

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXIX - NUMBER 4

JANUARY 2001

January Meeting Notice

*To accommodate the real millennium,
we are holding our meeting on the 2nd
Thursday!*

*Once again, we will be having a
lunchtime meeting for January!*

Date: January 11, 2001

Place: World Trade Club, Suite 300 at the
world famous Ferry Building in San
Francisco.

Time: 11.30 am

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 Monday, January 8th.*

As you may have read in the papers, the World
Trade Club will be closing so that the
renovations can begin on the Ferry Building.
February will be the last time we will be at the
World Trade Club in the Ferry Building. Stay
tuned for our March meeting location.

January Program:

Building Science Research at UC Berkeley

Presentation

Dr. Brager will give an overview of research being done at UC Berkeley in the Center for the Built Environment (CBE). CBE is a University/Industry collaborative research center that serves as a unique model for how academia and the profession can work together to define research agendas and share results in a timely fashion. CBE's research falls into 2 broad categories: 1) the study of new technologies (e.g., underfloor air distribution, mixed-mode buildings, and wireless sensing), and 2) the development of methods for measuring building performance (e.g., web-based occupant satisfaction surveys, and productivity studies). Dr. Brager will talk about how CBE is set up to facilitate this collaboration, and will describe some of the research projects that are of the greatest interest to the HVAC industry.



Dr. Gail S. Brager received her Ph.D. in Mechanical Engineering from UC Berkeley, and has been on the faculty of UCB's Dept. of Architecture since 1984. She is an Associate Professor in the Building Science program, and the Acting Director of the Center for the Built Environment (CBE). Dr.

Brager is a Past-President of the ASHRAE Golden Gate Chapter, and has been actively involved with ASHRAE Society, particularly with TC 2.1 - Physiology and Human Environment, and Standards committee SSPC 55. She has also received numerous awards from ASHRAE, including the Distinguished Service Award, Crosby Field, Ralph G. Nevins, and Best Technical Paper.

Golden Gate Chapter President's Message

January 2001

Happy New Year ASHRAE members:

Now that the holidays are over and we are all back to work in the New Millennium, would you considered taking on some volunteer work for your Chapter?

The Golden Gate Chapter is hosting the ASHRAE regional meeting in May and we can sure use your help in the next few months. Please contact our esteemed Past President Mr. Mark Hydeman if you are able to help the Chapter. Mark can be reached at: mhydeman@taylor-engineering.com, or 510-749-9135.

Thank You.

Respectfully yours,

Benjamin Sun

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

www.ggashrae.org

SPRING 2001 COURSE OFFERINGS AT SFSU

School of Engineering at San Francisco State University is offering the following courses in the Spring semester starting January 29, 2001. We invite you to take your class of interest through open-university enrollment.

1. Principles of HVAC and Clean Room Technology: Offered MW16: - 17:25. The course includes application of Trace 7000 building simulation software.
2. Applied Stress Analysis: Offered on Tues. 12:10 - 2 pm (lecture), 2:10 – 5 pm lab. The course includes application of Pro-Engineer and Pro-Mechanical.
3. Process Instrumentation and Control: Offered on MW 17:35 – 18:50
4. Engineering Aspects of Air Pollution (Graduate): Offered Th18:10-20:55.

Please contact Professor Ahmad R. Ganji at (415) 338-7736 or aganji@sfsu.edu for further information.

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

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, Alameda, CA

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

E-mail: gfriedman@taylor-engineering.com

ASHRAE RESEARCH REPORT Golden Gate Chapter

Many members of our Chapter probably do not realize that their Research contributions **DO** come back to our chapter and our San Francisco peers. Everyone who attended the November meeting at the Pacific Energy Center heard Gail Brager mention that the Center for Environmental Design Research at the University of California had just received great news from ASHRAE. Gail's group has received funding for 24 months of research on "The Effect of Personal Control And Thermal Variability On Comfort And Acceptability." Congratulations, Gail!

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

<i>Redwood Empire Chapter, ASHRAE</i>	<i>R. F. MacDonald Company</i>
<i>Taylor Engineering</i>	<i>York International Corporation</i>
<i>Tempco Equipment Company</i>	

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

<i>Ron Eng</i>	<i>Dale Missimer</i>
<i>Glen Friedman</i>	<i>James Quinn</i>
<i>Frank Mayhew</i>	<i>Mike Scofield</i>

On behalf of the Chapter, I thank all of you who have approached me at Chapter meetings and given me your contribution. To those of you who have not yet contributed this year, I look forward to hearing from you soon.

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

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

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

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

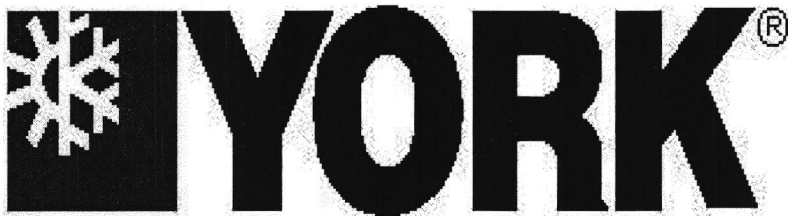
For January 11, 2001

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

FAX: (415) 788-6040

*If you cannot attend the meeting, please cancel your reservation by the **Tuesday prior to the meeting.***

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



York International Corporation
7060 Koll Center Parkway
Suite 312
Pleasanton, CA. 94566
Phone: 925-426-1188

ZONE SALES MANAGER: Mike Webster 925-417-7202

SALES ENGINEERS: Greg Boyle 925-417-7206

Glenn Cheek 925-417-7226
Allan Hampton 925-417-7209
John Mitchell 925-417-7220
Elaine Wang 925-417-7207

SALES ASSISTANT: Paula Bramhall 925-417-7204

YORK INTERNATIONAL CORP. PROUDLY SUPPORTS ASHRAE RESEARCH

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXIX - NUMBER 5

FEBRUARY 2001

February Meeting Notice

Date: February 1, 2001

Place: World Trade Club, Suite 300 at the world famous Ferry Building in San Francisco.

Time:

Social Hour	5:30 p.m.
Dinner	6:30 p.m.
Meeting	7:30 p.m.
Adjournment	8:30 p.m.

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 Monday, January 29th.

We're still looking for a location for our March Chapter Meeting. If you have any ideas or suggestions, email Joe Olivier at jolivier@syserco.com

February Program:

'An Evening with The Inspectors'

Join us for a very special evening when we play host to the Inspectors from San Francisco's Department of Building Inspection

For this month's program we will be featuring representatives from the Mechanical, Electrical, and Fire Protection divisions of the Building Inspection Department. These distinguished guests will be presenting their side of the regulatory process that is the very lifeblood of our projects.

Each representative will be giving a 15-minute presentation covering the issues and problems with the projects submitted to their department for approval. Attendees will hear about common mistakes that can derail the approval process of their projects as well as upcoming changes in codes and enforcement. After the last presentation, there will be a 15-minute question and answer period where you will have the opportunity to get answers to your questions on the approval process.

The chapter has also extended an invitation to the colleagues of the speakers from their departments to give our members an opportunity to improve their relationship with the departments.

Featured Speakers:

Arthur Bree, P.E. Mechanical Section

Ron Allen Electrical Section

Lt. Mario Ballard Fire Protection Section

Golden Gate Chapter President's Message

February 2001



Dear Golden Gate Members:

This month's Presidential message is coming to you without the usual Presidential writer's block therefore I do not have to suffer this monthly affliction. The message for this month is simple and yet very important to our Chapter. There are two very important issues that have been reoccurring and I am asking for your help.

1. Meeting Registrations: Our meeting registrations have been erratic and it has been difficult for Jon to predict the actual turn out. As some of you may recall our November meeting, at the Pacific Energy Center, we had extra members and guests show up without reservations and we actually ran out of food! At our January meeting at World Trade Club, with Gail Brager, we had a dozen No Shows and therefore missed our guaranteed minimum to the Club. The estimated extra cost to the chapter for January is estimated to be around \$500, as each meal at the World Trade Club cost us around \$44. The Chapter cannot sustain this level of subsidy. PLEASE HELP US! Register ahead of time and cancel early if you decide not to come to the meeting.

2. Address Changes: The Address for the Fog Dispenser is an ongoing issue, but let me give you an overview of the situation. The local membership address list is used for the mailing labels for the Fog and this list is generated based on the NATIONAL ASHRAE membership database. This list is updated on a monthly basis from National ASHRAE. If your address changes, **YOU need to contact the NATIONAL ASHRAE via the phone or the National Website.** The local member's address CANNOT be updated on our local database because it will get overridden on the update. PLEASE HELP US! Change your address on the National Web site at www.ashrae.org enter your membership and pin numbers (found on your ASHRAE membership card), upon completion of this, your address should be updated in a month for the Fog Dispenser.

So, this month's message is ordinary but very important to the Chapter. Perhaps next month I will become a would-be pundit or just your regular goofball President and take a shot in an annual prediction for what is ahead. Or maybe I will just lie low along with all those other false pundits and take a biting look at the year past! What do you think? Should I ask for a vote at the next meeting for the Presidential message? Should I dislike the out come, I can always shout: "RECOUNT!"

Respectfully yours,

Benjamin Sun,
ASHRAE Golden Gate Chapter President

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

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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

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FAX: (415) 788-6040

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COMPANY: _____ Phone: _____

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

_____	_____
_____	_____
_____	_____

ASHRAE RESEARCH REPORT
Golden Gate Chapter
FEBRUARY 2001

Remember, ASHRAE Research contributions are tax-deductible and 100% of your contribution funds Research projects. All of ASHRAE's operational overhead and full-time National employee overhead costs are paid from other sources. A contribution to ASHRAE Research is a great way to give back to your industry and fund your future!

January Contributors:

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

<i>Gerald Yaffe Associates</i>
<i>Glumac International</i>

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

<i>Ron Yaffe</i>	<i>Arthur Zigas</i>
------------------	---------------------

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**

ASHRAE'S Region X Chapters Regional Conference

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- ◆ **Platinum** (\$ 1,000)
- ◆ **Gold** (\$ 500)
- ◆ **Silver** (\$250)
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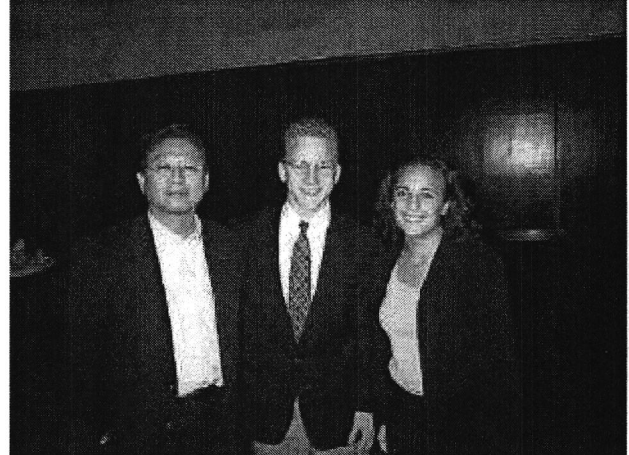
Edward B. Ward
Attn: Bob Levi
337 Roebling Rd.
So. San Francisco, CA 94080

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

January Meeting Chapter Picture Gallery



The Golden Gate Welcoming Committee



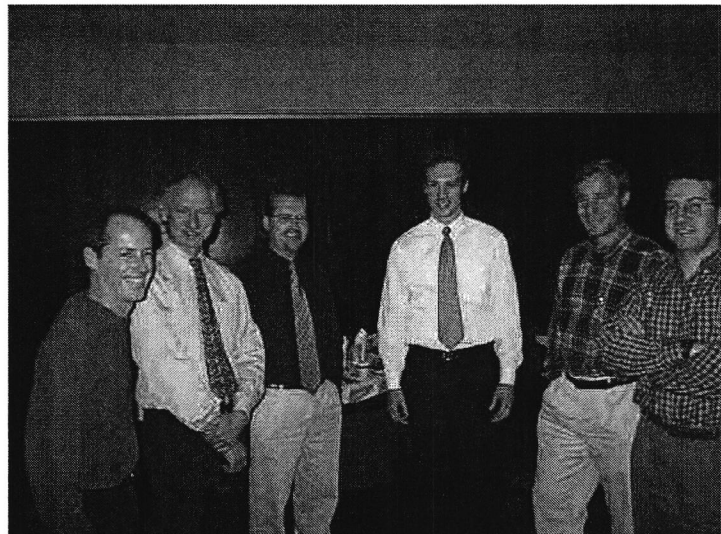
It's the Carrier Crew!



Robin James and Jon Wintermeyer man the Registration Table at the meeting



HEY Corey! We all need drink tickets!!



Engineers from HOK and Taylor Engineering trade war stories on their trek to the meeting

Thank you!

The Golden Gate Chapter recently received a very generous contribution to ASHRAE Research from the Redwood Empire Chapter of ASHRAE.

Please join your colleagues in the North Bay in supporting ASHRAE Research.

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 your 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:

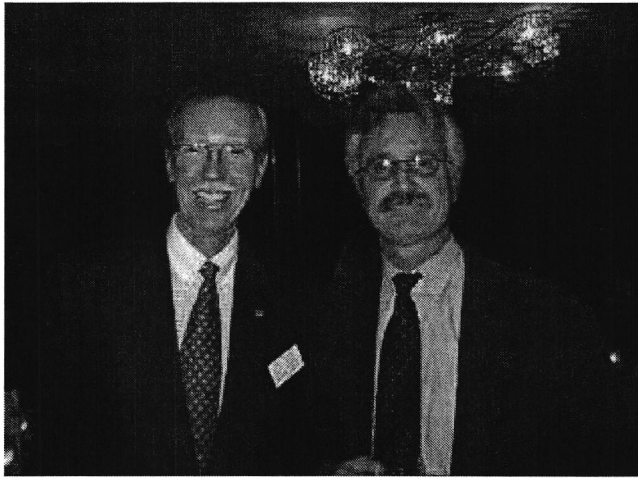
Scott Wayland, Chair
Robert Voelz, Co-Chair
Dart Rinefort
Dennis Thompson
Sanjay Aggarwal
Charles Farrell

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.

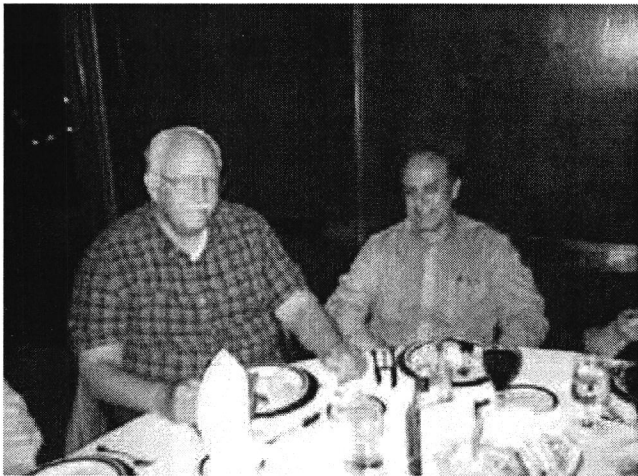
Lastly Art voiced out his opinion to a lot of permit expeditors. He called them rats on their lack of respect to the engineering society.



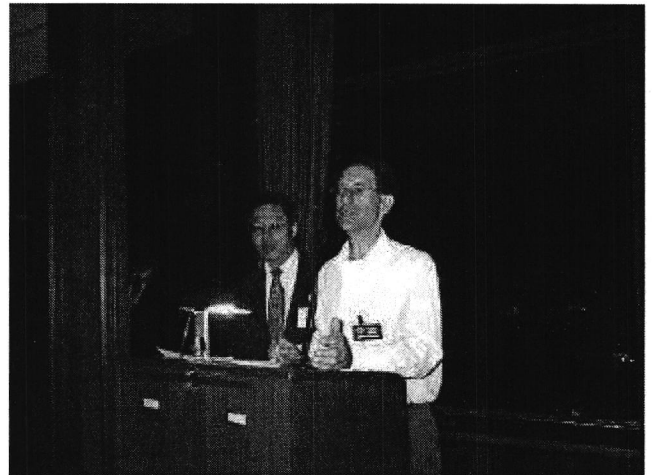
Dick Charles and Captain Ballard



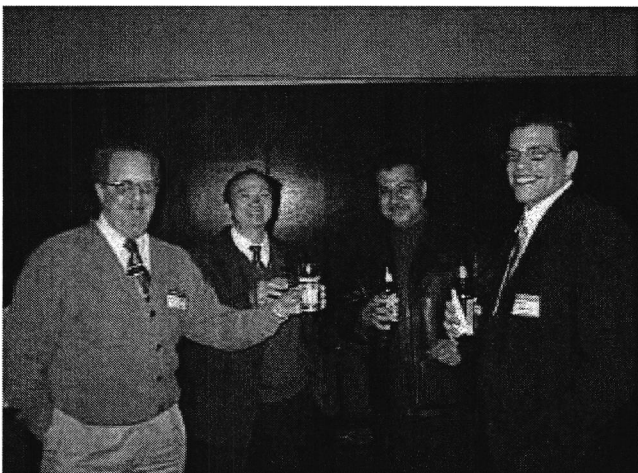
Joe Olivier and Ben Sun pose for their mug shots



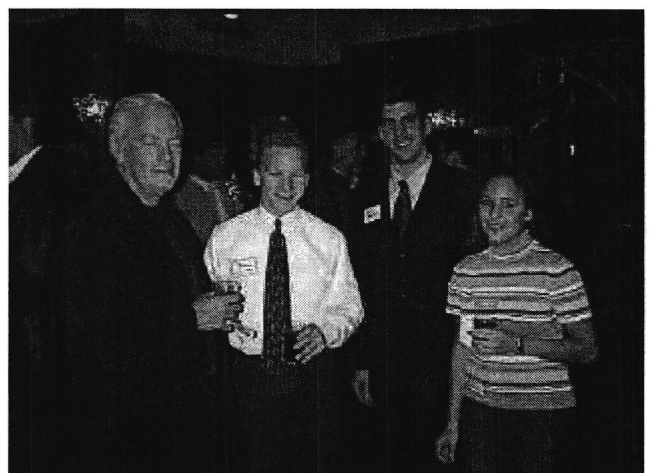
PG&E reps Wayne Womer and Charlie Nadig before the lights went out



Student Activities Chair Glen Freidman



The Golden Gate Chapter toasts Inspector Art Bree (left)



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NICOLINA GUILIANO
JON MALKOVICH
KIRK PETERSON

San JOSE – 408.453.3300

DICK BARCLAY
MICHAEL FULTON
TONY LORETELLI

CONCORD – 925.825.1540

ELIZABETH DUBENSKY
NICK DANN
BOB RALPH
DAVID WEST
GENE WEST

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXIX - NUMBER 6

APRIL 2001

April Meeting Notice Annual Product Show

Date: Thursday, April 5 at 5:00 p.m.

Place: PG&E Pacific Energy Center, San Francisco
851 Howard Street (between 4th and 5th)
Tel: 415.973.7268

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

Time:

3:00 - 4:30 p.m. Exhibitor setup
5:00 - 6:30 Table top displays / Social hour
6:30 Dinner (see reservations instructions)
7:30 - 8:30 Meeting / Student Night program / Product show participant presentations

All reservations must be received by Robin James by e-mail (rjames@belimo.com) or fax (707-745-5999) by Monday, April 2.

April Program: Product Show and Student Night

This annual Golden Gate ASHRAE event is a venue for local equipment suppliers and service companies to showcase their products and services to the Chapter membership. We always have a strong turnout of exhibitors; we expect 25+ tables to be filled this year. Building owners, consulting engineers, and contractors have the opportunity to discuss new products and product improvements before the monthly meeting.

Presentation:

Each exhibitor will make a 30-second presentation. The topics can be humorous and/or informative. Exhibitors can talk about an interesting product application, or explain how NOT to apply a particular product!

IMPORTANT: Presentations shall not be overtly commercial.

*A limited number of tables are still available. Contact Cory Palmer with questions or to register.

Phone: 415-467-7600 ext. 111
e-mail: cpalmer@norman-wright.com

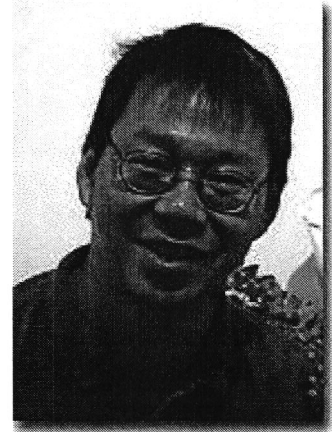
Golden Gate Chapter President's Message

April 2001

Dear Golden Gate Members:

More Sharing!

In last month's message I asked you to share your wealth of knowledge and experience with us at the local Chapter meeting. This month I continue on the same theme. The April meeting is Student Night and Product Show! We will be hosting many of the local University's Students as well as the Bay Area Science Faire Award Winners.



I was VERY surprised that the GOLDEN GATE Chapter had never before held a meeting in Oakland! My personal view of this situation is that the Golden Gate Chapter is A Bay Area Wide Chapter and NOT just a San Francisco Chapter! The name 'Golden Gate' implies that the chapter belongs to the Bay Area not just San Francisco! It is with this thought as well as the enthusiastic crowd of 96 people at the last meeting, that the Board of Governors will likely be rotating meeting locations next year! We will have some meetings in San Francisco, a joint meeting with San Jose down the Peninsula, a meeting with the Redwood Empire in San Rafael, meetings in Oakland.

What do you think of this? Any suggestions for the meetings?

Come and Share your wealth of information with the students and share your thoughts on next year's meetings with the Board.

PS: Come to the meeting and find out the VERY Special meeting place for the JUNE meeting. It is at a place that GGASHRAE has NEVER met before!

At your service

Benjamin Sun
President
2000-2001

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).

MONTHLY RESEARCH REPORT

APRIL 2001

ASHRAE operates on a June 30th Fiscal year, so we're entering the home stretch of this year's Research campaign. The Research chair thanks everyone for the support we've received so far from Bay Area individuals and businesses!

Since you may be congratulating yourself now for not leaving the HVAC/R industry to work for a "dot com" company, please consider giving back to our *relatively stable* industry through ASHRAE Research. Remember, 100% of your tax-deductible contribution goes to the national Research campaign fund.

We wish to recognize the following Research contributions received in February/March:

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

<i>Jim Nemechek</i>	<i>Wasil Popow</i>
---------------------	--------------------

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

SHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

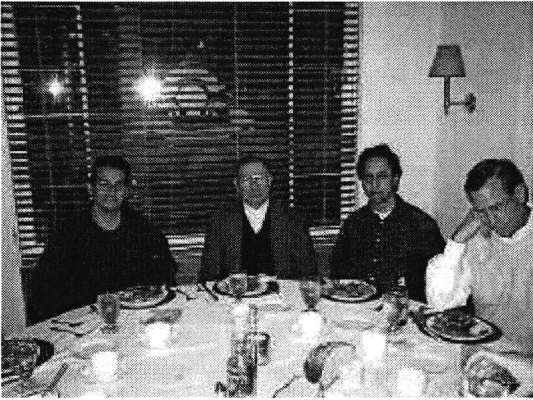
For April 5, 2001

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):

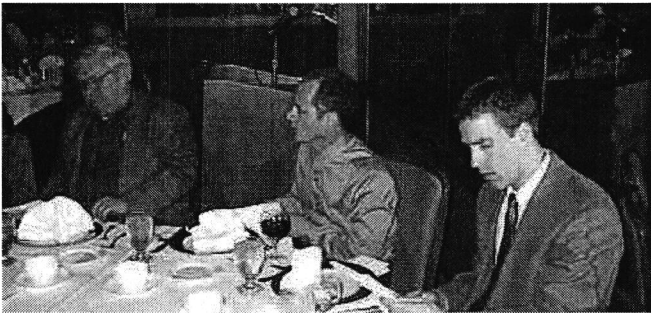
Golden Gate Picture Gallery



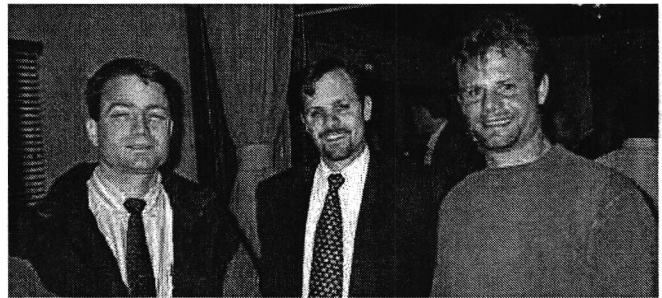
"Now eat your vegetables"



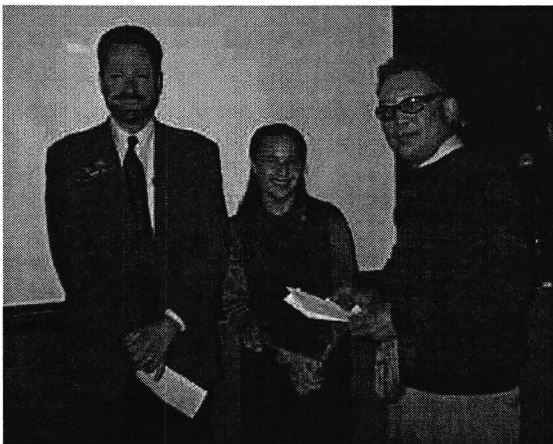
Former Fog Dispenser editor Debbie Marshal



Pre-Meeting Technical Seminar



Oakland A's Fans



Bob Levi loses the Marble Draw



Ready for the show!

Don't Miss these Upcoming Events:

Region X CRC to be held in San Francisco!

The Golden Gate Chapter is proud to be the host for the 2001 Region X Chapter's Regional Conference. The CRC will be held at the Pacific Energy Center May 3rd through the 5th. For more information visit: www.ashraex.org/crc

Golden Gate Chapter's 2001 Seminar

Will be held in conjunction with the CRC. On Thursday, May 3rd, the chapter will present:

"Today's Direct Digital Control Systems"

- **Solutions that Work**
- **The Latest Technical Advances**

Direct Digital Controls have made major advances in the past 5 years. This seminar is for engineers already familiar with basic DDC systems who want to learn what strategies and equipment really work in the real world. Our experienced speakers will also review the latest advances in networking and Internet capabilities and separate the "hype" from what is really useful. For more information and to register, please visit www.ashraex.org/crc/seminar

Date: Thursday March 3, 2001

Time: 9:00 – 4:30 pm

Place: Pacific Energy Center

Cost: \$50.00 per person includes lunch and a binder of material

Dinner Cruise on the Bay!

Friday May 4, 2001, 6-9 p.m.

Our Yacht leaves from Pier 33, HYI Dock promptly at 6:00 p.m.

The Golden Gate Chapter is pleased to present a very special event for our CRC attendees and chapter members on Friday night, May 4th. We have made arrangements for a dinner cruise on beautiful San Francisco Bay! For the low, low price of only \$50.00 per person you can be our guest as we sail around the bay, toast our hard work, and dine on a delicious gourmet buffet dinner. Your fee of \$50.00 includes the cruise, wine aboard, dinner, and the time of your life! A no-host cocktail bar will be available for those of us who appreciate a cocktail on the water.

Golden Gate Chapter Annual Field Trip

"An Engineer's Tour of San Francisco City Hall"

With CRC occupying our normal meeting time, our traditional May Field Trip will be held on Thursday, May 17th. This year's field trip will be a guided tour of San Francisco City Hall. After the tour, we will head over to Chevy's for dinner.

Date: Thursday May 17, 2001

Time: 5:30 – 7:30 pm

Place: Meet in the lobby of City Hall

Cost: \$35.00 per person includes the tour and dinner

EMPLOYMENT OPPORTUNITIES

Part-time job opportunity. **The Golden Gate Chapter of ASHRAE** seeks a Database Manager. We seek a candidate that would be able to make a two-year minimum commitment, would guarantee 2 to 4 hours of time in the first two weeks of each month from September through May and provide 6-12 hours of time in January or February to produce the roster. The existing database is written in MSAccess. Tasks for the Database Manager include the following:

Download and merge the latest data from ASHRAE's ftp site each month from September through May
Hand enter and track new member data from the Membership Chair (~10 to 20 entries per month)
Maintain a database of electronic members (note this could be turned into a list server feature)
Develop text files for the printer for mailing labels (monthly) Develop the data for the roster (once a year in January or February).

Interested candidates should provide a resume, a few paragraphs demonstrating knowledge of databases and hourly rates. This information should be forwarded to:

Mark Hydeman
Taylor Engineering, LLC
1305 Marina Village Parkway, Suite 101
San Francisco CA 94501-1028
510-749-9135
510-749-9136 Fax
mhydeman@taylor-engineering.com

AMERESCO, Inc., was founded by industry leader George P. Sakellaris and some of the most experienced executives in the energy services business to serve as a single source provider for energy management and energy savings solutions. AMERESCO, Inc.'s project expertise ranges from energy efficient lighting retrofits and building control optimization, to physical plant upgrades including the development, financing, construction and operation of central plant facilities. The Executive Management Team has an unmatched track record of success in the energy services business. With energy prices soaring the opportunities for energy conservation are exploding. AMERESCO, Inc. is seeking talented and creative individuals to join our Pleasanton, CA Team.

Engineers - Project Development and Project Management. Opportunities for mid-senior level engineers (BSME/EE) with practical evaluation and implementation experience in energy saving performance contracting projects including: motors, VSDs, HVAC retrofit and distributed generation projects. PE and construction oversight experience desirable.

AMERESCO, Inc. offers a competitive benefits program including Medical, Dental, STD, LTD, Life/AD&D, 401(k), FSA as well as Short and Long Term Incentive Plans.

Forward resume with cover letter and salary history to AMERESCO@mail.com.

An Equal Opportunity Employer.

Offices - MA, CA, NY, ME, NC, IL, OR, WA, FL

EMPLOYMENT OPPORTUNITIES – CONTINUED

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

UNDERFLOOR AIR DISTRIBUTION AT THE CENTER FOR THE BUILT ENVIRONMENT

Underfloor air distribution (UFAD) is a method of delivering space conditioning in offices and other commercial buildings that has begun to experience rapid growth in North America during recent years. Considered as a fringe practice in new office construction as recently as 1995, some designers and manufacturers are now predicting that within 5 years 35% of new offices will use raised floors (with or without UFAD), with 50% of those using UFAD. Well-designed UFAD systems have the potential to improve thermal comfort, improve indoor air quality, reduce energy use and life-cycle costs, and improve worker satisfaction and productivity over conventional practice, making them an extremely attractive alternative.

The Center for the Built Environment (CBE) at the University of California, Berkeley, is pleased to announce the release of its Underfloor Air Technology Website. The purpose of the website is to provide a complete description of underfloor air distribution (UFAD) and related technologies. The site is aimed at a broad audience and includes the following features: (1) technical overviews explaining key issues, benefits and limitations; (2) simple graphical tools highlighting basic concepts; (3) detailed research summaries and publications; (4) design guidelines for applying the technology; (5) case studies of existing systems; and (6) UFAD glossary and FAQs. Visit the site at www.cbe.berkeley.edu/underfloorair.

The Center for the Built Environment was established in May 1997 to provide timely unbiased information on promising new building technologies and design techniques. A membership based consortium, our administrative costs are underwritten by the National Science Foundation; our research is funded by annual contributions from our industry partners. CBE's current partners are Armstrong World Industries, Arup, California Department of General Services, California Energy Commission, HDR Architecture, International Facility Management Association, Johnson Controls, Lucent Technologies, Pacific Gas & Electric Co., Skidmore, Owings and Merrill, Steelcase, Inc., Tate Access Floors, U.S. Department of Energy, U.S. General Services Administration, York International, and the Webcor Team: Webcor Builders, Critchfield Mechanical, and Rosendin Electric. More information can be found on-line at www.cbe.berkeley.edu.

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FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXIX - NUMBER 8

MAY 2001

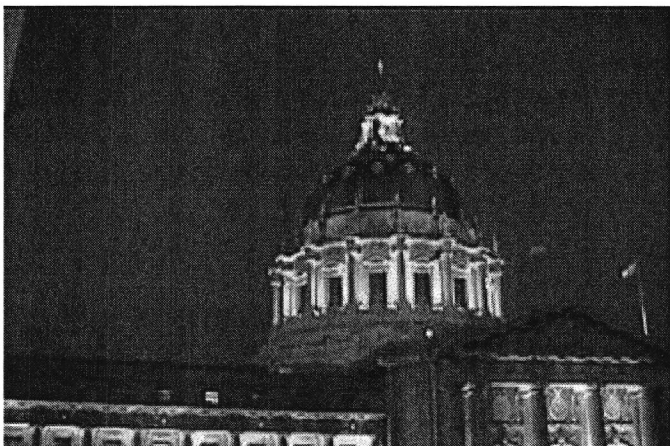
May Meeting Notice Annual Field Trip!

- Date:** Thursday, May 10th at 5:00 p.m.
- Place:** San Francisco City Hall,
Civic Center, San Francisco
Meet at the Docent Tour desk on the
Van Ness side of the building near the
elevators
- Cost:** \$35.00 with reservations
Includes tour, dinner, and Margaritas
\$37.00 without reservations

Time:

- | | |
|-------------|--------------------------|
| 4:45 – 5:00 | Meet at Docent Tour desk |
| 5:00 - 6:00 | Tour of City Hall |
| 6:00 – 6:30 | Engineering Tour |
| 6:30 – 6:45 | Short walk to Chevy's |
| 7:00 – 8:00 | Dinner at Chevys |

All reservations must be received by Robin James by e-mail (rjames@belimo.com) or fax (707-745-5999) by Monday, May 7th.



Annual Field Trip:

“An Engineer’s Tour of San Francisco City Hall”

This year’s field trip is a guided tour of San Francisco’s newly refurbished City Hall. Known worldwide for its outstanding Beaux Arts architecture, its recent seismic renovation included major upgrades to the mechanical infrastructure of the building.

Joining us for our docent lead tour will be a member of the engineering staff for the building who will detail the HVAC marvels installed by long time member Kent Lim’s firm. Adding insight and commentary on the project’s fund raising and budget challenges will be James Haas, President of Civic Pride and Treasurer of the bond campaign that raised money for the additional construction expenses. Jim will share his “behind the scenes” experiences from over 15 years of involvement in San Francisco’s Civic Center’s development. Both Jim and our personal engineering guide will be joining us for dinner where you can ask them any follow up questions you may have.

After our tour, we’ll take a brisk walk to the nearby Chevy’s Mexican Diner where we will slake our thirst with their yummy Margaritas and dine on delicious gourmet Mexican Food.

Golden Gate Chapter President's Message

May 2001

Dear Golden Gate Members:

What is the message this Month?

“Investors have two goals: Making their money grow, and making sure that money is there when they need it. Sound difficult? Don't worry -- reaching these goals can be easier than you might think.”

We at ASHRAE have a similar goal, however, while we want to make our membership grow, we want to make sure there is ASHRAE support when you need it. So, come and meet some members who may help support you! It is that easy! Now that work is at a more manageable pace come to the May field trip and see the City Hall Dome from the inside!

A mechanical engineer was visiting China as an observer to a world famous architect's important presentation to the government. The translator failed to show up for this large gathering and the engineer was asked to translate the presentation. The architect launched into a long and detailed description of the project that continued on for 15 minutes without stop. When the architect was finished, the people were respectfully silent. The engineer rose and said four words and crowd applauded uproariously. The Architect was stunned. “ How did you describe my project so quickly?” the architect gasped. “Description too long,” said the engineer. “ So, I say, ‘ Excellent Project! Please applaud!”

What is the message for this month? Don't go to an important foreign meeting without a good native language speaking mechanical engineer? No! FDR said: “Be Brief, be sincere, be seated” Enough said, I am sitting down, so see you at the May's meeting!

Respectfully yours

Benjamin Sun

GGASHRAE President



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).

GOLDEN GATE CHAPTER STUDENT AWARDS

Over the past year approximately 15 students attended GG Chapter meetings. We have given out two \$1000 scholarships, three \$500 scholarships and three \$200 scholarships; in addition to a Student Travel Grant of approximately \$1,000 for a student to attend the ASHRAE 2001 National Winter Meeting. Five of these student recipients attended our dinner meeting last month and made presentations on their research and interests related to the HVACR industry.

Four ASHRAE awards were given to students participating in the San Francisco/Bay Area Science Fair (grades 7 to 12). These awards consisted of an \$100 US savings bonds, an ASHRAE certificate of Merit and an invitation to attend an ASHRAE dinner meeting. Two of these students attended and made presentations on their science project.

MOTIONS FROM THE BOARD, 2001

Motion: Ben Sun made a motion to have a program committee select next year's program instead of the President-elect. The President-Elect will chair the committee, and the ASHRAE board secretary will be the Vice Chair of the committee. The committee will consist of a minimum of four members, the President-Elect, Board Secretary, and at least two of the members will be from diverse career backgrounds. Joe Olivier seconded the motion. There were 5 for, 0 against, 0 abstained.

Motion: Mark Hydeman made a motion that the chapter budget \$ 3,000 for delegates, alternates, board members and committee chairs to attend CRC events. Ed DeGuzman seconded the motion. The motion passed with 7 for, 0 against, 0 abstained.

Motion: A motion was made by Ben Sun and seconded by Edgar DeGuzman to Award additional Scholarship funds for 2001. The vote was 5 for, 0 against, 0 abstained.

Motion: Ben Sun made a motion that we annually donate \$500 to support the Bay Area Science Fair. Robin James seconded the motion. The vote was 7 for, 0 against, 0 abstained.

Regards,

Robin H. James

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX *Annual Field Trip May 10, 2001*

Email: Robin James Rjames@belimo.com *preferred method of communication!!!!*

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):

MONTHLY RESEARCH REPORT

May 2001

Since we are all very busy this year with CRC and other ASHRAE happenings, we will not be having an official phone-a-thon for our Research campaign. We still need your investments in our industry through ASHRAE Research, so consider the following:

- Can you volunteer your time to make five phone calls to potential ASHRAE Research contributors (we will give you names and phone numbers)?
- Have you invested at the Honor Roll level yet (\$100.00 individual / \$150.00 corporate)?
- Have you been meaning to call the Research Chair with your tax-deductible and easy credit card investment?
- Have you used your ASHRAE handbooks lately?
- Does your company have a "matching gifts" program?
- Do you have any contacts within local industry that could help our Chapter secure a large corporate contribution?

We wish to recognize the following Research contributors for their donations in April:

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

<i>Clyde Equipment Company</i>	<i>Bay Area SMACNA</i>
--------------------------------	------------------------

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

Phone: 415-467-7600 / fax: 415-467-0900 e-mail: cpalmer@norman-wright.com

FREE PG&E EVAPORATIVE COOLING SEMINAR MAY 23, 2001 AT THE PG&E ENERGY CENTER

PG&E is offering incentives to both the design team and the owner for energy efficient evaporative cooling designs that reduce peak electrical energy demand at summer design conditions. Application of this technology will be essential to help California meet summer peak electrical demands, now and in the future. Four speakers will be featured in the 9:00 a.m. to 4:30 p.m. seminar to be conducted at the PG&E Energy Center, 851 Howard Street, San Francisco.

MR. RYAN STROUPE of PG&E will discuss utility energy rates, design incentives and energy savings verification.

MS. PAT THOMAS, P.E., will discuss evaporative cooling maintenance and the facts about Legionella.

MR. MIKE SCOFIELD, P.E., will cover direct evaporative cooling with refrigeration backup, evaporative cooled refrigeration condensing and the heat pipe used for indirect evaporative cooling.

DR. NICK DesCHAMPS, P.E., PhD, will discuss heat pipe indirect/direct evaporative cooling applications in Northern California. IAQ considerations and Data Center (Internet Hotel) design ideas.

SPACE IS LIMITED, so phone 415-973-7268 today to register or log on www.pge.com/pec

GOLDEN GATE CHAPTER OFFICIAL BALLOT

Fax or Mail to Edgar DeGuzman:

c/o ACCO
1700 Industrial Road
San Carlos, CA 94070
Fax: (650) 594-4915

Official Ballot of the 2001/2002 Golden Gate Chapter Board of Governors. Ballots must be received by April 4th, 2001.

Position	Official Candidate	Write-In Candidate
Past-President	Ben Sun	
President-Elect	Edgar DeGuzman	
Secretary	Robert Levi	
Treasurer	Jon Wintermeyer	
Second-Year Member	Robin James	
First-Year Member	Cory Palmer	

Signed _____ Date: _____
Name (Print) _____

Instructions:

1. Either indicate selection of the "official candidate" by placing a check next to their name or fill in a write-in candidate.
2. Sign and date the ballot.
3. Return ballot to Edgar DeGuzman, Secretary.

Note: In accordance with our Bylaws, Joe Olivier will be automatically become the president.

Dinner Cruise on the Bay!

Yes, There's still room for you and yours!!!

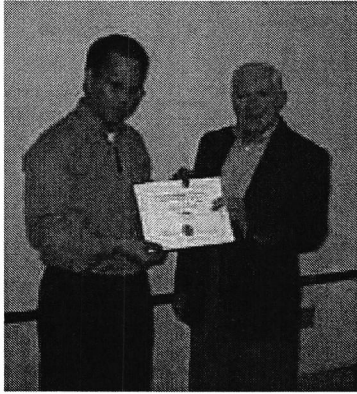
Friday May 4, 2001, 6-9 p.m.

Our Yacht leaves from Pier 33, HYI Dock promptly at 6:00 p.m.

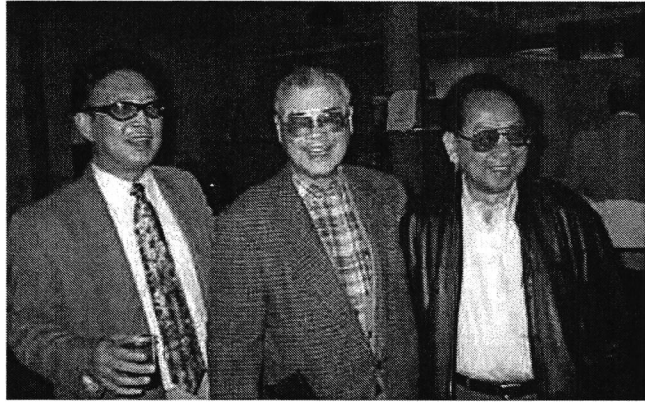
The Golden Gate Chapter is pleased to present a very special event for our CRC attendees and chapter members on Friday night, May 4th. We have made arrangements for a dinner cruise on beautiful San Francisco Bay! For the low, low price of only \$50.00 per person you can be our guest as we sail around the bay, toast our hard work, and dine on a delicious gourmet buffet dinner. Your fee of \$50.00 includes the cruise, wine aboard, dinner, and the time of your life! A no-host cocktail bar will be available for those of us who appreciate a cocktail on the water.

Call Mark Hydeman NOW! 510-749-3805!

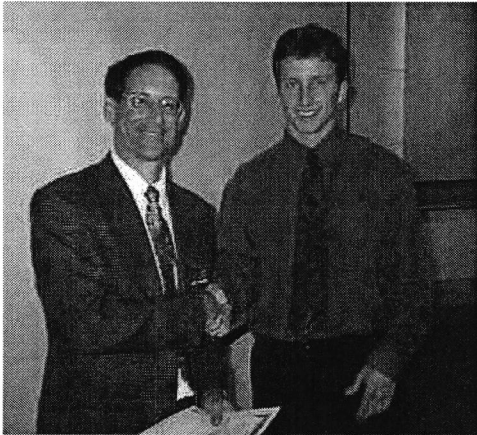
Golden Gate Picture Gallery



Ben presents Life Member Award
To Lew



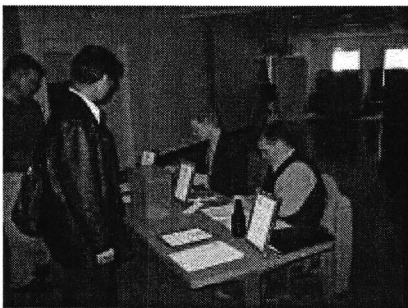
"Let the Good Times Roll"



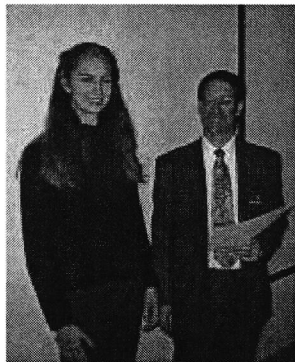
Walker Kellogg receives Scholarship Award



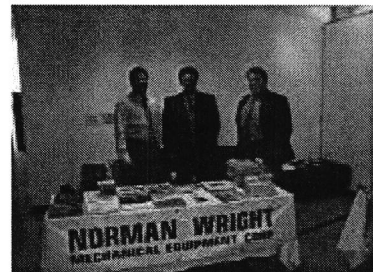
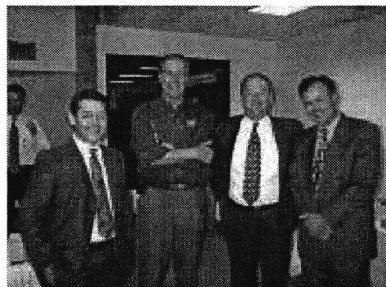
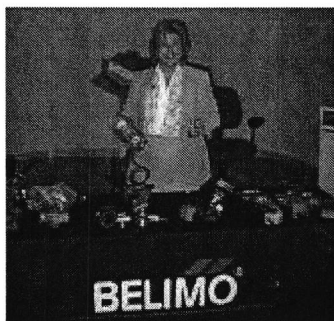
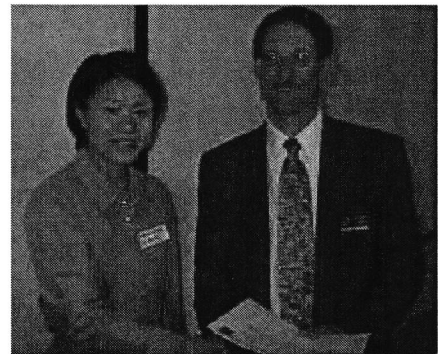
Would you buy power from these people?



John Wintermeyer checks in one of 90!



Glen hands out the money and enjoys every minute!



Many Thanks to our Product Show Participants!!

.....

Make Plans now for our June Meeting!

Thursday, June 7, 2001
The Carnelian Room
55th Floor, Bank of America Building

It's our last meeting of the year *and* Significant Bother night!

Come close out a fantastic year for the Golden Gate Chapter with your spouse (partner, dog, or just a good friend) and your colleagues high atop the City by the Bay!

We'll be featuring a very special speaker that won't bore our companions!

.....

EMPLOYMENT OPPORTUNITIES

Siemens Building Technologies, Inc. is a \$1.1 billion leader in providing customized solutions relating to energy efficiency and building performance. We currently have the following opportunities at our San Francisco Bay Area branch:

HVAC/Process Controls Design Engineer:

Requirements include 3-5 years of experience in HVAC systems for industrial and commercial facilities; knowledge of automation, DDC systems, AutoCAD, MS Access, ISA Standards; and a background in building automation systems and process controls. A related technical degree is preferred.

Project Manager:

Your primary responsibility will be the coordination and successful completion of project activities required for effective management of large and/or complex installation contracts. Must possess 6+ years of experience in engineering/systems and strong knowledge of engineering fundamentals and HVAC concepts and operations. Solid contracting and estimating skills and an understanding of job financial reports are required. 2- or 4-year degree in a technical capacity is desired.

Please forward resume, indicating desired position, to:

Siemens Building Technologies, Inc.,

Attn: MK-DE, 2525 Barrington Court, Hayward, CA 94545.

Fax: (510) 293-2100. E-mail: hilary.tauber@sbt.siemens.com.

For more information, please visit our Web site at www.sbt.siemens.com.

An equal opportunity employer M/F/D/V.

Dinner Cruise on the Bay!

Yes, There's still room for you and yours!!!

Friday May 4, 2001, 6-9 p.m.

Our Yacht leaves from Pier 33, HYI Dock promptly at 6:00 p.m.

The Golden Gate Chapter is pleased to present a very special event for our CRC attendees and chapter members on Friday night, May 4th. We have made arrangements for a dinner cruise on beautiful San Francisco Bay! For the low, low price of only \$50.00 per person you can be our guest as we sail around the bay, toast our hard work, and dine on a delicious gourmet buffet dinner. Your fee of \$50.00 includes the cruise, wine aboard, dinner, and the time of your life! A no-host cocktail bar will be available for those of us who appreciate a cocktail on the water.

Call Mark Hydeman NOW! 510-749-3805!

Thanks to all of the 2001 Product Show exhibitors for their time, effort, and financial support. The Product Show on April 5 was a success for the Chapter, the students visiting for Student Night, and the exhibitors. The Chapter thanks the following companies for their participation:

Air Treatment Corp.	Fafco	Optimization Marketing
Belimo Aircontrols (USA), Inc.	Joseph Schauf Company	Pacific Gas & Electric
The Brose Company	Monterey Mechanical - MMC Controls	R. F. Macdonald Company
California Hydronics Corp.	Net Clerk	Siemens Building Technologies, Inc.
Connective Corporation	Norman Wright Mech. Equipment Corp.	Tempco Equipment Company, Inc.
E. B. Ward & Company	Northern California MCA	York International Corporation

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXX - NUMBER 9

JUNE 2001

June Meeting Notice

Date: Thursday, June 7 at 5:00 p.m.

Place: The Banker's Club,
Bank of America Building
55th floor, 555 California Street,
San Francisco.

Cost: \$35 for GGASHRAE members
and guests **w/ advance reservations**
\$37 for non-members and **all w/o**
reservations.

Time:

5:00 - 6:30 p.m. Social hour
6:30 - 7.15 p.m. Dinner
7:15 p.m. The Chapter salutes its
Volunteers!
7:40 p.m. Installation of next year's
chapter officers
7:50 p.m. Guest speaker, Jacques Leslie

All reservations must be received by Jon Wintermeyer by e-mail (jon@wastaffing.com) or fax (415-788-6040) by Monday, June 2. Please provide him your name, phone number, total number of reservations and the names of those in your party.

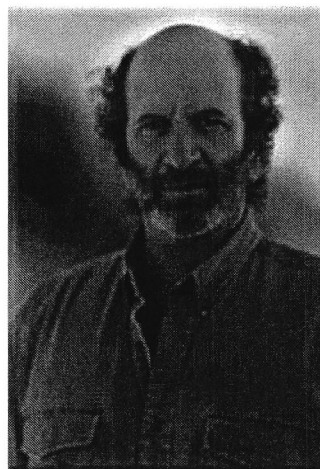
It's **Spouse night** at Golden Gate ASHRAE!
All Spouses/Partners drink for free during Social Hour!

June Program:

Speaker Jacques Leslie

**Running Dry: What Happens When the World
Runs Short of Freshwater?**

Jacques Leslie's July, 2000 cover story in Harper's Magazine on global water scarcity was selected for inclusion in The Best American Science Writing 2001, to be published in September by Ecco Press, and was a finalist for the John B. Oakes Award for Distinguished Environmental Journalism.



As a Los Angeles Times foreign correspondent in the 1970s, he won two national awards for his reporting from Vietnam, and he wrote a book about his attraction to war called The Mark. He has written for most of the nation's leading

magazines, including The New York Times Magazine, The Atlantic, and Wired, where he is a Contributing Writer. He is now writing a book on dams for Farrar, Straus & Giroux.

Golden Gate Chapter President's Message

June 2001

ASHRAE members ask for more fossil fuels or should they close the window?

To all ASHRAE members who design building systems, let me give you a simple test. Suppose it is wintertime and you have set the heating system to maximum heat and you are still cold. Would you: A. Buy a blast furnace B. Burn the house down to keep warm or C. Get up and close the windows. There is much of rhetoric from the politicians in Washington regarding energy efficiency and as a concerned ASHRAE member I would like you to consider:

- Buildings under construction today will likely last 50-100 years.
- Much of the energy expenditure for buildings is wasted. Current technologies and practices offer cost-effective opportunities to reduce energy use in new and existing buildings by 30 to 70%.¹
- Total primary energy use per capita in the United States in 2000 was almost identical to that in 1973. Over the same 27-year period economic output (GDP) per capita increased 74 percent.¹
- National energy intensity (energy use per unit of GDP) fell 42 percent between 1973 and 2000. About three-quarters of this decline is attributable to real energy efficiency improvements and about one-quarter is due to structural changes and fuel switching.¹
- Even though the United States is much more energy-efficient today than it was 25 years ago, there is still enormous potential for cost-effective energy savings. Some newer energy-efficiency measures have barely begun to be adopted. And other efficiency measures will be developed and commercialized in coming years, thereby adding to our "energy efficiency resource".¹
- The average efficiency rating of new central air conditioners increased 56% from 7.0 SEER in 1976 to 10.9 SEER in 1998.¹
- ACEEE estimates that adopting a comprehensive set of policies for advancing energy efficiency could lower national energy use by 18 percent in 2010 and 33 percent in 2020. These policies, along with policies to advance renewable energy, could dramatically lower U.S. carbon dioxide emissions while saving consumers and business \$500 billion net during 2000-2020.¹

As you consider the significance of your next system design think of the issues that loom for the future:

- Your building system's design contribution to the climate change and the long-term costs and value.
- What sort of environment will you enjoy in 20 years? Will the 21st century United States be a better or worst place to work and live

The current administration's energy plan is clearly undervaluing the role that energy efficiency can play. The increase in energy efficiency decreases pollutant emission and the risk of power shortage. Increased energy efficiency is also strongly supported by the public unlike drilling oil in environmentally sensitive area, or building nuclear or coal power plants. ASHRAE members, increasing energy efficiency is MORE than just a personal virtue! It is part of your job!

Respectfully yours
Benjamin Sun
GGASHRAE President

1. ACEEE (American Council for an Energy-Efficient Economy)

June Meeting Program

As many as 1.2 billion people--one out of five on the globe--lack access to clean drinking water. Nearly 3 billion live without sanitation: no underground sewage, toilets, or even latrines. More than 5 million people a year die of easily preventable waterborne diseases such as diarrhea, dysentery, and cholera, in fact, most disease in the developing world is water-related.

In many developing countries water scarcity is the most significant component of environmental degradation, which in turn is an underlying cause of mass migration, peasant revolt, and urban insurrection. Even worse, water scarcity could eventually affect global food supply, causing intensified hunger and starvation in the poorest countries.

Jacques Leslie's talk will address water scarcity's impact on irrigation, groundwater depletion, the mixed impact of dams, domestic and international political tensions, and the impact of climate change on water supply.

Ending of the 2000-2001 ASHRAE year!

It's **Spouse night** at Golden Gate ASHRAE!

June is a very special month as it is the close of our ASHRAE year. Join us on June 7, 2001 for a very special evening as we recognize those chapter members who have given their time and effort to the chapter over the past year, install the new slate of officers for next year, and last but not least, give a special ASHRAE thanks to our spouses and partners for letting ASHRAE have you every first Thursday of the month.

2000-2001 has been a tremendous year for the Golden Gate Chapter of ASHRAE! Your Board requests your presence for a very special evening at a very unique venue and hopes that you will bring your spouse/partner so we can let them know how much we appreciate them.

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).

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For June 7, 2001

Email: **John Wintermeyer** jon@wastaffing.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

California Hydronics Corporation

Hayward, CA

www.calhydro.com

Current Job Opening

Position: Application Engineer

Job Description: Inside design assistance to mechanical, plumbing and service contractors. You would be representing the largest, most recognized and respected leading supplier of fluid handling products in Northern California and Western Nevada.

Qualifications Desired:

- Engineered HVAC products and system knowledge
- Engineered plumbing products and system knowledge
- Self-motivated individual interested in new challenges
- Knowledge of engineers and contractors in the building industry
- Individual desiring long term career growth within our organization
- College education preferred

What We Offer:

- Competitive salary
- Full benefits package
- 401K plan
- Training and education to keep you one of the best in the industry

E-mail resumes to: jjobs@calhydro.com

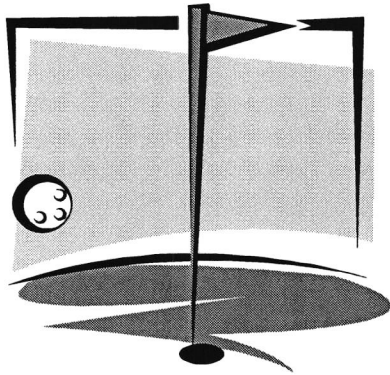
PROPOSED CHAPTER PROGRAMS 2001 – 2002 BALLOT SHEET

PLEASE RETURN BY JUNE 15TH TO: BOB LEVI, FAX: 650.873.6829

OR see the Announcements section of the chapter web site (<http://www.ggashrae.org/>) for an electronic form that can be completed and emailed.

Please assist the Board to choose topics that will be of interest to our membership. Your suggestions are welcomed for whether these topics should be presented as the main program, or a pre-meeting technical seminar. Your suggestions for other program topics and/or speakers are also appreciated.

#	PROGRAM	VOTE: 1 = Very Interested 2 = Some Interest 3 = No Interest
1.	Controlling buildings with floating temperatures to optimize comfort and energy use	
2.	Demand control ventilation using CO2	
3.	Comparing economizer relief systems	
4.	Electric utility power supply - what is lurking for summer 2002?	
5.	LBNL (Lawrence Berkeley Nat'l Labs) – What are those scientists dreaming of and how will it affect us?	
6.	Ground source heat pump / Geexchange systems	
7.	Performance based zero-tolerance chiller procurement procedures	
8.	Title 24 - 2001 & 2005 proposed updates	
9.	IAQ – Recent developments	
10.	Large central chilled water plant design	
11.	Underfloor air distribution – Challenges and Opportunities	
12.	Load shedding / Peaking shaving techniques	
13.	Fire / Smoke control	
14.	How to specify split system refrigeration systems and accessories	
15.	Aircraft cabin IAQ	
16.	HVAC load calculations: what is the radiant times series method?	
17.	Applications for direct-fired equipment	
18.	VAV fume exhaust equipment and controls	
19.	Energy efficient clean room design	
20.	Seismic upgrades of the Golden Gate / Bay Bridge	
21.	Barriers to Sustainable / Green design	
22.	Effective ventilation design: diffusers, box minimums, OSA damper control	
23.	Building commissioning	
24.	Web based integrated project management	
25.	Construction litigation	



ASHRAE Golden Gate Chapter

2001 North -vs- South Golf Tournament

Friday, June 22, 2001

Sunol Valley Golf Club, 6900 Mission Road, Sunol, California

Registration begins at 10:00 a.m. Shotgun start at 1:00 p.m.

Dinner and Awards Ceremony to follow (Approximately 6:00 p.m.)

Entry Form Required for Each Player

Registration Information:

Your Name: _____
 Company Name: _____
 Complete Mailing Address: _____

 Phone Number: _____ Fax Number: _____
 E-mail (if available): _____

Please send all tournament details to me via: Fax E-Mail U.S. Mail

I will be playing as:

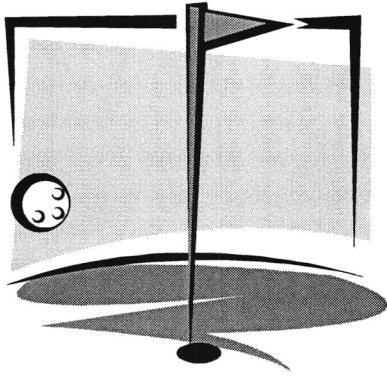
A single player looking for a team to join
 A member of the team sponsored by: _____
Company Name

I am interested in supporting ASHRAE and the Local Scholarship Fund by sponsoring the following:

\$10,000 Hole-In-One Contest
 \$5,000 Putting Green Contest
 "Longest Drive" or "Closest to the Pin" Contests
 Tee-Sponsor for an Individual Hole

Please forward this form to:

Jennifer Jobs
 California Hydronics Corporation
 P.O. Box 5049
 Hayward, CA 94540-5049
 Phone: 510-266-7876 Fax: 510-293-3080
 E-mail: jjobs@calhydro.com



ASHRAE Golden Gate Chapter
2001 North -vs- South Golf Tournament

SPONSORSHIP AVAILABLE

We hope that you will consider placing your company logo or name on a Tee-Sign at this year's tournament benefiting ASHRAE Research and Local Scholarship Fund.

Hole-In-One

\$10,000 Prize

Tee Sponsor Fee
 \$600.00 each
 (Two Available)

Putting Green Contest

\$5,000 Prize

Tee Sponsor Fee
 \$400.00
 (One Available)

Tee Contests

Your Company Name on Trophy

"Longest Drive Contest"
 "Closest to the Pin Contest"

Tee Sponsor Fee
 \$225.00 each
 (Two Available per Contest)

Tee Sponsor

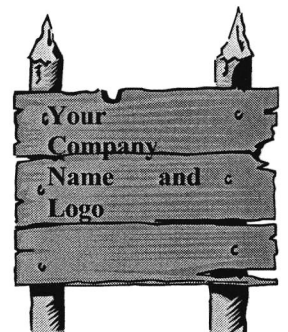
\$175.00 per Hole
 -Or-
 Two for \$300.00

All sponsors will receive their sign in a wooden frame. Send this completed form to Jennifer Jobses via Fax 510-293-3080 or e-mail jjobes@calhydro.com. Mail your camera-ready art or logo, letterhead, business card or your company name as you would like it to appear on your Tee-Sign by **June 1, 2001**, along with your check made payable to **Golden Gate ASHRAE** to: Jennifer Jobses, California Hydronics Corporation, P.O. Box 5049, Hayward, CA 94540-5049.

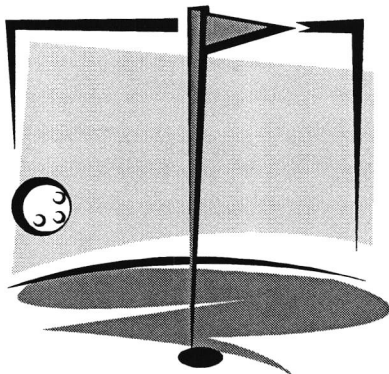
Name: _____ **Phone:** _____
Company: _____ **Fax:** _____
E-mail: _____

Reservation for:

_____ Hole-In-One	_____ Longest Drive	_____ Closest to the Pin
_____ \$5,000 Putting Green	_____ \$175 Tee Sponsor	_____ Two for \$300 Tee Sponsor



Fill in the blanks above with the number of sponsorships you would like to reserve. Your reservation will be confirmed upon receipt of payment. **Tees will be assigned on a first come, first serve basis.**



ASHRAE Golden Gate Chapter

2001 North -vs- South Golf Tournament

Friday, June 22, 2001

Sunol Valley Golf Club, 6900 Mission Road, Sunol, California

Registration begins at 10:00 a.m. Shotgun start at 1:00 p.m.

Dinner and Awards Ceremony to follow (Approximately 6:00)

Four Person Team Scramble • Limited Availability • Delicious Food • Fun Prizes

Thank you for your interest in the 2001 North -vs- South Golf Tournament. You and your teammates will be playing for "Bragging Rights" to see whether the North or South does it better. Get your team together today. It's all in the name of fun and to help raise money for ASHRAE Research and the Local Scholarship Fund. Maps and rules will be sent to your office for team distribution. Please mark below which team package your company would like to sponsor and fax or e-mail this form as soon as possible as time and space are limited.

- "GOLD" Package Investment: \$ 1,800.00**
 - Green fees and carts for four foursomes
 - Two tee sponsorships featuring your company name & logo
 - Awards dinner ticket for each player
 - Golf goodies

- Single Player: \$ 115.00**
Single players will be assigned to a team. Please note any special team requests. Includes Golf Goodies & Dinner.

Fax your completed reservation form to Jennifer Jobs at 510-293-3080 or e-mail to jjobs@calhydro.com as soon as possible.

- "SILVER" Package Investment: \$ 1,300.00**
 - Green fees and carts for three foursomes
 - One tee sponsorship featuring your company
 - Awards dinner ticket for each player
 - Golf goodies

Make checks payable to:
Golden Gate ASHRAE

Please mail all fees with a copy of your reservation form to:

- "BRONZE" Package Investment: \$ 875.00**
 - Green fees and carts for two foursomes
 - Awards dinner ticket for each player
 - Golf goodies

Jennifer Jobs
California Hydronics Corporation
P.O. Box 5049
Hayward, CA 94540-5049

- "BASIC" Package Investment: \$ 440.00**
 - Green fees and carts for one foursome
 - Awards dinner ticket for each player
 - Golf goodies

Questions...Please call:
Bob Polizzi or Jennifer Jobs: 510-293-1993

NOTE: Sponsorships and team reservations valid only after receipt of your fees. No refunds. Extra dinner tickets are available for \$30 each. Artwork for tee sponsorship must be delivered to California Hydronics Corporation no later than Friday, June 1, 2001.

Required Registration Information:

Team Captain(s): _____

Sponsoring Company: _____

Complete Mailing Address: _____

Phone Number: _____ Fax Number: _____

E-mail (if available): _____

ASHRAE Golden Gate Chapter 2001 North –vs- South Golf Tourname

Friday, June 22, 2001 • 1:00 p.m. Shot Gun Start
Sunol Valley Golf Club • Sunol • California • (925) 862-0414

Registration

Registration begins at 10:00 a.m. next to the Clubhouse Pro Shop. We have a Shot Gun start at 1:00 p.m. Please arrive early. At the time of registration, you will be informed of your pre-assigned cart number. Everyone will be playing on the Palm course. You will receive “goodies” including two drink tickets and a dinner/raffle ticket. Drink tickets can be used at the Snack Shacks or the no-host bar during dinner. A \$5000 Putting contest will be held between 11:00 a.m. and 12:20 p.m. Please be in your carts at 12:30 p.m. sharp in order for Course Rangers to lead each team to their starting hole.

Meals

Lunch is not provided, but may be purchased at the Clubhouse restaurant or Snack Shacks. Drink tickets are good in the Clubhouse or the Snack Shacks located between the 16th and 17th holes on the Palm course. A Buffet Awards Dinner and no-host Happy Hour (drink tickets accepted) will follow golfing (approx. 6:00 p.m.). Extra dinner tickets are \$30.00 each.

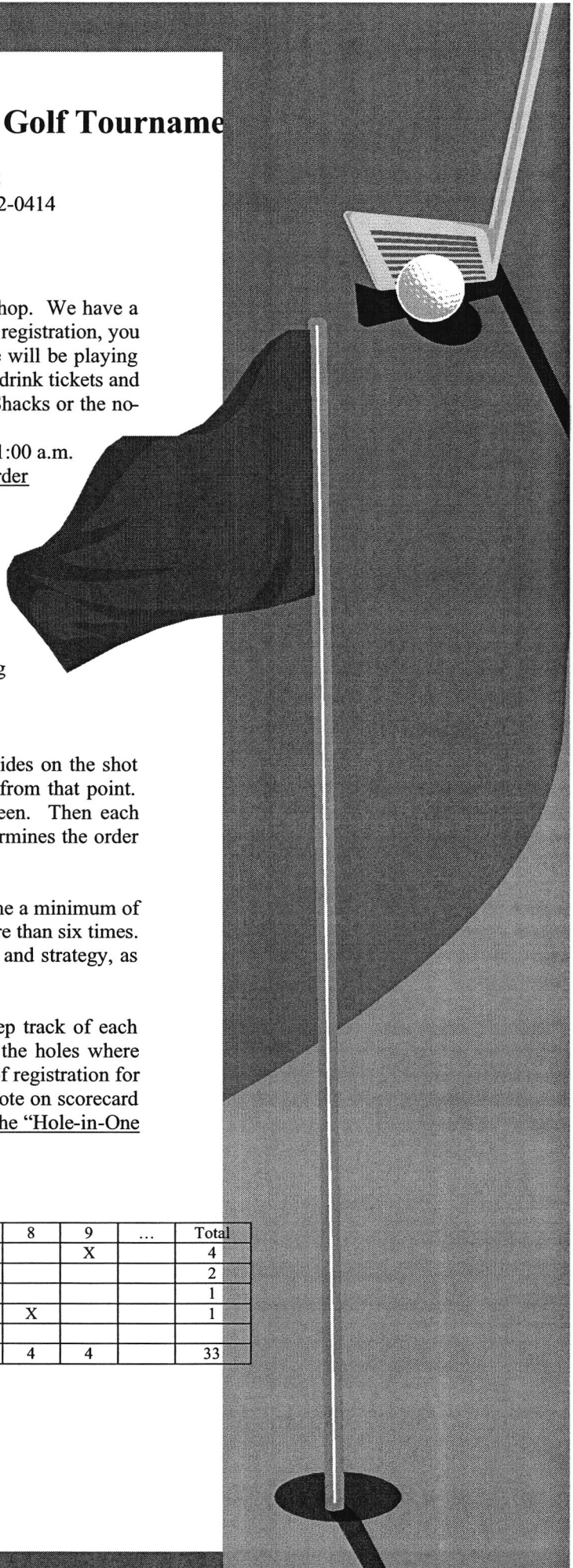
Scramble Tournament Rules and Regulations

Every player in the foursome hits every drive. The team decides on the shot determined to be the best and everyone plays their next shot from that point. This “BEST BALL” is played until the team reaches the green. Then each player putts accordingly until the putt is made. The team determines the order in which the golfers hit each shot.

Every team must use one drive from each player in the foursome a minimum of three times. No player in the foursome may use their drive more than six times. This rule has been put in place to encourage a bit of planning and strategy, as well as to maintain fun for all players.

Please complete your scorecard like the example below. Keep track of each person’s drive by putting a check in the player’s column on the holes where their drive was used. Mulligans can be purchased at the time of registration for \$3 each with a maximum of four Mulligans per team. Please note on scorecard where each Mulligan was used. Mulligans cannot be used on the “Hole-in-One holes”.

Score Card	1	2	3	4	5	6	7	8	9	...	Total
Player 1	X				X	X			X		4
Player 2		X	X								2
Player 3							X				1
Player 4								X			1
Team Score	4	5	3	2	3	4	4	4	4		33



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Howard Knutson - Joe Olivier

Jack Day - Phil Herve'

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FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 1

OCTOBER 2001

October Meeting Notice

Date: Thursday, October 4, 2001 at 5:30pm

Place: Carnelian Room
Bank of America Building
555 California Street
San Francisco, CA

Cost: \$35 for GGASHRAE members and guests w/ **advance reservations**
\$37 for non-members and **all** w/o reservations.

Time:
5:00 pm Technical Pre-meeting about VFD Issue's by Jim Hoyt of "ABB" All Attendee's of Pre-meeting will be served with glass of wine courtesy of the Host Speaker.
5:30 pm Social Hour
6:30pm Dinner
7:30pm Guest Speaker, Jim Chace, Manager of the PG&E Pacific Energy Center

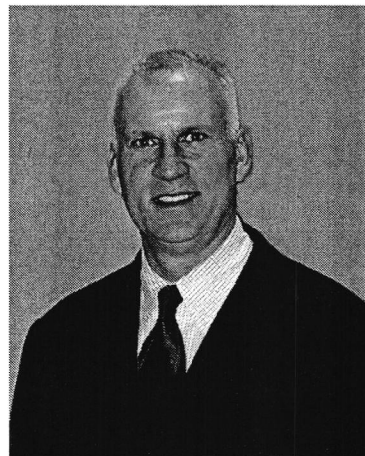
All reservations must be received by **Tuesday October 2nd**. Contact Robin James via e-mail (rjames@belimo.com) or fax (707-745-5999). Please provide your name, phone number, total number of reservations and the names of those in your party.

October Program:

Speaker: Jim Chace

Electricity in California, What's Next?

Jim Chace is the manager of the PG&E Energy Center in San Francisco. For the last five years, this facility has provided educational and technical consulting services in the building sciences to architects, engineers and commercial building owners. Jim was the technical project manager during the facility's development and created the architectural exhibits and educational programs.



Jim has also been actively involved with the Illuminating Engineering Society NA as regional lighting education director and national lighting education committee member.

Current projects at the Energy Center include developing and managing Internet technical and marketing systems, building simulation and performance measurement systems that attempt to extend the reach of the Energy Center beyond it's walls.

Golden Gate Chapter President's Message

October 2001

Dear Golden Gate ASHRAE Members:

I started with ASHRAE as a student member while I was in Engineering School at Tulane University way back in 1981. I liked ASHRAE because when student members attended the local chapter meetings, the chapter would pay for our dinners and the members would buy us drinks. I never imagined that one day I would be a member in one of ASHRAE's largest chapters and would serve as Chapter President.

It is with great gratitude and pride that I write to you as the new Chapter President. Little did I know that when I volunteered to run the Product Show way back in 1994 that I would one day occupy this position. The Golden Gate Chapter of ASHRAE is one of the largest and most active chapters in our society. As such, the membership has bestowed both an honor and an obligation on me and I will do my best to live up to your expectations.

Our chapter is in terrific shape financially and administratively due to the leadership and hard work of Ben Sun, our Past President. Fortunately, Ben will continue to serve on the Board for one more year and I look forward to his continued leadership and guidance. Rolling off of the Board this year is Mark Hydeman. Mark's contributions to the chapter are too numerous to list. His latest efforts in organizing the Chapter's Regional Conference last May and saving the chapter from the IRS this summer have solidified his place in the Chapter's Hall of Fame. While he is still active with the Chapter, I will miss his presence on the Board.

I would like to welcome Cory Palmer to the Chapter's Board of Governors. Cory has been active with the Chapter for many years, organizing the Product Show and serving as Research Chair. He joins Edgar DeGuzman, Bob Levi, Jon Wintermeyer, Robin James, Ben Sun, and myself to form the Board of Governors whose duty is to maintain the successful operation of our Chapter. This enthusiastic Board is looking forward to serving the needs of the Chapter in the coming year

This summer, 2 of our Chapter members were selected to become Fellows of ASHRAE! Congratulations to Gail Brager and Mike Scofield on this great honor from Society! Both Gail and Mike have distinguished themselves not only through their work with the Chapter, but from their professional accomplishments as well. I consider myself privileged to have worked with both of them and hope you join me in commending them on this great honor.

I look forward to serving the Chapter as we start our ASHRAE year. I want to hear your thoughts and ideas about the Chapter. Feel free to email me at jolivier@syserco.com or call me at (510) 498-1171 ext 38 anytime with your comments.

Respectfully submitted,

Joseph R. Olivier, Chapter President



Golden Gate Chapter Board Members:
(left to right) Cory Palmer, Bob Levi, Ben Sun, Joe Olivier, Robin James, and Edgar Deguzeman.
"The crazy bunch"

2001 – 2002 PROGRAMS

GOLDEN GATE CHAPTER OF ASHRAE

DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
Oct 4	Carnelian Room San Francisco	Technical Presentation of VFD issue by Jim Hoyt of "ABB"	Electricity in California, What's Next?	Jim Chace PG&E
Nov 1	PEC San Francisco	Application of "ECM" Motors by Jenny Abney of "Titus"	Controlling Buildings with Floating Temperatures to Optimize Comfort	Dr. Bjarne Olesen
Dec 6	San Mateo Marriott Joint with San Jose Chapter	Title-24, 2005 Standards by Mark Hydeman of "Taylor Engineering"	Building Commissioning	Sukhdev Mathaudhu or 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

Motions – August 8, 2001

1. Motion by Cory to buy a \$250 gift certificate at Jardinière for Mark Hydeman, to thank him for his extra work with the IRS to persuade them to waive the large penalties for late filing of taxes in 1998, 1999, and 2000. Edgar seconded. Motion passed 7-0-0. **ACTION - Bob to buy Jardinière gift certificate.**
2. Motion by Robin to host a CRC appreciation party for volunteers. Edgar seconded. \$500 budget. Motion passed 7-0-0
3. Invite people from San Joaquin and Tucson Chapters to come to a GGC Board or Chapter Meeting. Motions by Robin to have Mark Hydeman recommend an itinerary for them. Cory seconded. Motion passed 7-0-0
4. Motion by Ben that we get a higher quality digital camera for the chapter. Robin seconded. Budget of \$500. Motion carries 7-0-0. **ACTION - Ben will investigate with Robert Marcial.**

ASHRAE Historical Interview – Mike Scofield

It was my pleasure to interview Mike Scofield on his career with ASHRAE that has spanned over 4 decades.

Mike is a Northern California native and grew up in Palo Alto and graduated from Palo Alto High School. He went to college at the University of Colorado and graduated in 1960 with a Bachelor of Science degree in Mechanical Engineering and Business Administration.

Upon graduation he moved back to the San Francisco bay area and went to work for American Blower in 1960. At American Blower Mike worked for Tom White who got him hooked on ASHRAE. Tom White was a mentor to Mike and many others in the industry. Mike Scofield said he was a man with good morals and ethics, and taught him how to do business right. Mike said that Tom had a saying, "It's always easier to do business with friends than enemies."

Mike left American Blower in 1964 and went to work for Hess, Greiner and Pollard in San Francisco. He later became Manager of their San Jose office. While in San Jose, Mike was on the steering committee with Tom White and many others, and helped to form the new San Jose ASHRAE Chapter in 1965. Mike became the President of the San Jose Chapter in 1968.

In 1972, Mike left the bay area and moved back to the home of his alma mater, Denver, Colorado. From 1972-1974 he worked for Pearsall Company in Denver until he started his own company Conservation Mechanical Systems in 1974. This was also the year he met the woman of his dreams, Kinnie Owen. In 1976 Mike and Kinnie were married and moved to Evergreen, Colorado. While in the Denver area, Mike was also very active in ASHRAE and became the Denver Chapter President in 1978. After working on his own for a while Mike decided to merge his talent and product lines with CFM Co. in 1985. He worked as the Director of Engineering Sales for CFM Co. from 1985-1992.

After living 20 years in the Denver, Colorado area Mike decided it was time to come home to the bay area. He returned to the bay area in 1992 and started up his business again as Conservation Mechanical Systems. Since he has come home Mike has been extremely active in all the bay area ASHRAE Chapters and was on the steering committee of our newest chapter, The Redwood Empire. Mike was their first president in 1997.

With this accomplishment Mike finished the first "ASHRAE Hat Trick"! He has been President of the San Jose Chapter, the Denver Chapter, and the Redwood Empire Chapter.

When asked what his greatest joy has been in all of his years in our industry, Mike replied, "My involvement with ASHRAE". From a professional standpoint, he said that ASHRAE helps him stay current on what's happening in the industry. "It keeps you up on what's hot and what's not." He said if you don't stay current and involved than you are just a bystander in life. Of what he would like to see change with ASHRAE is "more involvement with young people". He would like to see more programs that attract the younger designers and help bring them to the meetings.

If you attend an ASHRAE Meeting at the Golden Gate or Redwood Empire Chapter you will always find Mike involved. If he's not giving a technical talk before the meeting then he's taking your picture during the meeting. As I tell you the history of Mike Scofield, he is recording our history with every picture he takes. It was a pleasure and honor interviewing Mike Scofield, and talking to a man who has dedicated his professional life to serving others in our industry.

2000/2001 ASHRAE RESEARCH ANNUAL REPORT GOLDEN GATE CHAPTER

Congratulations and thank you to each of the individuals and firms listed below who helped the Golden Gate Chapter collect \$21,261.00 in 2000/2001 for Research!

INVESTORS OF MORE THAN \$1,000

Flack + Kurtz, Inc.
Golden Gate Chapter, ASHRAE
International Institute of Ammonia Refrigeration
SMACNA – Greater Bay Area

INVESTORS OF \$501 to \$1,000

ACCO – Air Conditioning Company, Inc.
ASHRAE Redwood Empire Chapter
Tom Gilbertson Associates Incorporated
R.F. MacDonald Company

INVESTORS OF \$251 to \$500

Richard Charles	Frank Mahew
Clyde Equipment Company	Glumac International
E. B. Ward & Company	Paragon Controls, Inc.
Flow Prod. / Johnston Pump	Syserco, Inc.

INVESTORS OF \$151 to \$250

Joe Critchfield	Wasil Popow
Robert Levi	Taylor Engineering
Dale Missimer	Gerald Yaffe
Norman Wright Company	

INVESTORS OF \$101 to \$150

ATI Engineering Services	Laws & Associates
Bernard Beckius	Kent Lim
Leo Copper	Marelich Mechanical
Ronald Eng	Jack Palmer
Ernie French	Rogers & Associates, Inc.
JYA Consulting Engineers, Inc.	Max Sherman
Robin James	

INVESTORS OF \$100

Edward Arens	Carl Jordan	Mike Scofield
Dan Barrango	Lane Loyko	Robert Sonderegger
Kyle Blocker	James Nemechek	Benjamin Sun
Lewis Brooks	Joe Olivier	Shlomo Rosenfeld
Robert deChene	Cory Palmer	Dennis Thompson
Edgar DeGuzman	Robert Polizzi	Robert Voelz
Dick Friedman	James Quinn	Jon Wintermeyer
Glenn Friedman	Dart Rinefort	Ronald Yaffe
Mark Hydeman	John Roth	Arthur Zigas

INVESTORS OF \$50 to \$99

Barbara Dilts
Glen Leggoe
Kevin Dowling
Eugene McCabe

INVESTORS OF \$10 to \$49

Earl Bedard, Jr.	James Lutz
Mark Levi	Ronald Jang
Fred Bowman	Ross Sherrill
David Lintott	David Jump
John Gajan	

AWARDS

The following awards were presented recently to the Golden Gate Chapter of ASHRAE:

Milton W. Garland Refrigeration Award, ASHRAE

Presented to Glenn Friedman, P.E., Golden Gate Chapter

"...who has done the most outstanding work to promote the science of refrigeration at the chapter level."

Region X, 1999-2000, R. Alex Anderson Award

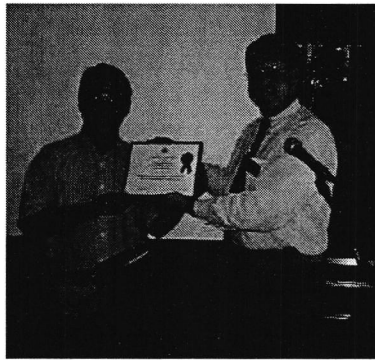
Presented to Glenn Friedman, P.E., Golden Gate Chapter

"For exemplary performance in fulfilling the Duties of Chapter Refrigeration Chair."

IAR, International Institute of Ammonia Refrigeration has contributed \$2,500 to the general ASHRAE research fund, in June, to support of ASHRAE refrigeration activities by the Golden Gate Chapter of ASHRAE 2000-2001.



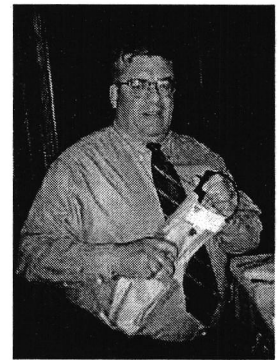
Mike Scofield receives another award from Ben Sun.



Ben Sun hands over the position of Golden Gate Chapter President to Joe Olivier.



Carl Jordan receives the CRC support award from Joe Olivier for his continued support of the Golden Gate Chapter



Speaker for the September meeting of the Redwood Empire Chapter, Steve Blanc of PG&E

Employment Opportunities



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 Parkway, Suite 101, Alameda, CA 94501-1028. Fax: 510-749-9136. E-mail: gfriedman@taylor-engineering.com

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For October 5, 2001

Email: Robin James <rjames@belimo.com> *preferred method of communication!!!!*

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):

PACKAGE MEAL DEAL

Super size your ASHRAE experience by purchasing a *Golden Gate Meeting Voucher!* When you purchase a Meeting Voucher, you cover the meeting costs for all of the Chapter's meetings and you get one of the meetings for free! Can't make one of the meetings? Someone else from your office can use your voucher – they're transferable!

Meeting Vouchers cost \$270.00 for all 9 meetings. That's a savings of \$45.00 off the regular meeting cost. You can purchase your Meeting Voucher at the October Meeting, or by calling Robin James at 707-745-5998. Buy yours now! Available for a limited time only

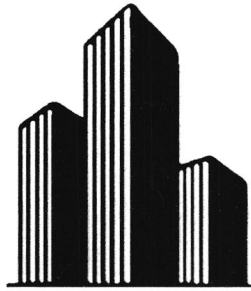
Change of Address?

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).

Unwanted emails

Our members have received numerous "spam" emails from headhunters. The subject line usually contained a reference that an ASHRAE member that has job openings. This is intended to give the email some measure of legitimacy.

Society's position on member's information, including emails, is very clear. This information is to remain confidential. Transmitting any of this information to anyone outside of ASHRAE is forbidden. The use of member email addresses for group mailings is also forbidden. Emails have been sent to the offending spammers notifying them that any future use of ASHRAE member information will not be tolerated.



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FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 2

NOVEMBER 2001

November Meeting Notice

November Program: Speaker: Bjarne Olesen

Date: Thursday, November 1, 2001 at 5:30pm

Controlling Buildings with Floating
Temperatures to Optimize Comfort and Energy

Place: Pacific Energy Center
851 Howard Street
San Francisco, CA

Due to the use of energy and high costs it is often debated if full air-conditioning of buildings is recommendable. Of course air-conditioning will give good control of the indoor temperature and then improve comfort and productivity compared to buildings without any cooling. But there also exist many examples of discomfort in air-conditioned buildings due to drafts, noise and sick building syndrome.

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 about the
Application of "ECM" Motors by
Jenny Abney of "Titus"
5:30 pm Social Hour
6:30pm Dinner
7:30pm Guest Speaker, Bjarne Oleson

All reservations must be received by **Tuesday
October 29th**. 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.



Alternatively the heating and cooling may be done by water based radiant heating and cooling systems, where pipes are embedded in the concrete slabs between each floor. Often combined with a ventilation system, where the amount of outside air is based on the requirements for acceptable air quality only. Activating the building mass will reduce the peak load and transfer some of the load to outside of the occupied period. These buildings are not controlled at a constant temperature, but the space temperatures floats during the time of occupancy. Because these systems operate at water temperatures close to room temperatures the potential for use of renewable energy sources is increased.

Several examples of buildings with these types of systems will be presented together with measured performance. For further reference, there are two papers available for download on the Golden Gate ASHRAE website on the topic.

Golden Gate Chapter President's Message

November 2001

Dear Golden Gate ASHRAE Members:

How do you keep a room of engineers engaged even though they are in the room with the best view of all of San Francisco? On October 4th, at the Carnelian Room atop the Bank of America building, a presentation on the pitfalls of electric deregulation did just that. Edgar DeGuzman has hit the ground running as this year's Program Chair and President-Elect. Edgar's programs promise to be informative, interesting and well worth attending. He's scheduled our now-annual joint meeting with the San Jose Chapter in December and our first meeting with the Redwood Empire Section in March.

So how do you keep the chapter engaged for a whole year? It takes careful planning and coordination to put together a slate of 9 chapter programs for the year: you have to book the speakers, reserve the room, coordinate the announcements for the Fog Dispenser, coordinate reservations for the meetings, provide registration and other on-site logistics at the meeting, you have to take care of the speaker and their audio-visual equipment needs, sometimes you need to negotiate and deliver an honorarium, and always you need to write a letter of thanks.

As we start the New Year, we need something from YOU! It's not much to ask, but it will help us to have the best meetings possible. We have to have an accurate count of how many members will show to a meeting. To do that, we have to have your reservation by the end of the day on Monday before the meeting. You wouldn't believe how many reservations we get the day of the meeting!

What happens when members show up without reservations? We can run out of food like what happened last November at the Pacific Energy Center. What happens if you reserve and don't show up? The chapter pays for the number we reserved.

After much discussion, the Board passed a motion in October to raise the dinner fee charged for showing up at the meeting without a timely reservation. If you don't reserve on time, the dinner fee is \$42.00. The intent of this motion is to encourage you to reserve on time. Of course, dinner books are still available and guarantee you a reserved spot at the meetings.

Thank you in advance for helping us out. If you've ever thrown a party, you know that feeling of wondering just how many people will show up that you invited. Each month, we send out over 650 invitations for the meeting. Help us know how many will show up!!

Respectfully Submitted,
Joseph R. Olivier, P.E.
Chapter President

Joe Oliver and Robin James check in the guests. (center)

Ben Sun and Mike Scofield (right)



2001 – 2002 PROGRAMS

GOLDEN GATE CHAPTER OF ASHRAE

DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
Nov 1	PEC San Francisco	Application of "ECM" Motors by Jenny Abney of "Titus"	Controlling Buildings with Floating Temperatures to Optimize Comfort and Energy	Dr. Bjarne Olesen
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

Pre-Meeting Speaker - Jenny Abney

Jenny Abney holds a bachelor's degree in Physics from the University of Texas at Dallas. She is currently pursuing her MBA from the University of Dallas. Ms. Abney has been employed by Titus for five years. She has been the Product Manager for the Terminals Business Unit with responsibility over the VAV terminals, VAV diffusers, and access floor product lines since 1997. Prior to becoming Product Manager, she was an Application Engineer in the Grilles, Registers, and Diffusers Business Unit.

Speaker - Dr. Bjarne W. Olesen

Dr. Bjarne W. Olesen received his Master's degree in civil engineering from the Technical University of Denmark in 1972 and his PhD from the Laboratory of heating and Air Conditioning, Technical University of Denmark in 1975. From 1972-1990, Dr Olesen was a research scientist at the Laboratory of Heating and Air Conditioning and also affiliated with Brüel & Kjaer as a product manager from 1978-1992. Dr. Olesen was the Senior Research Scientist at the College of Architecture, Virginia Tech. from 1992-1993.

Since 1993 Dr Olesen has been the Head of Research & Development at Wirsbo-VELTA GmbH KG & Co., Norderstedt, Germany. He is also a member of the International Faculty at the Danish Technical University and has published more than 200 papers. Dr. Olesen has been awarded the Ralph Nevins Award (1982), Distinguish Service Award (1997) and Fellow Award (2001) from ASHRAE.

Dr. Olesen is on the list of ASHRAE distinguished lecturers. He has served as Chair of CEN TC228 "Heating systems in Buildings" and convener of ISO TC159/SC5/WG1 "Ergonomics of the thermal environment." He is active in several ASHRAE-CEN-ISO-DIN standard committees regarding indoor environment and energy performance of HVAC systems.

MINUTES OF OCTOBER 4, 2001 CHAPTER MEETING

Location - Carnelian Room, Bank of America Building, San Francisco

- The pre-meeting technical seminar was conducted by Jim Hoyt from ABB on VFD issues
- Self introductions during dinner
- Meeting called to order at 7:10 p.m.
- Minutes from June meeting were approved
- Joe Olivier announced that Jim Van Buskirk and Lyle Schuelke had recently passed away
- Dick Charles gave a tribute to Sukhdev Mathaudhu, former Region X DRC, who just passed away in early October. Dick remembered Sukhdev as Mr. ASHRAE.
- David Dacus, Research Promotion Chair, recognized and thanked all contributors from 2000-2001. Those Honor Roll contributors interested in receiving the coin and/or plaque that they earned should contact David directly.
- Joe announced that Victor Neuman has received the ASHRAE Distinguished Service Award.
- Joe announced that Glenn Friedman, last year's Student Activities Chair, has received an Award for Student Member Growth.
- Glenn Friedman, current TEGA-R chair, noted that the Title 24 rewrite for 2005 is currently in progress by Mark Hydeman.
- Glenn also announced that on October 30, ASHRAE will be broadcasting, via satellite, an ASHRAE 90.1 program. The current local satellite up-link will be Trane in Sunnyvale.
- Joe announced that at the Annual Meeting in Cincinnati, two new ASHRAE Fellows from our Chapter were approved. Please congratulate Gail Brager and Mike Scofield.
- Jim Chace, Manager of the PG&E Pacific Energy Center, was the main speaker and his topic was "Electricity in California, What's Next?" Jim spoke about the history of electricity deregulation, the events leading to the problems of winter 2000-2001, and significant issues currently and in the future.
- Meeting adjourned at 8:50 p.m.

Employment Opportunities

Jacobs Facilities Inc., Division of Jacobs Engineering, is now recruiting HVAC Engineers and Designers for their East Bay Office located in Walnut Creek.

Jacobs has a varied Client Base in the World Wide Market, with US and International Office locations, visit the website to learn about Jacobs. The WC Office currently has design teams working on Biopharm, High Tech, Educational and Industrial Projects.

Please forward resume to: Jon Wintermeyer, Mechanical Department Manager, JFI
1340 Treat Blvd. Ste 208,
Walnut Creek, CA 94596.
Fax: 925-256-7999, E-mail: jon.wintermeyer@jacobs.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 Dept. Flack+ Kurtz Consulting Engineers
343 Sansome Street, Suite 450
San Francisco, CA 94104.
E-mail: ben.sun@sf.fk.com

ASHRAE Research Report

The 2001-02 ASHRAE Research year is off to a great start! Many of you have already given, either through me, or directly to ASHRAE Research when renewing your national membership. Thank you for your donation. To those that have not donated, I look forward to talking with you. Remember all donations are tax deductible, and you may use a check or credit card.

The following corporations and individuals have donated on the honor level or above for this year.

Corporate Honor Roll Investors (\$150.00 or more)

<i>DMG North Incorporated</i>	<i>Marelich Mechanical Company</i>
<i>Horn Engineers</i>	<i>R. F. MacDonald Company</i>
<i>Joseph H. Schauf Company</i>	<i>York International</i>
<i>Kent M. Lim & Company</i>	

Individual Honor Roll Investors (\$100.00 or more)

<i>Edward Arens</i>	<i>Robert Levi</i>	<i>Ross Sherrill</i>
<i>Richard Charles</i>	<i>Lane Loyko</i>	<i>Robert Sonderegger</i>
<i>David Dacus</i>	<i>Hendrik Mouw</i>	<i>Ben Sun</i>
<i>Robert DeChene</i>	<i>Joseph Olivier</i>	<i>Dennis Thompson</i>
<i>Donald Fisher</i>	<i>Cory Palmer</i>	<i>John Ward</i>
<i>Roy Gifford</i>	<i>Jack Palmer</i>	<i>Jon Wintermeyer</i>
<i>Mark Hydeman</i>	<i>James Quinn</i>	<i>Richard Yates</i>
<i>Robin James</i>	<i>Dart Rinefort</i>	<i>Arthur Zigas</i>
<i>Carl Jordan</i>	<i>Shlomo Rosenfeld</i>	

If you contributed at the "Honor Roll" level last year, you are entitled to a gift. A medallion, picturing a prominent HVACR engineer is available as ASHRAE's way of saying thank you. If you would like your medallion or if you are interested in making a donation, please contact:

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

NOVEMBER FOG DISPENSER ANNOUNCEMENT ANNUAL CHAPTER ROSTER

Your Board of Directors wants the 2001/2002 Chapter Roster to be as accurate as possible. We are starting on the roster early this year.

You will have the opportunity to include your company's "non advertisement" in the roster for a donation. The prime locations (i.e. back cover, inside back cover, inside back page) will be available to the highest bidders. Watch for details in upcoming Fog Dispensers.

You can help with the roster NOW by making sure your database information is correct. If your listing in last year's roster was incorrect, incomplete, or missing, you must update the information at the Society level. Please contact ASHRAE by phone (1-800-5ASHRAE) or through the "Members Only" section of the web site (www.ashrae.org). Our roster information comes from Society's database, so be sure your information with ASHRAE is current.

We welcome your ideas and comments for the Roster.
Please contact Cory Palmer at 415-467-7600 or cpalmer@norman-wright.com.

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For November 1, 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):

PACKAGE MEAL DEAL

Super size your ASHRAE experience by purchasing a *Golden Gate Meeting Voucher!* When you purchase a Meeting Voucher, you cover the meeting costs for all of the Chapter's meetings and you get one of the meetings for free! Can't make one of the meetings? Someone else from your office can use your voucher – they're transferable!

Meeting Vouchers cost \$270.00 for all 9 meetings. That's a savings of \$45.00 off the regular meeting cost. You can purchase your Meeting Voucher at the October Meeting, or by calling Robin James at 707-745-5998. Buy yours now! Available for a limited time only

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).



Sponsors Needed

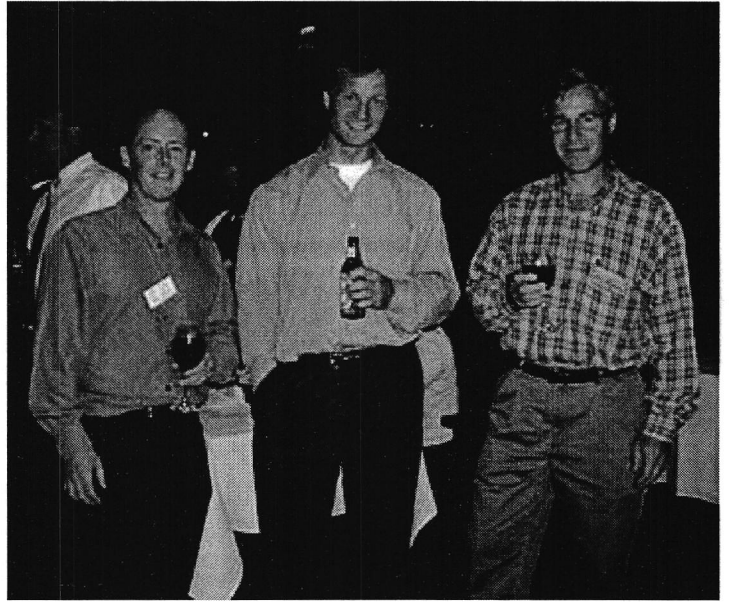
We are in search of Companies willing to sponsor a monthly meeting by donating prizes for the "Marble Game" raffle. The majority of the money raised at each meeting is donated to our scholarship fund. Posters will be made advertising the company name and logo of that month's sponsor. If you or your company are interested in helping, please contact Nicolina Guiliano @ 650-872-5246 or email nicolina.guiliano@ebward.com.

<< Edgar wins the dinner but not the \$\$.

Pictures from the October Meeting



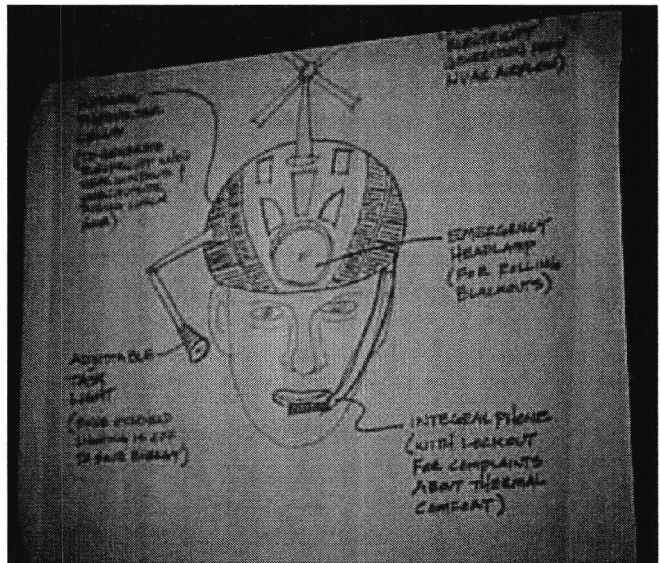
Bob Levi, EB Ward Close Up



Mark Hydeman (Taylor Engineering) Justin Peterson (Siemens) and Steve Taylor (Taylor Engineering)



Steve Taylor wins a bottle of wine.



Specification for new energy equipment



Features:

- Integral Photovoltaic Cells
- Emergency Headlamp (For rolling blackouts)
- Adjustable Task Light (For when lighting is off to save energy)
- Integral Phone (With lockout for complaints about thermal comfort)

Golden Gate Chapter Board Members (left)

Edward B. Ward & Company

OUR 63RD YEAR



REPRESENTING ALL CARRIER AIR CONDITIONING
PRODUCTS FOR NORTHERN CALIFORNIA

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NICK DANN
JEFF KERL
DENNIS MERIDETH
BOB RALPH
ED SAINCOME
DAVID WEST
GENE WEST

San Francisco – 650.873.1660

DAN BOLLMAN
RON ENG, PE
BOB LEVI, PE
NICOLINA GUILIANO
JON MALKOVICH
KIRK PETERSON

San JOSE – 408.453.3300

DICK BARCLAY
ANNA-MARIE FILIPPI
MICHAEL FULTON
TIM IRELAND
TONY LORETELLI

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.**

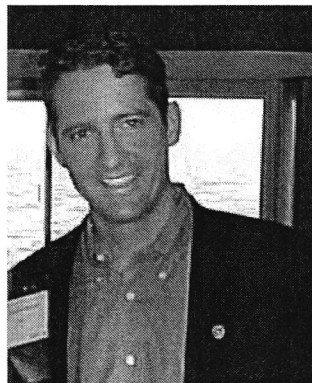
Time:
5:00 pm Technical Pre-meeting: Title-24, 2005 Standards by Mark Hydeman of "Taylor Engineering"
5:30 pm Social Hour
6:30pm Dinner
7:30pm Guest Speaker, Kent Peterson

All reservations must be received by **Tuesday November 27th**. 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

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.

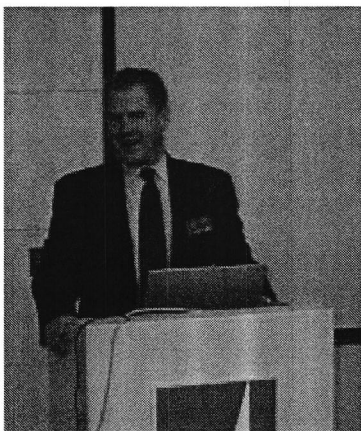
For some time the Fog Dispenser has been available on our website in "pdf" format that can be downloaded and read on your computer. If you're like me and prefer reading the actual pages, the file can be printed out on your computer. Currently over 45% of our members are listed as "e-members", meaning 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

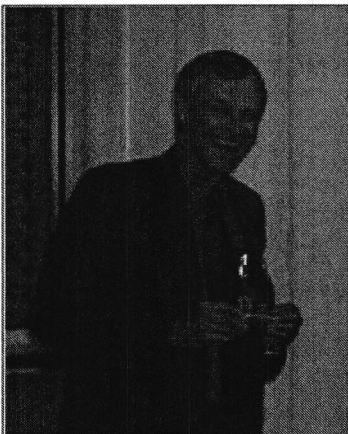
GOLDEN GATE CHAPTER OF ASHRAE

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

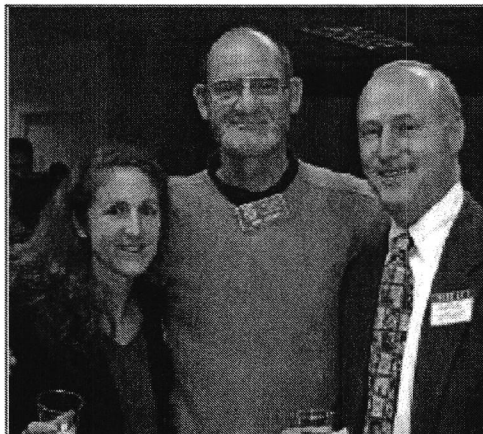
Speaker – Kent Peterson

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.

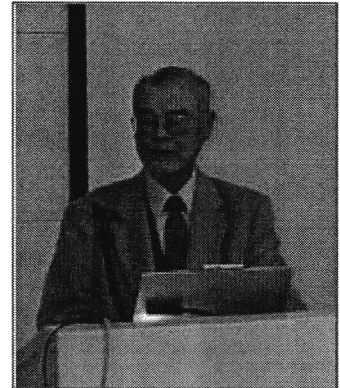
?? Mike Scofield, who recently has received the Fellow designation, was presented with his new Fellow name badge by Robin James

?? Bob Polizzi and Jennifer Jobs 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).

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

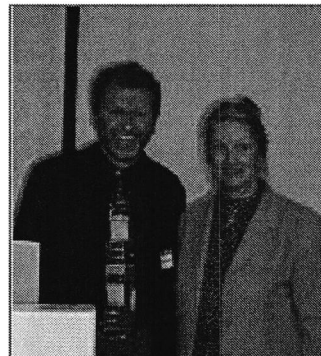
?? Dr. Bjarne Olesen, an ASHRAE Fellow and Distinguished Lecturer, and Head of Research and Development at Wirsbo-Velta GmbH KG & Co. Norderstedt, Germany, was the main speaker and his topic was "Controlling Buildings with Floating Temperatures to Optimize Comfort and Energy". Bjarne discussed using 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 7th

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 ASRHAE Research, on any level, this campaign year. Thanks for your support!

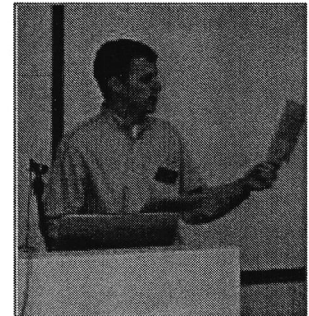
The following corporations and individuals have donated on the honor level in the last month.

Corporate Honor Roll Investors (\$150.00 or more)

E.B. Ward
Norman Wright
Gayner Engineers

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



Individual Honor Roll Investors (\$100.00 or more)

Robert Davis
Glenn Friedman
Edgardo DeGuzman
John O'Brien

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 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>

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 or at (415) 398-7667. We will have the next meeting on Tuesday December 11th 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.

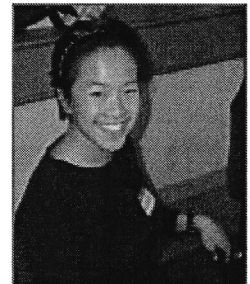
It is important that each Chapter member updates his or her database information with Society. We get our data for the roster from Society's database. To change your information with Society, call (800) 5-ASHRAE or go to the "Members Only" section of the Society home page (www.ashrae.org). If you need 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 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 >>

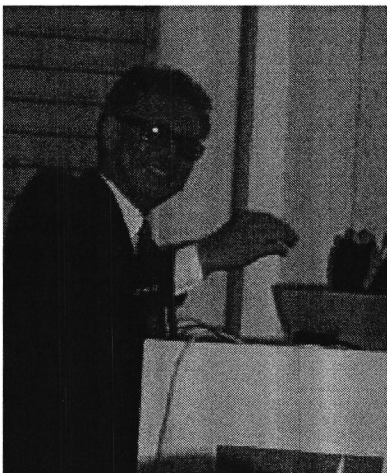
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<< *Edgar draws again! But did not win the \$\$*

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):

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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

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

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

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

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



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

Sales Manager

Mike Webster

(925) 417-7202

Sales Engineers

Bill Bates

(925) 417-7212

Greg Boyle

(925) 417-7206

Paul Christianson

(925) 417-7205

John Mitchell

(925) 417-7220

Elaine Wang

(925) 417-7207

Shaun Webster

(925) 417-7223

Inside Sales Engineer

Clint Losey

(925) 417-7218

Sales Assistant

Paula Bramhall

(925) 417-7204

York International Proudly Supports ASHRAE Research

