

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 1

OCTOBER 2003

October Meeting Notice

Date: Thursday, October 2nd
Place: Carnelian Room
Bank of America Building
555 California Street
San Francisco

Parking is \$10.00 after 5:00 pm

Schedule:

5:30-6:30 Social Hour
6:30-7:45 Dinner w/ Announcements and
Introductions
8:00-9:00 Speaker Presentation

Cost: \$35 for members and guests **reserved by
Monday, September 29th 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 - \$280.00
\$42 for non-members, late reservations and at the
door

Please make your reservation via our website. Visit the
Event Calendar at
<http://www.ggashrae.org/calendr.htm>, click on "Oct 2",
fill out and submit the form. Or fax the form on page 4
to Debbie Marshall at (510) 639-3337.

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

October Program

Micro Turbine Combined Heat and
Power (CHP) Systems
By Andrew Wang and Richard Minar

Andrew Wang of Capstone Turbine Corp. will present
information on ***MicroTurbine Combined Heat &
Power (CHP) Systems***. Capstone is a strategic partner
with United Technologies and Carrier Corporation in
bringing small-scale distributed power and comfort
products to the mainstream market. Reliable and
efficient power generation is more relevant today than
ever, as evidenced recently by the most severe power
outage in US history.



Rich Menar has been in the electric power industry in CA
for 15 years. He began his career at PG&E where for
close to 10 years he worked with commercial and
industrial customers to increase their energy efficiency via
application of new demand side technologies and
applicable financial incentives. Following PG&E he
worked at Southern Company Energy Marketing (known
today as Mirant Energy Marketing) providing risk
management products and services to California
wholesale power customers. In 2001 he went on to lead
Capstone Turbine Corporation's Pacific Northwest sales
efforts through establishing new distribution channels
and developer partnerships in the Distributed Energy
sector. (Continued on page 3....)

Golden Gate Chapter President's Message, October 2003

“Hooked on ASHRAE”

My first ASHRAE experience occurred in the fall of 1992. I was making a sales call on Dave Gord of Greene Engineers, and Dave invited me to attend the San Jose Chapter meeting that night. Upon attending the meeting, I realized that this was a gathering of the significant people in our business, and I was “hooked on ASHRAE”. I have no explanation for why I had not previously been involved in ASHRAE other than no one ever asked me to attend a meeting or join the Society.

At that first meeting, I never imagined that I would have the opportunity to lead one of the largest Chapters in ASHRAE. I am honored to serve as Golden Gate Chapter President for 2003-2004 and pledge to make participation in our Chapter worthwhile. I challenge each one of you to get someone new “hooked on ASHRAE”. If they participate, they will see the benefits.

I would like to recognize our Board of Governors, but first my thanks go to Joe Olivier, Past President who has rolled off the Board. We will miss Joe’s leadership skills and entertaining speaking ability. Edgar DeGuzman will continue on the Board as Past President and Marble Draw guru. Jon Wintermeyer as President-Elect and Program Chair has already put together a great lineup of programs for the year – see the Program listing in this issue of the Fog Dispenser. Cory Palmer has moved up to the position of Secretary, after the third consecutive year of getting the Chapter’s tax data to our accountant on time. Glenn Friedman has taken over the Treasurer’s duties, and with his vast business management experience will improve the Chapter’s financial record keeping and monitoring processes. Please join me in welcoming new Board members Debbie Marshall and Robert Marcial. Debbie has distinguished herself as the Fog Dispenser editor from 1998 through 2000. Robert has been our Webmaster since the inception of the Golden Gate Chapter’s website, and last year won an award for the best Chapter website in Region X. The Board members have the privilege to serve you, our members. Please offer your suggestions or comments at any time. You will find our contact information on our website at <http://www.ggashrae.org/officrs.htm>

I am pleased to report that the Chapter’s finances are in excellent shape. My predecessors on the Board had the foresight to keep the Chapter’s sizable Scholarship funds (Eric Thor Andresen and Don Bryant) in fixed income instruments. Therefore, we have not suffered any loss of principal during the downturn of recent years.

Please join me in congratulating one of our active Chapter members, Steve Taylor, who has been elevated by ASHRAE to the grade of Fellow. This grade is awarded to individuals who have attained recognizable distinction in the HVAC&R field, and not just for service to ASHRAE Society or Chapters. Presentation of Steve’s award will occur at the ASHRAE Winter Meeting in January.

Hope to see you at the first meeting of the year on October 2nd at the Carnelian Room in San Francisco. Why not get someone new “hooked on ASHRAE”?

Respectfully submitted,
Robert F. Levi, Chapter President

2003 – 2004 Golden Gate ASHRAE Programs

DATE	LOCATION	PROGRAM	SPEAKER
Oct. 2	Carnelian Room	Microturbines: What They Are and How They Fit Into the HVAC Market	Andrew Wang, Capstone Rich Minar, United Tech
Nov. 6	Pacific Energy Center	CO ₂ Monitoring and Minimum Outdoor Air Control & Demand Control Ventilation	Larry Felker Belimo
Dec. 4	San Mateo Marriott (Joint with San Jose)	Building Commissioning of HVAC Systems and Equipment *See Note	Ronald J. Wilkinson, PE Distinguished Lecturer
Jan. 8 LUNCH	Carnelian Room	Title 24 Year 2005 Version: What's Coming	Mark Hydeman, PE Taylor Engineering
Feb. 5	Scott's Seafood (Jack London Square)	Barriers to Sustainable (Or Green) Design	Kevin Hydes, PE Keen Engineering
Mar. 4	Embassy Suites, San Rafael (Joint w/ R.E.)	TBA	TBA
Apr. 1	Pacific Energy Center	Science Fair and Scholarship Winners	Students
May	Field Trip	TBA	TBA
June 3	Scott's Seafood (Jack London Square)	Spouse Night with Comic Relief	James "Jim" Giovanni

*Also please note that this years Chapter Full Day Seminar will be on December 5, 2003 at the PEC, featuring ASHRAE Distinguished Lecturer, Ronald J. Wilkinson, PE. His Seminar topics will be Commissioning Green Buildings for the USGBC LEED Program and Commissioning Interoperable Control Systems.

MARBLE DRAW

Thank you to Belimo Aircontrols for the donation of a 2 night Reno package for the first prize at the 6-5-03 meeting. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at nicolina.j.guiliano@jci.com

Speaker Biographies *(continued from the front page)*

Headquartered in Chatsworth, California, Capstone is a leading producer of low-emission microturbine systems. This is a "simple by design" distributed generation solution that saves money, reduces the cost of energy and increases energy reliability. Winner of the Financial Times Energy 2000 Global Energy Award for "Most Innovative Commercial Technology Development", Capstone has sold more than 2,500 production microturbine systems worldwide since its commercial introduction in 1998.

Andrew Wang is a Registered Mechanical Engineer and Strategic Accounts Manager for Capstone Turbine Corporation, specializing in CHP solutions for commercial and industrial applications. Andrew joined the company in July 2001, following a six-year stint as an Environmental Engineer at the Los Angeles County Sanitation Districts, Puente Hills Landfill, where he developed the use of landfill gas for clean vehicle fuel. Andrew studied Mechanical Engineering at UC Berkeley, received his Masters degree in Environmental Engineering from Stanford University and earned an MBA from the Anderson School at UCLA. He has always been drawn to new applications of disruptive technology.

Rich Minar is the manager of UTC Powers Northwest sales. UTC Power is a subsidiary of United Technology Corporation and offers both micro turbine and fuel cell based distributed generation technologies to the commercial, industrial and institutional sectors. Rich is a native of San Francisco and holds a BSME from San Francisco State University.

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For Thursday, October 2nd

Please reserve before **noon Monday, September 29th**. Please make your reservation via our website. Visit the Event Calendar at <http://www.ggashrae.org/calendr.htm>, click on "Oct 2", fill out and submit the form. Or fax the form below to Debbie Marshall at (510) 639-3337.

The Meal Voucher Plan is also available – 9 meals for the price of 8 is \$280.00. We are now accepting payment for the voucher via **PayPal**. Set up your PayPal account <www.paypal.com> and make payment to paypal@ggashrae.org. **Members with vouchers – you too – must send in your reservation. We need to know how many meals to request.** Please cancel your reservation if you cannot attend. Cancellations must be received by September 29th.

FROM: _____

COMPANY: _____ Phone: _____

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

CHANGE OF ADDRESS?

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

In order to change your membership data, you will need your ASHRAE member number and confidential PIN number, both of which are on the ASHRAE card issued to you each year. Go to the Change of Address link of the [ASHRAE website](http://www.ashrae.org), log in, then to Membership Records. If you don't have your PIN or membership card, please call Customer Service Section: 1-800-5-ASHRAE (US and Canada).

Student Activities Committee

Authored By Gary Harbison

As the new committee chair, I am looking forward to the opportunity to serve the membership and area educational institutions, to promote math and science to K-12 students and describe how the study of math and science can lead to an exciting career in engineering, to encourage the study of HVAC&R, to promote careers in the HVAC&R industry, and facilitate the continuing operation of the UC-Berkeley student chapter.

The past chairs have done an excellent job in laying the groundwork in this regard, and we will be awarding travel grants for students to attend the ASHRAE society meetings, providing scholarships and other student incentive awards, and judging the Bay Area Science Fair.

To this end, we are in need of a committee co-chair...or two or three. If you are interested, please contact me at 510-266-7806 or Email GHarbison@CalHydro.com

2002/2003 ASHRAE Resource Promotion Annual Report

Congratulations and thank you to the individuals and firms who helped the Golden Gate Chapter collect \$17,045 in 2002-2003. We only met 83% of our goal, so we're looking for even more support during this year's campaign!

INVESTORS OF MORE THAN \$1,000

Golden Gate Chapter, ASHRAE

INVESTORS OF \$501 to \$1,000

Belimo Aircontrols

Tom Gilbertson

Norman Wright Mechanical Equipment

Redwood Empire, ASHRAE

INVESTORS OF \$251 to \$500

Kazuyasu Hamada

Laws and Associates Mechanical Engineers

R. F. MacDonald Company

Rogers & Associates

Max Sherman

Specialty AC Products

INVESTORS OF \$151 to \$250

Air Treatment Corporation

Richard Charles

Edward B. Ward & Company

Bob Levi

Kent M. Lim & Company

Schauf Cooling Tower Rep

Mike Scofield

Syserco Incorporated

Western Plumbing & Heating

York International

Art Zigas

INVESTORS OF \$101 to \$150

American Mechanical Services

David Dacus

Allan Daly

Robert De Chene

Ron Eng

John Kniveton

Jon Malkovich

Hendrik Mouw

Steve Taylor

Dennis Thompson

Jack Palmer

Jon Wintermeyer

Gerald Yaffe

INVESTORS OF \$100

Edward Arens

Kyle Blocker

Edgar De Guzman

Kevin Dowling

Herb Duncan

Gustav Fehlhaber

Dick Friedman

Glenn Friedman

Mark Hydeman

Ted Jacob

Carl Jordan

Glen Leggoe

Marelich Mechanical

James Nemecek

Cory Palmer

Wasil Papow

Shlomo Rosenfeld

Robert Sonderegger

Ben Sun

Robert Voelz

John Ward

Kil Woong Yi

INVESTORS OF \$50 to \$99

Lewis Brooks	Fernando Palacios
James Davis	Ross Sherill
Barbara Dilts	Michael Simpson
John Gajan	Ronald Yaffe
James Lutz	Richard Yates
Richard Paillon	

INVESTORS OF \$10 to \$49

Dan Barrango	David Jump
Fred Bauman	Larkin & Assoc.
Earl Bedard Jr.	Mark Levi
Stanley Boghosian	Alfonso Ortega
Robert Davis	Stephen Sprague
Herb Duncan	Kuppe Srinivas
Peter Johnson	

To donate to the 2003-2004 campaign please contact:

Jon Malkovich - 925.688.1369

Johanna Gustafsson - 925.417.7218

From the Chapter Historian

ASHRAE: Golden Gate Chapter Biographies

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

G. Robert Voelz

Bob joined ASHVE in 1951. He was the President of the Golden Gate Chapter of ASHRAE for 1968/69. He became a Life member and a Fellow. Bob is a graduate of Purdue with a BSME and is a Professional Engineer with registrations in several states.

I first met Bob in 1959, when I first joined ASHRAE and again in 1973 when he hired me. Bob was a prominent engineer at the prestigious firm of Skidmore, Owings and Merrill (SOM) from 1951 to 1974. In 1957 through 1959, he was SOM's on-site engineer at the construction of the Air Force Academy in Colorado. He relocated to San Francisco in 1959, after finishing that project. From 1974 to 1991 he was with Bentley Engineers and since then he has been a consulting engineer in his own private practice.

Bob is a member of the honorary societies of TAU BETA PI and PI TAU SIGMA. Bob is a brilliant mechanical engineer- an engineer's engineer (peer compliment). He has always been sought after by other engineers to offer advice on a technical matter, and always is willing to share his knowledge and experience with others. As a matter of fact, at a recent Golden Gate Chapter meeting, ASHRAE Society's Past President Dick Charles took the stage to publicly acknowledge Bob for his gracious contributions to his fellow members, to which he received a standing ovation. Bob has been on the ASHRAE Society's committees for Test Method for rating fans for use in Smoke Management Systems, Control of Fire & Smoke, Smoke Management, Method of Testing the Performance of Cool Storage, Seismic Restraint Design for Mechanical Systems and the Nominating Committee. At the Chapter level, Bob has served on the Chapter Board positions, in addition to the Code Committee and Energy Committee. Bob also served from 1974 to 1978, on the California Energy Commission's committee that developed in 1977 and 1978, California's first energy conservation code for buildings, which has now become Title 24. In addition to the Air Force Academy, Bob's significant projects include the Weyerhaeuser Headquarters, Universal Studios, and the Bank of America Headquarters and Data Center buildings.

The Golden Gate Chapter thanks you Bob Voelz for your remarkable contributions to ASHRAE and our industry. (Information by the author's memory, from his association with Bob and the official ASHRAE biography.)



*Left: Tom Gilbertson
and George Dimic*



*Right: Jon Malkovich
and Cory Palmer*



*Left: Amy Cervantes,
Edgar DeGuzman, and
Tami Holderby*



*Right: Marlene and Jack
Kniveton and Sal Giglio*



*Left: Edgar DeGuzman
presents appreciation
award to Bob Polizzi*



*Right: Edgar
DeGuzman presents
appreciation award to
Shaun Webster*



*Left: The Current
GGASHRAE Board*



*Right: 12 Past
President's attending the
June meeting*

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, ASHRAE Golden Gate Chapter TEGA Chair

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

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

Technology Awards

The TEGA Committee would like to encourage all members to start thinking about Technology Awards for this year. **Entries will be due in late February 2004.**

The following first place winners from the Region X competition were eligible to submit to the Society level competition last month:

- Electronic Arts II, Steve Taylor & Jeff Stein, Taylor Engineering, LLC.
- Hamilton Landing Buildings 3, 4, 5 & 6, Jeff Blaevoet, Guttman and Blaevoet Consulting Engineers.
- Salazar Building at Sonoma St., Keith F. Marchando, Sonoma State University & Antonio Costa, Costa Engineers.
- UC Davis Medical Center, Ted Jacob and Shulamit Rabinovich, Ted Jacob Engineering Group Inc.

Congratulations to the Region X Technology Award Winners and good luck with the Society Award!

Code Committee

Many of the codes that we work with are in quite a state of flux these days. We are not talking quite as volatile as the state budget or the recall, but close. The following are a few issues:

Title 24 Energy Code - As most of you know, the 2005 Energy Standards are very close to final. I encourage all of you to join the chapter at the January Meeting when our past-president Mark Hydeman will share with us his first hand knowledge of the changes in the 2005 Title 24 Part 6 Energy Code. See the 'announcement' section of the website for more information.

Future California Codes - In July, the California Building Standards Commission (BSC) approved the adoption of the 2003 NFPA 5000 Building Code starting in 2006. In a separate action on May 14, 2003, the Commission adopted the 2002 NFPA's National Electrical Code. The Commission is scheduled to complete its work on the balance of codes under its purview through the consideration of the International Association of Plumbing and Mechanical Officials' 2003 Uniform Plumbing Code and Uniform Mechanical Code starting in October 2003, and the California Energy Commission's energy codes in January 2004.

Here is the BSC press release: http://www.bsc.ca.gov/documents/pressrelease_09-08-03.pdf

UMC past and future changes - Our Code Committee has been very busy over the last few years. We have forwarded comments on the subject of our reviews of codes to the responsible parties. Last year we sent comments to IAPMO regarding the 2003 UMC. Our comments were accepted and in a few cases were acted on. **The important part is we made a difference!** They modified the code to reflect comments.

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

Recently ASHRAE member Shlomo Rosenfeld brought to the Chapter's attention a problem in the current 2003 UMC. Section 504.1 along with 602.1 essentially does not allow positive pressure toilet exhaust ducts in return air

plenums. This issue was lost in the shuffle from the ICBO version of the UMC to the IAPMO version. IAPMO is aware of this mistake and is changing it via an upcoming erratum to the code.

Energy Efficiency and Hospitals – Have you ever wondered why Hospitals are exempt from the Energy Standards? Do you think energy efficiency is important in hospitals? If you said yes, you are not alone. More to come...

Contact Matt Chikhale at mmca1@msn.com if you would like to get involved with the Code Committee or if you simply have an issue with a part of the codes that you would like us to review.

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

Minutes of June 6, 2003 Meeting

Location – Carnelian Room, San Francisco

- Called to order at 6:40 p.m. by President Edgar Deguzman
- Self Introductions – Spouse/Significant other, Past Chapter Presidents and invited guests in attendance were recognized
- Jon Malkovich, Research Promotion Chair, asked for contributions to ASHRAE Research as the campaign year draws to a close. Jon was presented with the Chapter's check for this year which was \$4000.00.
- Kirk Peterson advertised the upcoming Golf Tournament at the Boundary Oaks Golf Course in Walnut Creek, CA on June 27th.
- It was announced that due to attendance conflicts the Annual Tennis Tournament will be in July this year.
- Jane Lin, UCB Student Chapter President and Newsletter Editor, told about the activities done by the student chapter for the Past year.
- Bob Levi gave a brief report on the recent CRC in Las Vegas. The Golden Gate Chapter President Edgar Deguzman was very busy walking up to the center stage at the CRC this year, as 4 First place and 2 Second place awards this year for the Regional Technology Awards were presented to our Chapter, thanks to the efforts of our TEGA Chair Scott Wayland and congratulations to all of our participating members and their Firms that filed entries and to Robert Marcial for our Chapter Website.
- Bob Levi invited all of the attending Past President's attending the meeting to stand and come forward for a group photo.
- Edgar Deguzman presented carved GG ASHRAE wooden plaques of appreciation to 14 members of the Chapter for all their hard work this past year.
- Marble Draw – No one won the prize for the cash, so the money pot rolls over to the October Meeting. Jon Wintermeyer did win the weekend in Reno, NV, which was the first prize donation made by Belimo Aircontrols.
- Jon Wintermeyer reminded everyone to return the 2003-04 Programs Ballot that is available on the website, which will help decide the speaker and program choices
- Bob Levi presented Edgar Deguzman with his President's certificate and diamond President's pin
- Comedian Will Durst was the main speaker and he present an hour of comic relief on Politics which was thoroughly enjoyed by all, no matter which political party members belonged to.
- Meeting adjourned at 9:15 p.m.

Minutes by Jon Wintermeyer

Employment Opportunities

Mechanical Engineer / Project Manager Wanted

Applicant shall have five or more years experience in mechanical and HVAC design systems for industrial, commercial, institutional and public projects. Prefer additional experience in plumbing and fire protection. Requires PE registration, experience in consulting environment, ability to successfully assume full project responsibilities, including client service. Mechanical Engineer / Project Manager will be responsible for the coordination of the design team, system selection, completion of contract documents, project bidding and construction administration.

Please send resume or questions about this announcement to:

Betty Wang-Garcia
TETER CONSULTANTS, LLP
8405 N. Fresno Street, Suite 3000
Tel: 559.437.0887 Fax: 559.438.7554
E-mail: bettyg@tetercon.com



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