

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 3

DECEMBER 2001

## December Meeting Notice

**Date:** Thursday, December 6, 2001 at 5:30pm

**Place:** **San Mateo Marriott**  
1770 South Amphlett Blvd  
San Mateo, CA 94402  
(650) 653-6000  
*Joint with San Jose Chapter*

**Cost:** \$35 for GGASHRAE members and guests **w/ advance reservations**  
**\$42** for non-members and **all w/o reservations.**

**Time:**  
5:00 pm Technical Pre-meeting: Title-24, 2005 Standards by Mark Hydeman of "Taylor Engineering"

5:30 pm Social Hour

6:30pm Dinner

7:30pm Guest Speaker, Kent Peterson

All reservations must be received by **Tuesday November 27<sup>th</sup>**. Contact Robin James via e-mail (ggashrae@hotmail.com) or fax (707-745-5999). Please provide your name, phone number, total number of reservations and the names of those in your party.

## December Program: Speaker: Kent Peterson

### How to Effectively Communicate Control Strategies in the Sequence of Operations

The topic this month will discuss how to effectively communicate HVAC&R control strategies using the Sequence of Operations. Many designs today lack an adequate Sequence of Operations. Systems designers are tasked with designing energy-efficient functional systems to



meet a given design criteria. We select equipment components and assemble them into these functional systems. It is essential to document the intended system operation and interaction in the Sequence of

Operations. Many decisions require a thorough understanding of elements controlled and their effect on other system parameters.

Kent Peterson, P.E., will discuss how to effectively communicate system operational parameters for others to understand. His presentation will provide a logical way for engineers to approach conveying this information. He will explain issues faced by both system designers and control system programmers.

# Golden Gate Chapter President's Message

## December 2001

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### **The Beginning of a New Era!**

Dear Golden Gate ASHRAE Members:

Do you still receive the Fog Dispenser courtesy of your friendly letter carrier? Are you currently holding the familiar beige paper in your hands right now? If so, you may want to save your copy of the last edition of the Fog Dispenser that will be mailed to our members!

At the November board meeting, a motion was passed to end the printing and mailing of the Fog Dispenser to our members. For many years the issue of producing a printed newsletter and mailing some 600 copies every month to our active members has been debated. The board believes that the Fog Dispenser is a vital communications medium for the chapter, but has questioned the ever-increasing costs involved in the current method of delivery.

For some time the Fog Dispenser has been available on our website in "pdf" format that can be downloaded and read on your computer. If you're like me and prefer reading the actual pages, the file can be printed out on your computer. Currently over 45% of our members are listed as "e-members", meaning that each month they receive an email notice when the new Fog Dispenser has been posted. In light of the recent troubles with mail contamination, it seems to make sense to end the mailing of materials that are available electronically. In the next month, we will be adding every members email address to our "e-members" list.

One of the benefits of our "New Era" of the Fog Dispenser is that we will be able to show more of the pictures from our chapter meetings. As you know, Mike Scofield, does an excellent job of documenting our meetings. With the printed Fog Dispenser, we always had to limit the number of photos we could present in the Photo Gallery.

As we transition into this "New Era", I ask for your patience and feedback so the end result is something that the chapter can be proud of. I have listed below some of the concerns that have been a part of the board's discussion of this matter as well as the proposed solutions.

One last note: This month's meeting is our now-annual joint meeting with the San Jose Chapter. For me, it is my favorite meeting of the year. It's a great opportunity to catch up with not only our own members, but our friends in the South Bay as well. This year the Golden Gate Chapter is hosting the raffle. Last year the San Jose Chapter raised the bar as far as raffle prizes go. Our challenge is to raise the bar once again. If you would like to donate to the cause, please call Nicolina Guiliano, our raffle chair at 650-872-5246.

***Respectfully submitted,***  
***Joseph R. Olivier, Chapter President***



*"But I don't have e-mail"*

If you don't have e-mail, we will send you the Fog Dispenser as a fax. If you don't have a fax machine, we will print out the Fog Dispenser and mail it to you. If this situation applies to you, please call me and let me know (510-498-1171 ext. 38) so the proper arrangements can be made.

*"I can't handle any more email!"*

You can easily opt out of the email notification and visit the website to view the latest edition of the Fog Dispenser. Details will be provided on the email.

<< *President Joe Olivier speaking at the November Meeting at the Pacific Energy Center*

# 2001 – 2002 PROGRAMS

## GOLDEN GATE CHAPTER OF ASHRAE

DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
Dec 6	San Mateo Marriott Joint with San Jose Chapter	Title-24, 2005 Standards by Mark Hydeman of "Taylor Engineering"	Building Commissioning	Kent Peterson
Jan 10	Carnelian Room San Francisco	None	Taking Advantage of New Technology for Chilled Water Systems	Ron Schneider Trane
Feb 7	Scott's Seafood Oakland	Small Tonnage Absorption Chillers by Patrick Hale of "YAZAKI"	Review of Mechanical Utilities in the Semi-Conductor and Bio-Tech Industries	Danny Nielson P.E. ACCO Inc.
Mar 7	Embassy Suites San Rafael Joint with Redwood Empire Section	Mark Rubin of Capstone Turbine presenting Microturbine Generator Applications	Effective Ventilation Design: Diffusers, Box Minimums, OSA Damper Control	Dan Int-Hout Carrier
Apr 4	PEC San Francisco	Product Show	Scholarship Winners Science Fair Award Winners	Winners
May 2	Genentech Field Trip	None	Genentech, South San Francisco Field Trip	Mark Hannon Genentech
Jun 6	Carnelian Room San Francisco	Technical Presentation on Hydronics System and Control Valves by Robin James of "Belimo"	The Seven Habits of Highly Effective People Spouse's night	Werner Buck Belimo

### Speaker – Kent Peterson

Kent Peterson, P.E. has over twenty years of experience working in consulting engineering. He is the Chief Mechanical Engineer and a Principal of P2S Engineering in Long Beach. His design experience includes large institutional and advanced technology projects. His experience with HVAC control systems includes designing, commissioning and programming control software.

Mr. Peterson is currently serving as Director and Regional Chair for Region X and is past President of the ASHRAE Orange Empire Chapter. He currently serves as a member on the ASHRAE Board Planning Committee. He is a past member of ASHRAE TC 1.2, Instruments and Measurements, TC 1.4, Control Theory and Application and GPC 13, Guideline for Specifying Direct Digital Control Systems. Mr. Peterson has authored a number of papers and has made presentations to ASHRAE, ISA and AEE.



*Mike Scofield a NEW ASHRAE Fellow*



*Carl and the Bragers*



*Jennifer, Joe, and Bob - our Golf Team*

# MINUTES OF NOVEMBER 1, 2001 CHAPTER MEETING

Location – PG&E Pacific Energy Center, San Francisco

?? The pre-meeting technical seminar was conducted by Jenny Abney from Titus on ECM motors in terminal units

?? Meeting called to order at 7:07 p.m.

?? Minutes from October meeting were approved

?? Self introductions

?? David Dacus, Research Promotion Chair, pointed out the table cards recognizing this year's Honor Roll contributors. The Golden Gate Chapter Board has all contributed at the Honor Roll level thereby achieving the Full Circle award. David reported that a local company, Thermophysics Research Center, was awarded a research grant of \$101,000 for refrigerant research. Your contributions do support your community.

?? Mike Scofield, who recently has received the Fellow designation, was presented with his new Fellow name badge by Robin James

?? Bob Polizzi and Jennifer Jobes of California Hydronics were presented with certificates for running the very successful June 2001 Golf Tournament

?? Glenn Friedman, TEGA-R Chair, discussed the Title 24 Energy Code proposed revisions for non-residential construction. The issues of oversizing and load calculations are controversial, and Glenn asked Chapter members to comment on the proposed revisions, now that there is the opportunity for public review. More information is on the CEC website, and a link to it will be posted on the GG Chapter Website ([ggashrae.org](http://ggashrae.org)).

?? Richard Gee noted the passing of his friend Joseph Arthur McQuillan. He died on October 11<sup>th</sup> at age 74. Richard told us about Joseph's personal and professional life.

?? Dr. Bjarne Olesen, an ASHRAE Fellow and Distinguished Lecturer, and Head of Research and Development at Wirsbo-Velta GmbH KG & Co. Norderstedt, Germany, was the main speaker and his topic was "Controlling Buildings with Floating Temperatures to Optimize Comfort and Energy". Bjarne discussed using water based radiant heating and cooling, where pipes are embedded in the slabs in commercial buildings. Two of Bjarne's papers are posted on the GG Chapter Website.



*Richard Gee give eulogize Joseph McQuillan*



*Pre Dinner seminar by Jenny Abney with ASHRAE members*



*November Speaker Dr. Bjarne Olsen and Rita*



*Our UCB student guests and Edgar*

## MOTIONS BY GOLDEN GATE CHAPTER BOARD ON NOVEMBER 7<sup>th</sup>

1. Motion by Ben Sun that December's Presidential message in the Fog Dispenser will state that December Fog Dispenser will be the last Fog Dispenser that will be printed and mailed. The Fog Dispenser will also contain a separate notice announcing the change. The Fog Dispenser will still be published and will be available in PDF format via email or for download from the chapter website. For those who cannot access email or the web, a fax alternate will be available. Seconded by Jon Wintermeyer. Motion passed – 6-0-0
2. Motion by Bob Levi to accept the Bylaws and Constitution as amended by Society. Seconded by Ben Sun. Motion passed – 6-0-0
3. Motion by Joe Olivier to accept Gail Brager's request that the Golden Gate Chapter sponsor three ASHRAE students including Jane Lin for a trip to the Winter Meeting upon submission of an essay. Up to \$700 per person will be offered – total of \$2,100. Students to be prepared to report at a future chapter meeting. Seconded by Bob Levi. Motion passed – 6-0-0

# ASHRAE Research Report

Many members of our Chapter probably do not realize that their Research contributions **DO** come back to our chapter and our San Francisco peers. Vladimir Geller of Thermosphysics Research Center in San Francisco recently received a grant for \$100,000 to perform research on measurements and model development for R-400 series refrigerants. Congratulations Vladimir.

The Golden Gate Chapter has recently 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!

At the monthly meetings please take notice of the table cards. The cards list every individual and corporation that has given to ASHRAE Research, on any level, this campaign year. Thanks for your support!

## The following corporations and individuals have donated on the honor level in the last month.

### **Corporate Honor Roll Investors (\$150.00 or more)**

*E.B. Ward*

*Norman Wright*

*Gayner Engineers*

### **Individual Honor Roll Investors (\$100.00 or more)**

*Robert Davis*

*Glenn Friedman*

*Edgardo DeGuzman*

*John O'Brien*

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

ASHRAE Research  
c/o David Dacus  
Taylor Engineering  
1305 Marina Village Parkway, Suite 101  
Alameda, CA 94501  
(510) 749-9135 phone  
ddacus@taylor-engineering.com



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## 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 several 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.

Recent topics have included the recent changes to the California Energy Code, Title 24 Part 6. The California Energy Commission finalized the new Energy Code per Assembly Bill 970 in January 2001 and the new code went into effect on June 1<sup>st</sup>, 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>

The new 2001 Nonresidential Manual is not available yet.

Currently we are focusing on the draft version of the 2003 UMC. We are reviewing the IAPMO 2001 Report On Proposals (RoP) that indicates the proposed changes. Public review and comment period ends on February 1, 2002. Our intent is to submit comments on the proposed changes by then. Interested chapter members can get a copy of the RoP from <http://www.iapmo.org>

We encourage any interested chapter members to join the Code Review Committee. Please contact Scott Wayland at [s.wayland@glumac-sf.com](mailto:s.wayland@glumac-sf.com) or at (415) 398-7667. We will have the next meeting on Tuesday December 11<sup>th</sup> 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

Dennis Thompson

Madhav Chikhale

Steve Taylor

Art Bree

Hugh Tuck

Sanjay Aggarwal

# DECEMBER FOG DISPENSER ANNOUNCEMENT ANNUAL CHAPTER ROSTER

The Golden Gate Chapter's roster will be published at the end of January. Your company advertisement may be included for the following charges:

Full-Page	\$150.00
Half-Page	\$100.00
Business Card	\$75.00

The most prominent locations for full-page ads will be auctioned. These locations are: "back cover" – highest bidder, "inside back cover" – second highest bidder, and "inside pack page" – third highest bidder.

Bids must be submitted by fax or e-mail to Cory Palmer no later than the January chapter meeting (01/10/02). The winners of the three prized locations will write two checks. \$150.00 is the full-page ad charge, and the balance goes to ASHRAE Research. These companies will be recognized for their corporate contributions to Research.

Artwork must be "camera ready" or in electronic format. Call Cory Palmer if there are questions about the publication format requirements.

For an additional \$30.00, you can place the same advertisement and a company listing on the Golden Gate Chapter web site. If future changes are required, we will modify your electronic ad at your request for \$10.00.

**It is important** that each Chapter member updates his or her database information with Society. We get our data for the roster from Society's database. To change your information with Society, call (800) 5-ASHRAE or go to the "Members Only" section of the Society home page ([www.ashrae.org](http://www.ashrae.org)). If you need to change your data with Society, it would be a good idea to send Cory Palmer a written notice, in case there is a delay at the Society level changing their master database.

*Please send all bids, artwork, and updates to:*

**Cory Palmer**  
**c/o Norman Wright Mechanical**  
**Equipment Corp.**  
99A South Hill Drive  
Brisbane, CA 94005  
415-467-7600 phone  
415-467-0900 fax  
[cpalmer@norman-wright.com](mailto:cpalmer@norman-wright.com) e-mail

*Robert Marcial our Web Page guru has added a Picture Gallery on the "Calendar" page. Check out selected pictures from the last two Chapter Meetings in a pop-up format. Watch for photographers Mike Scofield and Ben Sun at your next meeting!*

<http://www.ggashrae.org>

*Fog Dispenser Editor – Jane Lin >>*



## \*\*\*Sponsors Needed\*\*\*

We are in search of Companies willing to sponsor a monthly meeting by donating prizes for the "Marble Game" raffle. The majority of the money raised at each meeting is donated to our scholarship fund. Posters will be made advertising the company name and logo of that month's sponsor.

If you or your company are interested in helping, please contact Nicolina Guiliano @ 650-872-5246 or email [nicolina.guiliano@ebward.com](mailto:nicolina.guiliano@ebward.com).

<< *Edgar draws again! But did not win the \$\$*

*Robin James and Joe Olivier at the Registration Desk >>*



# ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

**For December 6, 2001**

**Email:** Robin James (ggashrae@hotmail.com)

**FAX:** (707) 745-5999

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):

\_\_\_\_\_

## 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).

## Employment Opportunities

### Employment Opportunity at BWF Consulting Engineers

BWF Consulting Engineers, a Mechanical/ Electrical/ Plumbing Engineering firm for over 50 years in the San Francisco area, is seeking a Senior level (10+ years) Mechanical Engineer with registration in California to head their Mechanical HVAC and Plumbing department. Duties will include management and design. BWF is located in South San Francisco near SFO.

Please send resume & cover letter to:

**Michael Voigtlander**

BWF Consulting Engineers  
510 Myrtle Avenue, Suite 100  
South San Francisco, CA 94080  
(650) 871-0220 (650) 871-0224 FAX  
[mvoigtlander@bwfce.com](mailto:mvoigtlander@bwfce.com)

**Taylor Engineering** is looking for HVAC design engineers to join our team. We specialize in innovative large building HVAC and control system design, energy and indoor air quality analysis, and system commissioning. Recent projects include the UC Merced Office/Classroom, Master Specifications and commissioning, GAP Headquarters building in San Francisco, GAP San Bruno Phase II, Electronic Arts II in Redwood City 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.

Please send resume to:

**Glenn Friedman**

Taylor Engineering  
1305 Marina Village Pkwy, Suite 101  
Alameda, CA 94501-1028  
Fax: 510-749-9136.  
E-mail: [gfriedman@taylor-engineering.com](mailto:gfriedman@taylor-engineering.com)

### ESTIMATOR for Piping and/or Plumbing

3-5 years experience with Commercial/Industrial Computer skills (Quick Penn and Estimation, etc.) Computer and System knowledge, Proposal Letters, Conceptual Estimating. Competitive Salary & benefits package.

Fax or email resume to:

FAX (510) 576-1004

email: [e.mendes@marelich.com](mailto:e.mendes@marelich.com)

### Employment Opportunity at Davis Energy Group

We have an outstanding opportunity for a senior level design engineer. A minimum of 3 years of mechanical design experience is required. This position entails designing HVAC systems and cogeneration installations for residential and commercial buildings. DEG offers an outstanding working environment, flex. Time, and a generous compensation package.

Please send resume & cover letter to:

**Pat Teufel - Davis Energy Group**

123 C Street  
Davis, CA 95616  
Fax: 530-753-4125  
E-mail: [pteufel@davisenergy.com](mailto:pteufel@davisenergy.com)

**Flack & Kurtz Engineers**, an international engineering consulting firm, has openings for HVAC design engineers with minimum of 5 years design experience to join our innovative and dynamic engineering group. Candidates must have mechanical engineering degree, excellent communication, writing and presentation skills and working knowledge of Auto- CAD and Windows. Excellent work environment, growth potential and compensation package.

Please send Resume to:

**HVAC Department**

Flack+ Kurtz Consulting Engineers  
343 Sansome Street, Suite 450  
San Francisco, CA 94104.  
E-mail: [ben.sun@sf.fk.com](mailto:ben.sun@sf.fk.com)



**Engineered Systems Group**  
**7060 Koll Center Parkway, Suite 312**  
**Pleasanton, CA 94566**  
**(925) 426-1188 – Fax**

**Sales Manager**

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(925) 417-7202

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Greg Boyle

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Paul Christianson

(925) 417-7205

John Mitchell

(925) 417-7220

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Shaun Webster

(925) 417-7223

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