

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 8

MAY 2005

May Meeting Details

2005 Field Trip to San Francisco's Oceanside Wastewater Treatment Plant

Date: Thursday, May 12, 2005 (note the morning schedule)

Place: San Francisco's Oceanside Wastewater Treatment Plant
All attendees must meet for registration at the Pacific Energy Center, San Francisco (www.pge.com/pec)
851 Howard Street between 4th and 5th Streets

Schedule:

- 8:00 – 8:30 AM Registration and continental breakfast
- 8:30 – 9:15 AM Presentation on copper pollution in the San Francisco Bay
- 9:20 AM Depart by bus to the Oceanside plant (Great Highway, near the San Francisco Zoo)
- 10:00 – 11:00 AM Tour the plant
- 12:00 PM, Return to the Pacific Energy Center

Important note regarding security policy for the tour:

The San Francisco Public Utilities Commission requires a list of all tour attendees by Thursday, May 5. All tour attendees must also fax or e-mail a photocopy of their driver's license to Ms. Catania Galvan with the SFPUC by May 5.

Fax # 415-554-3282. E-mail: cgalvan@sfgwater.org.

Contact Cory Palmer (e-mail cpalmer@norman-wright.com) with questions or concerns about the security procedure. If you do not want to attend the tour, you may register for the presentation/breakfast only.

Cost: \$35 for members and guests reserved by Thursday, May 5
Students – No charge, but please reserve a spot
Voucher holders– No additional charge. Please reserve a spot.

Due to SF Public Utilities Commission security regulations at the Oceanside plant, no late registrations or at-the-door registrations will be accepted.

Please make your reservation via our website. Visit the Event Calendar at <http://www.ggashrae.org/calendr.htm>, click May 12, and fill out and submit the form.

May Program

Field Trip to San Francisco's Oceanside Wastewater Treatment Plant



Tom Barron, P.E.

This month's field trip to San Francisco's wastewater treatment plant starts off with a presentation on copper pollution in the San Francisco Bay by Tom Barron, P.E.

Tom Barron is a civil engineer who specializes in evaluating the impacts of building materials and chemicals upon workers who handle them, and upon the environment in general. His May presentation is about the architectural use of copper, with a particular focus on the design and installation of copper piping systems. Information about the topic is available at:

<http://www.city.palo-alto.ca.us/cleanbay/pdf/construction/installcopper.pdf>

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Golden Gate ASHRAE Field Trip to Oceanside Wastewater Treatment Plant

Fax or e-mail to: Ms. Catania Galvan, San Francisco Public Utilities Commission

Fax Number: 415-554-3282

e-mail: cgalvan@sfgwater.org

From: (Name) _____

Daytime Phone No.: _____

Dear Ms. Galvan:

Per the security policy of the San Francisco Public Utilities Commission, I am attaching a photocopy of my drivers' license or U.S. Passport.

Golden Gate Chapter President's Message, May 2005

Greetings to all the membership of the Golden Gate Chapter of ASHRAE. This will be the next to last President's message for my term in office, and I wish to thank you for the support and well wishes I have received during the year. It has been an amazing year to me for the accomplishments achieved by so many.

The April 2005 meeting was special this year for our Chapter, as it brought full circle what can be accomplished by the desire of a single college student and the efforts of our Chapter. Eric Estoista, a second-year college student at California Maritime Academy attended his first Golden Gate chapter meeting in April of 2004. He left that meeting believing that he found an Engineering Chapter with a membership that cared about its profession and supported new growth and student participation for the future of the industry. He took that message back to his classmates, and together, during these past 12 months, he was proven correct by this Chapter. The Student Chapter of ASHRAE at the California Maritime Academy became an active reality, Society gave them a Student Chapter certification, student attendance increased at meetings, and to Eric's credit, he qualified and was awarded the Eric Thor Andresen Memorial Scholarship. The Student Activities Chairperson Gary Harbison again presented the Chapter with qualified college applicants as we also awarded the Donald G. Bryant scholarship to Jiat-Hwee Chang and a third Chapter scholarship to Selina Fung Ki Lam. In addition we had 2 awards to Bay Area Science Fair students.

Did you read your March ASHRAE Journal and note on page 20, that your Chapter had more listings in the Society 2005 Technology Awards than any other in all of North America? There was one First Place winner and three honorable mentions. The Golden Gate Chapter applauds the engineering design efforts of Jeffrey Blaevoet, Steve Taylor, Jeffrey Stein and Antonio Costa as the listed applicants and their Associates and Firms who made these projects possible. The Chapter Chairperson for CTTC, Scott Wayland is also to be recognized for his efforts in the completion these submissions.

This past year has brought many mail deliveries to me, with Society congratulations and acknowledgements. I have gladly opened this correspondence as your president, but it has been a *team* effort of your Board, Chairpersons and active membership, and I thank you all for making this year such a rewarding pleasure for me.

Respectfully submitted,
Jon L. Wintermeyer, Chapter President

June dinner meeting — Save the date, June 2

Please plan to attend the June dinner meeting (with comic relief) at the Carnelian Room, 555 California Street, San Francisco. This is our annual spouses and significant other meeting, so invite a guest! Registration will be available on the Chapter web site. Our comedian is the critically acclaimed Arj Barker.



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.

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Phone: (510) 498-1171
Fax: (510) 498-1161

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.

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ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

I want to thank everyone who has donated to ASHRAE Research this year. So far we have raised \$9,000. However, our goal of \$16,000 is still a long way off! With your help I know that we can 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.

Platinum Honor Roll Investors (1,000+)
Flack + Kurtz Norman S. Wright York International Corp

Corporate Honor Roll Investors (\$250+)
Syserco

Individual Honor Roll Investors (\$100+)
Gary Harbison Robert Sonderegger

Thanks to everyone who has donated! If you have any questions or would like to donate please contact: Johanna Gustafsson, (925) 417-7218, johanna@york.com.

Student Activities

Gary Harbison

Scholarship and Bay Area Science Fair Winners were recognized at the April chapter meeting. The winners were as follows:

Eric Thor Andresen Memorial Scholarship \$1,500.00: Eric Estoista, California Maritime Academy

Donald G. Bryant Memorial Scholarship \$1,500.00: Jiat-Hwee Chang, UC Berkeley

Golden Gate Chapter Scholarship \$750.00: Selina Fung Ki Lam, UC Berkeley

Bay Area Science Fair \$100.00: Katie Meunier, Redwood High School-Corte Madera

Bay Area Science Fair \$100.00: Calvin Lai, Cornerstone Academy-San Francisco

From the Chapter Historian

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

Don C. Bryant, Sr.

It doesn't seem that long ago that Don was among us – a giant in engineering education and ASHRAE.

A native of Kansas, Don died in 1999 at age 89. Some of us knew his wife of 51 years, Alice, and offspring Barbara, Katy, Don, and Robert. Don Sr. and Alice were active in the Boy Scouts of America, where both sons became Eagle Scouts, for over 30 years.

Don's career as an educator began in 1927 in a one-room schoolhouse. He was a gunnery officer during WWII in the South Pacific. He retired as a Commander in the USNR in 1969.

In 1946 he joined the faculty of the City College of S.F. (CCSF) and the U.C. Extension program. In the 1950s he began teaching the first in a series of HVAC&R classes. These courses later formed the basis of U.C. Extension's HVAC-R Program, a curriculum that is professionally recognized by a certificate from our chapter. This program was so successful that similar programs were adopted by the Sacramento Chapter with U.C. Davis and the San Jose Chapter with U.C. Santa Cruz.

U.C. Extension presented Don with its Honored Instructor Award that reads "His contributions to the teaching of the science and technology of engineering read like a chronicle of the profession's concerns and growth from the postwar training era through the development of nuclear energy to the age of energy conservation."

Don was a Life Member and Fellow of ASHRAE and Emeritus Faculty at CCSF. He was awarded the Society's Distinguished Service Award.

He was instrumental in forming the Society's Continuing Education Committee (and was a member), was chair of Society's Education Committee and was a trustee for the national scholarship fund.

Many of us remember Don fondly as a dedicated engineering educator, a true gentleman and a good friend. We now honor him with our Don C. Bryant, Sr. Memorial Scholarship Fund for our student members.

Thanks, Don!

(Information from the author's recollection, articles in Dec. 1989 and March 1999 Fog Dispensers and writings by his daughter Katy and Mark Hydeman).

2005 ASHRAE Product Show Report

Dan Droubay

ASHRAE would like to thank the following exhibitors who contributed their time to this year's product show:

Advanced Cooling Tower Technologies
ASHRAE
Bayside HVAC Products
Belimo Aircontrols
CaliforniaHydronics
Hydronic Specialties Company
Norman S. Wright
Northern California Mechanical Contractors Association
Pacific Gas and Electric
R. F. MacDonald
Siemens Building Technologies
Stalzer Sales
York International

During the evening we raffled over \$600 in great prizes, including gift certificates to Nordstrom's and Macys. We had a great turnout at this year's tradeshow, and we would like to again thank all those who came, and especially those who contributed to the show's success.

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)

2004-2005 Golden Gate Chapter Technology Awards

Congratulations to this year's Technology Award winners from our Chapter!

Category I - Commercial Buildings – Existing

1st Place – Cogeneration Plant for One Market Plaza, Craig Corson, Glumac International

Category V – Public Assembly – New

1st Place – Santa Clara Central Park Library, Steve Guttman, Guttman and Blaevoet Consulting Engineers

Category V – Public Assembly – Existing

1st Place – Kelso Depot Visitors Center, Steve Guttman, Guttman and Blaevoet Consulting Engineers

Minutes of GG Chapter Meeting April 7, 2005

Pacific Energy Center, San Francisco

- The annual trade show started at 5:00 PM. The following companies exhibited:

Advanced Cooling Tower Technologies	Northern California Mechanical Contractors Association
ASHRAE Table	PG & E
Bayside HVAC Products	R. F. Macdonald
Belimo Aircontrols	Siemens Building Technologies
California Hydronics	Stalzer Sales
Hydronic Specialties Company	YORK International
Norman S. Wright	
- Dinner was served at 6:30 PM.
- Following dinner were self introductions by members and Guests of the Golden Gate Chapter.
- President Jon Wintermeyer started the announcements at 7:15 PM.
- The next Golden Gate ASHRAE chapter meeting is the annual field trip to the Oceanside Wastewater Treatment Plant, Great Highway, San Francisco on Thursday, May 12. The meeting will begin and end at Pacific Energy Center at 8:00 AM with breakfast and finish back at the Pacific Energy Center by 12 noon.
- Our following Golden Gate Chapter meeting is the annual spouses meeting on Thursday, June 2 at the Carnelian Room. Please invite your spouse or significant other. The comedy for the evening's entertainment is Arj Barker
- Kirk Peterson, Golf Chair announced that the Golden Gate Chapter Golf Tournament is on Friday, July 8 at the Boundary Oaks in Walnut Creek.
- Edgar DeGuzman pleaded with everyone to support ASHRAE Resource Promotion. Research Promotion Chair Johanna Gustafsson reported the goal for the Golden Gate Chapter donations this year is \$16K and so far we have raised \$9000. She has just received checks from Flack and Kurtz for \$1,000, Norman S. Wright for \$1,000 and York \$1,000. Donators are recognized on the meeting table cards. Johanna Gustafsson is looking for a sponsor for \$250 for the next Fog Dispenser.
- President Jon Wintermeyer recognized Dan Droubay for his hard work in putting on the very successful and well-attended Golden Gate ASHRAE Product Show at the beginning of the meeting along with the presenters who were there and sponsored the drink tickets and raffle prizes.
- Secretary Glenn Friedman reported the election results:

Past President:	Jon Wintermeyer
President Elect:	Glenn Friedman
Secretary:	Debbie Marshall
Treasurer:	Robert Marcial
Second Year:	Jeff Blaevonet
First Year:	Scott Wayland
- 7:25 PM we took a fifteen minute break.
- Gary Harbison, Golden Gate ASHRAE Chapter Student Activities Chair presented the Golden Gate ASHRAE Chapter 2004-2005 Student Scholarship Awards:

Eric Estoista, California Maritime Academy, won the Eric Thor Andresen Memorial Scholarship, \$1500
Jiat-Hwee Chang, UC Berkeley, won the Don Bryant Memorial Scholarship, \$1500
Selina Fung Ki Lam, UC Berkeley, won the ASHRAE Golden Gate Chapter Scholarship, \$750
- Gary Harbison then presented the Golden Gate ASHRAE Chapter Science Fair Awards to Katie Meunier and Ting Kwan (Calvin) Lai for their entries for this year's San Francisco Bay Area Science Fair. Both students receive \$100 prizes.

Minutes of GG Chapter Meeting April 7, 2005 – continued

- Marlene Vogelsang presented the PG&E Pacific Energy Center's Science Fair Special Energy Awards
 - Brendan Lum: Does Angle of Incident Affect Solar Cell Efficiency?
 - Lindsay McHugh: Insulation Valve: Straw vs. Modern Insulation Techniques
 - Danielle Hollywood: Wind City
 - Vasco Morais: The Effect of Temperature on PEM Hydrogen Fuel Cell Efficiency
- PaJon presented the Golden Gate ASHRAE Chapter Technology Awards on behalf of Scott Wayland, CTTC Chair:
 - Category I - Commercial Buildings – Existing
 - 1st Place – Cogeneration Plant for One Market Plaza, Craig Corson, Glumac International
 - Category V – Public Assembly – New
 - 1st Place – Santa Clara Central Park Library, Steve Guttman, Guttman and Blaevoet Consulting Engineers
 - Category V – Public Assembly – Existing
 - 1st Place – Kelso Depot Visitors Center, Steve Guttman, Guttman and Blaevoet Consulting Engineers
- The meeting adjourned at 9:10 PM.

Employment Opportunities

Associate Engineer: Energy Analyst - San Francisco

This position is for entry level professional work. The analyst will be expected to provide assistance in quantifying the benefits of various building energy efficiency measures using a variety of energy simulation tools. A strong commitment to and a holistic understanding of whole building and mechanical systems is essential, as are good writing skills. For details please visit the following webpage:

<http://www.archenergy.com/aboutaec/employment/energyanalysts/>

Inside Sales/Support Representative

A fast-paced, innovative company dealing with specialized products in the HVAC industry, our company produces pre-fabricated pumping and heat transfer systems for commercial building projects.

Immediate opening for someone with the following qualifications:

- 5 years service and/or sales experience in hydronics equipment and applications (or highly related field) with an understanding of the basic components involved such as plumbing, boilers, pumps, valves
- a basic level of comprehension of mechanical engineering and math skills is required and technical ability to gather customer requirements and propose appropriate products and/or solutions.
- ability to clearly communicate technical and non-technical information to customers and company staff, both verbally and in writing is an essential.

Fax resume to (510) 264-3499 or email to: hr@calhydro.com

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California Hydronics Corp., located in Hayward, CA, is an Equal Opportunity Employer and does not discriminate because of Race, Religion, Color, Age, Gender, Marital Status, Sexual Orientation, National Origin, Physical or Mental Disability or Vietnam Era or Disabled Veteran Status, or any other categories protected by law.

Mechanical/Plumbing Engineer

Esfahani Consulting Engineers is an Electrical, Mechanical Engineering firm located in east bay. We are looking for a mechanical/plumbing engineer as an associate with minimum 15 years experience in commercial, educational and multi-unit residential type of projects. The candidate must have an accredited mechanical engineering degree with a professional engineering license in California. The individual must also be self driven, open to new challenges and be fully computer oriented. Please email your resume to mail@esfahani.us or call 925-556-0691.

Mechanical Engineer

MHC Engineers Inc. is a Mechanical Engineering Consulting firm located in downtown San Francisco. We have immediate opening in our SOMA office for a Mechanical Engineer with a minimum of 3-5 year of experience in residential, commercial and industrial HVAC, plumbing and fire sprinkler design.

Candidate should hold BS degree in ME, good verbal and writing communication skill, proficient in AutoCAD, team player and work under tight schedule.

MHC Engineers Inc. offers competitive salaries, benefits, and great potential for dedicated engineers.

Please sent resume to Meng Hsiu Chen at mhcenr@pacbell.net or fax (415) 512-7120.

Employment Opportunities – continued

Engineering Project Manager

QuEST, Inc. provides a collaborative, collegial environment in which individuals contribute to project teams to provide services to clients desiring to improve energy utilization in their facilities. Services include energy audits & feasibility studies, retro-commissioning, & load-management services.

Requires BS in Engineering and 8-12 years related experience – Masters degree a plus. Works w/clients to identify energy savings opportunities in buildings. Conducts, & manages engineering staff performing energy audits in commercial & industrial buildings. Troubleshoots systems using various data collection techniques & diagnostic tools. Prepares written analysis of findings & presents recommendations for improvement in energy efficiency. Oversees work of subcontractors & responsible for delivering projects on time & within budget.

Please submit cover letter, resume & salary requirements to:

Quantum Energy Services & Technologies, Inc.

2001 Addison St. Suite 300

Berkeley, CA 94704

Job Code: EPMASHRAEGG

Email resumes@qcworld.com or fax (510)540-7268

Photos from Golden Gate Chapter April meeting and annual product show



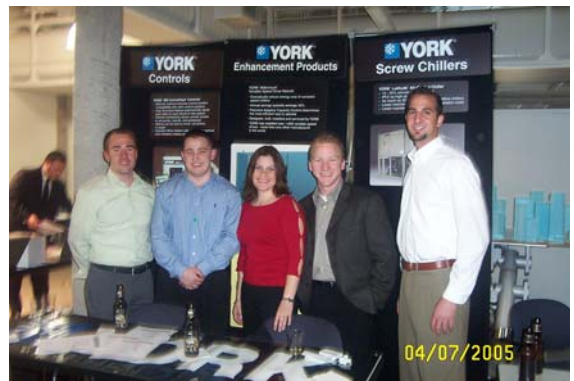
Left: Ken Mozek, Jeff Blaevoet, Johanna Gustafsson

Right: Ben Sun and Mike Scofield



Left: Rory Moore, Karl Guttman, Steve Guttman, Dennis Thompson

Right: The York Product Show exhibitors



Left: Calvin Lai, one of the Science Fair award winners

Right: Steve Guttman discusses his Technology Award projects



Left: Jon Wintermeyer, Gary Harbison, and scholarship winner Selina Fung Ki Lam

Right: Eric Estoista, recipient of the Eric Thor Andresen Memorial Scholarship



