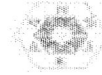


FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 4

JANUARY 2004

January Meeting Notice

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

Schedule:

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

Cost: \$35 for members and guests

Reserve by Monday, January 5th at noon
Students – No charge, but please reserve a spot
Voucher – No additional charge, but please reserve
a spot. \$42 for non-members, late reservations and
at the door

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

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

Or use the fax form in the Fog Dispenser.

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

January Program

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

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

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



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

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

Golden Gate Chapter President's Message, January 2004

Volunteer – A New Year's Resolution

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

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

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

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

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

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

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

Membership Promotion

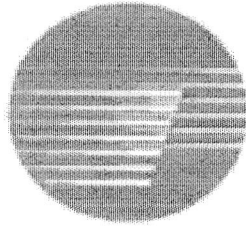
Was all of your contact information correct in last year's Roster? Now is the time to correct that data so that it will be correct in the joint Golden Gate/San Jose Roster due for publication early next year.

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

All members who wish to make changes in their membership data (change of email address, change of address, change of phone numbers, or change of employer are the most common) must make those changes through the ASHRAE Society site <http://www.ashrac.org>. In order to change your membership data, you will need your ASHRAE member number and confidential PIN number, both of which are on the ASHRAE card issued to you each year.

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

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



TRANE®

Oakland Engineering Sales Group

The Trane Company proudly supports ASHRAE Research

2003 – 2004 Golden Gate ASHRAE Events

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

Student Activities Committee – The Student Zone

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

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

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

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

To schedule, please contact me:

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

ASHRAE Research Report

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

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

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

Corporate Honor Roll Investors (\$150.00 or more)

Air Treatment Corporation

Individual Honor Roll Investors (\$100.00 or more)

Kevin Dowling

Thomas Reinarts

Thanks to everyone who has donated!

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

Jon Malkovich
925.688.1369 x4

jon.malkovich@ebward.com

Johanna Gustafsson
925.417.7218

johanna.gustafsson@york.com

Minutes of November 6, 2003 Chapter Meeting

Location – Marriott Hotel, San Mateo

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

Respectfully submitted, Cory Palmer, Chapter Secretary

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

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

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

Technology Awards

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

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

Code Committee

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

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

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

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

ASHRAE GOLDEN GATE CHAPTER - LUNCH RESERVATION FAX

For Thursday, January 8th

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

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

Members with vouchers – you too – must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by January 5th.

FROM: _____

COMPANY: _____ Phone: _____

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

Pay for meetings using your credit card

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

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

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

NOTE: At the meeting, we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. **All credit card payments MUST go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.**

Roster

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

Marble Draw

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

Employment Opportunities

Job Opening for Mechanical Engineer Committed to Sustainable Design

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

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

Applications Engineer - Contracting / Complex Solutions

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

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



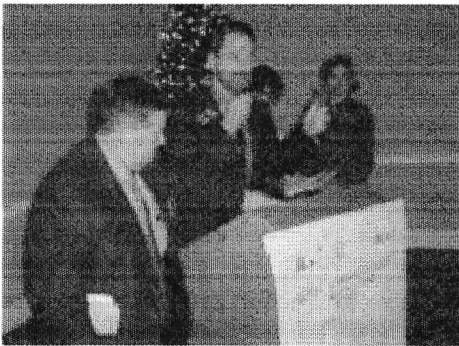
Edgar DeGuzman presenting the appreciation award to Jason Daters for his work on the Tennis Tournament

Bob Braun tells the attendees about his UC Berkeley Extension Class



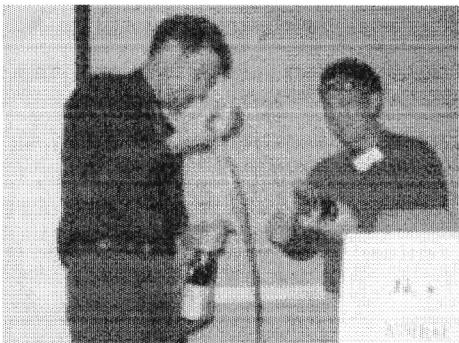
Joint San Jose and Golden Gate members listen to an announcement

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



Jon Wintermeyer and Bob Levi

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

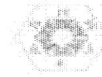


Hugh Tuck was the evening's Big winner for Marble Draw Prizes

Dennis Thompson collects his Marble Draw Prize

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 5

FEBRUARY 2004

February Meeting Notice

Date: Thursday, February 5th
Place: SCOTT'S SEAFOOD RESTAURANT
Jack London Square, #2 Broadway
Oakland, CA 94607
[MAP](#)

Schedule:

5:30PM to 6:30PM - Registration & Social
6:30PM to 7:30PM - Dinner with Announcements
and Introductions
7:30PM to 7:45PM Break
7:45PM to 8:30PM Speaker
8:45PM Meeting Adjournment after Marble Draw

Cost: \$35 for members and guests

Reserve by Monday, February 2nd at noon

Students - No charge, but please reserve a spot

Voucher - No charge, but please reserve a spot.

\$42 for non-members, late reservations and at the door

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

Please reserve on-line by visiting www.ggashrae.org and clicking on "Meetings", and click on "Feb 5", fill out the form and send.

Or use the fax form in the Fog Dispenser.

Remember to choose your entrée when you register. Scott's will offer a choice of **Chicken Piccata, Grilled Salmon, or a Vegetarian Dish**

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

February Program

Speaker: Kevin R. Hydes, P.E.
Barriers to Sustainable (Green) Design

If sustainable/green designs are so good, why isn't everyone doing them? What are the barriers or the myths of green design that are in the way? This presentation will look at some of the perceived green myths and barriers such as:



- Green designs cost more
- There is not enough knowledge about green design
- Too many risks
- Green designs are ugly
- Green designs are on the fringe

As well, the presentation will also focus on business issues related to green designs and integrating the design teams.

Project examples from across North America will highlight how these barriers and issues have been overcome successfully, and will include Post Occupancy Evaluation reviews of some of Keen's earlier projects.

Kevin Hydes, P.E., has worked in the building services industry since 1973 and joined [Keen Engineering](#), then a 50 person firm, in 1982. Keen Engineering now has over 200 employees.

... continued on following page....

Golden Gate Chapter President's Message, February 2004

Would Winning an ASHRAE Technology Award Be Good For Your Business?

Ask Jeff Blaevoet of Guttman & Blaevoet Consulting Engineers. He won a Society Honorable Mention Technology Award for his Hamilton Landing Hanger project. Jeff had just received his plaque on the morning of our January meeting. He brought it to the meeting to show the group. The plaque was very impressive. But besides an attractive piece of wood and metal there is the recognition that goes along with receiving such an Award.

What do building owners, developers, agencies, architects, etc. look for in a consulting engineer? Sure many look for low price, but many want an organization that has a record of efficient and innovative projects. The Technology Awards are based upon an equal weighting of six categories:

- Energy Efficiency
- Indoor Air Quality and Thermal Comfort
- Innovation
- Operation & Maintenance
- Cost Effectiveness
- Environmental Impact

When a project is recognized to be superior in these categories by the world's largest organization of HVAC engineers, isn't that a great reference?

You are probably thinking that ASHRAE receives thousands of Technology Award applications, so chances of winning are so small that it would be a waste of time to apply. In fact, Society does not receive very many applications, and that is why Scott Wayland is always pestering you to submit your applications.

I imagine that the main reason that more applications are not submitted is that people never get around to completing the application. The same reason that many of us still have all of those photographs in a shoebox instead of in an album. But the two are different. Putting photos in an album will make it convenient to find them in the future, but it probably won't help you earn future business. Win a Technology Award and it can only help your business. Make the time to complete the Technology Award application

See Scott Wayland's TEGA article in this issue of the Fog Dispenser for more details on the Technology Award application process. Your applications are due by February 26th.

Our February meeting will be a dinner meeting in Oakland, at Scott's Seafood. USGBC Board member Kevin Hydes will discuss Barriers to Green Design. Hope to see you there.

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

Kevin Hydes Biography, continued

Since becoming President in 1999 he has encouraged all members of the firm to take up the challenge of building better buildings. Today, Keen is regarded as leaders in sustainability, with over 100 LEED Accredited professionals and they have worked on numerous LEED projects including three which are Certified GOLD.

Kevin is passionate about green design and believes in the need to change our industry to better use our finite resources. He has been involved with groups creating progressive policy in green development in Canada, the Pacific North West and California. Kevin is a Professional Engineer and currently sits on the USGBC National Board the Canada Green Building Council.

ADVANCED COOLING TOWER TECHNOLOGIES, INC.

We are proud to announce our recent appointment as the new representative for
EVAPCO, INC. in the Greater San Francisco Bay Area.

We are a cooling tower focused company with over 50 years
combined experience in the cooling tower industry.

In addition to **EVAPCO'S** outstanding cooling tower products, we represent:

- ❖ **Clearwater Systems, Inc.**
 - Non-chemical water treatment technology
 - Over 150 successful installations in Northern California
- ❖ **Griswold Controls**
 - Leading technology in centrifugal separator and sand filter systems
- ❖ **APV**
 - Plate heat exchangers for HVAC applications

ADVANCED COOLING TOWER TECHNOLOGIES, INC.
1470 Enea Circle, Suite 1760
Concord, CA 94520
(925) 808-6480 • (800) 773-0269 • Fax (925) 825-5035

RICK TASEFF

DAN DANIEL

KEN WOODARD

2004 Golden Gate ASHRAE Events

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

Student Activities Committee

By Gary Harbison, ASHRAE Golden Gate Chapter Student Activities Chair

Call for applications for the Golden Gate ASHRAE Student Scholarship Awards! The Eric Thor Andresen and Don Bryant Memorial awards are each \$1,500.00 and are available to full-time students, who are ASHRAE members, upper-division undergraduate or graduate students, and have not received a scholarship award previously while in school for the same degree. Application requirements are as simple as submitting an ASHRAE Form, writing a small essay and including your resume. Instructions on entering can be found at: <http://www.ggashrae.org/awards/index.htm>. The application deadline is March 19, 2004. Scholarship winners are requested to attend our regularly scheduled April 1, 2004 meeting.

We are providing our annual support of the Bay Area Science Fair, which will be held at the Hall of Flowers in Golden Gate Park from March 22-27, 2004. We will be judging on Thursday March 25, and the winners will be honored at our April 1 meeting.

National Engineers Week 2004 will be celebrated February 22-28. Once again, thousands of our fellow colleagues from all engineering disciplines throughout the country will be taking part in this exciting event. Web site for Engineers Week is www.eweek.org.

Cool Tools: We have available for your use in your child's school ASHRAE *Cool Science Kit*. There are 6 modules in each of the 3- presentations for Elementary (Grades 3-5), Middle School (Grades 6-8) and Junior/Senior High School (Grades 9-12). Modules explain the concepts of temperature, internal energy, thermal energy, methods of heat transfer & phase change, and hidden heat. Contact me at 510-266-7806 or GHarbison@CalHydro.com. if you have any questions and to reserve the ASHRAE *Cool Science Kit*.

ASHRAE Research Report

Have you used your ASHRAE handbooks lately? If so, you realize how much research has gone into producing these books. The research for these books is your donation dollars at work! Every dollar that you donate goes to support ASHRAE Research.

The following individuals have donated on the honor level in the last month. If you have donated and have not been recognized please notify us. We want to make sure to recognize everyone who has donated!

Corporate Honor Roll Investors (\$150.00 or more)

Air Treatment Corporation

Individual Honor Roll Investors (\$100.00 or more)

Edgar DeGuzman

Deborah Marshall

Kevin Dowling

Thomas Reinarts

Thanks to everyone who has donated!

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

Jon Malkovich
925.688.1369 x4
jon.malkovich@cbward.com

Johanna Gustafsson
925.417.7218
johanna.gustafsson@york.com

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

2004 Golden Gate Technology Awards are due at the end of February!!!

As you know, last year our chapter had an outstanding participation in the Technology Awards. The TEGA Committee would like to encourage all members to start thinking about Technology Awards for this year. **Entries must be submitted to the Golden Gate TEGA Committee by February 26th 2004.** For more information including an application, go to: <http://www.ashrae.org/template/AssetDetail/assetid/25447>

Our chapter had an amazing turnout last year: 9 Chapter Awards, 6 Region X Awards and one Society Award (with two more possibly on the way next year)!!!

There are three stages of competition and awards: Chapter, Region and Society. The first step in this process is to submit your project to the chapter level competition.

First place winners from the Chapter competition move onto the Region X Award Competition. Then the Regional first place winners are eligible to move onto the Society competition.

Every year ASHRAE conducts the Technology Awards program to:

- Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
- Communicate innovative systems designs to other ASHRAE members;
- Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

Each year Society presents awards in some of the thirteen categories: Commercial Buildings (New and Existing); Institutional Buildings (New and Existing); Health Care Facilities (New and Existing); Industrial Facilities or Processes (New and Existing); Public Assembly (New and Existing); Residential (New and Existing); Alternative or Renewable Energy Use.

For each category a first, second, and honorable mention winner may be named. Also, one of the category first place winners may be selected to receive the ASHRAE Award of Engineering Excellence. The recipient will have demonstrated the best overall compliance with the judging criteria.

Society's bar is set pretty high for the awards as indicated in the very short list of awards from the last few years.

The submitted project should be completed and occupied for one year by the due date for the Society award application - September 2004. Therefore, your project should have been occupied by September 2003. By that time there should be good measurement and verification data available. This is not a requirement for the Chapter award but it is a strong suggestion. This is a requirement for the Society award competition.

Contact Scott Wayland and the TEGA Committee regarding submitting at (510) 508-2244 or at sewayland@comcast.net

Minutes of January 8, 2004 Chapter Meeting

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

- Meeting called to order at 12:00 p.m. by Bob Levi
- Self-introductions
- Approval of the Chapter meeting minutes from November 6 and December 4, 2003, as published
- Bob Levi announced that Mike Kisiday of Danville recently passed away. Mike was 67.
- Bob Levi gave a reminder that the annual ASHRAE/AHR Expo is in Anaheim this year, and will not be held on the West Coast for several years
 - Members are encouraged to attend the technical sessions
 - Bob Levi repeated his offer of a free one day ticket to the Technical Sessions.
 - You must be a member and you must have never registered for a Meeting before. If you are interested look at the Announcement on the web site and contact Bob Levi.
 - Bob Levi took an informal poll regarding the high turn-out for today's meeting
 - Bob Levi asked for a show of hands about reasons for attending the meeting
 - Is it because it is a lunch-time meeting?
 - Is it because of the speaker and topic?
- Robert Marcial announced that the PG&E Pacific Energy Center has suffered a severe reduction in funding by the CPUC
 - The PEC offers extensive training related to our industry, and hosts some of our meetings
 - Members are asked to visit the PG&E web site and give your support to continued funding of the PEC
- Robert Marcial announced that this year's roster will again be an electronic joint roster with the San Jose Chapter
 - Members should visit www.ggashrae.org and see FAQ # 3 to change their contact information
- Bob Levi announced several UC Berkeley Extension HVAC classes that start this spring
- Scott Wayland, TEGA Chair, explained the application and evaluation process for this year's Society Technology Awards
- Scott Wayland recognized Jeff Blaevoet for his firm's technology award from 2003
- Resource Promotion announcement by Jon Malkovich
- The speaker was Mark Hydeman of Taylor Engineering: 2005 Title 24 Non-Residential HVAC measures
- Marble Draw – Prizes sponsored by E. B. Ward. Mike Scofield drew for the grand prize, but didn't win
- Next month – Feb. 5th, at Scott's Seafood in Oakland – Kevin Hydes of Keen Engineering will talk about Barriers to Sustainable Design.
- Meeting adjourned at 1:45 p.m.

Respectfully submitted, Cory Palmer, Chapter Secretary

2003/2004 Golden Gate and San Jose Roster

The Golden Gate and San Jose ASHRAE Chapters are again going to publish an electronic version of the joint Roster for the entire Bay Area. The Roster will be accessible at a password-protected part of the Golden Gate Chapter's website. Once the Roster is posted on the website, all members from San Jose and Golden Gate that are current on their dues will receive an e-mail with the website address and password to access the Roster.

There are several advantages we see in creating a joint electronic Roster including:

- 1) The directory will apply to the entire Bay Area and most of us have contact with members in both chapters.
- 2) The electronic format will make it easier for our members to access the phone numbers.
- 3) The electronic format enables advertisers to use color to promote their products and services.

The Chapters have agreed to charge \$400 for each full-page (8.5"x11") advertisement. There will be no half or quarter-page advertisements. We are excited about our new plan and we hope that your company will advertise with us this year. **The deadline for receiving new advertisements is Friday, January 30, 2004.** To advertise in the upcoming Roster, please contact Sargon Ishaya at 408.347.3400 or sishaya@therma.com.

As a reminder, please be sure your local and national dues are paid in order to be notified about the roster and to be included in the roster. Has any of your contact information changed in the past year? You can verify or change your contact information at www.ashrae.org or by calling 1-800-5-ASHRAE (800-527-4723). Note that all contact information changes must be made through ASHRAE's national headquarters. The local Chapters DO NOT keep their own database. The roster information is downloaded from national headquarters by your local chapter once per month. Because this is your private information, the Chapter cannot make any changes to your personal profile.

2004 Product Show

Mark your calendars for the Annual Product Show at the PG&E Pacific Energy Center on Thursday, April 1st. Watch this column next month for more details.

Marble Draw

Thank you to the Edward B. Ward Company for sponsoring the Marble Draw prizes at the January meeting. The special marble was not picked, so the Marble Draw pot rolls over to next month, although Mike Scofield did get the top prize of the meeting. The Pot is now worth well over \$1,000 for February's drawing. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at nicolina.j.guiliano@jci.com

From the Chapter Historian

Thomas R. Simonson – GGASHRAE Biography

Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

Before discussing Tom, I have to mention his father G. M. Simonson. Although I don't remember meeting him, I think he was called "Met". G. M. Simonson was the second and third president of the Golden Gate Chapter of ASHVE from 1938 to 1940. He started his consulting business in 1924. As president of the State Board of registration, he signed my California Professional Engineer Certificate in 1961.

Now back to Tom. He joined his father's business in 1952 and took over the firm in 1974. The business was known as G. M. & T. R. Simonson.

Tom has a doctorate in Chemical Engineering, probably from the University of California at Berkeley. While there, he was the drum major for the marching band.

Tom was the very first ASHRAE Golden Gate Chapter president in 1959-1960 (after the merger of ASHVE and ASRE). He was a tall, handsome man who almost always wore a dark gray suit. He presented an impressive figure while at the podium addressing an audience.

Tom was the Chairman of the State's committee that prepared, over a several year period, California's Regulation Establishing Energy Conservation Standards for New Residential Buildings and Non-Residential Buildings. Although most of the sections had already been adopted, it was officially adopted as a complete document on July 26, 1978. This committee first served as the California Energy Resources Conservation and Development Commission (CERCDC) which then became the California Energy Commission (CEC). These first standards, now revised, appear in California's Title 24.

Tom was an early user of the computer in his design practice. One example was for identifying piping segments, by codes on the drawing plans and indicating related pipe sizes on drawing schedules. This met with mixed reviews in the industry.

Tom's impressive list of projects includes a number of San Francisco high-rise buildings. One was the John Hancock building, which housed the Engineers Club of San Francisco, where many ASHRAE meetings were held until it was closed. Another better known is the Transamerica Pyramid building. Tom also designed Stanford University's first Chilled Water Storage facility in a large open pond.

The Golden Gate Chapter thanks you Tom Simonson for your contributions to ASHRAE and our industry.

(Information from the memories of Karl Guttman and the author, in addition to the Chapter's 1994-1995 Centennial FOG Dispenser. ASHRAE currently does not have an official biography on file for Thomas R. Simonson)

IN MEMORIAM

Miklos (Mike) J. Kisiday – Died in September 2003. He was 67 years old and a resident of Danville.

Employment Opportunities

Mechanical Engineer Position Available

Dynamic and growing Sacramento Valley consulting firm with a reputation for quality engineering and exceptional service seeks an engineer with 8 to 15 years of HVAC experience to design and manage commercial, healthcare, office, high tech, educational and sustainable projects. BSME and P.E. required. We believe in hiring talented professionals that are energetic, motivated and responsive. We offer great opportunities for growth and a relaxed work environment. Excellent salary and benefits.

Email resume to info@eclipse-mech.com or fax to (916) 985-0833.

Taylor Engineering is looking for highly self-motivated HVAC and plumbing design engineers with strong confidence in their ability to join our team of well educated and experienced professionals. Prospective HVAC candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals. All applicants must have excellent presentation and writing skills, and 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.

Taylor Engineering values commitment to continuous improvement, in-house education, professionalism, pride in our designs, practical and efficient use of technology, and industry leadership. We specialize in innovative large building HVAC, plumbing, fire protection and control system design, energy and indoor air quality analysis, and system commissioning.

Forward 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

Axiom Engineers, Inc., one of Central California's largest consulting engineering firms, is looking for two experienced engineers for commercial, institutional, and healthcare facility design work. One position is a design engineer in our Monterey office; another is a branch manager for our Napa office. Candidates must be able to develop design concepts, work under general supervision and direction, communicate with clients, and meet deadlines.

Ideal candidates will possess:

- Outstanding technical and communication skills
- Ability to work efficiently and effectively with multiple projects and priorities
- Ability to mentor and train less exp staff
- Skills required for progressive advancement
- 5+ yrs exp in HVAC and plumbing engineering
- AutoCAD proficiency
- BSME/EIT/PE preferred

Send resume as a Word attachment to: mail@axiomengineers.com

Or mail resume to: HR, Axiom Engineers, Inc. 2511 Garden Rd. #A140, Monterey, CA 93940

30 Years Strong, Offices in Monterey, Napa, and Santa Cruz

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For Thursday, February 5th

Please reserve prior to **Monday at noon, February 2nd.**

Please reserve on-line by visiting www.ggashrae.org and click on "Meetings", and click on "Feb 5", fill out the form and send. Or FAX the following form to Debbie Marshall (510) 639-3337.

Members with vouchers – you too – must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by February 2nd.

FROM: _____	
COMPANY: _____	Phone: _____
Please make _____ reservation(s) for the following people (fill in names below):	
_____	Meal Choice _____
_____	Meal Choice _____
_____	Meal Choice _____
Choice of meal for the meeting are: Salmon, Chicken, or Vegetarian	

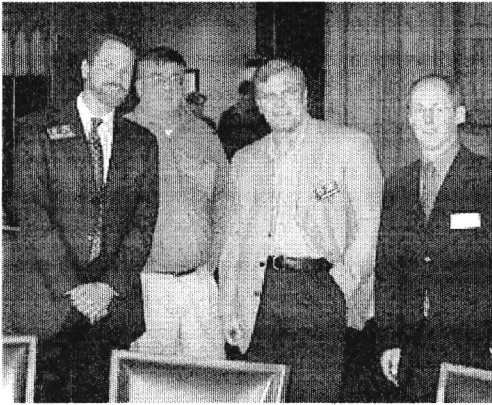
Pay for meetings using your credit card

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

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid using PayPal. If you have any questions about this process, please contact Robert Marcial at <rmarcial@uclink4.berkeley.edu>.

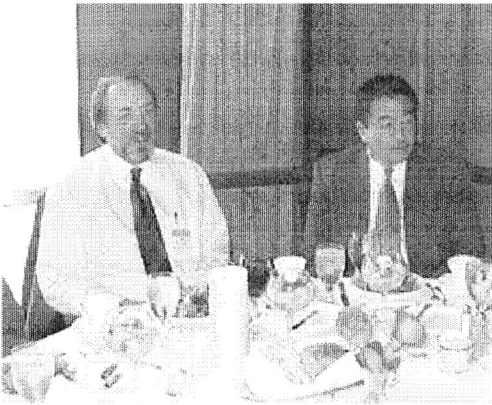
NOTE: At the meeting, we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. **All credit card payments MUST go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.**



President Bob Levi, Steve Blanc, Jeff Blaevot, & Mark Hydeman



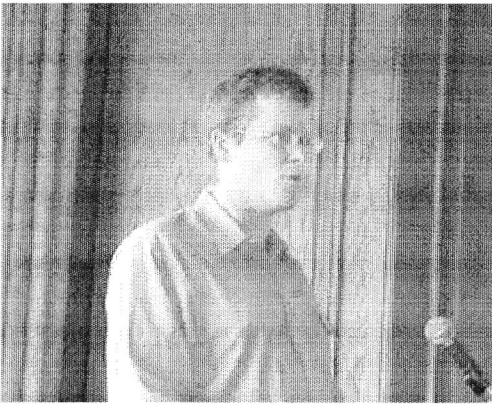
Jon Malkovich and Elizabeth Dubensky



Mike Rubio and Kreyne Sato



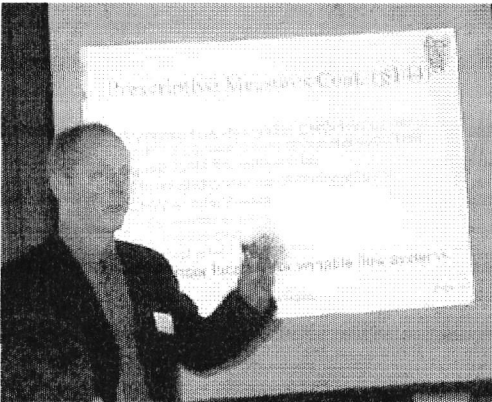
Dennis Leung and Mike Scofield



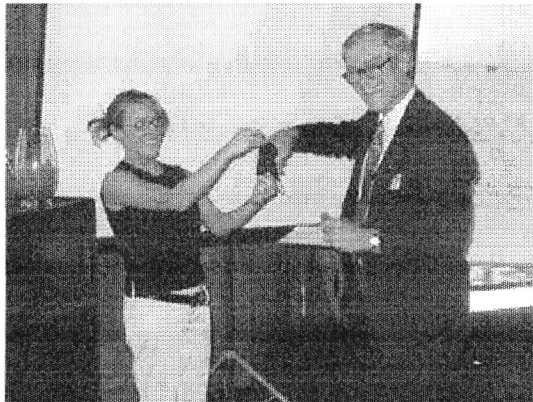
Scott Wayland discusses the Technology Awards



Kristin Vogt and Stacy Dyke



Speaker Mark Hydeman discusses the 2005 Title 24



Nicolina Guiliano allows Mike Scofield to draw for the Marble Game

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 6

MARCH 2004

March Meeting Notice

Date: Thursday, March 4th
Place: Embassy Suites Hotel
101 McInnis Parkway
San Rafael, CA 94903
[MAP](#)

Schedule:

5:30PM to 6:30PM - Registration & Social
6:30PM to 7:30PM - Dinner with Announcements
and Introductions
7:30PM to 7:45PM Break
7:45PM to 8:30PM Speaker
8:45PM Meeting Adjournment after Marble Draw

Cost: \$35 for members and guests

Reserve by Monday, March 1st at noon

Students - No charge, but please reserve a spot
Voucher - No charge, but please reserve a spot.
\$42 for non-members, late reservations and at the door

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

Please reserve on-line by visiting www.ggashrae.org and clicking on "Meetings", and click on "Mar 4", fill out the form and send.

Or use the fax form in the Fog Dispenser.

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

March Program



Speaker: Ken Mozek, P.E. Hybrid Central Plant Application, Evaluation and Design

What is a hybrid chilled water plant? When does a Hybrid Central Plant design make economic sense? What are the critical application issues that need to be understood when designing a Hybrid Central Plant? How do I determine the "Most Economical Central Plant Solution"?

Ken will discuss the industry trends that are influencing designs that incorporate the use of multiple energy sources (Steam, Gas & Electric) in a Central Chilled Water Plant. Ken will review the types of systems that are available along with their application and economic advantages and review the tools that are available to evaluate these solutions.

Ken will also provide examples of projects in North America that have installed Hybrid Central Plants to meet their economic and application needs.

Ken Mozek is the District Sales Manager for York International in Northern California, responsible for HVAC equipment and solution sales with offices located in Pleasanton, Sacramento, Fresno and Reno. He has been helping Clients to meet their HVAC needs in the most economical way for over 24 years.

Golden Gate Chapter President's Message, March 2004

Green is Good!

Remember the 1987 film "Wall Street" where the fictitious corporate raider Gordon Gekko said "...greed – for lack of a better word – is good. Greed is right. Greed works"? I propose that we change that maxim to *Green is good. Green is right. Green works.* Those of you that attended the February meeting heard Kevin Hydes' captivating presentation on Barriers to Green Design. Kevin made it clear that there no longer are legitimate reasons for HVAC professionals not to promote Green buildings.

Green buildings benefit the environment, the economy, and the occupants' health and comfort. Green buildings reduce or shift energy consumption which saves money and reduces the United States' dependence on imported energy supplies. Enough studies have been completed to unequivocally prove that occupant productivity improves when working in a comfortable environment.

At an earlier stage of the movement to create more Green buildings, there were several misconceptions including that these buildings were expensive, ugly, and uncomfortable. It was also perceived that the designers' fees and profits may suffer due to the reduction in the size and quantity of HVAC equipment. Today it seems like we are past these myths about Green buildings and the designers and builders that are specializing in Green buildings are among the most successful firms.

Want to learn more about the subject? Read the October 2003 Report to California's Sustainable Building Task Force titled *The Costs and Financial Benefits of Green Buildings*. It is available for download on our website www.ggashrae.org. Click on GG Meetings and Events, scroll to Feb. 5 and click on the link.

Kevin concluded his presentation with a picture of his young daughter. His message was that if you promote Green for no other reason, do it for our future generations. Think about that when you look at your children, grandchildren, nieces, and nephews! Green is good!

Our March meeting will be a joint dinner meeting with the Redwood Empire Section in San Rafael. Ken Mozek will discuss Hybrid Chiller Plants. Hope to see you there.

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

Ken Mozek's Biography, continued

He has worked for York in various design, marketing and sales management positions in York, Pennsylvania, New York City, Washington D.C., and San Francisco. He has extensive background in Hybrid Central Chiller Plant designs that integrate the use of steam, gas and/or electric driven refrigeration equipment. He has worked closely with Utility companies in both New York State and Northern California in the design of their energy programs. Ken was the recipient of the "Energy Star Building Award" in 1995 for HVAC Building Retrofits. Ken has a BSME from New Jersey Institute of Technology (NJIT).

Nominating Committee for 2003-2004 Year

This year's nominating committee consisted of the following Chapter members: Mark Hydeman, Chairperson, Dennis Thompson, Debra Marshall, Stevan Blanc, and Ernie French. They met to discuss nominations and contacted the existing members for confirmation of obligation. The Ballot will be published in the April Fog for voting.

The proposed slate of officers for the GG Chapter Board of Directors for the year of 2004-2005 are as follows:

Robert Levi, Past President
Cory Palmer, President-Elect
Glenn Friedman, Secretary
Debbie Marshall, Treasurer
Robert Marcial, Second Year Board Member
Jeff Blaevoet, First Year Board Member
Jon Wintermeyer, President (Automatic, this position does not require a vote)

Ken Mozek District Sales Manager
(925) 417-7202

Sales Engineers
 Bill Bates (925) 417-7212
 Greg Boyle (925) 417-7206
 John Mitchell (925) 417-7220
 Eric Levy (925) 417-7230
 Shaun Webster (925) 417-7223
 Kirk Peterson (925) 417-7208

Sales Application Engineers
 Kristin Vogt (925) 417-7219
 Jeremiah Di Matteo (925) 417-7209

Sales Assistant
 Paula Bramhall (925) 417-7204

Control Sales
 Rafael Sabia (925) 417-7227
 Johanna Gustafsson (925) 417-7218



7060 Koll Center Parkway
 Suite 312
 Pleasanton, CA 94566

York International Proudly Supports ASHRAE Research

2004 Golden Gate ASHRAE Events

DATE	LOCATION	PROGRAM	SPEAKER
Apr. 1	Pacific Energy Center San Francisco	Science Fair and Scholarship Winners Product Show before Dinner	Students
May 6-8	Sacramento, CA	Region X CRC annual meeting hosted by the Sacramento Chapter of ASHRAE	Regional Officers and Chapter Delegates
May 13	Field Trip and Lunch in San Francisco	Asian Art Museum for HVAC tour and then Museum exhibit viewing time	Guide Gordon Bailey
June 3	Scott's Seafood Rest. (Jack London Square)	Spouse Night with Comic Relief	James "Jim" Giovanni
June 11	Boundary Oaks Golf Course, Walnut Creek	Annual Golden Gate Chapter Golf Tournament Outing for Members	Kirk Peterson. Chairperson
June 26- 30	Nashville, TN	ASHRAE Annual Meeting, contact : www.ashrae.org for programs	Seminars and Technical Sessions

Student Activities Committee

By Gary Harbison, ASHRAE Golden Gate Chapter Student Activities Chair

The Eric Thor Andresen and Donald G. Bryant Memorial Scholarships were established to provide financial assistance to local community college, college, and university students. Both scholarships are \$1,500, to be awarded at the regularly scheduled April meeting. Applicants need to be student members of ASHRAE and full time students.

The application process is an easy one, as we only require the application form, a short essay and resume. To be considered, the application needs to be submitted on or before March 19, 2004.

Further details of eligibility requirements and how to submit for consideration are on our website, along with the official application forms.

ASHRAE Research Report

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

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.

Have you used your ASHRAE handbooks lately? If so, you realize how much research has gone into producing these books. The research for these books is your donation dollars at work! Every dollar that you donate goes to support ASHRAE Research.

The following individuals have donated on the honor level in the last month. If you have donated and have not been recognized please notify us. We want to make sure to recognize everyone who has donated!

Corporate Honor Roll Investors (\$150.00 or more)

MHC Engineers Incorporated

Individual Honor Roll Investors (\$100.00 or more)

Mike Scofield

Thanks to everyone who has donated!

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

Jon Malkovich
925.688.1369 x4
jon.malkovich@ebward.com

Johanna Gustafsson
925.417.7218
johanna.gustafsson@york.com

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

2004 Golden Gate Technology Awards were due at the end of February!!!

If you would like to submit a project, contact Scott Wayland at sewayland@comcast.net or at (510) 508-2244 as soon as possible.

For more information including an application, go to:

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

ASHRAE E-Newsletters

As you may know, Society has been making many changes to the website. Additionally, there are two email newsletters that are published weekly and bi-monthly.

Most of you may already get *The HVAC&R Industry*, ASHRAE's free weekly eNewsletter for HVAC&R professionals. It provides relevant, timely information about industry and technology for people who create healthy, comfortable indoor environments and is sent via email every Thursday. It is available to members as well as non-members.

In *The HVAC&R Industry* you'll get:

- Current news in the HVAC&R industry
- New developments, meeting schedules, and other ASHRAE information
- A lead story that investigates breaking industry news and a feature story that takes an in-depth look at an industry topic in every issue
- Quick links to ASHRAE's online technical information, member-oriented content, and other site features

Some of you may not know about the newest email newsletter, *Society Connections*.

In *Society Connections* you'll get:

- Current news about ASHRAE
- ASHRAE's new Discussion Forums on industry-related topics and the Society
- The opportunity to dialogue with other members on a specific important topic or question pertaining to ASHRAE
- Quick links to read and discuss a technical article from ASHRAE Journal.
- Convenient links to online versions of departments from *ASHRAE Insights*.

Society Connections is only available to ASHRAE members.

If you do not already get both of these newsletters, go to the following link for more information, archives, to signup or manage your subscriptions:

<http://membership.ashrae.org/template/EnewsletterLanding>

For further assistance, please contact Christopher Weems at cweems@ashrae.org or at 404 636-8400 ext. 1133

Contact Scott Wayland and the TEGA Committee regarding submitting at (510) 508-2244 or at

sewayland@comcast.net

Code Committee

ASHRAE Golden Gate Chapter members responsible for Design and Construction Review are invited to inform our Code Committee on CODE INTERPRETATION issues they face with the AUTHORITIES HAVING JURISDICTION (AHJ) and City Building Department staff I.e., Building Officials, Plan Checkers and Building Inspectors. This will enable the membership to participate in the Code Committee endeavors in proposing changes to the existing Codes of Practices. Code Committee has been in existence for a long time and has been successful in proposing and effecting numerous changes to e.g., San Francisco Building Code, Uniform Mechanical Code, Title 24 Energy Conservation Standards and NFPA 5000.

Matt Chikhale, Chairperson, Code Committee
MMCA1@MSN.COM

Minutes of February 5, 2004 Chapter Meeting

Location – Scott's Seafood Restaunt, Jack London Square, Oakland, CA

- Meeting called to order at 5:30 p.m. by Bob Levi.
- Self-introductions.
- A motion was made to approve the January 12 meeting minutes. The motion passed unanimously.
- The Eric Thor Andressen Memorial Scholarship Fund has received an additional gift of \$50,000. The gift came from Eric's father, Flemming Andresen. The Scholarship fund was set up in 1991 – one year after Eric died. Eric was a young engineer working for Glumac. These funds will be safely invested to earn interest that will be used to fund more or larger scholarships for Bay Area students.
- Notice that two local engineers had articles in the *ASHRAE Journal* in January.
 - Glenn Friedman: "Too Hot/Too Cold – Diagnosing Occupant Complaints"
 - Max Sherman: "ASHRAE's New Residential Standard 62.2"
- UCB Extension HVAC classes on Controls starting in March – taught by Steve Taylor and Mark Hydeman.
- Mark Hydeman, Chair of the Chapter's Nominating Committee, announced the nominations for next year's Golden Gate Chapter Board of Directors. The Nominating Committee was composed of Mark Hydeman, Chair, Steve Blanc, Dennis Thompson, Ernie French, and Debbie Marshall. The slate of candidates that are nominated for 2004-2005 are:
 - Bob Levi - Past-President
 - Jon Wintermeyer – President
 - Cory Palmer – President-Elect
 - Glenn Friedman – Secretary
 - Debbie Marshall – Treasurer
 - Robert Marcial - Second Year Board Member
 - Jeff Blaevoet – First Year Board Member
- A motion was made and seconded to close the nominations, and was approved unanimously.
- Edgar DeGuzman presented an award to Kirk Peterson for Kirk's work on the 2003 golf tournament.
- Gary Harbison, Student Activities Chair: Scholarships announcement.
- Gwelen Paliaga, recipient of the ASHRAE Travel Grant to Anaheim, described his experiences at the convention.
- Jon Malkovich: Resource Promotion announcement.
- Scott Wayland, TEGA Chair: Technology Awards due at the end of the month.
- Eric Levy, Product Show Chair: April Product Show announcement.
- Jon Wintermeyer introduced the speaker: Kevin Hydes, President of Keen Engineering and Vice Chair of USGBC.
- Marble Draw – Prizes sponsored by Johnson Controls and York International.
- Next month is a joint meeting with the Redwood Empire section in San Rafael. Ken Mozek will talk about hybrid chilled water plants.
- The meeting was adjourned at 8:30 p.m.

Respectfully submitted, Cory Palmer, Chapter Secretary

Board Meeting News

At the Board meeting held on February 11, 2004, the Board unanimously passed the motion to sell all the GMAC bonds currently held in the scholarship account because of its lowered rating to BBB. Motion was made by Glenn Friedman and seconded by Debra Marshall.

2003/2004 Golden Gate and San Jose Roster

The Golden Gate and San Jose ASHRAE Chapters are again going to publish an electronic version of the joint Roster for the entire Bay Area. All roster AD's have been collected and the roster is being checked against the latest member data as received from Society. If you have recently gone on line at the Society WEBSITE and made changes to your file, please notify a member of the Board in writing or by e-mail, as Society may not have the latest information forwarded to us in time for Roster publication.

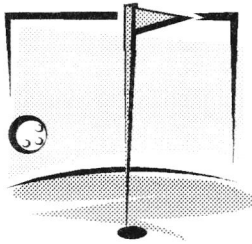
2004 Product Show

Final Reminder !!! Time is going quickly to reserve your table or tables for the Product Show at the PEC, prior to the regular April 1st meeting. If you are interested or need more information, contact Chairperson Eric Levy: Phone (925) 417-7230, Fax (925) 426-1188 or e-mail eric.levy@york.com.

Marble Draw

Thank you to the Johnson Controls and York International for sponsoring the Marble Draw prizes at the February meeting. The special marble was not picked, so the Marble Draw pot rolls over to the April meeting. The Pot is now worth well over \$1,000 for April's drawing, as the March meeting is in San Rafael with the Redwood Empire and they will have their own drawing and prizes. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at nicolina.j.guiliano@jci.com

Golf Tournament



ASHRAE Golden Gate Chapter 2004 Golf Tournament

Friday, June 11, 2004 • 12:30 pm Shotgun Start

Boundary Oaks Golf Course

www.boundaryoak.com

3800 Valley Vista Road, Walnut Creek, California 94598

Registration opens at 11:00 a.m.

- Awards Dinner • Scramble Tournament • Prize Raffle
• Two "Longest Drive" Contests • Two "Closest to the Pin" Contests

Pricing:

(all packages include dinner and golf goodies):

Gold Sponsor.....	\$1,850
<i>(4 foursomes, 2 tee sponsorships)</i>	
Silver Sponsor.....	\$1,450
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$1,000
<i>(2 foursomes)</i>	
Basic Team.....	\$ 520
<i>(1 foursome)</i>	
Single Player.....	\$ 135

Contest Sponsors, Tee Sponsors, and Prize Donations are graciously requested

All proceeds benefit ASHRAE Research

For more information, or to sign up your team, please contact
Kirk Peterson via e-mail: kirk.peterson@york.com

From the Chapter Historian

Joseph E. Murray – GGASHRAE Biography

Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

In 1957, when I (author) sought my first post-graduate engineering position, Joe Murray hired me. He had been the President of the Golden Gate Chapter of ASHRAE for 1953-54.

Earlier, in 1945, the consulting firm of Garthorne, Buonaccorsi & Murray was formed to include Joe. In 1953, Garthorne, an electrical engineer, retired and Mel Lewis joined the firm for a short time and the name changed to become Buonaccorsi, Murray and Lewis, but Mel later moved on to Bechtel. Al Buonaccorsi and Joe Murray were both mechanical engineers.

While I was employed there from 1957 to 1966, the firm was located at 350 Mission Street at the corner of Fremont. In 1963, Joe left the firm and started his own practice in the International Building, near Chinatown. The remaining firm became Buonaccorsi & Associates.

Joe was the Chair of the Society's Winter Meeting in San Francisco in 1970. Regretfully Joe passed away about one week before the meeting began, and his Vice Chair Tom White took over the role and presided at the meeting.

Some things that impressed me about the early days of my first post-graduate engineering position with Joe, was my first assignment, which was to develop a standard form on which the firm's engineers, mostly my seniors, would use to calculate building cooling loads. With no prior exposure to ASHVE, I was handed Joe's copy of the latest guide and told to "go to it". At the time I considered it to be merely a task. However, upon reflection, I can't think of a better way to introduce a young engineer to the ASHVE cooling load methodology. Did they ask me to do this as a task or as a learning experience? I'll never know.

Another was within my first or second year with the firm, Joe assigned me to design a new American embassy in Fukuoka, Japan. He gave me substantially no guidance, as this was another learning experience arranged by Joe's faith in me, or just poor judgment on his part.

A third came when I didn't know the shading factor of a drapery, Joe told me to send a sample of it to the ASHRAE lab in Cleveland, Ohio, where their researchers would test it in a solar calorimeter and determine the shading factor for me. (The idea of using a shading factor was very new at that time).

Joe, you exposed me and other young engineers in HVAC to a lot in a very short period of time and the author will always be grateful.

The Golden Gate Chapter thanks you Joe Murray for your contributions to ASHRAE and our industry.

(Information by the author's memory, from his association with Joe and the 1994-95 Chapter's Centennial FOG Dispenser issue.

HISTORIAN'S REQUEST FOR SOME INFORMATION FROM THE CHAPTER MEMEBERS

My Fellow members of Golden Gate ASHRAE, if you are or know of any other member, who was a former member of ASRE (American Society of Refrigeration Engineers) in San Francisco from 1944 to 1958, when it then merged into ASHVE to become ASHRAE, please contact me. I am Carl Jordan, Chapter Historian, please call me at (510) 526-6299 so that we may talk, or mail me your information to 646 Colusa Ave, Berkeley, CA 94707-1518, so that we can preserve for our new younger members, the accuracy of our Chapters long and interesting history in the San Francisco Bay Area.

Thank you for your cooperation.
Carl Jordan

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For Thursday, March 4th

Please reserve prior to **Monday at noon, March 1st.**

Please reserve on-line by visiting www.ggashrae.org and click on "Meetings", and click on "Mar 4", fill out the form and send. Or FAX the following form to Debbie Marshall (510) 639-3337.

Members with vouchers – you too – must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by March 1st.

FROM: _____

COMPANY: _____ Phone: _____

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

Pay for meetings using your credit card

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

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid using PayPal. If you have any questions about this process, please contact Robert Marcial at <rmarcial@uclink4.berkeley.edu>.

NOTE: At the meeting, we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. All credit card payments **MUST** go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.

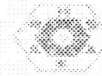
Employment Opportunities

CDM, Mechanical Engineer, Walnut Creek

The successful candidate will be responsible for the design of HVAC, plumbing, and fire protection systems for buildings including analysis, equipment selection and equipment layout. The candidate will also prepare plans and specifications for bidding and construction, work with other disciplines to produce a fully coordinated project and prepare engineering studies and reports. Candidate must meet deadlines, quality standards and utilization goals. BSME required with 5 years of experience designing building systems for water and wastewater treatment facilities, biotechnology facilities, semiconductor facilities and other industrial facilities. Ability to understand P&ID's preferred. Must have excellent written and verbal communication skills. AutoCAD and Microstation skills desired. PE desired. Qualified applicants please send resume to mesace@cdm.com. EOE/AA

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 7

APRIL 2004

April Meeting Notice

Date: Thursday, April 1st
Place: Pacific Energy Center ([w www.pge.com/pec](http://www.pge.com/pec))
851 Howard Street
San Francisco, CA 94103

Schedule:

4:30PM to 6:30PM - Product Show Displays,
Bar opens at 5:00 PM,
Meeting Registration
6:30PM to 7:30PM - Dinner with Announcements
and Introductions
7:30PM to 7:45PM Break
7:45PM to 8:30PM Science Fair Award Winners
Technology Award Winners
Scholarship Winners
Product Show Vendors
8:45PM Meeting Adjournment after Marble Draw

Cost: \$35 for members and guests
Reserve by Tuesday, March 30 at noon
Students - No charge, but please reserve a spot
Voucher - No charge, but please reserve a spot.
\$42 for non-members, late reservations and at the
door

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

Please reserve on-line by visiting www.ggashrae.org and
clicking on "Meetings", and click on "Apr 1", fill out the
form and send.

Or use the fax form in the Fog Dispenser.

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

April Program

Prior to the meeting, the Annual Product Show will
take place at the Pacific Energy Center. Local vendors
will be displaying their products with the latest
technologies. Your first beverage will be FREE
courtesy of the Product Show Vendors. These vendors
will also sponsor over \$600 in prizes that will be raffled
after the dinner to the attendees of the Product Show.
There is no charge to attend the Product Show. Just the
normal charge for the dinner as noted.

The April meeting is ASHRAE Student night. This is
always a fun night to celebrate the youth of today and
their promise for the future. We will be recognizing at
the meeting students and professionals for the
following accomplishments:

ASHRAE Scholarships

Eric Thor Andresen Memorial Scholarship
Don G. Bryant Memorial Scholarship

ASHRAE Travel Grant Awards and presentation by
previous winners

San Francisco Bay Area Science Fair Awards
Presented to the Middle School and High School
Students with the best HVAC related projects
displayed at the 2004 Science Fair in the Academy of
Sciences. Students will be encouraged to give a brief
presentation on their project. Selected Students with
their Parents or a Sponsor will be invited to attend the
dinner meeting.

Golden Gate ASHRAE Technology Awards -
Presented by the TEGA Committee

Golden Gate Chapter President's Message, April 2004

ASHRAE Membership

To be competitive in today's markets, companies and individuals must rely on new technology. ASHRAE is the industry's only complete source for information about HVAC&R technology.

If you are reading this, chances are you are already an ASHRAE member. So this message is meant as a reminder of membership benefits so you will encourage others to join.

ASHRAE members gain direct access to new technology through:

- *ASHRAE Handbook* -- Members receive updated volumes annually. The four-volume series presents fundamental engineering data that is updated through Society-directed research; explains new advances in equipment; and covers application of new technologies to solve design and operating problems.
- *ASHRAE Journal* -- Members receive monthly issues of the magazine, which contains the latest in industry news and products, peer-reviewed articles, updates on the activities of the Society's Washington office and information on upcoming meetings and shows.
- Members also gain access through numerous publications and the ASHRAE Learning Institute.

ASHRAE membership and participation offers several benefits in addition to the technology aspect. These benefits include the all-important networking in the industry, strengthening of leadership skills, self-development and sharing of ideas.

Want to get \$10 from ASHRAE? Recommend a new member. The *Member-Get-A-Member* program is designed to reward members who recruit new members. The applicant is asked to complete the *Member-Get-A-Member* section on the application with your name and member number. A \$10 coupon is sent to the sponsoring member. The coupon can be used towards the purchase of ASHRAE publications, logo merchandise and ASHRAE membership dues.

You can find the appropriate application forms on our website, www.ggashrae.org, click on FAQ, and go to #11.

Our April meeting will be at the Pacific Energy Center. The Product Show will be held prior to dinner. After dinner there will be brief presentations by our Student Scholarship, Science Fair, and Technology Award winners. It will be an entertaining evening. Hope to see you there.

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

Homeland Security for Buildings, Satellite Broadcast

On Wednesday, April 14th from 9:00 am to noon PDT, ASHRAE will host a free satellite broadcast. Visit <http://www.ashrae.org/template/AssetDetail/assetid/30812> for more details

There will be two broadcast locations in the Bay Area:

California Department of Health Services, Richmond Laboratory
850 Marina Bay Parkway, Richmond, CA 94804

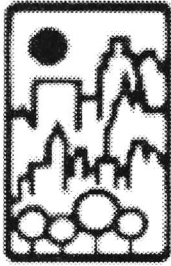
Advance registration is mandatory. You must register no later than Monday April 12th. Please send an email message to Bob Levi blevi@pachell.net with your name and company. Bob will forward a list to the host.

Enter at the main gate and tell the guard that you are registered for the ASHRAE satellite broadcast at the auditorium. Since this is a high security facility, be prepared for similar security screening to what you experience at an airport. Bring your photo ID. Arrive early, because security clearance will take some time, and parking is limited close to the auditorium. A cafeteria is available.

ASHRAE San Jose Chapter at the Trane Company

310 Soquel Way, Sunnyvale, CA 94086

Advanced registration is required. Limited to the first 25 people to register. Contact Grant Paedon, at 408-481-3600, or gppaedon@trane.com to register.



AIR TREATMENT CORPORATION

2156 Central Avenue
Alameda, CA. 94501

Phone: 510 769-0700
Fax: 510 769-0702

Air Treatment Corporation Salutes ASHRAE

Our degreed engineers will provide application assistance in the design, layout, and selection of products from our resources to meet all your project requirements

2004 Golden Gate ASHRAE Events

	LOCATION	PROGRAM	SPEAKER
May 6-8	Sacramento, CA	Region X CRC annual meeting hosted by the Sacramento Chapter of ASHRAE	Regional Officers and Chapter Delegates
May 13	Field Trip and Lunch in San Francisco	Asian Art Museum for HVAC tour and then Museum exhibit viewing time	Guide Gordon Bailey
June 3	Scott's Seafood Rest. (Jack London Square)	Spouse Night with Comic Relief	James "Jim" Giovanni
June 11	Boundary Oaks Golf Course, Walnut Creek	Annual Golden Gate Chapter Golf Tournament Outing for Members	Kirk Peterson. Chairperson
June 18	San Francisco Tennis Club	Golden Gate Chapter Memorial Tennis Tournament	Jason Daters
June 26-30	Nashville, TN	ASHRAE Annual Meeting, contact : www.ashrae.org for programs	Seminars and Technical Sessions

Student Activities Committee

By Gary Harbison, ASHRAE Golden Gate Chapter Student Activities Chair

We will be honoring academic achievement and awarding scholarships at the April meeting. We will be presenting awards for both the memorial scholarships and Bay Area Science Fair entrants.

We have had multiple, highly qualified and well received entries for The Eric Thor Andressen and Don Bryant Memorial Scholarships.

The 51st San Francisco Bay Area Science Fair was held at the Hall of Flowers in Golden Gate Park, and judging was on March 25, 2004.

Jon Wintermeyer has been using the "Cool Tools" for school presentations. If any others wish to present at local middle or high schools, please me know, so I can arrange to provide you with this kit.

ASHRAE Research Report

We are in the home stretch of the ASHRAE Research Year. Have you donated yet? It's not too late to make a donation and make a significant impact on the HVAC industry through research.

The following individuals have donated on the honor level in the last month. If you have donated and not been recognized please let us know. Thanks to everyone who has donated!

Corporate Honor Roll Investors (\$150.00 or more)

Norman Wright Incorporated

Individual Honor Roll Investors (\$100.00 or more)

Wasil Popow

Jack Palmer

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

Jon Malkovich
925.688.1369 x4
jon.malkovich@ebward.com

Johanna Gustafsson
925.417.7218
johanna.gustafsson@york.com

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

2004 Golden Gate Technology Awards

Congratulations to all who participated. The results will be announced at the April 1st meeting.

ASHRAE E-Newsletters

As you may know, Society has been making many changes to the website. Additionally, there are two email newsletters that are published weekly and bi-monthly.

Most of you may already get *The HVAC&R Industry*, ASHRAE's free weekly eNewsletter for HVAC&R professionals. It provides relevant, timely information about industry and technology for people who create healthy, comfortable indoor environments and is sent via email every Thursday. It is available to members as well as non-members.

In *The HVAC&R Industry* you'll get:

- Current news in the HVAC&R industry
- New developments, meeting schedules, and other ASHRAE information
- A lead story that investigates breaking industry news and a feature story that takes an in-depth look at an industry topic in every issue
- Quick links to ASHRAE's online technical information, member-oriented content, and other site features

Some of you may not know about the newest email newsletter, *Society Connections*. In *Society Connections* you'll get:

- Current news about ASHRAE
- ASHRAE's new Discussion Forums on industry-related topics and the Society
- The opportunity to dialogue with other members on a specific important topic or question pertaining to ASHRAE
- Quick links to read and discuss a technical article from ASHRAE Journal.
- Convenient links to online versions of departments from *ASHRAE Insights*.

Society Connections is only available to ASHRAE members.

If you do not already get both of these newsletters, go to the following link for more information:
<http://membership.ashrae.org/template/EnewsletterLanding>

For further assistance, please contact Christopher Weems at cweems@ashrae.org or at 404 636-8400 ext. 1133

ASHRAE Standards Actions and Public Review Drafts

Society has a page under 'Technology and Standards' that posts announcements including public review drafts open for comment, call for members on ASHRAE committees, publications, new errata and interpretations, and other information related to ASHRAE standards and standards related activities.

Please take a look at these issues, there are several to review. Society wants your help if you have a comment. One interesting draft that is out for 45-day public review is Standard 134P – Graphic Symbols for HVAC&R Systems.

You can find these Standards Actions and Public Review Drafts here:

<http://www.ashrae.org/template/TechnologyLinkLanding/category/1634>

Contact Scott Wayland and the TEGA Committee at (510) 508-2244 or at sewayland@comcast.net

Minutes of March 4, 2004 Chapter Meeting

Location – Embassy Suites, San Rafael, CA Joint Meeting with the Redwood Empire Section

- Meeting called to order by Bob Levi at 7:15 pm
- Self-Introductions of members and guests, noting Chapter/Section affiliations.
- This is the third annual joint meeting between the Golden Gate Chapter and the Redwood Empire Section
- Motion was made to approve the February 5th meeting minutes. The motion passed unanimously.
- Bob asked the attendees about their interest in the April 14th ASHRAE satellite broadcast on Homeland Security for Buildings. There was limited interest, so the chapter will not spend the extra money for a San Francisco venue. There will be broadcasts in Richmond and Sunnyvale.
- Jon Wintermeyer announced that the election ballots, based on the slate of officers submitted by the Nominating Committee and approved at the February meeting for Chapter members to vote on for the 2004-2005 Board will be in the April FOG and also posted on the Website for the membership to use for either electronic or fax voting to the Chapter Secretary.
- Robert Marcial, Board Member, announced that the Pacific Energy Center was successful at renewing their funding from the CPUC. Thanks for all of the letters of support that our members sent.
- Dennis Thompson announced the Cal Poly Student Chapter Golf Tournament in San Luis Obispo.
- Rob Main, Redwood Empire Section President, announced that their Golf Tournament will be on Oct. 1st.
- Kirk Peterson, Golf Tournament Chair noted this year's event will be on June 11th again at the Boundary Oaks Golf Course in Walnut Creek.
- Carl Jordan, Chapter Historian, asked any members of ASHRAE's predecessor organizations, ASRE, ASHVE, and ASHAE to contact him.
- Eric Levy, Product Show Chair, announced the April 1st Product Show prior to the next meeting at the Pacific Energy Center.
- Jon Malkovich, Resource Promotion Chair, thanked contributors and recognized them on the table cards.
- Scott Wayland, TEGA Chair, reminded all to get their Technology Award applications in this month.
- Bob Levi, in Gary Harbison's absence, announced that Scholarship applications are due this month and will be awarded at the April 1st meeting.
- John Cross of the Redwood Empire Section was selling raffle tickets.
- Jon Wintermeyer introduced the speaker for the evening program Ken Mozek, District Sales Manager for York International, who gave a presentation on Hybrid Central Plant Application, Evaluation and Design.
- John Cross drew the raffle tickets for the numerous donated prizes.
- Meeting adjourned at 9:00 pm

Respectfully submitted by the GG ASHRAE Board for Cory Palmer , due to his unfortunate accident

Code Committee

ASHRAE Golden Gate Chapter members responsible for Design and Construction Review are invited to inform our Code Committee on CODE INTERPRETATION issues they face with the AUTHORITIES HAVING JURISDICTION (AHJ) and City Building Department staff I.e., Building Officials, Plan Checkers and Building Inspectors. This will enable the membership to participate in the Code Committee endeavors in proposing changes to the existing Codes of Practices. Code Committee has been in existence for a long time and has been successful in proposing and effecting numerous changes to e.g., San Francisco Building Code, Uniform Mechanical Code, Title 24 Energy Conservation Standards and NFPA 5000.

Matt Chikhale, Chairperson, Code Committee,
MMCA1@MSN.COM

2004 Product Show

REGISTER NOW FOR THE 2004 ASHRAE PRODUCT SHOW!

The annual Product Show will be held on Thursday, April 1st at the PG&E Pacific Energy Center in San Francisco. Golden Gate ASHRAE sponsors this year's Product Show; 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 2004 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 1, 2004 will be as follows:

3:00 – 4:30 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 2004 Product Show exhibitors by March 24th. Any firm that has not participated in the past should contact Eric Levy 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 by Eric Levy, 2004 Product Show Committee Chair, Phone 925.417.7230,
Fax 925.426.1188, eric.levy@york.com

Field Trip

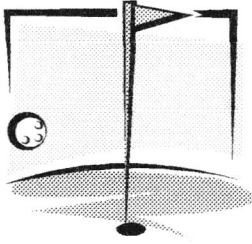
Asian Art Museum, May 13, 2004

Attention GGASHRAE Members! We have a great May field trip planned for Thursday, May 13th. Please go to: http://www.ggashrae.org/meetings/2003-2004/may_fieldtrip.htm on the chapter website and check off to let us know if you're interested.

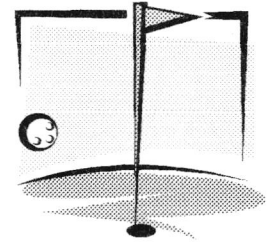
We have an afternoon San Francisco field trip planned, that will start with an 11:30AM lunch at the California Culinary Academy to sample their "Grand Buffet". This meal consists of both hot and cold appetizers, hot entrees and desserts as created by classes of supervised culinary students. Immediately after our lunch, we will go to the Asian Art Museum at 200 Larkin Street for a tour of the Asian Art Museum's HVAC systems provided by Mr. Gordon Bailey of the Museum Staff, which should finish around 2:00PM. Upon completion of the tour, you will be able to remain and tour the Museum at your leisure to see all the exhibits and art. The Asian Art Museum is open with extended hours on Thursdays until 9:00PM.

We are arranging this as a complete package of all items for our Chapter Members who wish to attend, but in order to complete the program reservations, we must place our number of attendees 30 days in advance of the date and make full payment at that time. That is why we need to know the interest level at the time of our April meeting, so that we can book the correct number of our party and reserve our meal seating, tickets and tour. Schedule yourself to make this afternoon of sampling good food, learning the types of HVAC systems and controls needed for a Museum and as much Asian Art enrichment as your time will allow. We have scheduled this field trip a week later than usual because of the Region X CRC meeting occurring on our usual meeting night, in order to make it available to those Chapter and Board members attending the CRC. We look forward to seeing you at this Field Trip.

Golf Tournament



ASHRAE Golden Gate Chapter 2004 Golf Tournament



Friday, June 11, 2004 • 12:30 pm Shotgun Start

Boundary Oaks Golf Course

www.boundaryoak.com
3800 Valley Vista Road, Walnut Creek, California 94598

Registration opens at 11:00 a.m.

- Awards Dinner • Scramble Tournament • Prize Raffle
- Two "Longest Drive" Contests • Two "Closest to the Pin" Contests

Pricing:

(all packages include dinner and golf goodies):

Gold Sponsor.....	\$1,850
<i>(4 foursomes, 2 tee sponsorships)</i>	
Silver Sponsor.....	\$1,450
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$1,000
<i>(2 foursomes)</i>	
Basic Team.....	\$ 520
<i>(1 foursome)</i>	
Single Player.....	\$ 135

Contest Sponsors, Tee Sponsors, and Prize Donations are graciously requested

All proceeds benefit ASHRAE Research

For more information, or to sign up your team, please contact
Kirk Peterson via e-mail: kirk.peterson@york.com

From the Chapter Historian

By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

Bob Braun – GGASHRAE Biography

Here's a guy that has been really active in our industry for a long time. The way I figure it, he has been doing engineering for fifty-six years. Wow! As you might expect he is a Life member and Fellow of ASHRAE.

After serving in the Navy, Bob got his BSME degree in 1947 (I was age fourteen) from UC Berkeley and then worked for several engineering firms in the San Francisco area for the next eleven years. He then became a principal of Charles & Braun where he remained from 1958 to 1992. Since then he has continued to practice as an independent consulting engineer.

Bob is a P.E. in nine states and has served on four ASHRAE Society Committees. He has also been a member of ASME, ASPE, CEAC, IAPMO and APEC (Automated Procedures for Engineering Consultants).

APEC, organized in about 1965, was formed as a Society where consulting engineers would share their individually written computer programs and sponsor the development of additional programs for their common benefit. They did this for heating and cooling loads, duct design, etc. Bob was very active in APEC and has used their programs extensively. The only reason he wasn't a founding member of APEC was that Charles & Braun couldn't afford to join that year. Nevertheless, Bob was an early and extensive user of the computer in his consulting practice.

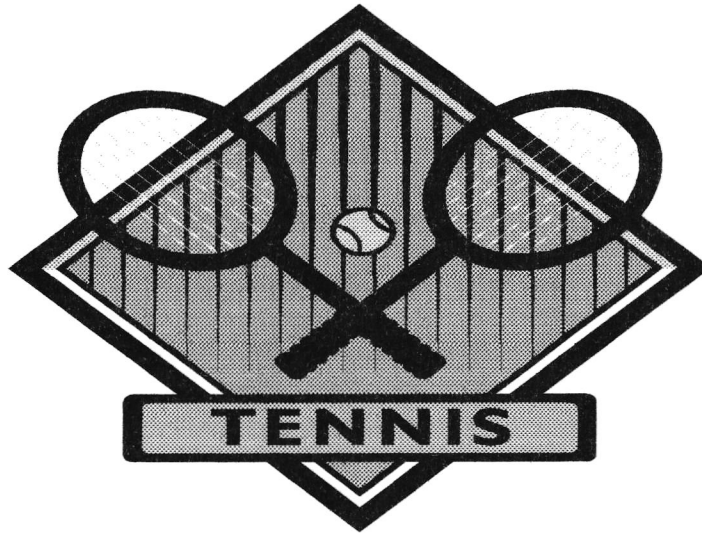
Another of Bob's strong suits has been education. He was the President of the San Mateo Elementary School Board, served on ABET (Accreditation Board for Engineering Technology) and has taught HVAC classes at UC Extension since 1980 (he is still doing it). He has also employed participants in the ESCMT program. (See the Karl Guttman biography for an explanation of the ESCMT)

Bob has been a good friend over the years. As individual practitioners, he and I have from time to time, consulted one another on perplexing matters, and that has been helpful to me. He is also a very fine photographer.

The Golden Gate Chapter thanks you, Bob Braun, for your very professional contributions to ASHRAE and our industry.

(Information by the author's memory, conversations with Bob and the official ASHRAE biography, 2003.)

**ASHRAE GOLDEN GATE CHAPTER
2004 MEMORIAL TENNIS TOURNAMENT**



WHERE: **San Francisco Tennis Club**
www.sftennis.com
645 Fifth Street @ Brannan
(415) 777-9000
Indoor Courts w/ locker rooms & garage parking

WHEN: **Friday, June 18th [1-4 PM]**

WHY: Proceeds benefit the Eric Andresen Engineering Scholarship Fund
Plus the chance to: have fun, exercise, network, & take a break from work

FORMAT: Round Robin Rotating Doubles
Awards for Individual Score Champions

COST: \$65/player - includes: court fees, balls, refreshments, & awards

To sign-up or for additional information,
contact the Tournament Coordinator – Jason Daters @ 510-723-7728 or
Jason.daters@siemens.com

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For Thursday, April 1st

Please reserve prior to **Tuesday at noon, March 30th.**

Please reserve on-line by visiting www.ggashrae.org/calendr.htm and click on "Apr 1", fill out the form and send. Or FAX the following form to Debbie Marshall (510) 639-3337.

Members with vouchers – you too – must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by March 30th.

FROM: _____

COMPANY: _____ Phone: _____

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

Pay for meetings using your credit card

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

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid using PayPal. If you have any questions about this process, please contact Robert Marcial at rmarcial@uclink4.berkeley.edu.

NOTE: At the meeting, we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. **All credit card payments MUST go through PayPal.** If you want to pay at the meeting, it's business as usual...cash or checks only.

OFFICIAL ASHRAE BALLOT FOR THE 2004/2005 GOLDEN GATE CHAPTER BOARD OF GOVERNORS

You mail fax or email the ballot, or vote electronically.

Please fax or email to: Cory Palmer, Secretary
Norman-Wright Co. Fax: 1-415-467-0900
Email: cpalmer@norman-wright.com

To vote electronically: <http://www.ggashrae.org/ballot.htm>

BALLOTS MUST BE RECEIVED BY WEDNESDAY, MARCH 31, 2004

POSITION	OFFICIAL CANDIDATE	VOTE	WRITE-IN CANDIDATE
Past President	Bob Levi	<input type="checkbox"/>	
President-Elect	Cory Palmer	<input type="checkbox"/>	
Secretary	Glenn Friedman	<input type="checkbox"/>	
Treasurer	Debbie Marshall	<input type="checkbox"/>	
Second-Year Board Member	Robert Marcial	<input type="checkbox"/>	
First Year Board Member	Jeff Blaevoet	<input type="checkbox"/>	

NOTE: In accordance with our bylaws, Jon Wintermeyer will automatically become President.

Signed: _____ Date: _____

Name (Print): _____

Instructions:

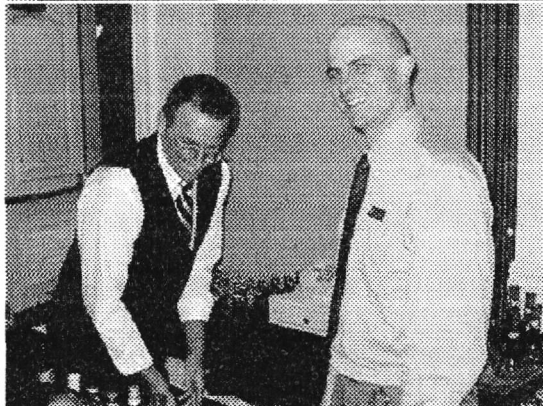
1. Please vote for the Board of Governors. Either indicate selection of the official candidate by placing a mark in the "vote" box next to the candidates' name, or fill in the name of a write-in candidate.
2. Sign and date the ballot.
3. Return ballot to Cory Palmer, Secretary.
4. This ballot is also available on the Chapter website (www.ggashrae.org) under Announcements



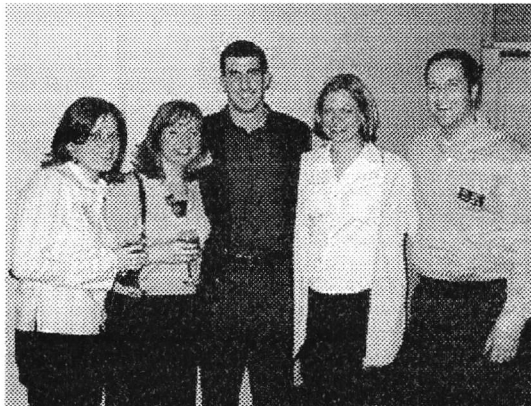
Our Guest Speaker Ken Mozek from York



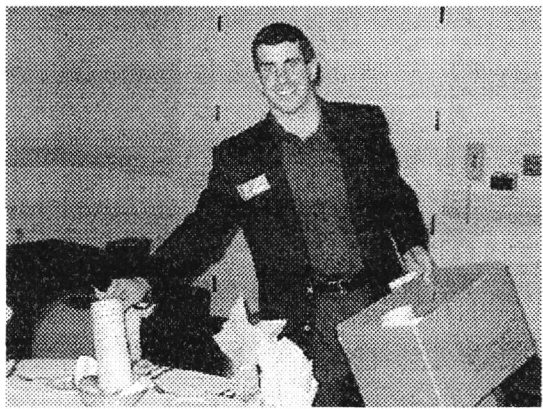
Brian Horban, name unavailable, Dale Yaeger, Greg Schnabel



Our Hosts for the evening from the Embassy Suites



Kristen Vogt, Elizabeth Dubensky, Jon Malkovich, Johanna Gustafsson, Shaun Webster



Jon Malkovich busy at working setting out the latest Research data



Name unavailable, Keith Marchando



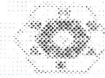
John Cross, Robert Marcial, Debbie Marshall



Past Presidents Jack Kniveton, Dick Charles

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 8

MAY 2004

May Meeting Notice

Date: Thursday, May 13th

Lunch Location: California Culinary Academy
625 Polk Street
San Francisco, CA 94102

Sample all the fare served at the "Grand Buffet"

Tour Place: Asian Art Museum
200 Larkin St
San Francisco, CA 9410

Time Schedule:

11:30AM to 1:00PM - Registration & Lunch
1:00PM to 2:30PM - Tour of Museum HVAC
2:30PM to Closing - Tour of Asian Art Museum
The Museum is open Thursday evenings for 4 additional hours until 9:00PM.

Cost: \$35 for members and guests

Reservation must have been made in advance in order to insure that an admission ticket was ordered in your name by April 13th. There will be NO walk-ins allowed at this meeting. The Chapter has already ordered admission tickets and paid for them in advance and like wise the lunch at the California Culinary Academy has already been prepaid in advance.

Don't forget about "PAYPAL" You may pay in advance with your credit card for Chapter meetings through paypal. Send your payment to paypal@ggashrae.org. But please remember that you still had to have entered your reservation prior to April 13th, or used the fax form in the Fog Dispenser.

Remember - If you make a reservation and cannot attend, you need to have canceled prior to 4/13/04, or you will be billed.

May Program Asian Art Museum Tour

The tour has been arranged through the Asian Art Museum visit coordinator Mr. Zak Silernail, with our host for the HVAC portion to be Mr. Gordon Bailey. We will meet immediately following lunch, at the "Priority Entry" location at the Larkin Street north doors. First we will have Gordon's insightful tour of the behind the scenes HVAC systems, components and controls necessary to maintain all the required air changes with the properly conditioned air for a Museum. The Museum has many visitors every day and the HVAC systems must still maintain the room environment necessary to keep the proper conditions for both temperature and humidity that will not adversely effect the many types of Art exhibited there. There are many variables that must be properly addressed from the opening of the building to the public at 10:00AM, after being in a closed and unoccupied state from the prior evening after 5:00PM. Following the HVAC tour all GG ASHRAE attendees will be free to visit the Exhibit Halls of the Museum until the scheduled closing for the evening

The specific Museum rules which must be obeyed during our tour of the exhibit areas, following the HVAC tour are duly noted:
Photographing special exhibits are not permitted. Flashes, tripods, easels and video cameras are prohibited. Hand sketching on writing pads is allowed. Once you have left the Museum there is no re-entry.

There is a Museum store that carries a wide variety of unique and Asian theme merchandise from around the world, including ceramics, jewelry, books and tea. Many of the specialty items are handmade and one of a kind and others are signature pieces available only at the Asian Art Museum.

Golden Gate Chapter President's Message, May 2004

ASHRAE Resource Promotion

"People who drink from the well often forget who dug it"

This is an ancient saying among desert nomads. How does this relate to fundraising for ASHRAE Resource Promotion? The publications, standards, and handbook updates of today are based on research projects that started as ideas five or ten years ago. Today we enjoy the results of the time and money invested by our predecessors in ASHRAE. If we and other future ASHRAE members want new and improved design guides, tool kits, computer programs and databases, five or ten years from now, we must dig deeper today and continue the investments in research. Did you know that nearly 90% of ASHRAE's books, standards, and guidelines are the result, to some degree, of research projects?

Resource Promotion is the new name for ASHRAE's combined fund raising effort for Research, ASHRAE Learning Institute (ALI), and Foundation. Research's mission is to improve the quality of life and to answer tomorrow's questions through research today. ALI is seeking to increase the variety of course topics available, lower the cost of training, and increase the variety of course formats. The Foundation exists to provide a permanent financial resource to support the Society and its mission to benefit the public.

100% of your contributions go to Research, ALI, or Foundation, as you choose. Absolutely no part of your contributions is used for any administrative costs. Administrative costs are paid from ASHRAE's general fund. What other charity uses 100% of your donation for the intended purpose? Your contribution is fully deductible since ASHRAE is a 501c3 organization. The good news is that you now can contribute on-line. Visit www.ashrae.org and click on the Quick Link on the left side "Contribute Online". To contribute, you can also contact Jon Malkovich. See his article in the Fog Dispenser or visit the Committee portion of the chapter website www.ggashrae.org/commttee.htm

The next time you use the Handbook or other ASHRAE publication, take an ALI course, or look up a technical topic on the ASHRAE website, remember to thank ASHRAE Resource Promotion by giving generously.

Our May meeting will be our Field Trip to the Asian Art Museum for an HVAC tour, preceded by lunch at the California Culinary Academy. Hope you remembered to make your early reservation and I'll see you there.

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

In Memoriam

Bob (Robert G.) Voelz, P.E. passed away on March 26th at the age of 76. Bob was the Golden Gate Chapter President in 1968-69. He was an ASHRAE Fellow, Life Member, and 50-year Member. Bob was a highly respected consulting engineer in the Bay Area for many years. His biography appeared on page 6 of the October 2003 issue of the Fog Dispenser, authored by Carl Jordan. As an indicator of how much Bob thought of ASHRAE, he donated to ASHRAE Resource Promotion at the Honor Roll level as recently as August 2003. We will miss you Bob Voelz.

ADVANCED COOLING TOWER TECHNOLOGIES, INC.

***PROVEN, DEPENDABLE, COST-EFFECTIVE CHEMICAL FREE
COOLING TOWER WATER TREATMENT IS NOW A REALITY
AND AVAILABLE FROM CLEARWATER SYSTEMS CORP.***

The Clearwater Systems Dolphin Series pulsed-power, chemical free water treatment technology has been used successfully in over 200 installations throughout Northern California and in over 1000 installations throughout the U.S. The significant benefits offered by this technology include:

- ❖ **Superior water treatment performance**
- ❖ **Reduced operating costs**
- ❖ **Elimination of hazardous chemicals**
- ❖ **Reduced water usage**
- ❖ **Safer and healthier workplace**
- ❖ **Reduced maintenance**
- ❖ **Qualification for LEED credit**

Please call us for more information on this major technological advancement in chemical free water treatment technology.

ADVANCED COOLING TOWER TECHNOLOGIES, INC.

1470 Enea Circle, Suite 1760

Concord, CA 94520

(925) 808-6480 • 800 773-0269 • Fax (925) 825-5035

RICK TASEFF

DAN DANIEL

KEN WOODARD

2004 Golden Gate ASHRAE Events

	LOCATION	PROGRAM	SPEAKER
May 6-8	Sacramento, CA	Region X CRC annual meeting hosted by the Sacramento Chapter of ASHRAE	Regional Officers and Chapter Delegates
June 3	Scott's Seafood Rest. (Jack London Square)	Spouse Night with Comic Relief	James "Jim" Giovanni
June 11	Boundary Oaks Golf Course, Walnut Creek	Annual Golden Gate Chapter Golf Tournament Outing for Members	Kirk Peterson. Chairperson
June 18	San Francisco Tennis Club	Golden Gate Chapter Memorial Tennis Tournament	Jason Daters
June 26-30	Nashville, TN	ASHRAE Annual Meeting, contact : www.ashrae.org for programs	Seminars and Technical Sessions

Student Activities Committee

By Gary Harbison, ASHRAE Golden Gate Chapter Student Activities Chair

At last month's meeting we awarded the following science fair awards and scholarships. All the entrants were extremely well qualified and were all deserving. For each case the judges had to quantify a qualitative subject and then flip-it; and qualify a quantitative subject...not an easy task, but we were able to come to a general consensus.

\$100.00 Science Fair Winners:

7th Grade: Elise Ongaro from San Anselmo, "Can Recycled Denim Blue Jeans be an Effective Insulator for Your Home?"

7th Grade: Michael Eng from San Leandro, "Dark or Light: Does it Make a Difference?"

8th Grade: Morgan Flannery from Oakland, "Wind Power: Is Bigger Better?"

10th Grade: Daniel Thornbury from Concord, "Controlling the Temperature inside a Parked Car Using Solar Energy and Thermoelectric Cooling"

\$500.00 Golden Gate Scholarships:

Sahar Fard from UC Berkeley

Jill Namoff from UC Berkeley

Jiat-Hwee Chang UC Berkeley

\$750.00 Golden Gate Scholarships:

Keke Chen from UC Berkeley

Cody Taylor from Stanford

\$1500.00 Donald G. Bryant Scholarship

Ronald Dean from UC Berkeley

\$1500.00 Eric Thor Andresen Scholarship

Morton (Robby) Bearman from Stanford

ASHRAE Research Report

I want to thank everyone who has donated to ASHRAE Research this year. So far we have raised \$7,164. However, our goal of \$21,035 is still a long way off! With your help I know that we can do make it happen!

You may have recently filed your state and federal tax returns. Do you remember how nice it was when you deducted your charitable contributions? Don't forget, a donation to ASHRAE today is a tax deduction next year!

The following individuals have donated on the honor level in the last month. If you have donated and not been recognized please let me know.

Corporate Honor Roll Investors (\$150.00 or more)

Gayner Engineers

Individual Honor Roll Investors (\$100.00 or more)

Robert Sonderegger

Max Sherman

Thanks to everyone who has donated!

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

Jon Malkovich
925.688.1369 x4
jon.malkovich@ebward.com

Johanna Gustafsson
925.417.7218
johanna.gustafsson@york.com

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

2004 Golden Gate Technology Awards

Every year ASHRAE conducts the Technology Awards program to:

- Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
- Communicate innovative systems designs to other ASHRAE members;
- Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

These results from our Chapter's competition were announced at the April meeting.

Award Recipients

Category I - Commercial Buildings - New

1st Place – Big Rock Ranch Facility, Jeffrey Blaevoet, Guttman & Blaevoet Consulting Engineers

Category II - Institutional Buildings - Existing

1st Place – UCSF Health Science East Improvements Phase I, Mark Redmond, Ted Jacob Engineering Group, Inc.

Category II - Institutional Buildings - New

1st Place – William Race Health Sciences Building, Santa Rosa Junior College, Tony Costa, Costa Engineers, Inc.

2nd Place – UCD Genome Launch Facility, Jeffrey Blaevoet, Guttman & Blaevoet Consulting Engineers

3rd Place – Michigan Alternative & Renewable Energy Center, Lev Kaganovich, Mechanical Design Studio, Inc.

Category III – Health Care Facilities - New

1st Place – Kaiser Medical Office Building, Jeffrey Blaevoet, Guttman & Blaevoet Consulting Engineers

Congratulations to all who participated. Each First Place winner is eligible to submit to the Region X Competition this month.

'Got Milk?' How about 'Got ASHRAE newsletters?'

If you don't already get the two ASHRAE email newsletters, go here:

<http://membership.ashrae.org/template/EnewsletterLanding>

The HVAC&R Industry has: Current news in the HVAC&R industry; new developments, meeting schedules, and other ASHRAE information; a lead story that investigates breaking industry news and a feature story that takes an in-depth look at an industry topic in every issue; Quick links to ASHRAE's online technical information, member-oriented content, and other site features.

Society Connections has: Current news about ASHRAE; ASHRAE's new Discussion Forums on industry-related topics and the Society; The opportunity to dialogue with other members on a specific important topic or question pertaining to ASHRAE; Quick links to read and discuss a technical article from ASHRAE Journal; Convenient links to online versions of departments from *ASHRAE Insights*.

Code Committee

ASHRAE Golden Gate Chapter members responsible for Design and Construction Review are invited to inform our Code Committee on CODE INTERPRETATION issues they face with the AUTHORITIES HAVING JURISDICTION (AHJ) and City Building Department staff i.e., Building Officials, Plan Checkers and Building Inspectors. This will enable the membership to participate in the Code Committee endeavors in proposing changes to the existing Codes of Practices. Code Committee has been in existence for a long time and has been successful in proposing and effecting numerous changes to e.g., San Francisco Building Code, Uniform Mechanical Code, Title 24 Energy Conservation Standards and NFPA5000.

Matt Chikhale, Chairperson, Code Committee, MMCA1@MSN.COM

Minutes of April 1, 2004 Chapter Meeting

Location – Pacific Energy Center, San Francisco, CA

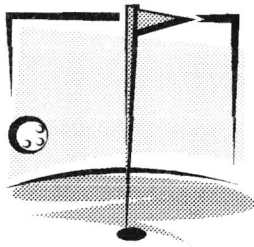
- Meeting called to order at 6:00 p.m. by Bob Levi.
- Tonight is Student Night – welcome to all students.
- The meeting minutes from March 4 were approved unanimously.
- Thank you to Eric Levy for organizing this year's Product Show, and thank you to all companies that participated.
- Sadly, Bob Voelz passed away March 26, 2004. Bob was Golden Gate Chapter President in 1968-69, and a 50-year member of ASHRAE.
- ASHRAE will broadcast by satellite the "Homeland Security in Buildings" program on Wednesday, April 14 from 9:00 a.m. to 12:00 noon. The program will be broadcast at the Department of Health Services in Richmond and at Pacific Coast Trane. Details can be found in the April Fog Dispenser online.
- An article by Steve Taylor and Jeff Stein on sizing VAV boxes is published in the April ASHRAE Journal. The research project was funded through a PIER (Public Interest Energy Research) grant from the CPUC.
- Cory Palmer announced the results of the 2004-2005 Board ballot:
 - Past President: Bob Levi
 - President: Jon Wintermeyer
 - President-elect: Cory Palmer
 - Secretary: Glenn Friedman
 - Treasurer: Debbie Marshall
 - Second Year Board Member: Robert Marcial
 - First Year Board Member: Jeff Blaevoet
- Bob Levi announced that the CRC will be held in Sacramento from May 6-8.
- Jon Wintermeyer reminded everyone that next month's meeting is a field trip to the Asian Art Museum.
- Kirk Peterson announced that the golf tournament will be June 11 at Boundary Oaks Golf Course in Walnut Creek.
- Jason Daters announced that the tennis tournament will be June 18 in San Francisco.
- Johanna Gustafson thanked this year's Honor Roll ASHRAE Resource investors and asked for additional contributions.
- Bob Levi reminded everyone that Nicolina Guiliano is selling Marble Draw tickets.
- Gary Harbison and Robert Marcial presented the Bay Area Science Fair awards and each student described his or her project.
- Gary Harbison awarded this year's Don Bryant Memorial Scholarship and Eric Thor Andresen Memorial Scholarship.
- Scott Wayland presented this year's Technology Award winners for the Golden Gate Chapter.
- Thank you to the Product Show exhibitors for their sponsorship of the raffle. Many nice items were won in the raffle.
- The Marble draw pot continues to grow, since the special marble was not drawn.
- A motion was made to adjourn the meeting, and Bob Levi adjourned the meeting at 8:30 p.m.

Respectfully submitted, Cory Palmer, Chapter Secretary

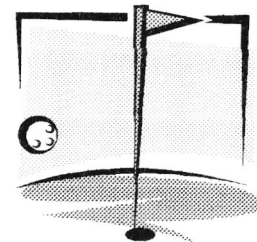
Marble Draw

Thank you to the many firms responsible for sponsoring the Marble Draw prizes at the April 1st meeting. Those Firms were: Advanced Cooling Tower Tech., Air Systems, Air Treatment Corp, California Hydronics Corp, E. B. Ward & Co, Kema-Xenergy, Liebert Corp, March Equipment Co, Norman S. Wright Co, PG&E, Siemens Building Technologies, Syserco, R.F. MacDonald Co and York International Corp. The special marble was not picked, so the Marble Draw pot rolled over to the June meeting. The Pot is now worth well over \$1,000 for June's drawing. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at nicolina.j.guiliano@jci.com

Golf Tournament



ASHRAE Golden Gate Chapter 2004 Golf Tournament



Friday, June 11, 2004 • 12:30 pm Shotgun Start

Boundary Oaks Golf Course

www.boundaryoak.com
3800 Valley Vista Road, Walnut Creek, California 94598

Registration opens at 11:00 a.m.

- Awards Dinner • Scramble Tournament • Prize Raffle
- Two "Longest Drive" Contests • Two "Closest to the Pin" Contests

Pricing:

(all packages include dinner and golf goodies):

Gold Sponsor.....	\$1,850
<i>(4 foursomes, 2 tee sponsorships)</i>	
Silver Sponsor.....	\$1,450
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$1,000
<i>(2 foursomes)</i>	
Basic Team.....	\$ 520
<i>(1 foursome)</i>	
Single Player.....	\$ 135

Contest Sponsors, Tee Sponsors, and Prize Donations are graciously requested

All proceeds benefit ASHRAE Research

For more information, or to sign up your team, please contact
Kirk Peterson via e-mail: kirk.peterson@york.com

From the Chapter Historian

By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

Richard Friedman – GGASHRAE Biography

Now here is a real contributor to our Chapter! Dick, now retired for some time, joined ASHVE in 1953. He is now a Life member and Fellow in ASHRAE.

Dick's education includes a BME degree from New York University, an institution where he also taught for several years. After working for various contractors and consulting engineers for several years, he started and continued Engineered Air Systems, where he was the President from 1958 until his retirement in 1986. His early partners were ASHRAE members Al Scavino and Ed Beeching. His son Glenn later took over the business and when it was sold, became a Principal at Taylor Engineering.

Dick, a P.E., was the Chapter President in 1969-1970. I was on the Board at the time and witnessed a very busy year. During his year, our Chapter became incorporated on February 9, 1970. We hosted the Society Winter meeting in January 1970. The Chapter's relationship with the Engineering Societies Committee for Manpower Training (ESCMT) began with Dick's appointment of Mike Scofield as the delegate to ESCMT. (See Karl Guttman's biography for an explanation of ESCMT) The Chapter donated a speaker's stand (podium) to the Engineer's Club in San Francisco, where we held our chapter meetings, in honor of recently deceased past President Joe Murray.

Dick was a member of ASRE, NSPE and SMACNA. He was one of the authors of a major revision to SMACNA's Low Pressure Duct Construction Standards (5th Edition, 1976).

One of his major contributions was to education, in his roles as Chapter President and Education Committee Chair. He was instrumental in establishing our Cal Poly workshop program. This was a program, financed by our members and our Chapter, which allowed Cal Poly engineering faculty to pay selected students to work on engineering department (especially HVAC) projects. The agreement with Cal Poly was signed by our president Gus Gendler on June 15, 1965. It was approved by the Society on July 13, 1965.

Dick taught UC Extension classes with Bob Braun and was involved with the UC Berkeley Student Chapter, the mechanical engineering advisory committee at City College of San Francisco, and the Richmond School District as a career counselor.

He chaired the Berkeley City Code Review Committee, was a volunteer probation officer for Alameda County and was a Cub Master.

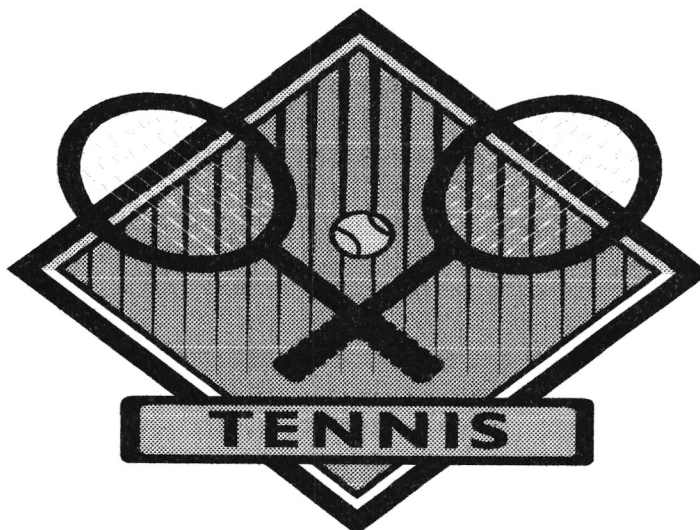
Shortly before his 1986 retirement, he was playing tennis with son Glenn when he suffered a heart attack. Fortunately, Glenn was able to successfully apply CPR. After bypass surgery, Dick has recovered and still plays tennis.

Dick will receive the Society's "50 year Distinguished Service Award" in June 2004 at the Society's Annual meeting in Nashville, TN.

The Golden Gate Chapter thanks you Dick Friedman for your many contributions to ASHRAE and our industry.

(Information by the author's memory, January 2004 interviews with Richard and Glenn Friedman, and his official ASHRAE biography, 2003.)

**ASHRAE GOLDEN GATE CHAPTER
2004 MEMORIAL TENNIS TOURNAMENT**



- WHERE:** **San Francisco Tennis Club**
www.sftennis.com
645 Fifth Street @ Brannan
(415) 777-9000
Indoor Courts w/ locker rooms & garage parking
- WHEN:** **Friday, June 18th [1-4 PM]**
- WHY:** Proceeds benefit the Eric Andresen Engineering Scholarship Fund
Plus the chance to: have fun, exercise, network, and
take a break from work
- FORMAT:** Round Robin Rotating Doubles
Awards for Individual Score Champions
- COST:** **\$65/player** - includes: court fees, balls, refreshments, & awards

To sign-up or for additional information,
contact the Tournament Coordinator – Jason Daters @ 510-723-7728 or
Jason.daters@siemens.com

Employment Opportunities

Two new positions @ Keen Engineering

North America's leading sustainable engineering firm - Keen Engineering is a professional consulting engineering firm with 12 North American offices and over 125 LEED™ accredited professionals.

Our San Francisco office is expanding and we are looking for team players to fill two new positions.

1) Potential Associate/Principal

Candidates should have experience in team leadership, project management and sustainable design. This position will include extensive business development and office management duties in addition to technical abilities in mechanical engineering. You will be working in a fast-paced environment with a team of design professionals who are dedicated to green engineering. Your assets should include leadership and management skills, proven business development abilities, strong communication skills, PE status, technical strengths in comprehensive building systems, ability to provide excellent client service and a commitment to sustainable design. This position requires someone who enjoys accepting responsibility, thrives in a fast-paced, client-driven environment, is self-starting and can hit the ground running.

2) Intermediate design engineer

Candidates should have all the necessary computer skills and design experience to participate fully in comprehensive mechanical building system design - HVAC, plumbing and fire protection. PE status is an asset. The team you will be working with is fast-paced and deals with multiple clients, and your 3+ years of experience will be an asset to this group. Keen is a leader in the field of sustainable design and it is important that all team members embrace the philosophy of sustainable design; we are a green team. You accept responsibility, are reliable, work well in a team environment, have strong communication skills and make positive constructive contributions to anyone who needs your assistance.

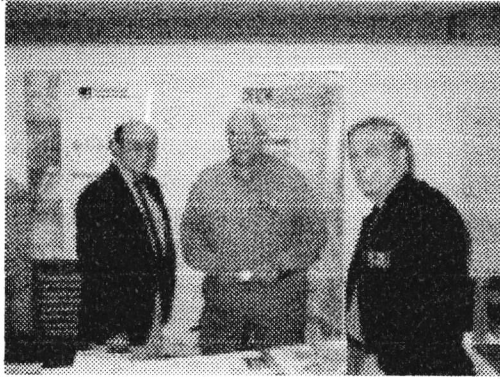
Interested individuals should send cover letter and resume to cheryl.crawford@keeneng.com.
Web address Keeneng.com

Senior Energy Engineer, Energy Services, Siemens

Siemens seeks an engineer experienced in the development and implementation of energy efficiency and facility improvement measures in commercial, industrial and institutional facilities for the Northern California District.

Position will lead the development of energy services projects. You will employ knowledge of facility systems and upgrade opportunities to identify and quantify cost-effective Facility Improvement Measures (FIMS), involving mechanical and electrical systems (HVAC, lighting, BAS, etc.). Ability to interface with customers in the development of energy efficiency retrofit solutions is paramount.

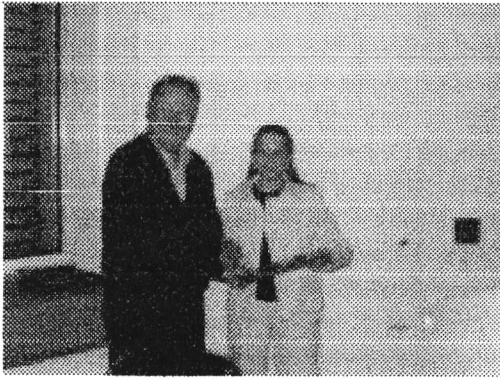
Learn more about this position and apply online at www.siemenscareers.com and search for requisition # 12807. Siemens is an Equal Opportunity Employer encouraging diversity in the workplace.



Left: Charlie Nadig, Wayne Womer & Jeff Blaevoet)



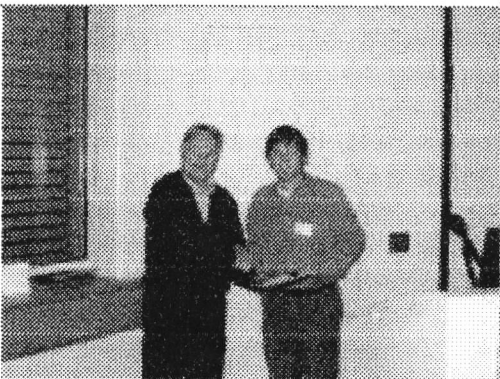
Right: Nicolina Guiliano, Edgar Deguzman, & Amy Cervantes



Left: Gary Harbison presents \$100 award to Science Fair Winner Elise Ongaro 7th Grade



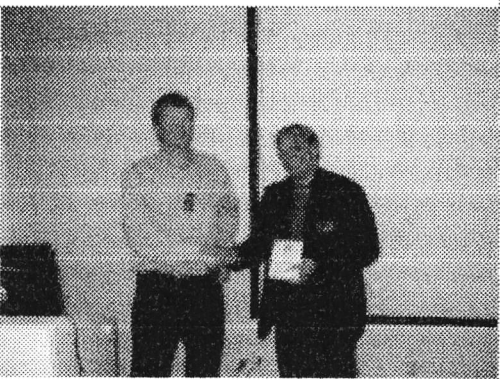
Right: Gary Harbison presents \$100 award to Science Fair Winner Morgan Flannery 8th Grade),



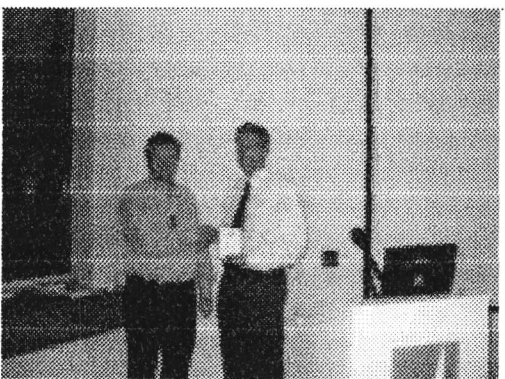
Left: Gary Harbison presents the \$1500 Donald G. Bryant Memorial Scholarship to Ronald Dean from UC Berkeley



Right: Gary Harbison presents the \$1500 Eric Thor Andresen Memorial Scholarship to Rob Beaman from Stanford



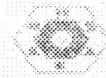
Left: Scott Wayland presents the Category I Commercial Buildings- New - Technology Award to Jeff Blaevoet



Right: Scott Wayland presents the Category II Institutional Buildings- Existing - Technology Award to Mark Redmond.

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 9

JUNE 2004

June Meeting Notice

SPOUSE / SIGNIFICANT-OTHER NIGHT AND PAST PRESIDENTS' NIGHT

Date: Thursday, June 3, 2004
Place: Scott's Seafood Restaurant [MAP](#)
Jack London Square
#2 Broadway
Oakland, CA 94607

Schedule:

5:30PM to 6:30PM - Registration & Social
6:30PM to 7:30PM - Dinner with Announcements
and Introductions
7:30PM to 7:45PM Break
7:45PM to 8:30PM Speaker
8:45PM Meeting Adjournment after Marble Draw

Cost: \$35 for members and guests

Reserve by Tuesday, June 1st at noon

Students - No charge, but please reserve a spot
Voucher - No charge, but please reserve a spot.
\$42 for non-members, late reservations and at the
door

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

Please reserve on-line by visiting
<http://www.ggashrae.org/calendr.htm>, click on June 3,
fill out the form and send. Or use the fax form in the Fog
Dispenser.

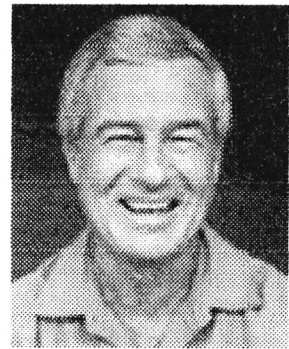
Remember - If you make a reservation and cannot attend,
you need to cancel in advance, or you will be billed.

June Program

Comedian James "Jim" Giovanni

The Golden Gate ASHRAE Chapter year for 2003-2004 comes to a close with the final June 3rd meeting. This is our annual night to note the changing of the roles of Chapter Officers and to recognize our hard working Committee Chairpersons for their efforts during the year and to honor those Past Presidents of our Chapter in attendance. We also invite you to bring your Spouses and significant-others to this night of non-technical entertainment.

Please join us for this special evening and the comedy performance of Jim Giovanni. Jim is a veteran entertainer from his days on "Laugh-in" to his stand-up performances on many comedy stages in Las Vegas, San Francisco, Reno, Los Angeles and Lake Tahoe. "An unusually clever, resourceful and creative entertainer, Giovanni is regarded with respect, if not awe" noted the San Francisco Chronicle. Jim's versatile performance of a full musical repertoire with multiple impressions of comedians, presidents and actors will put a smile on your face as you enjoy his heart-warming show. Additional biography on following page.



Jim Giovanni

Golden Gate Chapter President's Message, June 2004

THANKS FOR A GOOD YEAR

The Golden Gate Chapter was recently honored at the Region X CRC (Chapters Regional Conference). We won the Francis G. Brown Memorial Award for Publishing Excellence. This is an award given for the publication of an outstanding chapter newsletter in Region X. Jon Wintermeyer, the Fog Dispenser editor, is the person that deserves the most credit for this award. Scott Wayland won the Award as Best TEGA Chair in Region X, and Carl Jordan received the Gold Ribbon for History Award. Please join me in congratulating these three gentlemen.

This is the end of my term as Chapter President. It truly has been an honor to serve. The Golden Gate Chapter is the 9th largest chapter out of the 150+ North American ASHRAE chapters. Being President is a lot of work, but I could not have done it without a great team to support me. I would like to recognize and thank the following people that helped make this a great year for the Golden Gate Chapter: Board Members Jon Wintermeyer, Cory Palmer, Glenn Friedman, Debbie Marshall, Robert Marcial, and Edgar DeGuzman; and Committee Chairs Scott Wayland, Carl Jordan, Jon Malkovich, Johanna Gustafsson, Gary Harbison, Nicolina Guiliano, Elizabeth Dubensky, Ben Sun, Joe Olivier, Don Nurisso, Matt Chikhale, Eric Levy, Kirk Peterson, Jason Daters, and Therese Peffer.

I also would like to thank the members of the Chapter who have attended our meetings and read the Fog Dispenser. Please stay involved with ASHRAE – it is a grass roots organization that depends on its members to further the arts and sciences of HVAC&R. and related human factors. The future of our industry depends on our continued participation in ASHRAE.

Our June meeting is Spouse Night and Past President's Night at Scott's Seafood at Jack London Square in Oakland. So please bring a significant other and enjoy the comedian – not me, but a real one. Our new Chapter Board will also be installed. Hope to see you there.

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

Comedian Jim Giovanni

Jim has appeared on TV, movies "Tucker" and "The Best of Times". He has performed for numerous Corporate Bay Area events for Pacific Bell, Hewlett-Packard, California Medical Association and National Semi-Conductor to name a few. Jim has performed live with Frank Sinatra, Robin Williams, Wayne Newton, Kenny Rogers, Neil Sedaka, and Ray Charles and many more. During his show he will accompany himself on the guitar, accordion, trumpet and harmonica. He is a noted impressionist with dozens of character personalities from actors like Peter Falk as "Columbo", to Marlon Brando as the "Godfather", comedians like Bill Cosby to Rodney Dangerfield, to past and current Presidents of the United States like Bill Clinton and George Bush. He lives locally in Pacifica.

Syserco Inc.

We are in our 20th year of providing state-of-the-art Direct Digital Control (DDC) systems for HVAC equipment. Syserco is the exclusive representative of Alerton controls in the Greater San Francisco Bay, Monterey Bay, and North Coast areas with full service offices in Fremont and Rohnert Park.

Fremont Office

44244 Fremont Blvd.
Fremont, Ca 94538
Phone: (510) 498-1171
Fax: (510) 498-1181

Rohnert Park Office

572-A Martin Ave.
Rohnert Park, Ca 94928
Phone: (707) 588-7400
Fax: (707) 588-7480

Our Team:

Erik C. Ahrens - President
Bernie Martinez - Vice President
Robin James - Vice President, Sales and Service

Fremont Sales Engineers:

Jack Day - jday@syserco.com
Robin James - rjames@syserco.com

Rohnert Park Sales Engineer:

Phil Herve - pherve@syserco.com

Syserco is the industry leader in native BACnet installations.

Syserco and Alerton proudly support ASHRAE Research.



www.syserco.com

www.alerton.com

2004 Golden Gate ASHRAE Events

DATE	LOCATION	PROGRAM	SPEAKER
June 11	Boundary Oaks Golf Course, Walnut Creek	Annual Golden Gate Chapter Golf Tournament Outing	Kirk Peterson, Chairperson
June 18	San Francisco Tennis Club 645 5 th St @ Brannan	2004 Memorial Tennis Tournament for Eric Thor Andresen Scholarship Fund	Jason Daters Chairperson
June 26-30	Nashville, TN	ASHRAE Annual Meeting, contact : www.ashrae.org for programs	Seminars and Technical Sessions
October 7	To Be Announced	First Meeting of the 2004-2005 Season	Stay Tuned

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

2004 Region X Technology Awards

Every year ASHRAE conducts the Technology Awards program to:

- Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
- Communicate innovative systems designs to other ASHRAE members;
- Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

The following results and awards from the Region X competition were announced at the CRC in Sacramento at the meeting's Awards Dinner on Friday, May 7th.

AWARD RECIPIENTS

Category I - Commercial Buildings - New

1st Place – Big Rock Ranch Facility, Jeffrey Blaevoet, Guttman & Blaevoet Consulting Engineers

Category II - Institutional Buildings - Existing

1st Place – UCSF Health Science East Improvements Phase I, Mark Redmond,
Ted Jacob Engineering Group, Inc.

Category II - Institutional Buildings - New

1st Place – William Race Health Sciences Building, Santa Rosa Junior College, Tony Costa,
Costa Engineers, Inc.

Category III – Health Care Facilities - Existing

1st Place – Hoag Memorial Hospital East Addition / Women's Pavilion, Tsuchiyama Kaino Sun & Carter
Consulting Engineers

Category III – Health Care Facilities - New

1st Place – Kaiser Medical Office Building, Jeffrey Blaevoet, Guttman & Blaevoet Consulting Engineers

Category IV – Industrial Facilities or Processes - Existing

1st Place – Yolo County Jail Cogeneration, 340 KW Cogeneration System, Aircon Energy, Inc.

Category V – Public Assembly - Existing

1st Place – San Luis Obispo Admin. Bldg. Energy Conservation Cogeneration System, Aircon Energy, Inc.

Congratulations to all who participated. These first place winners are eligible to submit their projects to the Society Competition later this year!!!

Join the TEGA Committee

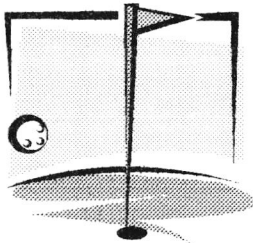
If you like to assist the chapter and get involved with ASHRAE, the TEGA committee would like your help. Please contact Scott Wayland at sewayland@comcast.net

Have a great summer!!!

Marble Draw

Thank you to Advanced Cooling Tower Tech, Air Systems Inc., Air Treatment Corp, California Hydronics Corp, E. B. Ward & Co., Kema-Xenergy, Liebert Corp, March Equipment Co., Norman S. Wright Co., PG&E, Siemens Building Technologies, Syserco, R. F. MacDonald Co., and York International for sponsoring the Marble Draw prizes at the April meeting. The special marble was not picked, so the Marble Draw pot rolls over to the June meeting as no drawing is held at the Field trip in May. The Pot is now worth well over \$1,200 for June's drawing. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at nicolina.j.guiliano@jci.com

Golf Tournament

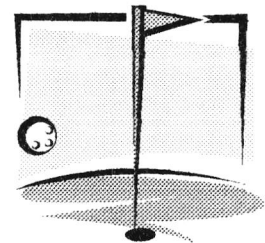


ASHRAE Golden Gate Chapter 2004 Golf Tournament

Friday, June 11, 2004 • 12:30 pm Shotgun Start

Boundary Oaks Golf Course

www.boundaryoak.com
3800 Valley Vista Road, Walnut Creek, California 94598



Registration is FULL but we still need sponsors!!

Please consider helping ASHRAE by becoming a sponsor:

Pricing:

Contest Sponsor.....	\$200
(2) closest to pin contest, (2) longest drive contest, putting contest	
Tee Sponsor.....	\$100
(Your name and company logo at a Tee Box)	

We are also accepting prizes for the Golf Tournament raffle!

All proceeds benefit ASHRAE Research

For more information please contact
Kirk Peterson via e-mail: kirk.peterson@york.com

From the Chapter Historian

Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

Gene Valerio – GGASHRAE Biography

As I write this, I just got off of the phone with Gene. I told him that I couldn't write this without hearing his infectious laugh and it was easy for him to oblige me. I met Gene in the 1960's and enjoyed regular contacts with him until he moved (darn it!) to Coos Bay in 1992.

Gene joined ASHRAE in 1957 and was our Chapter President in 1977-1978. He is also a Life member.

In 1945, before finishing high school, Gene joined the Navy and crewed on an LST in the San Francisco Bay and from S.F. up to Portland. Then while selling unit ventilators for American Air Filter, he completed his BSME at Villanova University in 1950. Then after a stint in the Army, in Ordnance Engineering, he resumed his HVAC career. He worked for Carrier and then for E. B. Ward before becoming a principal at Air-Filter Control. During his career, he also got an MBA at Syracuse University.

Gene retired from Air-Filter Control in 1992 and moved to Coos Bay, where he consults as Technical Marketing Services.

He served on two Chapter committees and twenty Society committees including Handbook, Special Publications and Nominating. For his dedicated service, Gene received the Regional Award of Merit in 1983 and the Society's Distinguished Service Award in 1993. He has published two HVAC articles.

Although Gene has a serious side, his jovial side is most memorable to me. When he had the floor at ASHRAE meetings and wanted to switch from lighthearted remarks to something more weighty, he would usually interject, with a big grin on his face, "... Seriously now....".

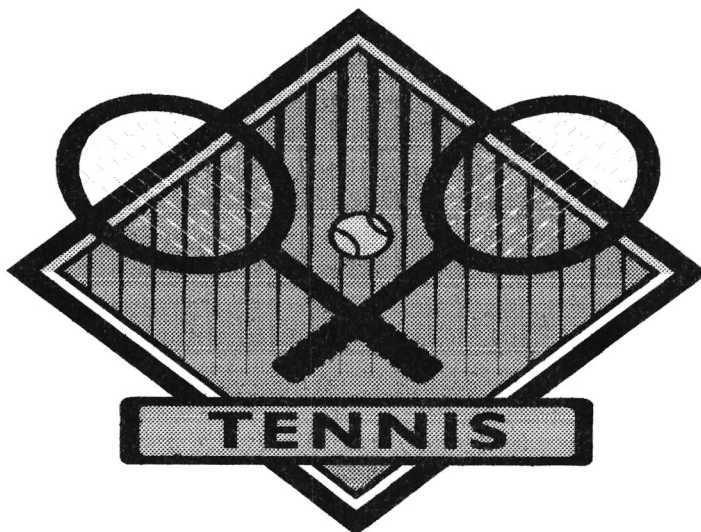
At ASHRAE social events, one could sometimes hear Gene at the piano playing classical music. In Coos Bay he still takes piano lessons and plays in small groups and in a big band. He volunteers at the museum and supervises an AARP tax preparer's volunteer group.

As you can see, Gene continues to be a contributor to Society. Thanks, Gene.

The Golden Gate Chapter thanks you Gene Valerio for your remarkable contributions to ASHRAE and our industry.

(Information by the author's memory, an 11/17/03 phone interview with Gene and the official ASHRAE biography, 2003.)

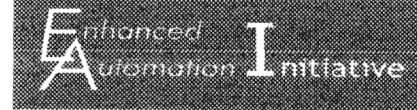
**ASHRAE GOLDEN GATE CHAPTER
2004 MEMORIAL TENNIS TOURNAMENT**



- WHERE:** **San Francisco Tennis Club**
www.sftennis.com
645 Fifth Street @ Brannan
(415) 777-9000
Indoor Courts w/ locker rooms & garage parking
- WHEN:** **Friday, June 18th [1-4 PM]**
- WHY:** Proceeds benefit the Eric Andresen Engineering Scholarship Fund
Plus the chance to: have fun, exercise, network, and
take a break from work
- FORMAT:** Round Robin Rotating Doubles
Awards for Individual Score Champions
- COST:** **\$65/player** - includes: court fees, balls, refreshments, & awards

To sign-up or for additional information,
contact the Tournament Coordinator – Jason Daters @ 510-723-7728 or Jason.daters@siemens.com

Cash Incentives for Building Automation Upgrades!



The California Public Utilities Commission is offering incentives for PG&E and SCE customers to install energy-saving building automation upgrades through the Enhanced Automation Initiative (EAI).

If you're a Facility Manager of a large facility, call us to request a free assessment of energy-saving opportunities available through EAI.

If you sell controls upgrades, use EAI to increase your business. Contact us for an on-site visit with your interested customer. You may also be eligible for a \$500 stipend for a project proposal that meets EAI guidelines.

EAI pays cash incentives for software and hardware upgrades to existing control systems. Projects must result in energy savings to lighting, HVAC, or other systems. Energy information systems may also qualify.

Incentives are available for large commercial or industrial facilities (100,000 sf or >500kW). Direct Access customers who pay into the public goods fund are also eligible.

Funding is limited. Call soon!

(800) 305-0105

info@eainitiative.com www.eainitiative.com

Employment Opportunities

Mechanical Engineer- Building Systems Opportunity at Arup

Arup is a leading international design engineering firm with over 6,000 employees worldwide in 70+ offices. We currently have a position for a Mechanical Engineer in our San Francisco office (position SF011) to work in a multidisciplinary team engaged in the design of a variety of building projects. This individual will work on designs across a range of commercial, health care and the laboratory projects. As a member of our team, you will be responsible for managing the mechanical design of small to medium size projects and/or forming part of a larger team of large projects led by a senior member of staff. 2-6 years of experience in a design consultancy or with a contractor is required. Good technical and people skills are essential, together with an interest in sustainability. AutoCAD experience, HVAC design experience and a PE license is preferred. For further information about our firm, please visit our website at <http://www.arup.com>. Arup is an Equal Opportunity Employer.

Contact Information:

To apply, please email resume to usa.recruitment@arup.com and reference Mechanical Engineer (SF011). No faxes or hard copy resumes, please.

Debbie Fine 901 Market Street, Suite 260 San Francisco, CA 94103 tel: 415-946-0281

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For Thursday, June 3rd

Please reserve prior to **Tuesday at noon, June 1st.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on June 3, fill out the form and send. Or FAX the following form to Debbie Marshall (510) 639-3337.

Members with vouchers – you too – must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by June 1st.

FROM: _____
COMPANY: _____ Phone: _____
Please make _____ reservation(s) for the following people (fill in names below):
Please make your choice of meals for the evening: Choose one per person: Chicken Mendocino, Salmon Florentine, or Vegetarian
_____ Meal Choice _____
_____ Meal Choice _____
_____ Meal Choice _____

Pay for meetings using your credit card

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

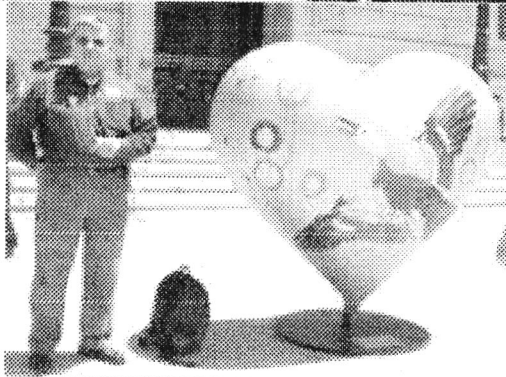
- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid using PayPal. If you have any questions about this process, please contact Robert Marcial at rmarcial@uclink4.berkeley.edu.

NOTE: At the meeting, we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. All credit card payments **MUST** go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.



*Right and Left:
Members enjoying
lunch at the
Culinary
Academy*



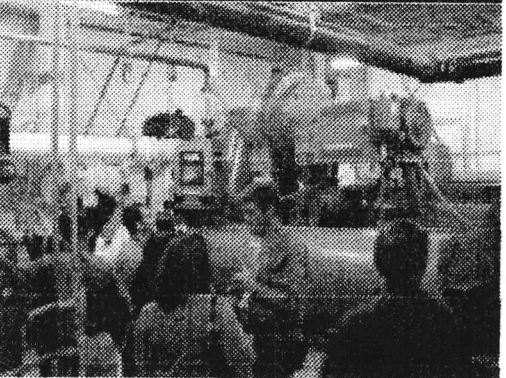
*Left: Culinary
Academy Buffet*

*Right: Two pieces
of Asian Art in
front of the
Museum*



*Left: Lobby of
the Asian Art
Museum*

*Right: Members
waiting for the
tour*



*Left: Penthouse
chiller room*

*Right: Bob Levi's
farewell in front
of the Asian Art
Museum*

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 1

OCT 2004

October Meeting Notice

Date: Thursday, October 7, 2004

Place: Snbad's Restaurant
Pier 2, The Embarcadero, San Francisco
Free on-site valet parking

Schedule:

5:30 PM to 6:30 PM - Social hour
6:30 PM to 7:45 PM - Dinner with
Announcements and Introductions
8:00 PM to 9:00 PM Speaker's
Presentation

Cost: \$35 for members and guests reserved by
Monday, October 4 at noon

Students No charge, but please reserve
a spot

Voucher No charge, but please reserve
a spot. Purchase 8 meetings and get 9 -
\$280.00.

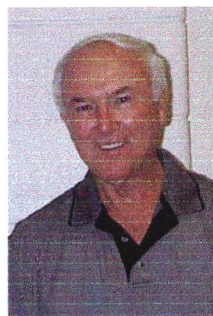
\$42 for non-members, late reservations
and at the door

Please make your reservation via our website.
Visit the Event Calendar at
<http://www.ggashrae.org/calendr.htm>, click on
Oct. 7, and fill out and submit the form. Or fax
the form on page 4 to Robert Marcial at (415)
972-5177.

Be sure to make a menu selection when you
make your reservation

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

October Program



Air Conditioning Techniques Using Heat Recovery and Indirect Evaporative Cooling

Nicholas H. Des Champs,
PhD, P.E., ASHRAE Fellow

With higher energy rates and peak demand charges there is renewed interest in using air-to-air heat exchangers for the purpose of recovering energy from building exhaust air. The theory of operation of heat pipes, plate heat exchangers, and rotary wheel heat exchangers is discussed together with possible applications of these devices for western climates.

Combining Indirect Evaporative Cooling (IEC) with energy recovery, using the air-to-air heat exchangers, is presented. IEC reduces the temperature of an air stream without adding moisture, so that in arid climates the process is similar to that produced by mechanical refrigeration equipment. By combining IEC with the standard Direct Evaporative Cooler (DEC) it is possible, in many areas of the West, to lower temperature from over 100°F to 60°F or lower without any mechanical assistance.

The theory of IEC will be presented. Several proven design concepts and their resultant field performance using both energy recovery and IEC will be reviewed. The performance discussion will include maintenance issues as well as thermodynamic and economic performance. Finally, some new ideas using energy recovery and indirect evaporative cooling will be presented.

Golden Gate Chapter President's Message, October 2004

Greetings

To the membership of the Golden Gate Chapter of ASHRAE, greetings from your incoming President. When you attend meetings this year and you have a slight problem understanding my dialogue, you need only to obtain a copy of the 1960's version of the Bostonese-English dictionary and start reading at the beginning. My fellow members of the Board can almost understand what I'm saying most of the time, but they have told me on occasion I have an accent. It seems like it was only a few August's ago, that I left the Green Mountain state of Vermont and the Green Monster left field wall of Fenway Park and arrived with my family to the un-watered grass and pollen filled hills of the East Bay and settled into Walnut Creek, California. But I knew I was not going to lift a snow shovel ever again, and I had a better chance of getting good tickets to watch the Red Sox play the A's, only to find out I was allergic to walnut trees and wild hill grasses in the summer of 1990.

I am most fortunate to find myself serving as President on a volunteer Board of people that all have a common desire to work hard together as a TEAM and that everyone wants the goal of continued success for the Golden Gate Chapter. Past President Bob Levi, President-Elect Cory Palmer, Secretary Glenn Friedman, Treasurer Debbie Marshall, second year Board member Robert Marcial (our Website Guru) and welcome to first year member Jeff Blævoet. I have watched this core group function, in addition to past members I have served with, work through some real adversity over the past few years, but never once ask to bail out of their Chapter responsibilities and by all sharing the load and adjusting schedules we've managed to make that time rewarding and well spent as we fulfilled our Chapter goals.

My involvement in ASHRAE started back in the late 60's in Boston, in their chapter, then moved in the 80's to the Champlain Valley chapter in Burlington, VT and then continued with my arrival to the Golden Gate chapter in the fall of 1990. I arrived at that first chapter meeting with my new boss Tom Reinarts, and the current Chapter President that year, as I had just started to work at Keller & Gannon. I have been a member of ASHRAE for over 40 years, and it has been a very fulfilling and rewarding involvement for me both in friendships made and experience learned in the HVAC profession. I have served on numerous Committees and in many positions from East Coast to West and have also met many International members in foreign countries where I have worked. There have been many HVAC Professionals in ASHRAE that have mentored me over the years and I in turn have worked to help mentor others in the profession.

However, I have a concern though, because I have not heard about nor do I see the Mentoring Involvement in the Golden Gate Chapter that is needed to maintain the future growth of HVAC knowledge in this field. Too many of our new members and college graduates from student chapters are not finding the mentors they need to help them. If you have chosen the HVAC field as your profession, it does not matter which path you are following: consulting, design, sales, construction, research or development. Are you mentoring others that have also chosen the HVAC field and wish to follow a similar path or try and create a new design or installation to a better and more efficient HVAC system operation. Whatever topic or issue had sparked your interest in ASHRAE and HVAC when it happened might be ready to ignite somebody new today, and you need to make sure the flame is allowed to increase in a mentored atmosphere. The Bay Area Science Fair involvement that the Chapter performs helps to mentor middle and high school students to understand the big picture of how their desk top science projects work in today's world in a larger scale and allows them to meet college students and members of our chapter to reinforce their studies of math and science and the need for higher education.

Become involved in your chosen profession and bring your fellow workers along to gain from ASHRAE membership and involvement. Owners of Firms should encourage their existing staff and new hires, wanting them to be part of the new HVAC solutions that are created or decision makers in creating industry standards. HVAC Department Managers and Sales Professionals should come to Chapter meetings bringing their staff and introducing them around to their peers. Why not become a mentor to your local high schools for Career days or consider spending some time getting involved with a student chapter at a local college.

Golden Gate Chapter President's Message, continued

Have you taken the time to read the biographies of some of our Chapters founding and influential members as reported in the FOG by Carl Jordan, our Chapter Historian. His articles over the past two years take you back to the founding organizations that have blended together to become the ASHRAE Chapter that we are today.

Our TEGA Chairperson Scott Wayland has sparked interest in our Chapter's Design Professionals and their technical design submittals have earned numerous Awards at the Chapter level, in our Region X level and even Society level to participating San Francisco area firms. Go to the Chapter Website and read past issues of the FOG to note who the successful firms have been. Our Chapter has members serving on research and technical committees for ASHRAE, that make the decisions for industry standards and code revisions. The Golden Gate Chapter has a history of people that have become to be known leaders and problem solvers in the HVAC Industry. While some of our members make the choice every year not to be active participants or mentors, and do not invest the time to improve our industry and make it stronger and more informed. You all must realize that the HVAC industry is responsible in part every day for the safety and welfare of people's lives and you can make a positive impact on it by becoming an active involved member. Let's all make a serious effort this year and in the future to mentor others and continue our own desire to learn. Make your reservation to attend some Chapter meetings and bring a friend or new hire with you.

Respectfully submitted,
Jon L. Wintermeyer, Chapter President

Nicholas Des Champs Biography

Dr. Nicholas H. Des Champs is President, CEO, Chairman of the Board, and founder of Des Champs Technologies with offices in Natural Bridge Station, Virginia. Des Champs Technologies, founded in 1973, is involved in the design, engineering, and manufacture of industrial, commercial, and residential energy saving systems and air-to-air energy exchangers. In addition, the company manufactures electronic and electrical coolers as well as air conditioning and specialty dehumidification equipment. The company also has a continuing program of research and development that has enabled it to hold leadership positions in most of its product categories.

Dr. Des Champs has a Ph.D. in mechanical engineering from Virginia Polytechnic Institute, is a registered professional engineer in Virginia, a Fellow of ASHRAE, a member of the American Society of Mechanical Engineers, and serves on various advisory boards for the College of Engineering at Virginia Tech and Virginia Military Institute. Dr. Des Champs was also selected from over 35,000 living graduate engineers of Virginia Tech to serve on the distinguished Committee of 100, a life long honor, bestowed by the College of Engineering.

His past professional experiences include work with the NASA space program and development of nuclear power supplies for artificial hearts and pacemakers, in addition to thermodynamic cooling techniques for military aircraft and electronic equipment.

He has also been a significant contributor to numerous publications and conferences including the ASHRAE Handbook and the SMACNA publication on Energy Recovery Equipment and Systems. He holds 16 patents including 9 patents on rotary and plate-type air-to-air heat exchangers. In 1997, the National Entrepreneur Council named Dr. Des Champs Master Entrepreneur of the Year.



NORMAN S. WRIGHT MECHANICAL EQUIPMENT CORPORATION
oakland ♦ san francisco ♦ santa clara ♦ santa rosa

Norman S. Wright Corporation Proudly Supports ASHRAE Research.

ASHRAE Society Awards

ASHRAE Society Awards made to Golden Gate ASHRAE Chapter Members during the Summer of 2004:

50 Year Member Certificate

Dick Friedman
A.R. Wolford Jr.

New Life Member Certificate

Arlen W. Allinger
Nicholas F. Dann
Kenneth C. Hill
Bill Ng
Stephen M Sprague
Valentino A. Tatasciore

The Golden Gate Chapter Board wishes to congratulate these chapter members and invite these distinguished members to the October 7th meeting for dinner and to accept their certificates.

Congratulations also to Dick Friedman, Steve Taylor, and Craig Wray, and Hui Zhang for their awards at the June ASHRAE summer meeting in Nashville.

Dick Friedman, P.E., received a Distinguished 50 Year Member Award for his past leadership and other services to the Society; he has held all positions in the Golden Gate Chapter.

Steve Taylor, P.E., principal of Taylor Engineering, and Craig Wray, P.E., Lawrence Berkeley National Laboratory, both received Distinguished Service Awards, an award given to honor those who have given freely of their time and talent on behalf of the Society.

Hui Zhang, PhD., a research specialist at UC Berkeley, was awarded the Ralph G. Nevins Physiology and Human Environment Award for her work on an advanced thermal comfort model. This award is given annually to a researcher under the age of 40 for significant accomplishment in the study of bioenvironmental engineering and its effect on human comfort and health.

2003/2004 ASHRAE Resource Promotion Annual Report – Golden Gate Chapter

Congratulations and thank you to the individuals and firms who helped the Golden Gate Chapter collect \$16,477 in 2003-2004. We only met 78.3% of our goal, so we're looking for even more support during this year's campaign!

Investors of \$4,000

Golden Gate Chapter, ASHRAE

Investors of \$1,000

York International

Mr. Thomas A. Gilbertson

Norman S. Wright Mechanical Equipment

Investors of \$500+

Flack & Kurtz

Gayner Engineers

Belimo Air Controls

Mr. Wayne H. Womer

Air Treatment Corporation

Investors of \$250+

Syserco

Joe Critchfield

Edward Arens

Laws and Associates

Flow Products Incorporated Johnston Pump

Investors of \$150+

John Kniveton

Richard Charles

Robert DeChene

Deborah Marshall

RF MacDonald Company

MHC Engineers Incorporated

Jack Palmer
Robert Levy
Gerald Yaffe

Investors of \$100+

Mark Hydeman

Glenn Friedman

Dick Friedman

James Nemechek

Jon Malkovich

Edgar DeGuzman

George Hoover

Mike Scofield

Wasil Popov
Robert Sonderegger
Kevin Dowling
Thomas Reinarts
Dennis Thompson
Shlomo Rosenfeld
Saric Engineering Enterprise
Jon Wintermeyer

Richard Charles
Steve Taylor
Allan Daly
Cory Palmer
Carl Jordan
Kyle Blocker
Robert Voelz
Robert Marcial

Investors of \$1+

Fred Bauman

Wayne Kimmel

Robert Davis

Richard Yates

Peter Schwartz
Richard Gee
Max Sherman
Gustav Fehlhaber

James Lutz
Michael Trimble
Fernando Palacios
John Gajan

To donate to the 2004-2005 campaign please contact:

Johanna Gustafsson

(925) 417-7218 phone

johanna@york.com e-mail

Chapter Technology Transfer Committee (CTTC)

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair
(Formerly the Technical, Energy and Government Affairs (TEGA) Committee)

Effective July 2004 the ASHRAE Board of Directors merged the functions of the TEGA and Chapter Programs Committees to form one committee - the Chapter Technology Transfer Committee (CTTC). CTTC is a General Standing Committee of the Society and operates under the direction of the Board of Directors and Members Council. At the chapter level CTTC is a mandatory standing committee.

This committee responsibility is to provide efficient and effective transfer of current and relevant information throughout the HVAC&R industry to and from the chapters. The committee shall develop and maintain high quality and readily available tools to enable chapters to offer informative and attractive industry-related information and programs to all target segments within the HVAC&R industry.

See the following website for more information:

<http://www.ashrae.org/template/AssetDetail/assetid/25424>

Golden Gate is working out the details on how to incorporate this change into our chapter.

Technology Awards

Every year ASHRAE conducts the Technology Awards program to:

- Recognize ASHRAE members who design and/ or conceive innovative technological concepts that are proven through actual operating data;
- Communicate innovative systems designs to other ASHRAE members;
- Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

We are awaiting the results from the 2004 Society competition currently in the hands of the judging panel. There are three entries from our members: Jeff Blævoet, Mark Redmond and Tony Costa. More to come! □

The 2005 Chapter Awards will be due in February.

Join the TEGA / CTTC Committee

If you like to assist the chapter and get involved with ASHRAE, the TEGA / CTTC committee would like your help. Please contact Scott Wayland at sewayland@comcast.net

Marble Draw

Wayne Womer won the Marble Draw in June for \$1,200 and he gave \$600 to Resource Promotion. Thanks and congratulations to Wayne!

If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at nicolinaj.guiliano@jci.com

Minutes of June 3, 2004 Chapter Meeting

Location – Scott's Seafood Restaurant, Jack London Square, Oakland

- Meeting called to order at 6:30 p.m. by Bob Levi. Welcome to the final meeting of the 2003-2004 season of the Golden Gate Chapter.
- Self introductions. Past Presidents identified which year they were the chapter president.
- The meeting minutes from the April 1st meeting were approved unanimously.
- Bob Levi announced and congratulated the Region X award winners following this year's CRC.
- Scott Wayland won Best Chapter TEGA Chair for Region X in 2003-2004.
- The Golden Gate Chapter won Best Newsletter for Region X in 2003-2004. Credit for this award goes to Jon Wintermeyer, Therese Peffer, and Jane Lin.
- Carl Jordan won a gold ribbon award for his work on our Chapter's History.
- Scott Wayland announced and congratulated the Region X Technology Award winners. These are all first-place winners, who now advance to the Society level.
- Mark Redmond, Ted Jacob Engineering Group: Institutional Buildings (Existing). The project is UCSF.
- Jeff Blaevoet, Guttman & Blaevoet Consulting Engineers: Health Care Facilities (New). The project is Kaiser MOB.
- Tony Costa, Costa Engineers: Institutional Buildings (New). The project is Santa Rosa Junior College Health Science Building.
- Jeff Blaevoet, Guttman & Blaevoet Consulting Engineers: Commercial Buildings (New). The project is Big Rock Ranch.
- Bob Levi announced that the Golden Gate Chapter's ASHRAE Resource Promotion contribution this year is a memorial contribution to our Chapter members who passed away this year: Victor Bach, Richard Blickensderfer, Mike Kisiday, and Bob Voelz. Bob also thanked Jon Malkovich and Johanna Gustafsson for their work with Resource Promotion this year.
- Bob Levi appealed on behalf of Jon Malkovich for contributions to ASHRAE Resource Promotion.
- Bob Levi announced that the June 11 golf tournament is sold out and that gift sponsors are still needed. Contact Kirk Peterson if you wish to donate raffle prizes.
- Bob Levi announced that the date of the annual Eric Thor Andresen Memorial Tennis Tournament is June 18. Contact Jason Daters with any questions or to register for the tournament.
- Bob Levi announced on behalf of Cory Palmer regarding next year's programs. The Chapter membership should vote for topics on the Chapter website - click on "announcements" and then see the first item. Please do so before June 18th.
- Bob Levi recognized the PG&E Pacific Energy Center for its role in our Chapter's operation and said thanks for Maria Arcelona for her help in planning and executing our meetings.
- Committee Chairs were recognized by Bob Levi and given certificates of appreciation.
- Bob Levi announced next year's Board of Governors.
 - President □ Jon Wintermeyer
 - President-elect □ Cory Palmer
 - Secretary □ Glenn Friedman
 - Treasurer □ Debbie Marshall
 - 2nd Year Board Member □ Robert Marcial
 - 1st Year Board Member □ Jeff Blaevoet
 - Past President □ Bob Levi
- Ten minute break.
- Final reminder to buy raffle tickets for the marble game.
- Jon Wintermeyer introduced Jim Giovanni, the speaker.
- Jon Wintermeyer presented Bob Levi with Bob's President's pin.
- Marble Draw □ Prizes sponsored by Norman S. Wright and York.
- Congratulations to Wayne Womer □ he won the marble draw.
- A motion was made to adjourn the meeting, and Bob Levi adjourned the meeting at 8:30 p.m. Have a good summer and we'll see you at the next Chapter meeting in October.

Respectfully submitted, Cory Palmer, Chapter Secretary

From the Chapter Historian

Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

Gershon L. (Gus) Gendler – GGASHRAE Biography

Gus has had an illustrious career in mechanical engineering in the Bay Area and beyond. When he left the Bay Area, he and Betty first moved to Sedona, AZ and then onto Ft. Collins, CO, where they live now.

He got his BSME at the University of Minnesota in 1940. In 1941 he was an M.E. for the Navy in both San Francisco and Mare Island. After five years with the Navy, he joined Bechtel to work on refrigeration plants for Saudi Arabia. Then he joined Clyde Bentley Engineers and worked on a U.C. Davis building.

In 1950 he formed G.L. Gendler & Associates, Mechanical & Electrical Engineers, with offices in Berkeley. In addition to traditional building design projects, he lectured in Architectural Mechanics at U.C. Berkeley and, for three years, participated in an R&D project called School Construction Systems Development Program (SCSD).

Notable projects include Ghirardelli Square, Marin County Civic Center, Wurster Hall at U.C. Berkeley, Maples Athletic Pavilion at Stanford and many more. This author was project engineer, in Gus's office, on Moffitt Library at U.C. Berkeley, St. Francis Hotel Tower, Mt. Diablo Hospital in Concord, and others.

In 1977, Gus sold his firm to Syska & Hennessy and became V.P. and Chief Engineer of their S.F. office. He later opened his independent office in S.F. and later yet, in Sedona, AZ. At both locations, among other things, he did solar energy consulting.

Gus was our Chapter President in 1965-66, was elected Fellow in 1972, was Chapter President of ASPE in 1967-68, was a Director of the Consulting Engineers Association of California, and was a member of the Illuminating Engineering Society and the Northern California Solar Energy Association.

He was Chair of the Berkeley Chamber of Commerce Job & Placement Committee (for youth and minority placement), Chair of the S.F. Board of Examiners, Technical Advisor for the Sedona Sanitary Board, Chair of the Sedona Board of Adjustments and member of the Board of Adjustments in Larimer County, CO.

Gus has received awards from the American Institute of Architects, Illuminating Engineering Society and Progressive Architecture magazine. He has published several articles in industry publications.

Clearly Gus has been a contributor. Thanks, Gus (and tell Betty, hi).

(Information from personal memory, telephone interviews and Gendler's biography).

Employment Opportunities

Senior Lead Mechanical HVAC Engineer – San Francisco

GLUMAC is a mechanical and electrical consulting engineering firm with five West Coast offices, located in San Francisco, Irvine, Sacramento, Portland, & Seattle. For the position of Senior Lead Mechanical HVAC Engineer, we are seeking proactive, articulate and client oriented professional mechanical engineers with 15 years experience in managing \$50 million+ projects in health care, commercial, higher education and/ or other institutional design. This position requires individuals with a P.E. registration and impeccable references. Candidates should possess the ability to articulate conceptual ideas with clients and design teams and supervise designers/ design engineers. The right candidate will have solid track record of managing successful and profitable projects. We would expect this individual to develop significant client relationships and be a major factor in the marketing of our firm. This position includes the following outstanding benefits:

- Comprehensive medical, dental, and vision insurance.
- 401k plan with Company match.
- Annual bonus based on performance.
- Future ownership for the right person.

This is an exceptional opportunity for the right individual. Please send your resume, cover letter and salary history to: careers@glumac.com or mail to Glumac, Attn: HR, 320 SW Washington, Suite 200, Portland, OR 97204.

Mechanical Engineer – San Francisco

Mazzetti & Associates, a consulting and engineering firm, is seeking a mechanical engineer for our headquarters office in San Francisco, CA. One of the hallmarks of our mechanical, electrical, plumbing and technology integration consulting and engineering firm over the last 42 years has been our high level of client care. We are looking for a mechanical engineer to work within a multidisciplinary team, in the design of a variety of building projects; as a member of the team you will work independently, under the supervision of a project manager. A minimum of 6 years of design experience in consulting or a contracting firm is required. Good communication and technical skills are essential. AutoCAD experience and PE license is preferred. For further information about our firm, please visit our website at <http://www.mazzetti.com>. Mazzetti & Associates is an Equal Opportunity Employer.

Contact Information:

To apply, please email your resume to John Karmiris at JohnK@mazzetti.com.

Sales Representative covering Santa Clara and San Mateo counties

PACO Pumps has immediate openings for experienced personnel in the fluid movement industry for commissioned sales of pumping equipment and systems. Please email resumes to dmarshall@flow-products.com or fax to 510/ 639-3337. For information on PACO Pumps see our website: <http://www.paco-pumps.com>.

Employment Opportunities continued

SIEMENS Senior Sales Executive

Manages and grows assigned customer base to achieve growth and gross margin projections. Develop and implement plans to take advantage of all sales opportunities in the market through total solutions that fit customer strategic and operational requirements. Prepare vertical market business plan for implementation and presentation to management. Work with the operations team to develop project cost estimates for sales that meet business plan objectives. Team with other divisions to provide total customer sales and service solutions in building automation, fire and security.

Ideal candidate has a bachelor's degree in Engineering, Technology, Business Administration, Marketing, Finance or a related field and 2+ years of sales experience. For more information, visit www.siemenscareers.com.

HVAC Design Engineers

Taylor Engineering is looking for highly self-motivated HVAC design engineers with strong confidence in their ability to join our team of well-educated and experienced professionals. Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals. All applicants must have excellent presentation and writing skills, and 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.

[Taylor Engineering](#) values commitment to continuous improvement, in-house education, professionalism, pride in our designs, practical and efficient use of technology, and industry leadership. We specialize in innovative large building HVAC, plumbing, fire protection and control system design, energy and indoor air quality analysis, and system commissioning.

Forward 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

Senior Mechanical Engineer – Menlo Park

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

The ideal candidate would have a minimum of 7 years of HVAC design experience, a B.S. degree in mechanical engineering, a California P.E. license, and have a strong working knowledge of all aspects of HVAC design including load calculations, equipment selections, duct design, piping system and central plant design. A good working knowledge of Word, Excel, Carrier HAP 4.2, Outlook or Eudora, AutoCAD, equipment selection programs, and other software products is required. Experience with controls system design is desirable. The candidate should be comfortable working alone on projects and in a team environment and under fast schedules.

Please contact Loek Vaneveld via email at lvaneveld@westernallied.com, phone: 1(650)326-0750, fax: 1(650)321-4946, or via mail at Western Allied Mechanical, 1180 O'Brien Drive, Menlo Park, CA 94025.

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For Thursday, Oct 7th

Please reserve prior to **Monday, October 4th at noon.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on Oct 7, fill out the form and send. Or FAX the following form to Robert Marcial (415) 896-1290.

The meal voucher plan is also available. By purchasing a meal voucher you get **nine meals for the price of eight**: \$280.00. If you purchase a voucher and miss a meeting, you can use the voucher to bring a guest to another meeting this year. We are now accepting payment for the voucher via PayPal. Set up your PayPal account www.paypal.com and make payment to paypal@ggashrae.org.

Members with vouchers you too must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by Oct 4th.

FROM: _____

COMPANY: _____ Phone: _____

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

Please make your choice of a meal for the evening: ___ Salmon Fillet ___ Chicken Piccata ___ Vegetarian Meal
 ___ Crab Cakes ___ Steak and Prawns ___ New York Steak

Pay for meetings using your credit card

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

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid using PayPal. If you have any questions about this process, please contact Robert Marcial at <rmarcial@berkeley.edu>.

NOTE: At the meeting, we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. All credit card payments **MUST** go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.

CHANGE OF ADDRESS?

All members who wish to make changes in their membership data (change of email address, change of address or change of employer are the most common) must make those changes through the national ASHRAE site <http://www.ashrae.org>. **THE GOLDEN GATE CHAPTER CANNOT MAKE THESE CHANGES FOR YOU.**

In order to change your membership data, you will need your ASHRAE member number and confidential PIN number, both of which are on the ASHRAE card issued to you each year. Go to the Change of Address link of the [ASHRAE website](http://www.ashrae.org), 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).



Left: So many helpful volunteers!



Right: Bob Levi and Glenn Friedman



Left: Scott Wayland presents Jeff Blaevoet with a Technology Award



Right: Bob Levi presents Jon Wintermeyer with an award for Region X Best Newsletter



Left: Maria Arcelona accepts the chapter award to the Pacific Energy Center from Bob Levi



Right: Mark Hydeman, Debbie Marshall, and Robert Marcial



Left: Bob Levi presents Scott Wayland with an award for Region X Best TEGA Chairperson



Right: Van and Dick Charles (Dick is both Past Society and Chapter President)



Sierra Green Building Association
PRESENTS

BLUEPRINT FOR BUILDING INTEGRATED PHOTOVOLTAICS

TECHNICAL TRAINING WORKSHOP

Dr. Patrino Eiffert & the ImaginIt Team

Friday, October 22, 2004

Granlibakken Conference Center & Lodge

Tahoe City, California

7:30am to 5:00pm

Lunch and course packet provided

To register, go to

www.sigba.org/registration.pdf

\$175.00 Members

\$200.00 Nonmembers

Contact

info@sigba.org

www.sigba.org



ImaginIt, Inc.TM
Solar Electricity

<http://www.imaginit.cc/bipv.pdf>

AGENDA

- 7:30 Check-in & Registration
- 8:00 Welcome & Introduction
- 8:10 BIPV Design Concepts & Case Studies
- 9:30 The Basics of PV & State-of-the-Art PV
- 10:30 Break
- 10:45 Engineering a BIPV System
- 11:45 Design Charrette Team Selection
- 12:00 Lunch
- 1:00 Blueprint for a BIPV Project
- 2:00 Utility Interconnection & Data Acquisition Systems
- 2:45 Break
- 3:00 Charrette, Designing a BIPV System
- 3:45 Design Presentations
- 4:30 Closing Remarks & Certificates

CERTIFICATE OF TECHNICAL TRAINING WILL
BE AWARDED TO PARTICIPANTS.

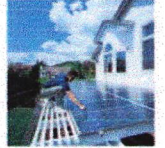
OBJECTIVES OF THE COURSE

To convey the architectural process to integrate
Photovoltaic (PV) design in the new construction and
retrofit of commercial, residential and
institutional buildings.

To present an overview of different PV technologies for
BIPV systems, design considerations, utility
interconnection, building codes, installation, operation and
maintenance issues and case studies.

To consider specifications, construction documents,
and bid reviews.

To identify local financial incentives for PV projects with
rules of thumb for financial performance projections.



REGISTER TODAY

\$175.00 Members | \$200.00 Nonmembers

Become a member today: www.sigba.org/membership.pdf
Individual memberships start at \$25.00.

Please make checks payable to:

"Sierra Green Building Association"

Mailing address: PO Box 4245 Truckee, CA 96160

Visa and MasterCard are accepted.

Please email info@sigba.org for more info.

Name of Company

Name of Attendee

Mailing Address

Telephone

Fax

Email

Website

SPONSORED BY



Solar Wind Works
www.solarwindworks.com



Alternative Energy Institute
www.aetenergy.org



DayStar Solar
www.daystarsolar.com



EIT Art-Architects
www.eit-art-architecture.com



Gaunt Sommer Design
www.gauntsommerdesign.com



Truckee Donner
www.tdpu-d.org

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 2

NOV 2004

November Meeting Notice

Date: Thursday, November 4, 2004

Place: The Carnelian Room
555 California Street, Bank of America
Building, San Francisco
Take an express elevator from the
Montgomery Street entrance level to the 52nd
floor

Schedule:

5:30 PM to 6:30 PM - Social hour
6:30 PM to 7:45 PM - Dinner with
Announcements and Introductions
8:00 PM to 9:00 PM Speaker's Presentation

Cost: \$35 for members and guests reserved by
Monday, November 1 at noon

Students – No charge, but please reserve a spot
Voucher – No charge, but please reserve a spot.
Purchase 8 meetings and get 9 for \$280.00.

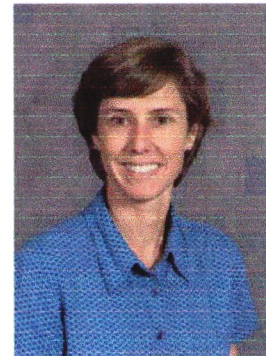
\$42 for non-members, late reservations, and at the
door

Please make your reservation via our website.
Visit the Event Calendar at
<http://www.ggashrae.org/calendr.htm>, click on
November 4, and fill out and submit the form. Or fax
the form on page 4 to Debbie Marshall at (510) 639-
3337.

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

November Program

Energy Information & Control Systems for Energy Efficiency and Demand Response



Mary Ann Piette

Energy Information Systems (EIS) refer to software, data acquisition hardware, and communication systems administered by a company, partnership, or collective to provide energy information to commercial building energy managers, facility managers, financial managers and electric utilities. Data types commonly processed by EIS include energy consumption data; building characteristics; building system data, such as heating, ventilation, and air-conditioning (HVAC) and lighting data; weather data; energy price signals; and energy demand-response event information.

New EIS technology is often integrated with Energy Management Control Systems. Some systems allow for participating in Demand Response (DR) programs. Demand Response (DR) is a set of activities to reduce or shift electricity use to improve the electric grid reliability, manage electricity costs, and ensure that customers receive signals that encourage load reduction during times when the electric grid is near its capacity.

Recent research at Lawrence Berkeley National Laboratory has been exploring the relationship between EMCS, EIS, and DR. *Continued on page 2*

Golden Gate Chapter President's Message, November 2004

To the membership of the Golden Gate Chapter of ASHRAE, what have you done lately that you have been really enthusiastic about? Well you should be enthusiastic and proud, as the GG ASHRAE Chapter announces that we will be sponsoring a new student Chapter this year at the California Maritime in Vallejo, CA. The students and their Advisor came to our October Chapter meeting and they have a high level of enthusiasm. In my FOG President's message last month, I noted that we should be mentoring and leaving a legacy in the business and that what we do as professionals and how we present ourselves can spark an interest in the HVAC field and for ASHRAE. This spark of ASHRAE interest was made last April, when Eric Estoista was one of the guest college students who attended our Chapter meeting and saw firsthand, what our organization has to offer. He met other student chapter members from other area colleges and sat and talked with them that evening. He had time to view the product show and many open exhibits at the Pacific Energy Center. He saw the Middle and High School students talk about their science fair projects and then receive awards from the Chapter. Some of these students were repeat winners from past years in lower school grades, who continue to be enthusiastic about math and science. Then the college student chapter winners of GG ASHRAE scholarships were announced and \$6000 total was distributed out to seven of them. This was followed by the Chapter and Regional awards for Design Projects based on TEGA application submissions made by professional engineer members of our Chapter.

The inner fire of interest sparked in Eric and made him enthusiastic about getting a summer internship in the HVAC industry. Then when he started back to college this semester, his enthusiasm had him talking up ASHRAE and creating a student chapter with his fellow students at California Maritime. Then the core group he had convinced to sign up started talking to a Professor, so that they could have a Faculty Advisor and be sanctioned as an official ASHRAE student chapter.

This is youthful enthusiasm on a steady uphill climb of less than 6 months, and it was sparked by who we are as an ASHRAE Chapter and the example that we show to others. We as a Chapter pledge ourselves to our student chapters, to enlighten, advise, teach, provide scholarships, offer encouragement and in some cases hire them as graduates or offer them internships. When the youth of another generation wants to follow where we chose to go, we should welcome them with open arms and nurture their enthusiasms that the Industry continues to expand and ASHRAE becomes stronger. Be a good example of professionalism and take pride in what you do.

ASHRAE members of the Golden Gate Chapter, I challenge all of you to get enthusiastic this year, and help to keep that spark of knowledge glowing brightly in the young engineering students and the next generation, who choose to follow A CAREER PATH IN THE HVAC INDUSTRY AND LOOK TO ASHRAE MEMBERS FOR MENTORING AND ENCOURAGEMENT. Hope to see you at the November 4th meeting. Bring a non-member with you to the Carnelian room, we may create some more sparks.

Respectfully submitted, Jon L. Wintermeyer, Chapter President

November Program continued

A series of tests have been developed to evaluate opportunities for fully Automated Demand Response (Auto-DR) hardware and software technology in large facilities. Tests from 2003 and summer 2004 will be discussed that involve over 40 buildings.

This and related research on DR is sponsored by the California Energy Commission's new PIER Demand Response Research Center. PIER is the Energy Commission's Public Interest Energy Research program.

Mary Ann Piette is a Staff Scientist at Lawrence Berkeley National Laboratory and the Research Director of the PIER Demand Response Research Center. She is also the Deputy Group Leader of the Commercial Buildings Systems Group in the Building Technologies Department at LBNL. She has been a building science researcher at LBNL since 1983 and has extensive experience evaluating the performance of energy efficiency systems and features in large facilities. She has authored over 80 papers relating to energy efficiency and building performance. Her recent work emphasizes building controls, commissioning, diagnostics, energy information systems, and demand response. She has a Masters of Science Degree in Mechanical Engineering from UC Berkeley and a Licentiate from the Chalmers University of Technology in Gothenburg, Sweden.



TRANE[®]

Oakland Engineering Sales Group

The Trane Company proudly supports ASHRAE Research

ASHRAE Research Report

The 2004-05 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. Now you can make your donation online at www.ashrae.org.

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

Corporate Honor Roll Investors (\$150.00 or more)

Norman S. Wright

TRANE Company Oakland

Individual Honor Roll Investors (\$100.00 or more)

Edgar DeGuzman

Robert Marcial

Jon Wintermeyer

Bob Levi

Cory Palmer

Glenn Friedman

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:

Johanna Gustafsson
(925) 417-7218
johanna@york.com

Chapter Technology Transfer Committee (CTTC)

(Formerly the Technical, Energy and Government Affairs (TEGA) Committee)

By Scott Wayland, ASHRAE Golden Gate Chapter CTTC Chair

Effective July 2004 the ASHRAE Board of Directors merged the functions of the TEGA and Chapter Programs Committees to form one committee - the Chapter Technology Transfer Committee (CTTC). CTTC is a General Standing Committee of the Society and operates under the direction of the Board of Directors and Members Council. At the chapter level CTTC is a mandatory standing committee.

This committee responsibility is to provide efficient and effective transfer of current and relevant information throughout the HVAC&R industry to and from the chapters. The committee shall develop and maintain high quality and readily available tools to enable chapters to offer informative and attractive industry-related information and programs to all target segments within the HVAC&R industry.

See the following website for more information:

<http://www.ashrae.org/template/AssetDetail/assetid/25424>

So, what does this mean for the Chapters? Well, it's going to take us a little time to adopt the new structure. The programs have been organized by the board. We will continue to work on how to implement this change. In the meantime, you can still count on me to be the conduit between you and society. My responsibilities still include: informing chapter members of available ASHRAE technical material; encourage chapter members participation in technical activities at local, regional and society level; provide chapter input to Society on Standards, Publications, Research, handbook, and Position Documents and the Technology Council (TCs). CTTC also assists the chapters in: developing local and regional recognition of ASHRAE's authoritative position; responding to public issues within ASHRAE's scope; developing liaisons with the local community regarding technical issues. CTTC also administers awards programs: Technology Awards; Government Activities Awards; Dan Mills Award.

Technology Awards

We are awaiting the results from the 2004 Society competition currently in the hands of the judging panel. There are three entries from our members: Jeff Blaevoet, Mark Redmond and Tony Costa. We will be hearing from Society early next month so stay tuned...

The 2005 Chapter Awards will be due in February 2005. Go to the following links for more info:

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

<http://xp20.ashrae.org/STANDCOM/ShortForm.pdf>

Join the TEGA / CTTC Committee

If you like to assist the chapter and get involved with ASHRAE, the TEGA / CTTC committee would like your help. Please contact Scott Wayland at sewayland@comcast.net

Minutes of October 7, 2004 Chapter Meeting

Sinbad's Restaurant, San Francisco

- Meeting called to order at 6:40 p.m. by Jon Wintermeyer. Welcome to the first meeting of the 2004-2005 season of the Golden Gate Chapter.
- Self introductions.
- The meeting minutes from the June 3, 2004 meeting were approved unanimously.
- The Chapter welcomed the California Maritime Academy students in attendance. Golden Gate ASHRAE is excited that it will sponsor a new ASHRAE Student Chapter at the Academy this year. More information will follow in later Fog Dispensers when the Student Chapter paperwork is finalized.
- Don Nurisso received a Certificate of Appreciation for his work on last year's seminar on building commissioning.
- Johanna Gustaffson, Resource Promotion Chair, appealed for contributions to ASHRAE Resource Promotion. She thanked the Chapter for its \$4,000 donation to ASHRAE RP for the 2003-04 year and mentioned some of last year's major contributors.
- Jon Wintermeyer announced the meeting topics and locations for November and December. See the Chapter web site for details.
- Ten minute break.
- Cory Palmer introduced the evening's speaker, Nick Des Champs.
- Mr. Des Champs gave an interesting and informative talk on "Air Conditioning Techniques Using Heat Recovery and Indirect Evaporative Cooling."
- The raffle game will resume at the November meeting.
- A motion was made to adjourn the meeting, and Jon Wintermeyer adjourned the meeting at 9:00 p.m.

Respectfully submitted,
Cory Palmer, President-Elect

Change of Address?

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

THE GOLDEN GATE CHAPTER CANNOT MAKE THESE CHANGES FOR YOU.

In order to change your membership data, you will need your ASHRAE member number and confidential PIN number, both of which are on the ASHRAE card issued to you each year. Go to the Change of Address link of the ASHRAE website, 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).

From the Chapter Historian

Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

Clyde Bentley – GGASHRAE Biography

Clyde E. Bentley was at the heart of an engineering dynasty. His grandfather was a land surveyor. His father was a civil and mining engineer. His son, Donald, continued Clyde's engineering practice and his other son, Robert, was an architect in the organization. His grandson, Clayton, was involved in the business aspects of the firm. Another grandson, Grant, contributed to the computerization of the business. Granddaughter Elizabeth did the marketing and grandson William was also involved.

ASHRAE members who were at one time a part of Bentley Engineers include Norman MacRitchie, Kevin Dowling, Rajinder Jandu, Cy Hansen, Frank Gordon, Bob Voelz and Steve Taylor.

Clyde was born in 1898 in Modesto. He retired in 1976 at the age of 78 and died in 1989 at the age of 91.

Clyde earned his B.S. in engineering from Cal in 1923 after serving in the Army during World War I. He was in the ROTC at Cal. He became a registered P.E. in civil, mechanical and electrical engineering.

He started his engineering practice at 216 Pine St. in 1935. It later moved to 405 Sansome, 49 Fremont and 149 New Montgomery. The firm incorporated in 1966. Bentley Engineers was purchased by Enron around 1998.

The firm designed the first high-velocity double-duct system. It was at Mare Island. Among the many significant projects are Letterman and Oak Knoll military hospitals, Alta Bates Hospital, projects at U.C. Berkeley and Davis, and projects at the San Francisco and Oakland Airports.

Clyde was a founding member of the Cal Engineering Alumni Society. He was its president in 1962 and received their Distinguished Alumni Award.

He was a member of the Consulting Engineers Association and the S.F. Bay Area Engineering Council. He was chairman of Engineers Week, president of the Engineers Club and president of the Building Industry Conference Board (from which he received an award). He also received a commendation award for a Navy project and a medal from the Society of American Military Engineers.

Clyde joined ASHVE in 1937, was our Chapter president in 1941-42. He became a Life Member. He was vice-chairman of our Society's summer meeting in San Francisco in 1941. You will hear more about that meeting in a future article. Watch for it!

(Information from interviews with and written information from Donald Bentley.)

Student Activities

By Gary Harbison

In August I had the pleasure of traveling to the campus of California State Maritime Academy and meeting with Professor Stephen Pronchick. We talked about the possibility of forming a student branch and discussed how vital HVAC systems are to ship board operation. After that I was taken on a tour of the facility and I was tremendously impressed with the lab facilities. They meld the theoretical with practical applications, in highly demanding and no doubt stressful situations. Professor Pronchick and students then proceeded to move forward on starting our newest student branch, had a very enjoyable dinner with us in October, and the proscribed paperwork to make this happen is being processed at this time.

Secondly, I am pleased to announce the Vice-Chairmen of the Student Activities Committee, Mr. Brett Wright and Ms. Shruti Narayan. In addition to our core responsibilities of monitoring ASHRAE travel grants, Golden Gate Chapter scholarships, and the Science Fair we are going to expand our outreach to area high schools and become more personally involved with the local college and university community.

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION

For Thursday, November 4th

Reservations

Please reserve prior to **Monday, November 1st at noon.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on November 4, fill out the form and send. Or fill out and FAX this page to Debbie Marshall at (510) 639-3337.

Members with vouchers – you too must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by November 1st.

Payment

You can pay for meeting vouchers and dinner reservations using your credit card!

Purchase your 2004-2005 Meeting Voucher now! If you have a voucher and miss a meeting, you can bring a guest to the next meeting and your guest can attend for free! This offer is only good for the October 2004 - June 2005 season and the "guest for free" option will not carry over to the 2005-2006 season. The Chapter has set up a PayPal account. You may now pay for your dinner meetings using your credit card if you have a PayPal account. It's a very simple process, and the instructions are on the website at <http://www.ggashrae.org/announc.html>

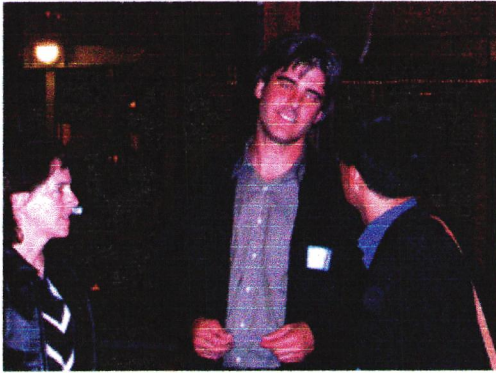
- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid for their dinner vouchers using PayPal. If you have any questions about this process, please contact Robert Marcial at rmarcial@berkeley.edu.

NOTE: At the Chapter meetings we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. **All credit card payments MUST go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.**

For Faxed reservations, please fill out the following, and FAX this page to Debbie Marshall at (510) 639-3337:

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



Left: Tracy Cornish and Todd Gottshall of Taylor Engineering and friend.



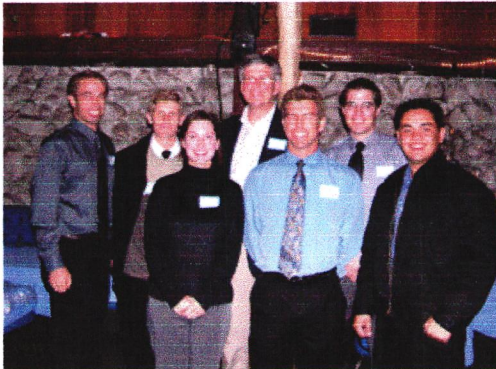
Right: Cory Palmer introduces the evening's speaker



Left: Don Nurrisso receives an award for his help with last year's seminar.



Right: Chapter President Jon Wintermeyer



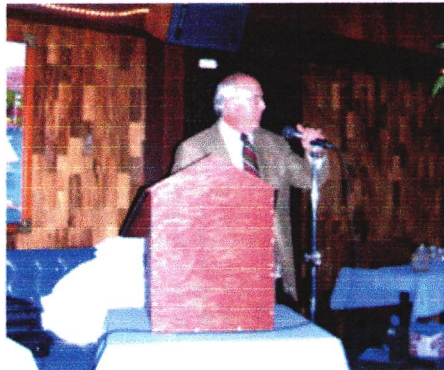
Left: Representatives of California Maritime Academy's new student chapter



Right: Resource Promotion Chair Johanna Gustafsson



Left: Edgar Deguzman, Julie Heidbreder, and Sue MacLoughlin



Right: Nick Des Champs talks about evaporative cooling and heat recovery

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 3

DEC 2004

December Meeting Details

Annual joint meeting with the San Jose Chapter

Date: Thursday, December 9, 2004

Place: San Mateo Marriott
1770 South Amphlett Boulevard,
San Mateo
Phone (650) 653-6000

Schedule:

5:00 - 5:30 PM - Technical presentation:
Field-Erected Fiber Glass Cooling Towers
5:30 - 6:30 PM - Social hour
6:30 - 7:45 PM - Dinner with
Announcements and Introductions
8:00 - 9:00 PM Panel Discussion
(Raffle draw after the panel discussion)

Cost: \$35 for members and guests reserved by
Monday, December 6 at noon

Students – No charge, but please reserve a
spot

Voucher – No charge, but please reserve a
spot. Purchase 8 meetings and get 9 for
\$280.00.

\$42 for non-members, late reservations,
and at the door

Please make your reservation via our website.
Visit the Event Calendar at
<http://www.ggashrae.org/calendr.htm>, click on
December 9, and fill out and submit the form.

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

December Program

Panel Discussion on Building Commissioning



Steve Guttmann



David Sellers

Photo not available for Mark Levi

Speakers: Steven Guttmann, P.E.
Guttmann & Blaevoet Consulting Engineers

Mark Levi
U.S. GSA Public Buildings Service

David Sellers, P.E.
Portland Energy Conservation, Inc.

Moderator: Glenn Friedman, P.E.
Taylor Engineering

Building commissioning continues to be one of the most popular topics for Chapter programs. Commissioning will be discussed in a panel format, with the panel members representing the perspectives of a building owner, commissioning agent, and consulting engineer. There will be three main topics posed by the moderator, and time for audience questions on each topic.

Continued on page 2

Golden Gate Chapter President's Message, December 2004

Happy Holiday Greetings, to the membership of the Golden Gate Chapter of ASHRAE for December 2004. I hope that you have many things to be thankful for and a family and/or friends to share the Festive Holidays with at this time of the year. My message this month is about family and friends and how fortunate we are to be a part of other people's lives and the difference we all make to one another.

I would challenge all of you to do something special this year and I tell you from experience that it is worth the time and effort. I will be forever thankful that I made the time while my friend could still read and know the influence that he had on my life. This Holiday Season, I ask you to write a thank you letter to a special person in your life. Whether he or she is family or friend makes no difference, but write and tell them how glad you are that they are a part of your life and how important that influence is. I started to write my letter four years ago, shortly after the death of my father, about this time of the year and mailed the finished copy to my friend during in early December.

He wrote me back in January and I also received a letter from his wife, telling me how my letter will be one of the most cherished gifts they have ever received in their home. My wife and I have visited with them on a few of our trips back to the East Coast and they always talk about my letter of thanks. That letter in turn got members of both of our families to write thank you letters and notes to others in their lives, after they read the first one. Writing a thank you letter is such a simple task and yet we so seldom stop in our busy lives to do it, even sending a short thank you card with a note for a gift received. Sadly it too often goes unsaid in our everyday schedules, when an acknowledgement of appreciation would be so uplifting to those around you.

So that, my fellow members of the Golden Gate Chapter, is my Holiday message to you, and may you have a Joyous Holiday Season. Please accept my challenge and write a thank you letter, it will make a difference in more lives than you realize.

Respectfully submitted, Jon L. Wintermeyer, Chapter President

December Program continued

Steven Guttman biography

A principal of Guttman & Blaevoet Consulting Engineers since 1989, Steve Guttman is dedicated to expanding the high standards of design and client services established over the firm's 48-year history. He has extensive experience in the design and construction of many project types, including higher education facilities, libraries, health care, laboratories, museums and aquariums, and commercial facilities. Steve is a registered Mechanical Engineer in California, Florida, and Ohio. He holds a B.S. with Honors in Mechanical Engineering and a B.A. with Honors in Environmental Studies from the University of California at Santa Barbara.

He has led many of the firm's major projects to successful completion, including the Outer Bay wing of the Monterey Bay Aquarium, Boarding Area A of the International Terminal at the San Francisco International Airport, Kaiser Walnut Creek Medical Center, and the Tech Museum of Innovation in San Jose. His projects have won awards from California AIA, U.S. Air Force Engineering Services, the California Preservation Foundation, the U.S. Institute for Theater Technology, and ASHRAE.

Steve is a member of the Golden Gate Chapter of ASHRAE, and served as Chair of the Technical Seminar Committee in 1988-1989. He was a Board member in 1993 of the Engineering Societies Committee for Manpower Training. He contributed to the book *Energy Management Strategies in Public Libraries*, published by the California State Library systems Development Services Bureau in 2002. He has taught at the PG&E Energy Center, and delivered presentations in 2004 at GreenBuild and at the American Society for Healthcare Engineering's Annual Conference.

Steve joined the US Green Building Council in 1998, and attended his first National Conference on Building Commissioning in 1999. For the past ten years, Guttman & Blaevoet has been commissioning its own work, and the firm has been selling commissioning services independent of its design services for less than a year. For many years, Steve has been swimming against the tide of third party commissioning, advocating that engineers that design

Continued on page 3

December Program continued

buildings be responsible for ensuring that the building works when it is delivered to the users. When he is not tired from swimming, he has been developing the Green Guide for Health Care, serving on the Steering Committee. This project is sponsored by Hospitals for a Healthy Environment (a joint venture between the EPA, the American Hospital Association, and Health Care Without Harm). He is also a member of the US Green Building Council's Core Committee developing the LEED for New Construction Application Guide for Healthcare, due out next year.

Mark Levi biography

Mark Levi is employed in the GSA Public Buildings Service, Pacific Rim Region, headquartered in San Francisco, CA. He manages utilities contracts, the regional computerized maintenance management system, the regional real-time data acquisition and analysis system (GEMnet), and the regional retro-commissioning program. He has a BA from U.C. Berkeley, MBA from C.S.U. Hayward, and J.D. from U.C. Hastings. He was with the Army prior to joining GSA in 1991.

David Sellers biography

David Sellers is a Technical Manager at PECCI, leading new and existing building performance projects. David's experience includes 28 years of system design, fabrication, operation, and analysis focusing on HVAC systems, control systems, plumbing systems, and fire protection systems. He has been involved in all aspects of project design from schematics through construction documents. In addition, he has worked as a mechanical and control systems contractor and a facilities engineer, exposing him to the practical issues associated with system installation and operation in addition to the theoretical issues associated with the design process.

David's fieldwork typically consists of troubleshooting, system optimization, building automation system control programming, testing and balancing, and commissioning. His experience includes work in new and existing facilities in the commercial, industrial, institutional, and health care sectors. He also has experience as technical writer and trainer.

Some of his most recent projects at PECCI include:

- Currently developing an Application Guideline on Return Fan Speed Control Strategies.
- New construction commissioning of the Seattle Federal Courthouse and a LEED™ Gold facility for the American Honda Motor Company.
- Technical support, consultation, and training to develop an in-house retrocommissioning program and pilot projects for Marriott.
- Publishing of four energy design briefs for Pacific Gas & Electric Company. Also design and commissioning-related training.
- Development of the *Control System Design Guide* and *Functional Testing Guide for Air Handlers* for the California Energy Commission.

David previously worked as an HVAC and Fire Protection Engineer at Komatsu Silicon America, Inc., where he was responsible for reviewing design, construction, start-up, and day-to-day operation of the HVAC, chilled water, process exhaust, scrubbed exhaust, and fire protection systems. Prior to his Komatsu position, he spent a significant portion of his career working for McClure Engineering Associates, Inc., where he held a number of positions ranging from field technician to designer to project engineer/project manager. David is a registered professional engineer in the State of Missouri. David graduated with a B.S. in Aeronautics, with a major in Aircraft Maintenance Engineering, Summa cum laude, from Parks College of St. Louis, University.

Glenn Friedman biography

The moderator, Glenn Friedman grew up in the family HVAC contracting business. He has a BS in engineering from UC Berkeley. He ran the family design/build contracting business for 20 years before joining Taylor Engineering as a Principal in 1999.

Glenn's industry experience includes being a National Past Chair of the Air Conditioning Contractors of America (ACCA). Glenn is also involved American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE). He serves locally on the Golden Gate Chapter Board of Governors and nationally as Chair of the Technical Committee TC9.5 Residential and Small Business Applications and Program Chair for Technical Committee TC4.1 Load Calculations. Glenn is a certified in balance professional and is a US Green Building Council (USGBC) LEED™ Accredited Professional.

District Sales Manager

Ken Mozek (925) 417-7202

Sales Engineers

Bill Bates (925) 417-7212
 Greg Boyle (925) 417-7206
 Eric Levy (925) 417-7230
 John Mitchell (925) 417-7220
 Kirk Peterson (925) 417-7208
 Shaun Webster (925) 417-7223
 Brett Wright (925) 417-7252

Sales Application Engineers

Kristin Vogt (925) 417-7219
 Matt Ghiglieri (925) 417-7207
 Eric James (925) 417-7209

Controls Sales

Rafael Sabia (sales specialist) (925) 417-7227
 Johanna Gustafsson (estimator) (925) 417-7218



York International proudly supports ASHRAE research!

ISNConneXsys

ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

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

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

The following individuals have donated on the honor level this year:

Corporate Honor Roll Investors (\$1,000+)

California Hydronics Corporation

Corporate Honor Roll Investors (\$100+)

Norman S. Wright TRANE Company Oakland
 R F MacDonald Company Saric Engineering Enterprises Inc
 Ted Jacobs Engineering Group

Individual Honor Roll Investors (\$100+)

Edgar DeGuzman	Robert Marcial	Jeff Blaevoet	Carl Jordan	Jon Wintermeyer
Bob Levi	Cory Palmer	Debbie Marshall	Kent Man Lim	Glenn Friedman
Dr. Max H. Sherman	Kevin Dowling	Richard Charles	Donald Lucas Jr.	Shlomo Rosenfeld
	Kil Woong Yi		Dennis Thompson	

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: Johanna Gustafsson, (925) 417-7218, johanna@york.com. Thanks for your support for ASHRAE research!!

Chapter Technology Transfer Committee

(Formerly the Technical, Energy and Government Affairs (TEGA) Committee)
By Scott Wayland, ASHRAE Golden Gate Chapter CTTC Chair

Please check out the committee website at <http://ggashrae.org/cttc>

Technology Awards

The following are the results from the 2005 ASHRAE Technology Awards:

ASHRAE Award of Engineering Excellence and First Place Winner

Frederic Genest

Pageau Morel & Associates, Montreal, Quebec, Canada

Category I - Commercial Buildings - New
Mountain Equipment Coop , Montreal, Quebec, Canada

Region II
Guy Perreault, CTTC RVC

First Place Winners

Jeffrey Paul Blaevoet

Guttman & Blaevoet Consulting
Engineers
San Francisco, CA

Category I - Commercial Buildings
- New
Big Rock Ranch, Lucas Films
Nicasio, CA

Region X
Saul Villanneuva, CTTC RVC

Nicolas Lemire

Montreal, Quebec, Canada

Category II - Institutional Buildings –
New
Concordia University Science Complex
Montreal, Quebec, Canada

Region II
Guy Perreault, CTTC RVC

Gilles Desmarais

Longueuil, Quebec, Canada

Category II - Institutional Buildings -
Existing
Jean-de-Brebeuf College
Montreal, Quebec, Canada

Region II
Guy Perreault, CTTC RVC

Second Place Winner

Wayne E. Kerbelis

Peter Basso Associates , Troy, MI

Category II - Institutional Buildings - New
Allegan High School New Natatorium and Theater Additions, Allegan, MI

Region V
Monte Troutman, CTTC RVC

Chapter Technology Transfer Committee continued

Honorable Mention Winners

Steven T. Taylor and Jeffrey R. Stein

Taylor Engineering
Alameda, CA

Category I - Commercial Buildings -
New

Electronic Arts II
Redwood City, CA

Region X

Saul Villanneva, CTTC RVC

Antonio Costa

Costa Engineers, Inc.
Napa, CA

Category II - Institutional Buildings -
New

Race Hall - Santa Rosa Junior
College
Santa Rosa, CA

Region X

Saul Villaneuva, CTTC RVC

Jeffrey Paul Blaevot

Guttmann & Blaevot
Consulting Engineers
San Francisco, CA

Category III - Health Care
Facilities - New

Kaiser Geary Medical Office
Building
San Francisco, CA

Region X

Saul Villaneuva, CTTC RVC

Evans J. Lizardos

Lizardos Engineering
Associates
Mineola, NY

Category IV - Industrial
Facilities or Processes -
Existing

Port Authority of New York
and New Jersey
New York, NY

Region I

Mike Circosta, CTTC RVC

Jeffery D. Celuch

ThermalTech Engineering
Cincinnati, Ohio

Category IV - Industrial Facilities
or Processes - New
LaFarge Gypsum Drywall Plant

Region V

Monte Troutman, CTTC RVC

Jeffrey L. Ewens

Henderson Engineers, Inc.
Lenexa, KS 66214

and

Blake E. Ellis

Burns & McDonnell
Kansas City, MO

Category V - Public Assembly -
New

SBC Center
San Antonio, Texas

Region IX

D. Larry Simmon, CTTC RVC

Our chapter members won 4 out of our 5 entries into the Society Competition and 4 of the 10 that were given out. Congratulations and thank you for participating.

If you are interested in submitting a project, the 2005 Chapter Technology Award Competition entries will be due to the CTT Committee in February 2005. Go to the following links for more info:

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

<http://xp20.ashrae.org/STANDCOM/ShortForm.pdf>

Join the TEGA / CTTC Committee

If you like to assist the chapter and get involved with ASHRAE, the TEGA / CTTC committee would like your help. Please contact Scott Wayland at sewayland@comcast.net

Student Activities

Gary Harbison

To encourage student involvement in our industry, we are continuing the practice of awarding grants to support living and travel expenses, for student attendance at the ASHRAE winter and summer meetings. The winter meeting will be held in Orlando, Florida from February 6 to 9 and the summer meeting is in Denver, Colorado from June 26 to 29, 2005.

The 2005 Student Travel Grant Applications are now posted on the website and available for downloading. The deadline for application, to the winter meeting is December 10, 2004.

Mark your calendars as the February, 2005 meeting will be student night.

30-minute Technical Seminar at December Meeting

presented by Frank Wegener, P.E.

The New Technology Developments in Field-Erected Fiber Glass Cooling Towers

Right before the December Chapter meeting will be an opportunity to attend a brief technical seminar by Frank Wegener, P.E. This half-hour presentation will begin at 5:00 pm on December 9, before the joint San Jose Chapter and Golden Gate Chapter meeting at the San Mateo Marriot.

There are numerous, recent product and technology improvements in this area including unique property resins, pultrusion manufacturing, spans of up to 16 feet, unique column to span connection systems, etc. As this technical seminar is not part of the evening's main program, it is not governed by ASHRAE's non-commercialism policy. In keeping with tradition, the speaker has agreed to buy a drink for everyone in attendance.

Frank Wegener is President of L&H Airco and is a registered professional engineer with 32 years experience in the HVAC industry. His extensive background encompasses all phases of the industry from design of refrigeration systems to manufacturing of AC equipment. He spent 3 years with the Trane Corporation as a sales engineer, and for the past 29 years, Frank has been an independent marketing representative of HVAC and related equipment with his firm of L & H Airco. Frank utilizes his engineering capabilities to assist consulting engineers with critical system designs, specifically for hospital, institutional and cooling tower applications. Frank received his B.S. degree in mechanical engineering from Santa Clara University.

2004/2005 Golden Gate Chapter Seminar – Save the Date

Avoiding Mold Problems in Commercial Building Enclosures

Date: February 28, 2005
Time: Full-day; exact time schedule to be announced
Location: Pacific Energy Center, San Francisco

Speaker: Mr. Joe Lstiburek

This presentation deals with the impact of design, construction, and operation on the mold performance of buildings. The presentation will identify and evaluate solutions, and recommend remedial measures to alleviate performance, durability and indoor environmental problems.

Design of walls, claddings, roofs, mechanical systems and interior finishes will be discussed as they relate to moisture control, durability and indoor air quality. Diagnostic procedures and remediation techniques will also be discussed.

Building problems and their solutions will be related to operational concerns and monetary constraints. Case studies will be utilized to illustrate the key issues.

Moisture and related indoor air quality problems have become a major source of lost revenues, management frustration, litigation, image problems, lost clients, and related health problems. The building enclosure and mechanical systems interact with and influence interior environmental conditions with serious consequences. In this seminar industry practices are challenged and turned on their head. Delivered by an engineer with a sense of humor, this session will prove to be highly interactive and relevant. Clear methodologies for effectively and rapidly solving building envelope moisture and indoor air quality problems will be presented. Learn how to modify standard diagnostic, design, commissioning, inspection and testing and balancing procedures to identify problems. Attendees will learn problem-solving techniques that can be implemented immediately.

The Chapter web site will be updated with electronic registration information, the seminar cost, and time schedule.

Minutes of November 4, 2004 Chapter Meeting

Carnelian Room, Bank of America Building, San Francisco

- 6:50 PM, after dinner Jon Wintermeyer started the meeting
- Self introductions.
- Jon Wintermeyer awarded Ben Sun a certificate of appreciation for serving as last year's Honors and Awards Chair.
- Steve Sprague was awarded a Life Member certificate.
- Jon Wintermeyer discussed the announcement by the City of San Francisco that all new City buildings will be designed to achieve Silver LEED certification.
- Scott Wayland announced the 2004 Society Technology Awards. Golden Gate Chapter's winners include Jeff Blaevoet, Guttman & Blaevoet, first place award. Honorable mentions include Steve Taylor and Jeff Stein, Taylor Engineering, Antonio Costa, Costa Engineers and Jeff Blaevoet, Guttman & Blaevoet. Scott urged members to enter the 2005 ASHRAE Technology Awards competition. See the Golden Gate Chapter webpage for more details.
- Cory announced the December 9 meeting is a panel discussion on building commissioning. This is a combined meeting with the San Jose Chapter and will be at the San Mateo Marriott
- Cory introduced Mary Ann Piette, the speaker, who discussed research in Energy Information & Control Systems for Efficiency & Demand Response.
- Heather Hodges and Audrey Sosa, Norman S. Wright ran the marble draw. The marble draw winner was Amy Cervantes. The winning marble was not selected. The marble draw prizes were sponsored by NABCO.
- The meeting adjourned at 9:00 PM

Respectfully submitted, Glenn Friedman, Chapter Secretary

From the Chapter Historian

Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

1941 ASHVE Summer Meeting

In 1941, ASHVE held the Society's summer meeting in San Francisco at the Palace Hotel. G.M. (Met) Simonson was the chairman. Tom and Adele White were on the Ladies Committee.

This was the first Society meeting on the west coast. It was publicized well by the Pacific Daily Builder.

Well advertised in advance was the fact that a special train was arranged to bring attendees from Chicago, with specific intermediate stops, to the San Francisco meeting. An ASHVE publication presented all of the details including fares and departure times for each stop along the way. The fare was \$62.50 from Chicago (more for a sleeper).

The train, without air-conditioning, used the Burlington Route, Denver & Rio Grand, and Western Pacific railroads. Also coordinated and publicized were feeder trains to Chicago from New York, Philadelphia and Harrisburg. Return transportation was left to the attendees except that, for those who wanted to return via the Pacific Northwest, a specific steamship from San Francisco to Portland was suggested.

The ASHVE meeting was concurrent, in San Francisco, with meetings of both the Pacific Heating and Air-Conditioning Exposition and the Heating, Piping and Air-Conditioning Contractors National Association.

The meeting included a tour of U.C. Berkeley and lunch at the Claremont Hotel. At the golf tournament, Jim Gayner of Gayner Engineers won individual honors and Golden Gate won the chapters competition.

(Information extracted from the Golden Gate Chapter historical files.)

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION

For Thursday, December 9th

Reservations

Please reserve prior to **Monday, December 6th at noon.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on November 4, fill out the form and send.

Members with vouchers – you too must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by **December 6th.**

Payment

You can pay for meeting vouchers and dinner reservations using your credit card!

Purchase your 2004-2005 Meeting Voucher now! If you have a voucher and miss a meeting, you can bring a guest to the next meeting and your guest can attend for free! This offer is only good for the October 2004 - June 2005 season and the "guest for free" option will not carry over to the 2005-2006 season. The Chapter has set up a PayPal account. You may now pay for your dinner meetings using your credit card if you have a PayPal account. It's a very simple process, and the instructions are on the website at <http://www.ggashrae.org/announc.html>

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid for their dinner vouchers using PayPal. If you have any questions about this process, please contact Robert Marcial at rmarcial@berkeley.edu.

NOTE: At the Chapter meetings we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. **All credit card payments MUST go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.**

Change of Address?

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

THE GOLDEN GATE CHAPTER CANNOT MAKE THESE CHANGES FOR YOU.

In order to change your membership data, you will need your ASHRAE member number and confidential PIN number, both of which are on the ASHRAE card issued to you each year. Go to the Change of Address link of the ASHRAE website, 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)

Marble Draw

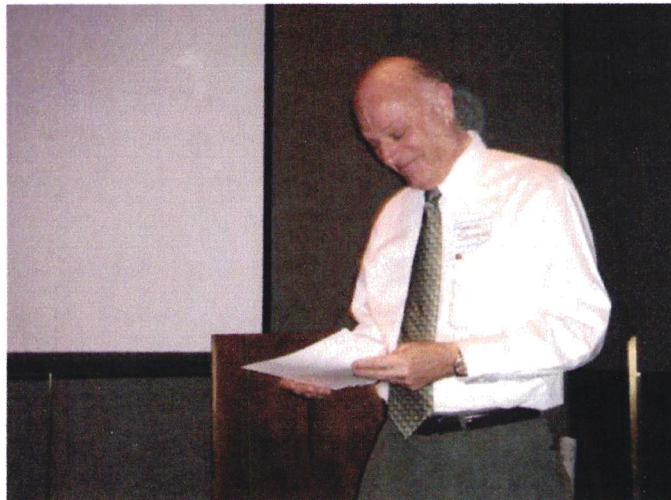
We will not have the Golden Gate Chapter Marble Draw raffle in December. The San Jose Chapter is organizing a raffle draw and seeking sponsorship for prizes. Contact John Thompson (phone: 408-282-1500, e-mail: jt@salasobrien.com) if your company is interested in donating raffle prizes. The Golden Gate Chapter Marble Draw will resume in January, and the pot is over \$500!



Above: Ben Sun with his plaque of appreciation for serving as Honors and Awards Chair in 2003-04



Above: Mary Ann Piette, the evening's speaker. She spoke on the topic of Energy Information & Control Systems for Energy Efficiency and Demand Response



Left: Steve Sprague received a life member certificate



Left: Any questions? Contact Mary Ann Piette at the following, or check out these other sites: mapiette@lbl.gov (510.486.6286)

*Demand Response Research Center
<<http://drcc.lbl.gov>>*

*Buildings Research
<<http://buildings.lbl.gov/hpcbs/Pubs.html>>*