more info or to download the new Energy Efficiency Standards at: <http://www.energy.ca.gov/title24/index.html>

We encourage any interested chapter members to join the Code Review Committee. Please contact Scott Wayland at s.wayland@glumac-sf.com or at (415) 398-7667. We will have the next meeting on Tuesday March 13th 2001 at noon in Glumac International's office at 275 Battery Street, Suite 220 San Francisco, CA 94111.

If there are specific code issues that you think the code committee should review, please send topics to Scott Wayland.

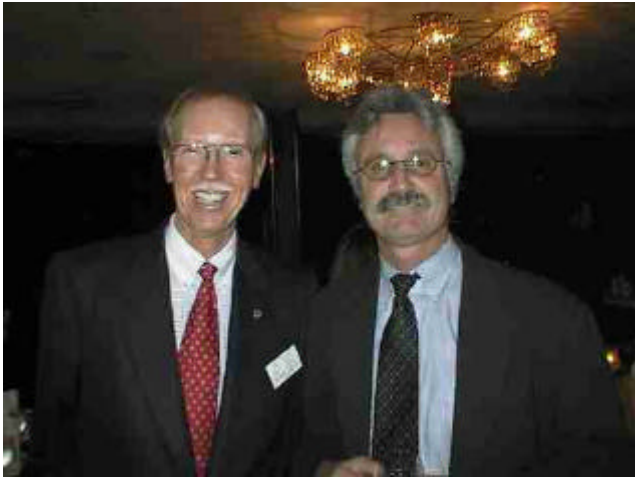
Currently the committee members are:

Scott Wayland, Chair
Robert Voelz, Co-Chair
Dart Rinefort
Dennis Thompson
Sanjay Aggarwal
Charles Farrell

Summary of the February Meeting's Program: "An Evening with the Inspectors"

Art Bree brought out a lot of issues pertaining to title 24, mechanical and building codes, such as:

- a) All title 24 forms must be shown on the plan with signatures on energy calculations.
 - b) Electric heat must meet title 24 requirements.
 - c) Garage exhaust must be 30 ft. from the property line
 - d) Fireplace inside the bedroom is highly discouraged unless you have a very high liability insurance.
 - e) New chiller to existing building over 100 HP or more must be on a rated enclosure with calculated ventilation requirements
 - f) No transfer opening on corridors.
 - g) Shaft over second floor must be enclosed with rated enclosure
 - h) Grease duct fire wrap in lieu of rated enclosure must be U.L listed
 - i) Grease duct clean out must be at every change of direction at every 12ft. And if you have a high riser you must have a min. of 22"x22" clean out at the top and bottom.
 - j) U.B.C section 905, requires an engineered smoke management system for all new atria, high rises, and malls based upon a so called rational analysis
 - k) Stair pressurization must provide pressure differential of 0.05" between stairs, vestibule and the space with max allowable door opening force.
 - l) Loopholes on fire/smoke dampers can be discussed with him when designing a smoke control system.
- Lastly Art voiced out his opinion to a lot of permit expeditors. He called them rats on their lack of respect to the engineering society.



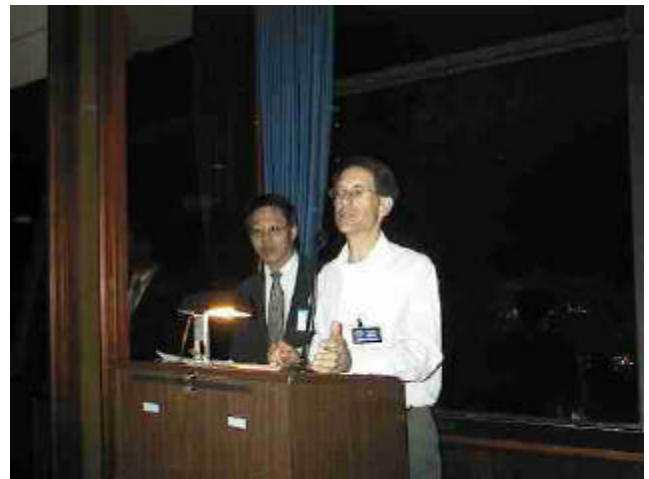
Dick Charles and Captain Ballard



Joe Olivier and Ben Sun pose for their mug shots



PG&E reps Wayne Womer and Charlie Nadig before the lights went out



Student Activities Chair Glen Freidman



The Golden Gate Chapter toasts Inspector Art Bree (left)



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