

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/commtee.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.

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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

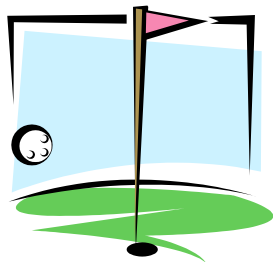
Location – Pacific Energy Center, San Francisco, CA

- 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.

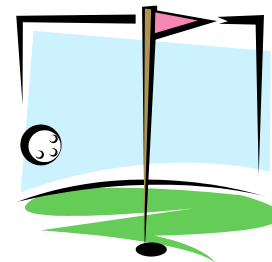
Respectfully submitted, Cory Palmer, Chapter Secretary

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



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.*