

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 4

JAN 2005

January Meeting Details

Our only *lunch* meeting of the year!

Date: Thursday, January 13, 2005

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:

11:30 AM - 12:00 PM - Registration
12:00 - 12:40 PM - Lunch with
Announcements and Introductions
12:40 - 12:50 Break
12:50 - 1:30 PM Main program

Cost: \$35 for members and guests reserved by
Monday, January 10 at noon

Students – No charge, but please reserve a
spot
Voucher – No additional 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
January 13, 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.

January Program

Current HVAC Design Issues in Data Centers



John Pappas, P.E., Mazzetti & Associates

Power density in data centers continues to rise, creating new challenges for HVAC designers and encouraging the development of new system and equipment technologies. Using tools like thermo-cameras to understand thermodynamics within a data center, we can better understand, with regard to power density, where we have been, where we are now, and where we are going. Most facilities do not have the option of “starting over” with their cooling systems as power density in the space increases, so we will present data center cooling schemes that address most all of the issues and can be implemented at existing facilities.

Continued on page 2

Golden Gate Chapter President's Message, January 2005

A Happy New Year to the Members of the Golden Gate Chapter as we get ready to enter the year of 2005. This past year my family and I experienced a year filled with sadness, memories, excitement, adventure and hard decisions. Still through it all I can reflect back on some personal growth and learning experience. In *The Lion King* movie is a song titled "The Circle of Life", and last year my life contained a piece of my circle with things I dreamed of as a child and others that I had dreaded for years coming to pass as an adult.

Last year two very special women in my life, my mother and mother-in-law, passed away within 55 days. In the middle of these events, I represented Golden Gate Chapter as Delegate to Region X at the CRC for three days, and my wife and I took a two week vacation to Ireland that we had been trying to schedule for years. These mothers of many children had come full circle in their lives and were now being cared for by their children, now adults and the time had come to say goodbye. Both were well known and loved by many and will be dearly missed. When these times occur do we always acknowledge that we experience personal growth as life goes on. As Delegate, I experienced other types of learning and understanding from attending the CRC programs and learning about ASHRAE history and goals. While on vacation I discovered some family history and adventure in a country of some of my ancestors. Then came the September Red Sox, a team of my childhood with an unfilled destiny that came to a successful finish in October. The excitement of this victory was never known by my parents' generation, but still they believed and passed on that dedication to their families.

There really are many pieces to our own circle of life, whether we realize it or not. All these times during the past year I learned how hard it is for dying family members to say good bye to the living and the difficult decisions that we the child/adult must make now as the caregiver to our parents. In Ireland I discovered where some of my ancestors came from and walked their land and visited the foundations of their homes. "You came from hardy stock" my distant cousins told me, and when I walked the local cemetery to view family markers and read life spans I understood. When I arrived in the town they sailed from to come to the United States and visited the museum and local displays of what conditions were like aboard these ships, I saw how rough the trips were, but I also came to see where my sense of adventure and love of travel genes came from. I learned at CRC how much hard work and effort is volunteered annually by ASHRAE members to make our Society strong from our local Chapters to the many Regional Groups to Society and all of our technical and research committees. In the fall I learned that anything is possible with teamwork and desire, no matter what the odds are against you. If you believe you can do it, go for it.

Make 2005 the year you experience more from life. Get involved, take a trip, join or support a team, spend more time with elder members of family and allow yourself to broaden and enrich your own circle of life.

Respectfully submitted, Jon L. Wintermeyer, Chapter President

January Program continued

ASHRAE has made great strides in facilitating consensus among manufacturers in terms of classifying equipment environmental requirements, standardizing measuring and monitoring points, defining equipment room airflow, and the way in which manufacturers report and catalog equipment performance.

The designer should understand the importance of balance between energy efficiency and operational reliability. Several example projects clearly show compromised reliability, especially considering the additional risks associated with high-density cooling. In comparing systems, there are important limitations inherent in each system that should be weighed by the designer and often the facility owner.

John Pappas biography

John Pappas was educated at California Polytechnic State University in Environment Engineering with an emphasis in HVAC and solar design, and is a registered engineer in 47 states. Presently, he is a Principal of Mazzetti & Associates in San Francisco, a 100 person engineering design and consulting firm with offices throughout California, and practicing worldwide.

Continued on page 3

John Pappas biography, continued:

He has had the pleasure of working in both the construction and consulting engineering fields for the past 23 years. During his career, John has developed and implemented substantial and complex work for a broad range of clients in the corporate, mission-critical, health care, laboratory and higher education industries with projects ranging over \$300M in total construction.

For the past twenty years, John has focused his efforts on the conception, business case justification, design, implementation, testing and operation of mission-critical facilities. He has served such clients as MasterCard, Microsoft, Apple, EDS, Goldman Sachs, Visa International, Equinix, Washington Mutual, Intuit, Kaiser Foundation Hospitals, Silicon Graphics and 3Com. John pioneered the development of cooling systems for high-density data centers exceeding 200 W/sf. He is a regular participant and speaker at the 7x24 & AFCOM conferences and has participated in mission-critical focus group discussions such as at the Rocky Mountain Institute. He is also a member of the 7x24 Northwest Chapter Exchange Server Work Group, exploring future trends in server technologies and alternative cooling systems.

From the Chapter Historian

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

Golden Gate Chapter – Cal Poly ~~Workshop~~ "Workshop"

The Chapter had a program that funded grants to Cal Poly, San Luis Obispo HVAC students for working on special projects directed by the Cal Poly engineering faculty.

I think it began when Tom White wrote a letter to Chapter President Jack Kniveton in late 1963. Since the Chapter required Society's approval for such a contractual venture, Dick Friedman, the chairman of the Chapter's Education Committee, communicated in writing with Society headquarters in late 1963. He also contacted Cal Poly. In mid-1965 Society approved our Workshop. Also, in mid-1965, Chapter President Gus Gendler signed an agreement with Cal Poly to provide not less than \$500 per year to the students.

Jim McGrath, Head of AC&R, created the Workshop program at the school. Other Cal Poly staff involved included Rod Keif – instructor, Julian McPhee – President, Harold Hayes and Dale Andrews – Deans of Engineering and John Hirt – Acting Dean.

My contact was unofficial and was with Rod Keif. At Society meetings he & I would sometimes visit, over lunch, about both educational and practicing aspects of HVAC engineering. Thanks, Rod.

The HVAC students would visit San Francisco annually to attend a Chapter meeting and tour selected building HVAC systems. Rod Keif and others would lead these trips.

Funding for the Workshops came first from individual member donations and this later evolved to Chapter donations. The donations ranged between \$700 and \$1500 in the late 60s and early 70s.

The program lasted until at least 1987 (i.e. 22 years or more). Its demise is attributed to a declining school emphasis on HVAC as a unique program, faculty retirements, etc.

But, it was great while it lasted!

(Information from the Chapter Historian's records, from Dick Friedman and from the author's memory.)



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Fax: (510) 769-0702

Air Treatment Corporation Proudly Supports ASHRAE Research.

ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

Have you used your ASHRAE handbook 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 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 me. I want to make sure to recognize everyone who has donated!

Corporate Honor Roll Investors (\$150+)

Air Treatment Corporation

Individual Honor Roll Investors (\$100+)

Richard Yates
Johanna Gustafsson

Thanks to everyone who has donated!

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

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 2005 Chapter Technology Award Competition entries will be due to the CTT Committee by the end of 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>

Contact Scott Wayland if you have any questions.

ASHRAE News <http://www.ashrae.org/template/AboutLinkLanding/category/1584>

ASHRAE to Host Satellite Broadcast on Mold:

<http://www.ashrae.org/template/AssetDetail/assetid/37084>
<http://www.ashrae.org/template/AssetDetail/assetid/37629>

Mold Control will also be a strong focus at the ASHRAE 2005 Winter Meeting:

<http://www.ashrae.org/template/AssetDetail/assetid/37729>

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

The Student Activities Committee, which includes Co-Vice-Chairpersons Brett Wright and Shruti Narayan want to take "ASHRAE-to-the-Classroom" starting in January 2005. As part of this outreach, we want to solicit members' input on contacts at Bay Area elementary and high schools, where we can participate in science classes or career days, as the case may be.

As an advance notice, the February meeting will be the official, unofficial student night, and I know we all look forward to that. Any comments or suggestions, please contact me at gharbison@calhydro.com or phone: 510-266-7806

Minutes of Combined San Jose and Golden Gate Chapters Meeting December 9, 2004

San Mateo Marriot

- 5:00 PM there was a pre-meeting Technical Session held by Frank Wegener, P.E., on Field-Erected Fiber Glass Cooling Towers.
- Dinner was served at 6:15 PM.
- Following dinner were self introductions by members and Guests.
- Dick Friedman was presented with an ASHRAE Society 50-year member award from President Jon Wintermeyer.
- Gary Harbison received a Chapter Certificate of Appreciation for his work as the Student Activities Chair for the 2003-2004 year.
- The Chapter seminar this year will be held at the PEC at the end of February and the topic is Mold. Check the website for details.
- Bill Carmody, the Regional Vice Chair for Resource Promotion, discussed ASHRAE research. The name Research Promotion is returning. The future may involve the Research Promotion Chair position nominated for three years, rather than the current one year. He discussed society's goals of increasing the resource promotion goals.
- Grant Paedon, San Jose Chapter President, announced annual bocce ball tournament. Elimination tournament with cash prizes.
- Announcements were made about upcoming meetings for both chapters.
- There was a short break and then the meeting feature presentation on Commissioning was started with Program Chair Cory Palmer making the introductions for our three distinguished panelists Mark Levi, GSA, David Sellers, PEI, and Steve Guttman, Guttman & Blaevoet and Glenn Friedman who served as moderator.
- Following the panel presentation on Commissioning, there was the prize raffle conducted by Grant Paedon for the San Jose Chapter.
- The meeting adjourned at 9:30 PM.

Respectfully submitted, Glenn Friedman, Chapter Secretary

ASHRAE GOLDEN GATE CHAPTER - LUNCH RESERVATION

For Thursday, January 13th

Reservations

Please reserve prior to **Monday, January 10th at noon.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on January 13, 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 **January 10th.**

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.**

Marble Draw

The Golden Gate Chapter Marble Draw will resume in January, and the pot is over \$500!

2004/2005 Golden Gate Chapter Seminar

Avoiding Indoor Air Quality Problems in Marine Climates

Date & Time: Monday, February 28, 2005 (9:00 a.m. to 4:00 p.m.)

Location: Pacific Energy Center, 850 Howard Street, San Francisco
(Between 4th and 5th Streets)

Speaker: Joseph Lstiburek, B.A.Sc., M.Eng., Ph.D., P.Eng.

Please visit <http://ggashrae.org/seminar/> for registration and payment options.

Note that attendance is limited to 45 people total, so please reserve your spot today!

Program Description:

California has one of the largest spread in climates of any state in the union—from the hot, dry desert to the cold alpine climate—but most of the people in the Golden State live at or near the coast in what is known as the marine climate. The California marine climates are mild and often have low HVAC requirements to provide comfort, but the same qualities that make them relatively comfortable can make them difficult to design in from a moisture durability perspective.

Designing and constructing buildings in marine climates is difficult for two main reasons: the miserable climate and the lack of relevant information. Most code, manufacturer, supplier and professional literature presents a cold climate basis (“cold climate chauvinism”).

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 presentation common industry practices are challenged and turned on their head.

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.

While the focus of this presentation will be on the marine climates, comparisons will be made with other climates of interest. Building problems and their solutions will be related to operational concerns and monetary constraints. Case studies will be utilized to illustrate the key issues.

Joseph Lstiburek biography:

Joseph Lstiburek, B.A.Sc., M.Eng., Ph.D., P.Eng., is a principal of Building Science Corporation. He is a forensic engineer who investigates building failures and is internationally recognized as an authority on moisture related building problems and indoor air quality. He is a member of ASTM and the past chairman of ASTM E241 - Increasing the Durability of Building Assemblies from Moisture Induced Damage. He is a contributor and reviewer of several chapters of ASHRAE Fundamentals. He is a voting member of ASHRAE SSPC 62.2 – Ventilation for Acceptable Indoor Air Quality. He is also a voting member of ASHRAE Technical Committee 5.12 Ventilation Requirements and Infiltration and ASHRAE Technical Committee 4.4 Building Materials and Building Envelope Performance.

Dr. Lstiburek has appeared on PBS NOVA (“Can buildings make you sick?”) and is the author of numerous books and technical papers on building science, indoor air quality and durability.

Continued on page 9

Joseph Lstiburek biography, continued:

He is the author of the U.S. DOE Handbook on Moisture Control and a special contributor to the EPA guidance document on Building Air Quality: A Guide for Building Owners and Facility Managers. He is one of the world's foremost authorities on energy efficient construction techniques and heads one of the four the Building America program teams for the U.S. Department of Energy. He is the developer of ADA (the Air Drywall Approach to air barriers) and a building science researcher affiliated with the Centre for Building Science, University of Toronto. He is a former Director of Research of the Housing and Urban Development Association of Canada.

Dr. Lstiburek has written numerous books and technical papers on building construction. He is the best selling author of the Builder Guides and has over 50 technical and journal articles to his credit. He has conducted forensic investigations and served as an expert witness on building failures all over the U.S. He is an expert in the areas of rain penetration, air barriers, vapor barriers, air quality, durability and construction technology. He specializes in rain damage and mold and microbial contamination of buildings.

Dr. Lstiburek is an acclaimed public speaker and lecturer in building science. His seminars and presentations on building durability issues are attended by hundreds of architects, engineers, builders, and property managers in the United States each year. He previously concluded a 75 city tour on behalf of the Environmental Protection Agency and the Building Owners and Managers (BOMA) conducting seminars on Preventing and Mitigating Indoor Air Quality Problems.

Dr. Lstiburek received an undergraduate degree in Mechanical Engineering from the University of Toronto, a masters degree in Civil Engineering from the University of Toronto and a Doctorate in Building Science at the University of Toronto. Dr. Lstiburek has been a licensed Professional Engineer since 1982.

Cost	Current ASHRAE Member*	Non-ASHRAE Member
On or before 2/14	\$225	\$250
2/15 or later	\$250	\$275

Registrations after February 26 will not be accepted.

The fees above include entry to class, class handouts, morning and afternoon appetizers, and lunch.

Payment options:

1. Pay on-line with credit card through . You can link to PayPal from the seminar page.

Learn more about PayPal on our "Announcements" page: <http://ggashrae.org/announcr.html>

2. Send check for appropriate amount to:
Debbie Marshall
c/o Sulzer Pumps Houston Inc.
845 92nd Ave, Oakland, CA 94603

Make check payable to *GGASHRAE Seminar*.

For more information on this year's seminar, please e-mail Max Sherman: MHSherman@lbl.gov

Employment Opportunities and Announcements



Taylor Engineering is looking for an experienced plumbing design engineer to join our team. We specialize in innovative large building design. Recent projects include the UC Merced Office/Classroom, UC Merced EMCS, Electronic Arts II in Redwood City, US Treasury in Emeryville, and Pixar II in Emeryville. Prospective candidates must be proficient and have a minimum of 8 years experience in plumbing and fire sprinklers design with experience in specifications writing and fee estimating, design/build, and field experience are desirable. Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Excellent work environment in Alameda. High salaries for top performers.

Please send resume to Bill Stahl, Taylor Engineering, 1305 Marina Village Parkway, Suite 101, Alameda, CA 94501-1028. Fax: 510-749-9136. E-mail bstahl@taylor-engineering.com

Photos from the combined San Jose and Golden Gate Chapters meeting in December.



Above: Gary Harbison receives his certificate from Jon Wintermeyer



Above: Thanks again to everyone who donated the raffle prizes!



Above: Cory Palmer introduces the panel members



Above: Panel discussion on commissioning – a popular topic

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 5

FEB 2005

February Meeting Details

A joint meeting with the U.S. Green Building Council's Northern California Chapter

Date: Thursday, February 3, 2005

Place: Scott's Seafood, Oakland
2 Broadway, Jack London Square,
Oakland
On-site valet parking, or self parking at
Jack London Square

Schedule:

5:30 PM - 6:30 PM: Registration and Social
6:30 - 7:30 PM: Dinner, Announcements
and Introductions
7:30 - 7:45 PM: Break
7:45 - 8:45 PM: Main program – Panel
Discussion

Cost: \$35 for members and guests reserved by
Monday, January 31 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

Please make your reservation via our website.
Visit the Event Calendar at
<http://www.ggashrae.org/calendr.htm>, click on
February 3, 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.

February Program



Panel Discussion on Operable Windows

Panelists:

Andres Anaya, Hewlett Foundation

Bill Bocook, AIA, B.H. Bocook Architect, Inc.,

Kailasam Senthil, P.E., Critchfield Mechanical

Sharon Refvem, AIA, Hawley Peterson & Snyder
Architects

Moderator:

Jon Wintermeyer, P.E., Contra Costa County
Superior Court

The annual joint meetings between Golden Gate ASHRAE and Northern California Chapter of U.S. Green Building Council have been tremendously successful, and we look forward to another interesting meeting focused on a timely topic. We expect a diverse audience of architects, engineers, students, and building owners/managers. Registration is limited to 150 people, and past meetings have exceeded this number. Please register early!

This panel discussion on operable windows will focus on a specific local project: The William and Flora Hewlett Foundation building in Menlo Park, California. The project architect, design/build mechanical contractor, and facilities supervisor will answer questions pertaining to their experiences with this building and with operable windows in general. A detailed description of this LEED 2.0 gold-level certified building will be presented first as background information.

Continued on Page 3

Golden Gate Chapter President's Message, February 2005

Are you proud of who you are and what you do in your profession? Your engineering skills can allow you to be both creative and innovative in designing what has not been tried before. Or are you simply working with old designs with the ultimate goal being a paycheck and not making errors? There is a good kind of pride—we tell our children to work hard and many bumper stickers tell the world how proud the parents are for what their child accomplished. When you look back over your past projects of the last few years, are you not proud at what you and your design team achieved in satisfying your clients and engineering a system that performed as promised to meet the needs of their building? If you and your design team can say that you are, then you should take pride in that. Back in Boston during the 60's and 70's when the Boston Celtics were the best in NBA, they had a creed called "Celtics Pride". It was the way they all played for the good of the team and assumed whatever role was theirs to play on any given night to be competitive against their opponent towards a victory or at least a well-played loss.

Because you and your design team have been performing your engineering work this way, be proud of it and contact Scott Wayland about getting an application for the 2005 Chapter Technology Awards and submit it to the CTT Committee in February for review. In the last few years, Golden Gate Chapter has made numerous submittals of the local Design teams selected to go on to the Region X CRC for further reviews and regional awards. This past year a Golden Gate Chapter Firm's designs submitted by our Region X has been recognized for a Society Award which will be presented in Orlando, Florida at the ASHRAE Winter meeting in February. These Firms and their Clients are willing to open themselves up to review by their peers in the HVAC industry and take pride in their expertise and design skills.

What better reward in our profession than to be recognized by your peers and Society for your design accomplishments. Make 2005 the year that you and your design team step up and submit one or more of your design projects for a possible award. Take pride in who you are as a Design Professional.

Respectfully submitted, Jon L. Wintermeyer, Chapter President

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).

February Program continued – Operable Windows

Operable windows offer benefits and challenges to the occupant and designer. Compared to buildings with traditional fixed windows, facilities with operable windows offer individual comfort control and, typically, increased occupant comfort. However, operable windows present a unique set of design, operation, and maintenance issues. Designers must resolve control issues between mechanical and natural ventilation systems. Occupants should be aware of the potential effects to overall building efficiency of operable windows, so occupant education becomes very important. These and other issues will be discussed and debated. The panel will also take questions from the audience.

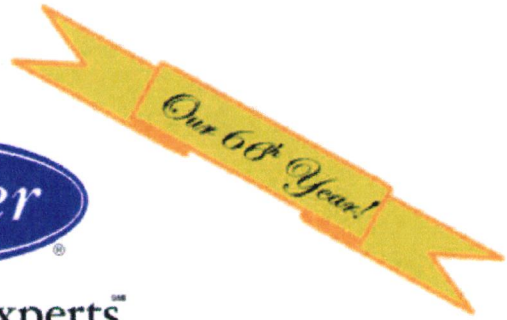
Andres Anaya is Facilities Supervisor for the Hewlett Foundation. He has first-hand experience with the HVAC system and operable windows at this facility.

Bill Bocook, AIA has been responsible for more than 4 million square feet of low and high-rise office, commercial, and retail structures since the early 1960's. He established his own firm in 1983, specializing in garden office and residential projects. B.H. Bocook Architect, Inc. is an established California architectural firm with over thirty-five years of experience in master planning and design of facilities, and senior housing. Licensed in the states of California, Washington D.C., and North Carolina, NCARB certified, and a member of the of the American Institute of Architects, B.H. Bocook has been acknowledged with design awards and recognized with articles and sketches in local and national periodicals. The firm's reputation is built on providing buildings that are creatively design not only for today, but for the long term.

Kailasam Senthil has been with Critchfield Mechanical Inc. (CMI) for over twenty years and currently serves as a Project Executive. He joined CMI immediately after graduating from the University of Kansas with a MS degree in Mechanical Engineering specializing in heat transfer & fluid dynamics. He has extensive experience in the design and construction of many building types including convention centers, higher education facilities, museums, healthcare, laboratories and green buildings. Kailasam is a registered Mechanical Engineer, Member of SMACNA's seismic restraint task force, and is a LEED accredited professional.

Kailasam has led many of the company's major projects, including: Colorado Convention Center, Natural Resources Building in Olympia, WA- an early green building, Gates Computer Science building at Stanford (with operable windows), and the Hewlett Foundation.

Sharon Refvem, AIA is an Associate with Hawley Peterson & Snyder Architects and is co-leader of the HPS - Sustainable Resource Group. She has served as Project Architect on several of the firms' projects, including projects for the City of Santa Clara, the David and Lucile Packard Foundation, the William and Flora Hewlett Foundation, and the Palo Alto Medical Foundation. Ms. Refvem is involved in a number of groups and tasks in an effort to advance the practice of Sustainable Building. She serves as Vice-Chair on the Executive Board of the U.S. Green Building Council's Northern California Chapter and is a LEED Accredited Professional.



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Dick Barclay
Ron Eng
Tim Ireland
Tony Loretelli

South San Francisco
650.873.1660

Dan Bollman
Damian Espinosa
Jesson Joy

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M.W.Sausse' • Magic Aire • Mars • Mason West • MicroMetl • Mitsubishi • Payne • RACAN
Scott Springfield • Steril Aire • Sterling • Sun Manufacturing • Symcom • Toshiba • Uni-Products

ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

At the monthly meetings please take notice of the table cards. The cards list all individual and corporation honor roll donors for this year.

We have reached 28% of our chapter's annual goal for Research. Please remind your colleagues and clients that 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 are your donation dollars at work! Every dollar donated to research goes to support ASHRAE Research.

The following individuals and corporations have donated on the honor level in the last month. If you have donated and have not been recognized please notify me. I want to recognize everyone who has donated.

Corporate Honor Roll Investors (\$250)

EB Ward & Company

Individual Honor Roll Investors (\$100+)

Thomas Reinarts
Jon Malkovich

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.

Chapter Technology Transfer Committee

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

2005 Chapter Technology Awards

Applications for the 2005 Chapter Technology Award Competition entries are due to the CTT Committee by the end of February. Please visit the chapter technology transfer website at <http://ggashrae.org/cttc/> (or navigate via the 'committees' page) for more information. You can also contact Scott Wayland with questions at sewayland@comcast.net

Student Activities

Gary Harbison

For the next chapter meeting in February, we will be inviting students from the local schools to join us. I would like to ask the membership to both help welcome and support a student at this meeting.

We had no student applicants for the travel grant(s) to Orlando ASHRAE winter meeting. I will make note to post the application on our website and advertise earlier next year.

The Bay Area Science Fair judging will be March 17th at the Hall of Flowers in Golden Gate Park. We have experienced judges for the task, but if any of the membership is keen on being a judge, we would welcome your participation. Kindly let me know your interest at gharbison@calhydro.com or phone: 510-266-7806.

Region X Student Member Scholarship Contest

Region X has sponsored a \$1,000 scholarship for ASHRAE student members within Region X. The application criterion for each student member is to write an article on the topic: "Describe one of your school projects or lessons learned that relates to the field of HVAC&R." The article must be related to an HVAC&R concept with an eye-opening conclusion or recommendation. The length of the article is not of significance. The short-listed applicants will be interviewed by telephone. Faculty advisors may also be contacted for further discussion. The deadline for applications is March 5, 2005. The article and winner will be announced in the Region X newsletter, and may also be announced in the *ASHRAE Insight* newsletter. This is a Region X activity only, and ASHRAE headquarters need not be contacted. The contact at Region X is Hank Bagheri.

Student Activities RVC, Region X

Hank Bagheri, P.E.

(949) 824-9364

(714) 996-7123

(949) 824-8096 Fax

hbagheri@aol.com

hbagheri@uci.edu

Minutes of the Golden Gate Chapter Meeting January 13, 2005

Carnelian Room, San Francisco

- Lunch was served at 12 Noon.
- Following lunch were self introductions by members and Guests.
- Jon Wintermeyer started the announcements at 12:35 PM
- Allan Daly and Mark Hydeman announced the University of California Extension HVAC Certificate Courses. Links to the courses shall be posted on the Golden Gate Chapter ASHRAE website.
- The Chapter seminar this year will be held at the PEC on Monday, February 28, 2005 and the topic is Mold. Check the website for details.
- Johanna Gustafson announced the current level of Golden Gate Chapter research donations. As of this month the Golden Gate Chapter joined the Golden Circle with ASHRAE when all of the Chapter Board Members made Resource Promotion donations.
- Jon Wintermeyer announced the upcoming CTTC technical awards applications and encouraged everyone to participate.
- Kirk Peterson announced the date for this year's Golden Gate Chapter Golf Tournament on July 8, 2005.
- The next chapter meeting is a combined dinner meeting with the USGBC in Oakland at Scott's Seafood with a Panel Discussion on Operable Windows on Thursday, February 3. Check the chapter website for details.
- The feature presentation on Current Challenges and Trends in Data Center HVAC Design. Glenn Friedman introduced the speaker, John Pappas, Principal, Mazzetti and Associates.
- Following the presentation there was the prize raffle conducted by Kristin Vogt. The prizes were donated by Mazzetti and Associates, Advanced Cooling Tower Technologies and York.
- The meeting adjourned at 1:45 PM.

Respectfully submitted, Glenn Friedman, Chapter Secretary

Sustainable Products Program Training Session—Feb 2-3

U.S. GBC – Northern California Chapter

This training session, entitled “Manufacturing, Purchasing, Designing, Marketing, and Specifying Sustainable Products” is sponsored by USGBC – Northern California Chapter, City of San Francisco, and the Institute for Market Transformation to Sustainability. This event will take place February 2-3, 2005, at the Presidio Golden Gate Club

This is a unique opportunity to learn about Sustainable Products Standards and their increased use in the market place. This event showcases companies marketing sustainable products and agencies recognizing these standards in their purchasing policies.

This two-day, comprehensive class is about evaluating sustainable products and showcases those products who are meeting the challenging standards for Environmentally Preferable Products. For more detailed information and event agenda please see:

http://mts.sustainableproducts.com/sf_training/sf_agenda05.doc

Contact information: phone 202-338-0313, or e-mail MTS@sustainableproducts.com for more information.

From the Chapter Historian

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

Golden Gate Chapter Factoids

Shortly after ASHVE changed its name to ASHAE, the latter merged with ASRE to become ASHRAE.

The first joint meeting of the board of the new ASHRAE Golden Gate Chapter, Feb. 27, 1959, was attended by Harry Angstead, Bill Baker, Al Ballard, Don Delaney, Leo Dwyer, Karl Guttman, Jack Kniveton, Dar Knowles, William Moon, Al Mudica, Rudy Pribus and Jim Smith.

On Feb. 9, 1970 the Golden Gate Chapter became incorporated in California. We believe that we were the Society's first chapter to do so. Our first Board of Directors comprised Dick Friedman – President, George Aronovsky – Secretary, Irving Alger, Charles Hardeman and Bob Voelz. Dick Charles was the Notary Public.

(Information from the Chapter's historical files.)

Correction

In the January Fog Dispenser, I discussed the Chapter's financial contributions to Cal Poly. As many of you know, that relationship was the "Workshop" (as differentiated from "scholarship") and not "workshop", as reported. Sorry about that.

Note from Cory Palmer: I allowed 'spell check' to modify the document I received from our Historian. My apologies go to Chapter Historian Carl Jordan, the author of the article. Carl, I should have known better!

2004/2005 Golden Gate Chapter Seminar

Avoiding Mold Problems in Commercial Building Enclosures

Speaker: Joe Lstiburek

Date: February 28, 2005, 9 am to 4 pm
Location: Pacific Energy Center, San Francisco

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.

Employment Opportunities

Project Manager and Project Engineer positions

Chevron Energy Solutions is soliciting applications thru 2/28/05 for one Project Manager (PM) position and one Project Engineer (PE) position, both located in San Francisco, CA. Qualified candidates will possess at least 8 years of relevant experience and a strong working knowledge of a broad range of building energy systems, including design and installation of central chiller/heating plants, various HVAC systems, lighting, energy management controls, cogeneration and other distributed generation systems. The PM will manage all phases of projects from initial development through design, construction and commissioning. The PE will lead survey teams and identify energy conservation opportunities through modeling and calculation of building loads, develop designs and specifications, forecast savings, and assist with cost estimating. Bachelor's degree in Mechanical, Electrical or Civil Engineering is required; registration as PE is highly desired. Competitive salary package offered.

To view the job description and to apply for this position, log onto www.chevrontexaco.com/careers, click on Available Jobs, next click Search for Jobs, and then click the Search button.

HVAC Engineer

Rumsey Engineers, Inc. (www.rumseyengineers.com) is a nationally recognized Bay Area based design engineering firm specializing in innovative and energy efficient HVAC system solutions for the most demanding commercial installations and critical environments, including green buildings, data centers, cleanrooms and laboratories. The company's philosophy is based on the premise that the best design is simple, elegant and results in substantially lower energy costs.

We have an opening in our Oakland, CA office for a mid to senior level articulate and innovative HVAC engineer with at least five years of energy efficient design experience.

Rumsey Engineers is a growth-oriented company that offers competitive salaries and benefits for focused and dedicated engineers.

Please e-mail resume to Pete Laborde: plaborde@rumseyengineers.com

Plumbing Engineer

Rumsey Engineers, Inc. (www.rumseyengineers.com) is a nationally recognized Bay Area based design engineering firm specializing in innovative and energy efficient HVAC and plumbing systems solutions for the most demanding commercial installations and critical environments, including green buildings, data centers, cleanrooms and laboratories. The company's philosophy is based on the premise that the best design is simple, elegant and results in substantially lower energy costs.

We have an immediate opening in our Oakland, CA office for an articulate and innovative Plumbing Engineer with a minimum of 3-5 years of experience in commercial and industrial plumbing and fire sprinkler design systems with extensive knowledge of the CA plumbing code.

Candidate should also be familiar with the USGBC and the LEED rating system as it applies to water efficiency credits.

Rumsey Engineers offers competitive salaries and benefits for dedicated engineers.

Please send resume to Pete Laborde at plaborde@rumseyengineers.com

Employment Opportunities continued

Sales Application Engineer

Pleasanton , CA

Major – BS, Mechanical Engineering
BS, Industrial Engineering

Description: Attend a 10-week graduate-level technical training program at our York, PA headquarters, followed by on-the-job and mentor training in your assigned sales district. As a sale engineer you will work as a technical sales consultant working with mechanical contractors, consulting engineers, owners and architects in the design, application and sales of York equipment and York service products. You will be responsible for the development of assigned accounts with established sales objectives and policies.

Please e-mail resume to:

Elaine Cardoza

York International Corp.

7020 Koll Center Parkway, Ste. 110

Pleasanton, CA 94566

925-426-1144 phone

925-426-1188 fax

e-mail: elaine.cardoza@york.com

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION

For Thursday, February 3rd

Reservations

Please reserve prior to **Monday, January 31st at noon.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on February 3, 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 **January 31st.**

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.**

Marble Draw

The Golden Gate Chapter Marble Draw will continue in February, and the pot is over \$500!

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 6

MAR 2005

March Meeting Details

Joint meeting in San Rafael with the Redwood Empire, (but not at the same location as last year).

Date: Thursday, March 3, 2005

Place: Four Points by Sheraton, San Rafael
1010 Northgate Drive, San Rafael, CA 94903
415-479-8800

Schedule:

5:30 – 6:30 PM - Registration and social hour
6:30 - 7:30 PM - Dinner with
Announcements and Introductions
7:30 - 7:45 PM Break
7:45 – 9:00 Main program

Cost: \$35 for members and guests reserved by
Monday, February 28 at noon

Students – No charge, but please reserve a spot
Voucher – No additional 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 March 3, 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.

March Program

Cal Poly's Entry for the 2005 Solar Decathlon



Speaker: Jesse Maddren
Associate Professor

Mechanical Engineering Department
Cal Poly State University, San Luis Obispo

The 2005 Solar Decathlon is an international competition sponsored by the Department of Energy in association with private-sector sponsors BP Solar, The Home Depot, and the American Institute of Architects. The objective of the competition is to build a house in which the daily energy needs of the household are completely provided by energy from the sun. Cal Poly was selected as one of nineteen teams to participate in the competition in the fall of 2005. Each team will build a 500-800 square foot house and only the solar radiation incident on the house will be used to generate the thermal, electrical and mechanical power needed to compete in the ten (thus the name "decathlon") contests. The house will be built in San Luis Obispo and then taken apart, transported to Washington, D.C. and reassembled on the National Mall for the competition. The presentation will give an overview of the competition and the current progress of the Cal Poly team. You can also find out more about the competition on the web (Department of Energy web site):

http://www.eere.energy.gov/solar_decathlon/.

Golden Gate Chapter President's Message, March 2005

Are you ready now for some baseball, minus all the steroid stories, of course? The football season has come to another successful close in my opinion. I was the only Patriots fan attending the February Chapter meeting and verbally predicted who was going to win. The start of baseball season has always signaled that spring is here with summer not far behind. It also means that if you have not broken your new year's resolution yet, you're in the minority. Unless, of course, you understand COMMITMENT and that you do have control of your destiny, Pat's Coach Belichick has had his team on track for this, do you? Even after each season, this team is busy retooling and working on improvements for the next year. I hope you are too.

On the subject of commitment, did you remember to get your Chapter [CTTC](#) application filled in and filed for consideration of one of your designs? Have you signed up yet for the [Chapter seminar at the PEC on the 28th of February](#)? What about one of the offerings at the PG&E Energy Center this spring? You can check out the classes at www.pge.com/pec/classes. Maybe you're going back to college in the evenings or for the summer to work on an advanced degree -- now that will really take commitment. Maybe you've decided to teach a class and impart some of your knowledge and skills to the next generation of engineers that will enter the HVAC industry.

In our ever-changing industry of HVAC, you must be ready to learn new skills and stay current with code changes and technology improvements. Many of the states in which I have my P.E. license require for renewal, besides a check, proof that I can show what continuing education classes I have taken since my last renewal. Even without this requirement, we should all be working on becoming a more complete and resourceful engineer. That takes commitment.

As an ASHRAE design professional, you cannot design the systems and specify equipment you used five or ten years ago, without being passed over by clients looking for a professional that is forward thinking and capable of designing a system for their building that will qualify for the LEED™ rating level they want.

The State of California is requiring all of their new and major renovation projects to be at the LEED™ Silver level, because they understand it is their building and they want to be in it for a long time. Are you ready to be competitive and capable of qualifying to be selected for one of these California State building projects or a private client with similar goals? Make the commitment to be a qualified professional in ASHRAE, work for Chapter, attend the meetings, serve on a [committee](#) and get involved.

*Respectfully submitted,
Jon L. Wintermeyer, Chapter President*

March Program continued – Jesse Maddren Biography

Jesse Maddren is an associate professor in the Mechanical Engineering Department at Cal Poly State University in San Luis Obispo. He started at Cal Poly in 1999 and teaches classes in heat transfer, fluid mechanics, thermal system design, and air-conditioning. His more recent work experience includes five years teaching at San Jose State University (1995-1999), summer research at NASA Ames Research Center in Mountain View (1997, 1998), and a summer at Critchfield Mechanical Inc. in Menlo Park (1999). Dr. Maddren received his BS (1985), MS (1988) and PhD (1994) degrees in Mechanical Engineering from the University of California, Santa Barbara.

ACCO Mechanical Systems Work.

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San Leandro, CA 94577
800 / 598-2226

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Principal Office:
ACCO Engineered Systems
9040 Kenamar Drive
Suite 406
San Diego, CA 92121
858 / 695-3977

Principal Office:
ACCO Engineered Systems
11375 Sunrise Park Drive
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Sacramento, CA 95742
916 / 852-5050

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253 / 854-8444

Principal Office:
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Tustin, CA 92727
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3121 N. Silled Avenue
Suite 104
Bakersfield, CA 93308
661 / 631-1975

Principal Office:
ACCO Engineered Systems
2025 N. Gateway Blvd.
Suite 112
Fresno, CA 93727
559 / 251-2226

ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

At the monthly meetings please take notice of the table cards. The cards list all individual and corporation honor roll donors for this year.

We have reached 29% of our chapter's annual goal for Research. Please remind your colleagues and clients that 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.

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

Corporate Honor Roll Investor (\$250+)

ACCO Engineered Systems

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.

April Product Show

This year's annual Product Show will be Thursday, April 7 at the Pacific Energy Center. Dan Droubay, the Product Show Chair, is registering local vendors for table-top displays. Dan can be reached at (925) 417-7230, or dan.droubay@york.com.

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)

Obituary

Life member Irving Alger passed away in Sacramento on Feb. 5, 2005. He and Barbara were married for 63 years. Immediately after graduating from U.C. Berkeley he went to work for G.M. & T.R. Simonson in San Francisco. During WWII he worked for two years at MarinShip in Sausalito. He then returned to Simonson where he completed his professional career. He was our Chapter President during 1971-1972. He was a well respected engineer, a perfect gentleman and a truly nice guy.

Submitted by Carl H. Jordan

2004/2005 Golden Gate Chapter Seminar

Avoiding Indoor Air Quality Problems in Marine Climates

Date & Time: Monday, February 28, 2005, 9 AM to 4 PM
Location: Pacific Energy Center, 850 Howard Street (between 4th and 5th St.), San Francisco
Speaker: Joe Lstiburek, Ph.D., P. Eng

Please visit <http://ggashrae.org/seminar/> for registration and payment options.

Note that attendance is limited to 45 people total, so please reserve your spot today!

Program Description

California has one of the largest spread in climates of any state in the union—from the hot, dry desert to the cold alpine climate—but most of the people in the Golden State live at or near the coast in what is known as the marine climate. The California marine climates are mild and often have low HVAC requirements to provide comfort, but the same qualities that make them relatively comfortable can make them difficult to design in from a moisture durability perspective.

Designing and constructing buildings in marine climates is difficult for two main reasons: the miserable climate and the lack of relevant information. Most code, manufacturer, supplier and professional literature presents a cold climate basis (“cold climate chauvinism”).

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 presentation common industry practices are challenged and turned on their head.

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.

While the focus of this presentation will be on the marine climates, comparisons will be made with other climates of interest. Building problems and their solutions will be related to operational concerns and monetary constraints. Case studies will be utilized to illustrate the key issues.

Joseph Lstiburek biography

Joseph Lstiburek, B.A.Sc., M.Eng., Ph.D., P.Eng., is a principal of Building Science Corporation. He is a forensic engineer who investigates building failures and is internationally recognized as an authority on moisture related building problems and indoor air quality. He is a member of ASTM and the past chairman of ASTM E241 - Increasing the Durability of Building Assemblies from Moisture Induced Damage. He is a contributor and reviewer of several chapters of ASHRAE Fundamentals. He is a voting member of ASHRAE SSPC 62.2 – Ventilation for Acceptable Indoor Air Quality. He is also a voting member of ASHRAE Technical Committee 5.12 Ventilation Requirements and Infiltration and ASHRAE Technical Committee 4.4 Building Materials and Building Envelope Performance.

Dr. Lstiburek has appeared on PBS NOVA (“Can buildings make you sick?”) and is the author of numerous books and technical papers on building science, indoor air quality and durability.

Student Activities

Gary Harbison

We had a nice turnout of students and professors at the February meeting, and thanks to you members who were good enough to sponsor a student that evening. Of import is the fact that at the Winter Meeting in Orlando, the California Maritime Academy was officially approved by national and accepted as a Student Chapter. We are thinking of an affair at the School in Fall 2005 to celebrate. Details to follow.

Secondly, I want to thank Professor Gail Brager of UC Berkeley, and Professor Stephen Pronchick of the California Maritime Academy for their continued involvement and support of our student chapters.

Donald G. Bryant and Eric Thor Andresen Memorial Scholarships.

Student scholarship applications are due on March 25th, with all the details on the website. In addition, students please take note that The Board has the option of awarding multiple awards other than these two main Memorial Scholarships, based upon content of the applications. If you have any questions on the process, please call me at work: 510-266-7806.

Bay Area Science Fair

Bay Area Science Fair judging is March 17th. We have a group scheduled to do the judging, but if any of the members want to come and join the fun, please give me a call and I will give you the details.

In this regard, note that both The Science Fair and Scholarship Awards will be at the April Chapter meeting.

From the Chapter Historian

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

SLOE and DRY GINN BROTHERS

These names get your attention, don't they? When, in 1957, I first heard these names I was sure that I was being teased. They couldn't be real people. Or could they?

They could. Any they were! Born on April Fools' Day in 1925, they were identical twins. LeRoy Ginn (Dry) and LeRoyce Ginn (Sloe). They got their nicknames in the Marine Corps where they studied electronics.

Their families were experiencing hard times and the brothers sent money home to help out. They established strong family values and worked hard to set proper examples. Their two families shared frequent times together.

When they returned from the military they finished their educations. Three brothers became P.E.s; five brothers became contractors. They have numerous patents and have been involved in a number of businesses.

Sometimes together and sometimes not, they worked for Honeywell, Johnson, Robertshaw, Barber-Coleman/Yamas, Pneumatic Control Systems (PCS) and Universal Pneumatics Co. PCS was purchased by Yamas.

When Dick Charles built his house in about 1956, Ed Long of Honeywell insisted that a Honeywell Cronotherm be installed. Dry and Sloe did the installation.

Dry died in 2003; Sloe in Oct. 2004. Sloe's son, LeRoyce Jr. (Lee), and Dry's son, Larry, now operate Energy Logics. They are both ASHRAE members.

(Information from Lee and Larry Ginn and Dick Charles.)

Minutes of GG Chapter Joint Meeting with USGBC Feb 3, 2005

Scott's Seafood Restaurant, Jack London Square, Oakland

- Called to order at 6:30 PM by Chapter President Jon Wintermeyer
- Self Introductions- All the ASHRAE members in attendance were recognized, along with members from the Northern California Chapter of USGBC organization, College Students and invited guests.
- Student sponsors for the evening were C&B Engineering, Guttman and Blaevoet, Salzer Pumps and Pacific Energy Center, and Jon recognized and thanked them for their support.
- Jon read a memo from the Region X DRC, Don Brandt about how ANY ASHRAE Member can make a proposal for development of a standard or guideline, and this process will no longer be done at the CRC.
- Jon reminded members that the March 3rd meeting moves to the North Bay for the annual joint meeting with the Redwood Empire Section at the Four Points Sheraton.
- Jon noted that there were PEC calendars available for taking and that the current semester has just begun at PEC that has several HVAC, Architecture, Renewables and Commissioning Classes going on.
- Johanna Gusatafsson, Research Promotion Chair, spoke about ASHRAE research for the Golden Gate Chapter and this year's goal was and noted that monies are very slow in coming in and reminded all to please be generous.
- Jon substituted in for Max Sherman Chair for Chapter Seminar and spoke about the February 28th all-day seminar to be held at the PG&E Energy Center from 9 AM to 4 PM. The Topic will be on "Avoiding Indoor Air Quality Problems in Marine Climates" and the speaker is nationally known expert on the subject, Joseph Lstiburek, P.E., Principal of Building Science Corporation. Seating is limited to 45 for the room, so get your reservation in now for the pre-valentine day discount. Cost for ASHRAE member is \$225 prior to 2/14 and \$250 after and Non-members are \$250 prior to 2/14 and \$275 after. See website for additional information.
- Gary Harbison, Student Activities Chair updated the Chapter with what the student chapter activities have been doing lately and that Chapter scholarships should be applied for now, as these are awarded at the April Chapter meeting.
- Dennis Thompson, Past Chapter President and Cal Poly Alumnus spoke to promote the HVAC program at Cal Poly, San Luis Obispo
- Scott Wayland, CTT Committee Chair, spoke about the Chapter Technology Awards and how to submit them and that forms were available at the registration table for all interested members and invited interested members to contact him.
- Jon substituted in for Kirk Peterson, Golf Chair and spoke about the annual golf outing this summer on July 8th in Walnut Creek, CA at the Boundary Oaks Course.
- Chapter President Jon Wintermeyer, was Moderator for the Panel Discussion program. Jon spoke briefly on the topic and outline for the evening on "Operable Windows" with specific project focus on the William & Flora Hewlett Foundation building in Menlo Park, CA and then he introduced the four panelists as follows:
 - Bill Bocook, AIA, B. H. Bocook Architect, Inc.
 - Kailasam Senthil, P. E., Critchfield Mechanical Contractors
 - Sharon Refvem, AIA, Hawley Peterson & Snyder Architects
 - Andres Anaya, Hewlett Foundation

The program started with a slide and photo presentation by Bill Bocook about the Hewlett Foundation Building. Then the panelists in turn were given four job related questions about the Project and time to answer and a final general question. Jon presented the gift certificates to the panelists at the end of the program. Due to time constraints, Members were invited to talk with the speakers after the raffle at the conclusion of the meeting.

- The Marble Draw Raffle was run by Chairperson Kristin Vogt. The prizes for the evening were donated by Seimens. The winner of the top prize which was a loaded gift basket was won by Allan Daly. However he did not pick out the lucky Marble and the money pot remains at over \$500 dollars and carries over to the April meeting as the March meeting will be in San Rafael with the Redwood Empire Section.
- Meeting adjourned at 8:55 p.m.

Minutes by Jon Wintermeyer, for Secretary Glenn Freidman

Marble Draw

Kristin Vogt, Marble Game Chair

We raised nearly \$300 at the February Chapter meeting and Allan Daly won 1st prize and a chance at the marble draw. He did not win, so the money in our pot is \$641 - keeping the prize at \$500. Siemens Building Technologies generously donated the raffle prizes in February. The next marble draw will occur at the March meeting in San Rafael.

Operable Windows: A Panel Discussion

Tuesday, March 8, 9:00 AM to 1:00 PM

Pacific Energy Center, 850 Howard Street (between 4th and 5th St.), San Francisco

This half-day class will include several speakers' presentations on operable window issues from several perspectives. The speakers and their presentations are:

- Gail Brager of the University of California, Berkeley on "Thermal Comfort in Naturally Ventilated Buildings"
- Jeff Maddox of RJA Group on "Smoke Control in Buildings with Operable Windows"
- Maureen O'Leary of Sasaki Associates, Inc. on "The Ins and Outs of Operable Windows: Different Solutions to an Array of Projects"
- Karl Lyndon and Pete Alspach of ARUP on "Natural Ventilation Systems in the New California Academy of Science"
- Neal DeSnoo, Energy Officer for the City of Berkeley, will be part of the panel to discuss the Berkeley Civic Center, a building with operable windows that has been in use for over a year and that has undergone a post-occupancy evaluation.

Each panel member will give a 30-minute presentation. After all panel members have spoken, there will be a question-and-answer session. The questions will come from the moderator Phil Haves of Lawrence Berkeley National Laboratory and from the audience.

This program is free-of-charge, but registration is required. Register for this program and learn more about the speakers and their presentations at www.pge.com/pec/classes.

Employment Opportunities

Guttman & Blaevoet is a successful San Francisco consulting engineer firm serving premier architects & building owners seeks a Project Manager with at least 5 years of HVAC consulting experience and an Engineer with at least 2 years relevant experience. Successful candidates will have a strong academic background, have excellent communication skills, and be highly motivated. Experience with energy modeling is desirable.

Email cover letters and resumes to restacio@gb-eng.com

Please no phone calls.

Employment Opportunities, Continued

California Hydronics Corporation (www.calhydro.com) is 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. 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.

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

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 7

APR 2005

April Meeting Details

The Golden Gate Chapter annual product show

Date: Thursday, April 7, 2005

Place: Pacific Energy Center, San Francisco
(www.pge.com/pec)
851 Howard Street between 4th and 5th Streets

Schedule:

4:30 – 6:30 PM: Product show displays and social hour

5:00: Registration begins, bar opens

6:30 – 7:30 PM: Dinner with Announcements and Introductions

7:30 – 7:45 PM: Break

7:45 – 8:45 PM:

Science Fair award winners

Golden Gate Chapter Technology Awards

Scholarship winners

Product Show vendors

Cost: \$35 for members and guests reserved by Friday, April 1 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

Please make your reservation via our website.

Visit the Event Calendar at

<http://www.ggashrae.org/calendr.htm>, click on April 7, 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.

April Program

Annual Product Show

See page 4 for exhibitor registration information.

Prior to the meeting, the annual Product Show will take place at the Pacific Energy Center. Local vendors will display their products with the latest technologies. Your first beverage will be free, courtesy of the Product Show vendors. The vendors will also sponsor a raffle after the dinner to the attendees of the Product Show, so be sure to stay until the end of the meeting.

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

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 2005 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 CTTC Committee

Golden Gate Chapter President's Message, April 2005

Well, it sure feels like Spring has decided to return to California. I'm not looking forward to any more rain until the fall, and my allergies are keeping my head on full alert right now with constant sneezing. New growth and new birth is happening all around us again; it is such an enlightening and work-intensive season of the year.

Our newest Student Chapter at the California Maritime Academy has just been chartered by Society so let's congratulate them. We hope to see a good turnout of students for our April Student night meeting at the Pacific Energy Center.

Congratulations are also in order for Chapter members receiving some awards from ASHRAE Society. Dr. Max Sherman, Ph.D. has been honored with an Exceptional Service Award. Two Distinguished Service Awards go to Mark Hydeman, PE and Tom Reinarts, PE. These awards honor ASHRAE members for their service to Society for their time and talents. In addition, two Chapter members, Alan Classen and Dr. Magnus Herrlin, Ph.D, will receive an ASHRAE Technical/Symposium Paper award as authors of *Evolution of Data Center Environmental Guidelines*. These hard working Chapter members are well deserving of these awards and are invited to attend a Chapter meeting as a Guest of the Board. We will acknowledge them at this Chapter meeting and present their awards, if they choose not to attend the June 25, 2005 Society Annual meeting in Denver, CO and have Society forward their awards to me.

The April Chapter meeting is also the night for College scholarship awards to our student chapter members and cash prizes to the local middle and high school winners selected at the Bay Area Science Fair in March. There may also be local Consulting Firms awarded with a Chapter Design Award that makes them eligible for submission to the Region X CRC for a possible regional award. The Golden Gate Chapter has had numerous TEGA awards in the past few years.

So make your reservation early and plan to attend the April 7th meeting and join the rest of the Chapter in our congratulations to all these hard working current ASHRAE members and students and maybe a few future recruits from ranks of the local middle and high schools in the area.

Respectfully submitted,
Jon L. Wintermeyer, Chapter President

2005 Golden Gate Chapter Field Trip—Save the date, May 12

Copper Pollution Presentation

This year's field trip will be Thursday, May 12. We will meet at the Pacific Energy Center at 8:00 for a continental breakfast and 45-minute presentation on copper pollution in the San Francisco Bay. From there, a bus will take the group to the San Francisco Oceanside waste water treatment facility on the Great Highway near Ocean Beach. It is a state of the art secondary wastewater treatment plant with a peak secondary treatment capacity of 43 million gallons per day. We'll return to the Pacific Energy Center by bus and drop everyone off by 12:00 noon.

Check the web site often for more information and registration details.

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OAKLAND, CA 94603 FAX: (510) 639-3337
San Francisco, Oakland and Contra Costa Areas

REIN PLAKK, ext. 232
Peninsula and South Bay Areas

ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

We are in the homestretch 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.

We have reached 30% of our chapter's annual goal. Please remind your colleagues and clients that contribution to ASHRAE Research is a great way to give back to our industry. Every dollar donated to research 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 me. I want to make sure to recognize everyone who has donated.

Corporate Honor Roll Investor (\$250+)

ACCO Engineered Systems
Sulzer-PACO Pumps
Guttman & Blaevoet Consulting Engineers

Individual Honor Roll Investors (\$100+)

Robert Sonderegger
Gary Harbison

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.

REGISTER NOW FOR THE 2005 PRODUCT SHOW!

The annual Product Show will be held on Thursday, April 7th at the PG&E Pacific Energy Center in San Francisco. Nearly 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 2005 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 7, 2005 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

After dinner, each exhibitor has the option to make a *30-second* presentation. The topics can be humorous and/or informative, and should be as non-commercial as possible.

Please contact Dan Droubay with any questions about the Product Show. 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,

Dan Droubay
2004-2005 Product Show Committee Chair
925.417.7230 Phone
925.426.1188 Fax
[**dan.droubay@york.com**](mailto:dan.droubay@york.com)

OFFICIAL BALLOT

2005/2006 GOLDEN GATE CHAPTER BOARD OF GOVERNORS

The current Board of Governors wishes to thank the Nominating Committee for its time and effort on next year's ballot. The nominating committee members included Mark Hydeman, Chair, Dennis Thompson, Ernie French, Ben Sun and Dick Charles. The vote will be held at the April Golden Gate Chapter meeting.

You may fax or e-mail the ballot, or vote electronically.

Please fax or email to: Glenn Friedman, Secretary
Taylor Engineering, Fax: 510-749-9136
Email: gfriedman@taylor-engineering.com

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

BALLOTS MUST BE RECEIVED BY THURSDAY, MARCH 31, 2005

POSITION	OFFICIAL CANDIDATE	VOTE	WRITE-IN CANDIDATE
Past President	Jon Wintermeyer	<input type="checkbox"/>	
President Elect	Glenn Friedman	<input type="checkbox"/>	
Secretary	Debbie Marshall	<input type="checkbox"/>	
Treasurer	Robert Marcial	<input type="checkbox"/>	
2 nd Year Board Member	Jeff Blaevoet	<input type="checkbox"/>	
1 st Year Board Member	Scott Wayland	<input type="checkbox"/>	

NOTE: In accordance with our bylaws, Cory Palmer 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 Glenn Friedman, Chapter Secretary.
4. This ballot is also available on the Chapter website (www.ggashrae.org) under announcements.

Chapter Technology Transger Committee (CTTC)

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

By Scott Wayland, ASHRAE Golden Gate CTT Committee Chair

Please check out the committee website at <http://ggashrae.org/cttc> and the past fog columns for more information. Society CTTC programs & activities are here: <http://www.ashrae.org/template/AssetDetail/assetid/25424>

Technology Awards

The 2005 Chapter Technology Award Competition entries were due to the CTT Committee at the end of February. We will have the results at the April meeting.

It's not too early to start thinking about the 2006 competition. Please take a look at the following information. Ask your project's owner now if they are interested.

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

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

Contact Scott Wayland if you have any questions.

ASHRAE NEWS

<http://www.ashrae.org/template/AboutLinkLanding/category/1584>

The ASHRAE Satellite Broadcast / Webcast on Mold is on April 13th. Please go here for more info:

<http://www.ashrae.org/template/EducationLinkLanding/category/3805>

ASHRAE has launched a new Career Services section, designed to bring together job seekers and employers. Log on to search for jobs or to post your resume so that employers can find you. Go here for more info: <http://www.ashrae.org/template/AssetDetail/assetid/40560>

Want to get involved with a Technical Committee? Go here for more info:

<http://www.ashrae.org/template/SecondaryLinkLanding?category=1646>

Join the CTT Committee

If you like to assist the chapter and get involved with ASHRAE, the CTT committee is one of the best places and could use your help. Talk to a board member or contact Scott Wayland at sewayland@comcast.net

2005 Golden Gate Chapter Golf Tournament

by Kirk Peterson

This year's Golf Tournament is scheduled for Friday, July 8 at Boundary Oaks in Walnut Creek. Please check the web site and future Fog Dispensers for more information. Please contact Kirk Peterson for more information or to register - kirk.peterson@york.com, phone 925-417-7208.

Local Mechanical Contractor Hosts UC Berkeley Student Group

On February 16, Edgar deGuzman from Acco Engineered Systems hosted U.C. Berkeley students and Prof. Tommelein for a site visit at their new facility in San Leandro. Researchers on the team are studying lean construction, specifically how construction- and job-shop scheduling get coordinated. For more information contact Ms. Thais Alves, thaiscla@berkeley.edu



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)

Student Activities

Gary Harbison

Congratulations on the Cal Maritime Student Chapter being Chartered! This is another great honor for Region Ten.

Both The Science Fair and Scholarship Awards will be at the April Chapter meeting.

The April meeting should prove to be an exciting evening. We will be awarding the chapter-sponsored student scholarships as well as recognizing the Bay Area Science Fair winners and parents.

The deadline for student scholarship applications is March 25th. Scholarship applicants must meet certain eligibility requirements and that as well as exact details of the application protocols are on the website.

If any students or members have any questions, please contact me at 510-266-7806 or Email: gharbison@calhyro.com.

From the Chapter Historian

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

Frank Crouch

Frank Crouch is a distinguished gentleman, Life Member of ASHRAE and, where I continue to see him weekly, the Berkeley Breakfast Club.

Frank was born in 1914 at Oakland's Fabiola Hospital, a predecessor of Kaiser Hospital.

At U.C. Berkeley he got his BSME in 1937 and MA of Public Administration in 1969. He taught machine design and hydraulics at the Polytechnic College of Engineering in Oakland.

As a part of the WWII effort he did design work at Columbia Steel in Pittsburg. Then he became a marine design engineer at the USN yard at Bremerton, Washington.

In 1945 he joined the U.C. Berkeley campus staff doing building design and construction activities. This is where most of us remember him. In 1960 his responsibilities expanded to cover engineering, administration and policy issues at all U.C. campuses. He was at U.C. for thirty years until his 1975 retirement. Thereafter he continued with several years of miscellaneous consulting.

Frank joined ASHVE in 1949 and was president of our ASHAE Chapter in 1956-57. At age 90, Frank is still bright and active. He continues to read and enjoy our ASHRAE Journal. Good on you, Frank!

(Information from conversations and notes provided by Frank).

Marble Draw

Kristin Vogt, Marble Game Chair

The money in the marble draw pot is currently \$641 – keeping the prize at \$500. The next marble draw will occur at the June meeting.

Minutes of GG Chapter and Redwood Empire Section Meeting March 3, 2005

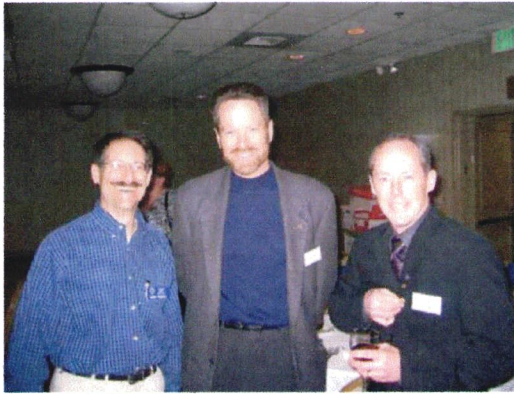
Four Points, San Rafael

- Dinner was served at 6:30 PM.
- Following dinner were self introductions by members and Guests of the combined Golden Gate Chapter and Redwood Empire Section.
- Jon Wintermeyer started the announcements at 7:15 PM.
 - Society awards that our members received include:
 - Exceptional Service Award – Max Sherman
 - Distinguished Service Award – Tom Rinearts & Mark Hydeman.
 - 2004 Technical Symposium Paper Award – Alan Classen & Magnus Herrlin, PhD
 - The Society presentation of these awards will be made at the Annual Meeting in Denver, CO, on June 25, 2005.
 - Our April meeting is at the PEC. This meeting is Student Night & the Product Show. Last year we gave \$6,000 in scholarships and Bay Area Science Fair Awards at the meeting.
 - See the website for the May field trip and June meeting information.
- Self introductions began at 7:20 PM.
- Mark Hydeman – Nominating Committee & UC Berkeley Extension
 - Mark Hydeman, Ben Sun, Ernie French and Dennis Thompson, the Nominating Committee recommended a slate of candidates:
 - First Year Board Scott Wayland
 - Second Year Board Jeff Blaevoet
 - Treasurer Robert Marcial
 - Secretary Debbie Marshall
 - President-Elect Glenn Friedman
 - Past President Jon Wintermeyer
 - President is not a nominated position. The President-Elect automatically ascends to the position.
 - The UC Extension Course on Controls is starting and details are posted on the Golden Gate Chapter (GGC) website.
- Scott Wayland – CTTC
 - Technology awards were due this week but there is still time to squeak in additional applications. Information is on the GGC website
- John Cross – Redwood Empire Announcements
 - Scholarship applications are due on May 2, 2005.
 - Nominating Committee will post their nominations on the website within two weeks.
 - June meeting is set. Tony Costa will lead a tour through the Race Building in Santa Rosa.
- 7:35 PM Break for 10 Minutes
- The speaker for the evening was Dr. Jesse Maddren, Associate Professor of Mechanical Engineering Department, Cal Poly University, San Luis Obispo. The presentation was on the Solar Decathlon Competition 2005 and the entry by Cal Poly San Luis Obispo Architecture and Engineering Departments.
- Following the presentation there was the prize raffle conducted by Kristin Vogt. The prizes were donated by Norman Wright and Air Treatment Corporation.
- Carl Jordan announced the historian section of the Fog Dispenser about the Ginn brothers.
- The meeting adjourned at 9:10 PM.

Respectfully submitted,

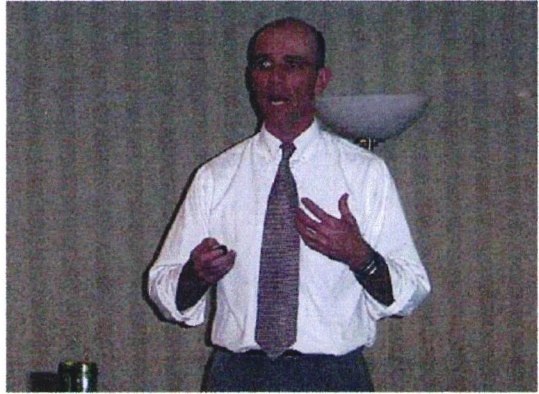
Glenn Friedman, Chapter Secretary

Photos from March meeting with Redwood Empire Section in San Rafael



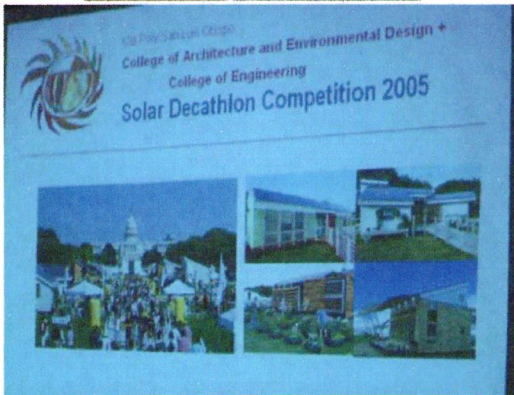
Left: Glenn Friedman, Bob Levi and Mark Hydeman

Right: Speaker Jesse Maddren, Professor at Cal Poly San Luis Obispo



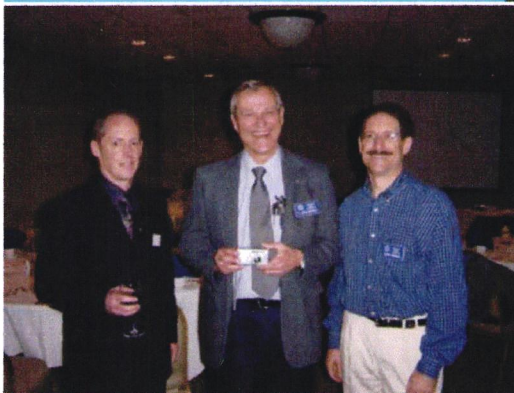
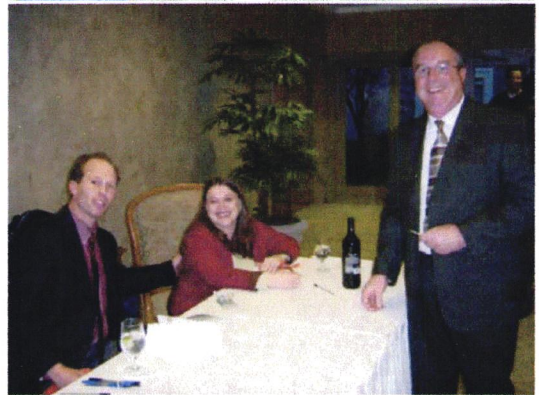
Left: Scott Wayland, Golden Gate CTTC Chair

Right: Kristen Vogt administers the ever-popular marble draw.



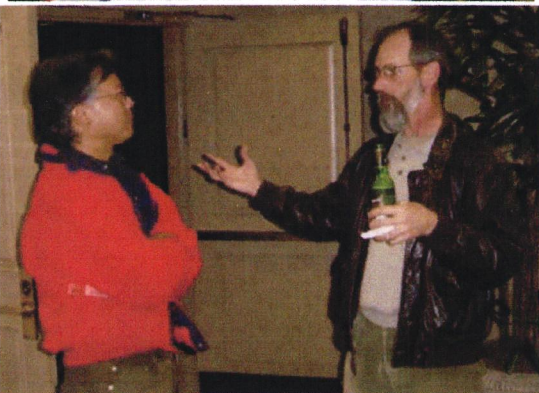
Left: Cal Poly's Solar Decathlon Entry

Right: The Redwood Empire registration table – RSVP or else!



Left: Mark Hydeman, Mike Scofield and Glenn Friedman

Right: John Cross and Ed Cancio of the Redwood Empire Section



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.

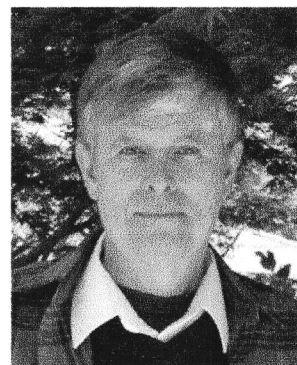
Cost: \$35 for members and guests reserved by Thursday, May 5
Students – No charge, but please reserve a spot
Voucher holders– No additional charge. Please reserve a spot.

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>

FACSIMILE PAGE # 1 of 1

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.

Fremont Office

44244 Fremont Blvd.
Fremont, Ca 94538
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

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ALERTON

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 Blaevoet
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 Value: 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

California Hydronics Corp. www.calhydro.com

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

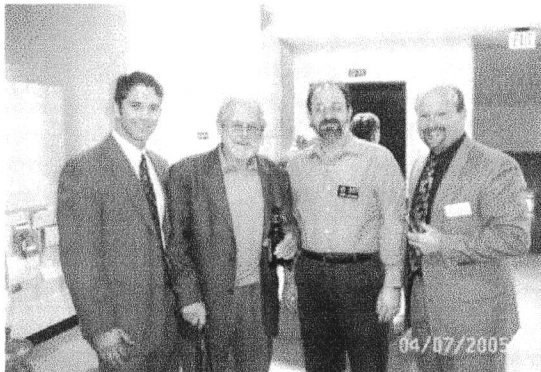
Email resumes@qcworld.com or fax (510)540-7268

Photos from Golden Gate Chapter April meeting and annual product show



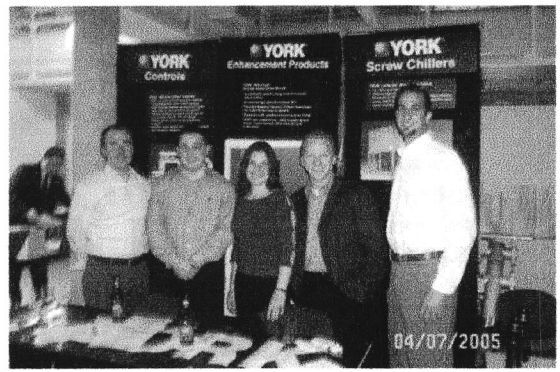
Left: Ken Mozek, Jeff Blaevoet, Johanna Gustafsson

Right: Ben Sun and Mike Scofield



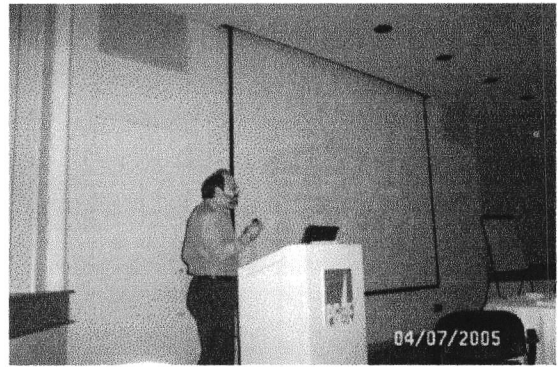
Left: Rory Moore, Karl Guttman, Steve Guttman, Dennis Thompson

Right: The York Product Show exhibitors



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

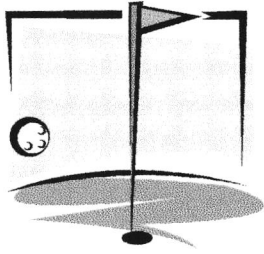
Right: Steve Guttman discusses his Technology Award projects



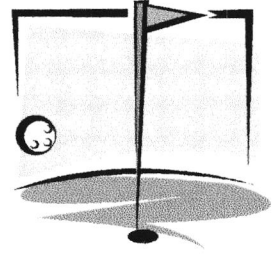
Left: Jon Wintermeyer, Gary Harbison, and scholarship winner Selina Fung Ki Lam

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





ASHRAE Golden Gate Chapter 2005 Golf Tournament



Friday, July 8, 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.....	\$1,500
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$1,025
<i>(2 foursomes)</i>	
Basic Team.....	\$ 530
<i>(1 foursome)</i>	
Single Player.....	\$ 140

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

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 9

JUN 2005

June Meeting Details

Spouse / Significant Other Night and Past Presidents' Night

Date: Thursday, June 2, 2005

Place: Carnelian Room, 52nd Floor
Bank of America Building
555 California Street, San Francisco

Schedule:

5:30 – 6:30 PM: Registration and Social Hour
6:30 – 7:45 PM: Dinner with
Announcements and Introductions
7:45 – 8:00 PM: Break
8:00 – 8:45 PM: Arj Barker Comedy
9:00 PM: Meeting adjourned after marble draw

Cost: \$35 for members and guests reserved by
Thursday, May 26 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

Please make your reservation via our website.
Visit the Event Calendar at
<http://www.ggashrae.org/calendr.htm>, click on June 2,
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.

June Program

Comedy Night with Arj Barker



Arj Barker

The Golden Gate Chapter of ASHRAE concludes its 2004-2005 year at the final meeting on June 2. This is our annual dinner meeting specially intended for spouses and significant others, featuring an acclaimed entertainer in lieu of a technical speaker. We will note the changing of the Chapter Officers and recognize this year's Committee Chairpersons for their efforts during the year.

Please join us for this special evening and the comedy of Arj Barker. Arj signed up for his first open mike at the age of 19, playing to a room full of sailors at San Francisco's legendary, but since closed-down, Holy City Zoo. He began touring nationally by the age of 22, and in September of 1994, he placed 4th in the prestigious Seattle Comedy Competition. Always an avid traveler, it was around this same time that Barker arranged to perform a series of comedy dates in London, England.

Arj Barker biography continued on page 2...

Golden Gate Chapter President's Message, June 2005

As I write my final message to the members of the Golden Gate Chapter, I do so with great joy and appreciation for the spirit of volunteerism, job responsibility, and pride in doing your best that exists within our ranks. I thought that our April meeting was special with all the awards and work that was put into that evening, but my role at the recent Region X CRC conference was icing on the cake for one of my final appearances as your Chapter President. When you attend our June 2 meeting at the Carnelian Room and join me in recognizing and applauding the accomplishments of our Chapter members for the past 2 years. At the Region X CRC Awards dinner presentation, I spent most of the evening walking to the stage to receive and accept awards for the accomplishments during this past year of one of our San Francisco Consulting Firms, our many committee Chairpersons, Webmaster and last year's President. The Region X Officers and the Society Representatives present praised our Chapters efforts and accomplishments in so many areas over the past 2 years and pointed to our chapter as an ASHRAE Chapter role model for others to follow and imitate for success.

During this past year, I have been witness to TEAMWORK in motion, with our members stepping up to assume roles and responsibilities like my old home town teams from Massachusetts did with the final goal being recognized and rewarded for their best efforts. To those persons that stepped up from the membership of our Chapter and became the role models to others to use as an example, I salute and applaud your efforts for these past months. your Chapter owes you a dept of gratitude for a job well done. The Current Chapter Officers that I have had the pleasure of serving with, Bob Levi, Cory Palmer, Glenn Friedman, Debbie Marshall, Robert Marcial, and Jeff Blaevoet; and Committee Chairs, Scott Wayland, Carl Jordan, Johanna Gustafsson and Gary Harbison. In life we are often judged by the company we keep or the people we associate with and you are on the right track by your membership in ASHRAE and belonging to our Golden Gate Chapter.

I hope that you have been able to understand my Boston accent from the podium during our meetings this year, as there were many of the available Boston/English dictionaries still left unopened all year. It has been an honor and a privilege to serve as your President for the 2004-2005 year. I trust that I have served you well and represented you professionally in this role.

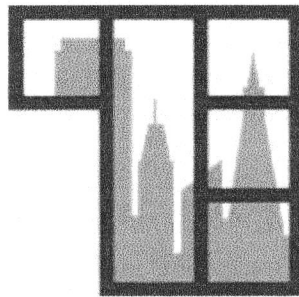
In the coming months, my final request to the membership of the Golden Gate Chapter is: continue to support your Board Officers, welcome the new members, mentor your interns and students, bring a friend or fellow worker to a Chapter meeting. Oh, and become as involved and committed as your life allows. You don't have to always stand on the sidelines, get in the game.

*Respectfully submitted,
Jon L. Wintermeyer, Chapter President*

Arj Barker biography, continued

Arj Barker has made smash-hit appearances on the Late Show with David Letterman, The Tonight Show, and Late Night with Conan O'Brien. A San Francisco native, Arj has established himself both nationally and internationally, participating in the Montreal Comedy Festival, the Melbourne Comedy Festival, and in the Edinburgh Fringe Festival. He has also been seen in his own Comedy Central half-hour special. His debut show in Edinburgh "Letter from America" received rave reviews, played to sell out audiences, and won him the Perrier Best Newcomer award in 1997

Though he now lives in Venice, California, Arj Barker returns often to the Bay area and delights in headlining on the same stages where once he struggled to do five minutes.



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Contact: Glenn Friedman
gfriedman@taylor-engineering.com
www.taylor-engineering.com

ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

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.

Chapter Technology Transfer Committee (CTTC)

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

Please check out the committee website at <http://ggashrae.org/cttc> and the past fog columns for more information. Society CTTC programs & activities are here:

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

Technology Awards

2005 Golden Gate ASHRAE Technology Awards were announced at the April meeting

Award Recipients

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

Congratulations Craig and Steve.

Golden Gate members, it's not too early to start thinking about next year!!!

2005 Title 24

The *final* version of the 2005 Title 24 Part 6 Energy Standards Manual was put online on April 1st at the Energy Commissions website: <http://www.energy.ca.gov/title24/2005standards/index.html>

Print a copy now for your office, the new standards go into effect October 1st!

Join the CTT Committee

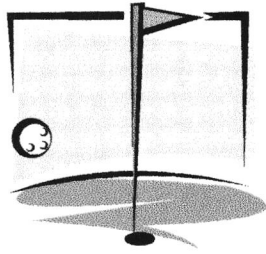
If you like to assist the chapter and get involved with ASHRAE, the CTT committee is one of the best places and could use your help. Talk to a board member or contact Scott Wayland at sewayland@comcast.net

Change of Address?

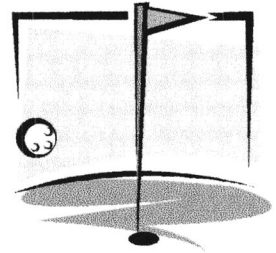
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Basic Team.....	\$ 530
<i>(1 foursome)</i>	
Single Player.....	\$ 140

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

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

Our Chapter Gavels

Our Chapter has two gavels. One is our traditional gavel. But the other is a monster! These gavels are traditionally passed from our outgoing to our incoming President at the June Chapter meeting, as can be seen in a photo of Jack Palmer presenting it to my head in June, 1976.

In the Chapter's historical files, I found out about the large gavel. Or did I? You decide.



Outgoing Golden Gate Chapter President Jack Palmer presenting the gavel to incoming President Carl Jordan, June 1977

“THE BIG GAVEL”

(Gavel's History – Don McLeod's Version)

San Francisco Chapter President – Joe Murray (1953-1954), lost the regular gavel prior to one of the meetings. At the next regular meeting, one of the members presented Joe with a large croquet mallet tied with a ribbon and with the comment, “God Dammit let's see you lose this one!”

“THE BIG GAVEL”

(Gavel's History – Majority of Membership)

The Golden Gate Chapter of ASHRAE was the sponsor of the Sacramento Chapter. The charter meeting was held in Sacramento on Nov. 5, 1952. At the meeting, President Tom White of Golden Gate ASHRAE, presented an inscribed standard size gavel to Mr. L.A. O'Meara, incoming President of the new Chapter. A year later, at a joint meeting held in San Francisco, the Sacramento Chapter presented this Big Gavel to President Joe Murray of San Francisco. At the annual joint meetings of the two chapters, held alternately in San Francisco and Sacramento, this gavel was passed back and forth between chapters. The gavel is now in the permanent possession of the San Francisco Chapter and is used for special functions.

(Information from Golden Gate historical records.)

Meeting Summary from May Field Trip, May 12, 2005

By Cory Palmer

Golden Gate ASHRAE wishes to thank Tom Barron, P.E. for an interesting and informative talk on copper pollution in the San Francisco Bay. After Tom's presentation at the Pacific Energy Center, we toured the Oceanside Wastewater Treatment Plant on the Great Highway (under the San Francisco Zoo). The tour was fascinating, as this plant treats 85 million gallons of wastewater on an average day and more than 500 million gallons of water in times of heavy rain. The tour started with large debris removal from the incoming water, and ended with clear water that is discharged more than four miles off Ocean Beach into the Pacific Ocean.

Student Activities

By Gary Harbison

After a fun and exciting 2004-2005, we look forward to what is planned for next year. First of all, an open house/BBQ at the California Maritime Academy is in the works for the Fall. The details are being worked out, so stay tuned for that event.

The student travel grant award competition, to winter or summer ASHRAE meeting, will be earlier in the year. In the past, we have had this competition at the same time as finals for the fall semester, which we think has interfered with students' applying for the travel grant.

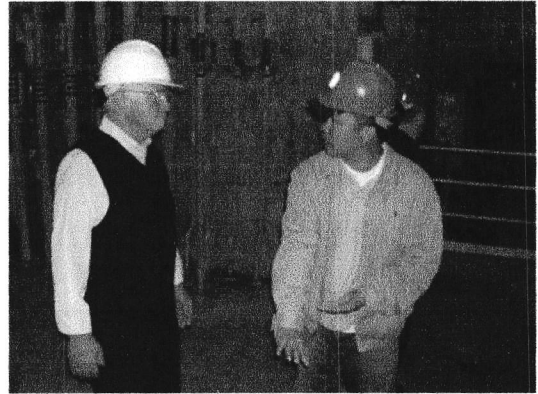
If any members would like to help out with student activities next year, we could use your help. Please let me know at 510-266-7806, Email: gharbison@calhydro.com.

Photos from Golden Gate chapter May Field Trip



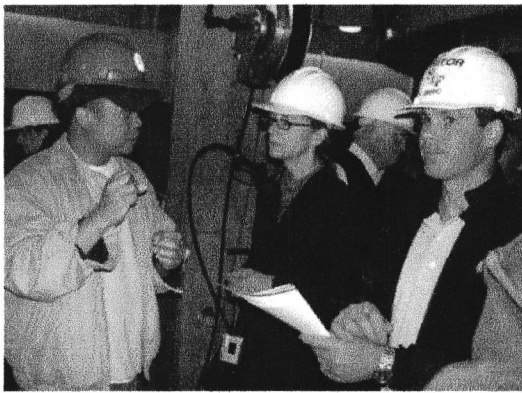
Left: On the way into the plant, with hard hats and rubber gloves.

Right: Dave Nazarro and one of our tour guides from the SF PUC.



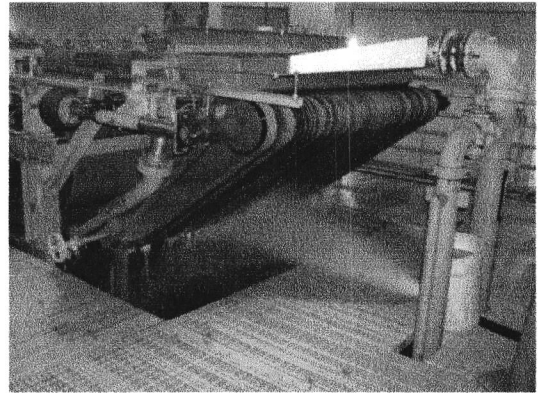
Left: One of the control rooms.

Right: One never quite gets used to the smell!



Left: Our tour guide explaining the mechanical systems.

Right: This water comes from the plant itself, not the City water supply.



Left: Not a flattering label!

Right: Standing below a 750,000 gallon anaerobic digester.

