

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 1

OCTOBER 2003

## October Meeting Notice

Date: Thursday, October 2<sup>nd</sup>  
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 29<sup>th</sup> 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.

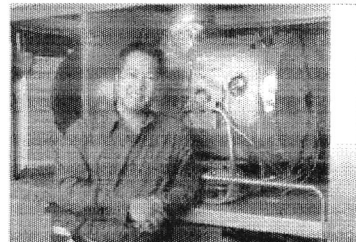
**Remember** - If you make a reservation and cannot  
attend, you need to cancel in advance, or you will be  
billed.

## 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 **Micro Turbine 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.



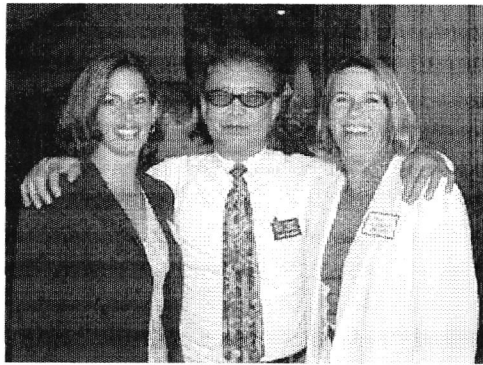
Rich Minar has been in the electric power industry in CA  
for 15 years. He began his career at PG&E where for  
close to 10 years he worked with commercial and  
industrial customers to increase their energy efficiency via  
application of new demand side technologies and  
applicable financial incentives. 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...)



*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*

## Golden Gate Chapter President's Message, October 2003

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### "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.ggashrac.org/officers.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 2<sup>nd</sup> 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 <sub>2</sub> 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](mailto: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 2<sup>nd</sup>*

Please reserve before **noon Monday, September 29<sup>th</sup>**. 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](http://www.paypal.com)> and make payment to [paypal@ggashrae.org](mailto: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 29<sup>th</sup>.

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](#), 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](mailto: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 Nemechek

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.)

# 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](http://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](mailto: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](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 1<sup>st</sup>, 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 [munca1@msn.com](mailto:munca1@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

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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 27<sup>th</sup>.
- 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

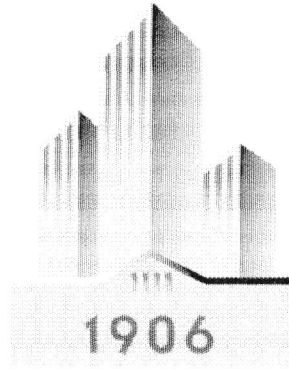
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### Mechanical Engineer / Project Manager Wanted

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: [betvvg@tetercon.com](mailto:betvvg@tetercon.com)



Norman S. Wright Mechanical Equipment Corporation  
oakland ♦ san francisco ♦ santa clara ♦ santa rosa

*Norman S. Wright Corporation Proudly Supports ASHRAE Research.*

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 2

NOVEMBER 2003

## November Meeting Notice

Date: Thursday, November 6<sup>th</sup>  
Place: Pacific Energy Center  
851 Howard Street  
San Francisco

### Schedule:

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

Cost: \$35 for members and guests

**Reserve by Tuesday, November 4th at noon**  
Students – No charge, but please reserve a spot  
Voucher – No additional charge, but please reserve  
a spot. Purchase 7 meetings and get 8 - \$245.00  
\$42 for non-members, late reservations and at the  
door

**Don't forget about PayPal!** You may pay in advance  
with your credit card for Chapter meetings through  
paypal. Send your payment to [paypal@ggashrae.org](mailto:paypal@ggashrae.org).

But please remember that you still have to register your  
reservation as noted below:

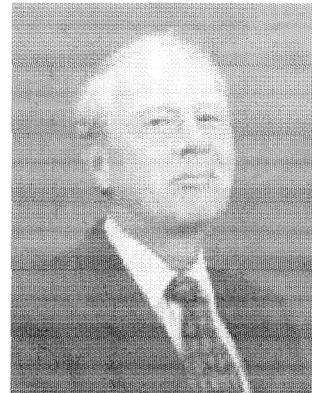
Please reserve on-line at [www.ggashrae.org/calendr.htm](http://www.ggashrae.org/calendr.htm)  
Click the appropriate event, fill out the form and send.

Or use the fax form in the Fog Dispenser (page 10).

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

## November Program Student Night and Guest Speaker Larry Felker from Belimo Aircontrols

“CO<sub>2</sub> Monitoring and Minimum Outdoor Air  
Control & Demand Control Ventilation”



Larry Felker is a mechanical engineer who has specialized  
in control systems and damper and valve applications for  
30 years. He is presently Fire and Smoke product  
manager for Belimo Aircontrols and works out of their  
Sparks, NV distribution center.

He is corresponding member of TC1.4, temperature  
controls and T.C5.6 Fire and Smoke. The talk here is  
based on an article, Minimum OA Control Methods that  
appeared in the April 2002 ASHRAE Journal. Handout  
copy available at the meeting.

**Students - don't forget to reserve a spot  
for Student Night!**

## Golden Gate Chapter President's Message, November 2003

### WHY IS ASHRAE NON-COMMERCIAL?

Thanks to the gentlemen from Capstone who gave a presentation on MicroTurbine Combined Heat & Power (CHP) Systems at our October 2<sup>nd</sup> meeting. The presentation was informative but too commercial. What's wrong with too much commercialism? First, allow me to tell you about the official policy. ASHRAE is a technical society whose objective is to advance the arts and sciences of HVAC&R. The Society is not organized to advance commercial interests. ASHRAE's restriction of membership to individuals only (companies cannot be members), reflects the Society's non-commercial character. With the foregoing in mind, ASHRAE's Commercialism Policy is as follows:

**“ASHRAE’s publications and activities shall be free of commercial bias and shall not imply ASHRAE endorsement of any commercial interest. Commercial recognition may be provided or implied when doing so is necessary to promote the arts and sciences of HVAC&R and the understanding of associated technology. Such opportunities for recognition shall be administered fairly and may include citations, sponsorships, advertising and acknowledgements.”**

Just imagine if each of our presenters used too much commercialism. We certainly would have a long line of potential presenters (translation: presenter = sales person). Where else could a sales person get a 45 minute audience of 50+ HVAC professionals? However, how many members would attend a meeting for a sales pitch? I believe that our members attend a meeting for several reasons: to receive technical information, to develop knowledge of problems and solutions, to network with other HVAC professionals, and for fellowship and enjoyment. Experienced presenters know that if they make their point and display their knowledge of the subject, the attendees will approach them for further help and information. These experienced presenters know that they don't need to advertise their product or service.

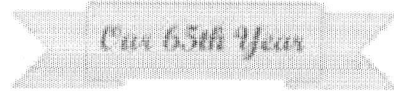
Hope to see you at the November 6<sup>th</sup> meeting at the Pacific Energy Center. Larry Felker knows his stuff and will abide by our commercialism policy. Don't forget to make your plans soon for the ASHRAE Winter Meeting and AHR Expo. See the article in this issue of the Fog Dispenser.

Respectfully submitted,  
Robert F. Levi, Chapter President

### 2003 – 2004 Golden Gate ASHRAE Events

DATE	LOCATION	PROGRAM	SPEAKER
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 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.)	Hybrid Central Chilled Water Plant Design and Operating Analysis	Ken Mozek, York International
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.



## Edward B. Ward & Company

Representing All Carrier Air Conditioning Products for Northern California  
Three Convenient Sales Offices to Serve You...

Concord 925.825.1540	San Jose 408.453.3300	South San Francisco 650.873.1660
Nick Dann Jeff Kerl Jon Malkovich Dennis Merideth Bob Ralph Ed Saincome Dave West Gene West	Dick Barclay Ron Eng Tim Ireland Tony Loretelli	Dan Bollman Elizabeth Dubensky Jesson Joy

ADP ▪ ARES ▪ CanFab ▪ Carrier ▪ Carson Industries ▪ Essick ▪ First Company ▪ Heat Craft  
M.W.Sausse' ▪ Magic Aire ▪ Mars ▪ Mason West ▪ MicroMetl ▪ Mitsubishi ▪ Payne ▪ RACAN Steril Aire ▪ Sterling  
▪ Sun Manufacturing ▪ Symcom ▪ Toshiba ▪ Uni-Products

### ASHRAE WINTER MEETING AND AHR EXPO

In January 2004 the Winter Meeting and Expo will be in Anaheim. This is the closest venue that you will see these events to the Bay Area for many years. The Winter Meeting is from January 24<sup>th</sup> through 28<sup>th</sup>. For more information, visit [www.ashrae.org](http://www.ashrae.org) and click on Meetings and Events. You will find information on the technical program, short courses, technical tours, and social events.

Have you ever been to an ASHRAE Winter Meeting? Want to get a free one-day pass (worth \$130)? The Golden Gate Chapter has a free pass to give away. Here are the rules:

- You must be a Member or Associate Member
- You have never before attended an ASHRAE Meeting (Winter or Summer)
- Send an email to [blevi@pacbell.net](mailto:blevi@pacbell.net) with a 25 word essay about why you want to attend the Winter Meeting
- Essay must be received by Wednesday, November 5<sup>th</sup>
- The winner will be announced during the November 6<sup>th</sup> chapter meeting – you do not need to be present to win

The winner will receive a certificate redeemable for either a one-day registration (day of their choice) or \$130 toward the full meeting advance registration fee of \$340 (net fee of \$210). The giant AHR Expo is from January 26<sup>th</sup> through 28<sup>th</sup>. 1,800 exhibitors will be displaying at the show. For more information, visit [www.ahrexpo.com](http://www.ahrexpo.com). At this website there is a link to HOTEL/TRAVEL INFO where you can make a room reservation or obtain discounted air travel. Remember that 50,000+ people attend the Expo, so don't wait to make your lodging reservation. At the website you may also pre-register for the Expo. Advance registration is free. On-site registration is usually \$20.00 plus the time required to wait in line to register. If you are registering for the Winter Meeting, your Expo registration is included and no additional registration is required. If you have any questions about either the Winter Meeting or Expo please contact Bob Levi at [blevi@pacbell.net](mailto:blevi@pacbell.net) or 408.918.5792.

## From the Chapter Historian: John "Jack" Kniveton

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ASHRAE: Golden Gate Chapter Biographies

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

Jack joined ASHVE and the Norman S. Wright Co. in approximately 1948. Jack served as the President of the Golden Gate Chapter of ASHRAE in 1963/64.

Jack stands out in the author's memory for several reasons. First was his sales technique for Air Distribution products. Jack knew his products from a technical point of view that many salespersons did not. Jack used this knowledge and background to educate young engineers regarding proper calculations and applications for his products. As an example, with Jack's help, I was calculating sound power levels, sound pressure levels and attenuation required for his sound traps before it was popular to have that done by the acoustical engineers. Then, of course, I would specify his company's sound trap as the basis of my design.

Secondly, because Jack and his company provided such good technical service and because they would from time to time change the manufacturers that they would represent because of new technologies or better quality. It became my practice to change my master specifications to agree with the manufacturers that he then represented. I always felt that by so doing, I was providing the best for my Clients and it was a product I was confident in.

Thirdly, Jack also organized a number of tennis weekends for ASHRAE couples from the Golden Gate Chapter. We went to a many nice clubs including La Costa & Rancho Bernado in Southern CA and El Rancho in Sacramento.

The Golden Gate Chapter thanks you Jack Kniveton for your contributions to ASHRAE and our industry for both technical and social aspects.

(Information by the author's memory, from his association with Jack.)

## 2003/2004 ASHRAE Resource Promotion Report

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The 2003-04 ASHRAE Resource Promotion year is off to a great start! Many of you have already given, either through me, or directly to ASHRAE Resource Promotion when renewing your national membership. Thank you for your donation. To those that have not donated, I look forward to talking with you. Remember, all donations are tax deductible, and you may use a check or credit card. Now you can make your donation online at [www.ashrae.org](http://www.ashrae.org).

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

### **Corporate Honor Roll Investors (\$150.00 or more)**

*Flow Products – Johnston Pump*

*R. F. MacDonald Company*

*Laws and Associates*

### **Individual Honor Roll Investors (\$100.00 or more)**

*Edward Arens*

*Carl Jordan*

*Cory Palmer*

*Kyle Blocker*

*John Kniveton*

*Shlomo Rosenfeld*

*Richard Charles*

*Bob Levi*

*Dennis Thompson*

*Glenn Friedman*

*Kent Lim*

*Robert Voelz*

*Mark Hydeman*

*Robert Marcial*

*Jon Wintermeyer*

If you contributed at the "Honor Roll" level last year, you are entitled to a gift. A medallion, picturing a prominent HVACR engineer is available as ASHRAE's way of saying thank you. If you would like your medallion or if you are interested in making a donation, please contact...

Jon Malkovich

925.688.1369 x4

[jon.malkovich@ebward.com](mailto:jon.malkovich@ebward.com)

Johanna Gustafsson

925.417.7218

[johanna.gustafsson@york.com](mailto:johanna.gustafsson@york.com)

## 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](http://www.ggashrae.org)**. It's important that every member knows what TEGA is all about! TEGA's role with society and the members includes many areas of responsibility. ASHRAE functions with a grass roots base, and TEGA is glue that binds everything together. One of the roles is for TEGA to create, enhance and maintain the two-way communication between members and society technical activities. TEGA assists with member interaction with the community as well as with local and state affairs (without getting involved with "the political process"). TEGA also helps with local and regional recognition of ASHRAE's authoritative position.

TEGA needs your help!!! Please contact me if you would like to participate / join the TEGA Committee at [sewayland@comcast.net](mailto: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.** More info to come soon...

### **Code Committee**

We are now at the start of the next cycle for the UMC and there is a lot of work to be done. The Golden Gate Chapter, the TEGA and the Code Committee invite you to help us make a difference again! Comments on the 2003 UMC and UPC are requested by IAPMO starting this month and ending February 1<sup>st</sup>, 2004. The Code Committee will be submitting comments and would like your input. **Contact Matt Chikhale at [mmcal@msn.com](mailto:mmcal@msn.com) if you would like to get involved with the Code Committee or if you simply have an issue with a part of the codes that you would like us to review.**

In last month's column I summarized several of the Code Committee's activities. One of the topics was a problem that member Shlomo Rosenfeld found in the UMC that essentially does not allow exhaust ducts in plenums. I noted one example that all of us design – toilet exhaust ducts. Here is a clarification to the actual problem:

Section 504.1 of the 2001 UMC does not allow ANY exhaust duct in a return air plenum. IAPMO apparently has corrected the language in the 2003 UMC. The California Building Standards Commission will not correct the 2001 model code at this time. Therefore, to design a code-complying system, you would need to run an exhaust duct under the ceiling of a return air plenum or somehow separate it from the return air plenum – obviously a ridiculous scenario. Until the 2003 UMC is adopted, we are stuck with this rule. An engineer should consider reviewing this issue with your client and your code official to determine a course of action. Our professional community has the opportunity to shape the codes we work with. Help us make a difference.

### **ASHRAE News & Info**

Society is continually making significant improvements to their websites both in terms of navigation and content. All members are encouraged to check out [www.ashrae.org](http://www.ashrae.org) One topic is on HANDBOOK DEVELOPMENT:

A new ASHRAE Handbook reviser program should make revising chapters easier and more efficient for technical committee members. Handbook chapter revisers can now download Microsoft Word base files for the 2003 ASHRAE Handbook, HVAC Applications from ASHRAE.org. Handbook chapters are placed on a password-protected page from which revisers can download the current, authorized versions of Handbook chapters in Word format for editing. Go to the following link for more information:

<http://www.ashrae.org/template/EducationLinkLanding/category/1553>

### **Development of Title 24 2005 Standard**

The Title 24 2005 standard is in its final stages of development. Information on the rule making process can be found at the website, [www.energy.ca.gov/2005\\_standards/rulemaking](http://www.energy.ca.gov/2005_standards/rulemaking). Copies of draft standard documents can be found at the link, [www.energy.ca.gov/2005\\_standards/rulemaking/documents](http://www.energy.ca.gov/2005_standards/rulemaking/documents). Comments should be sent to Bill Pennington at [Bpenning@energy.state.ca.us](mailto:Bpenning@energy.state.ca.us).

## Student Activities Committee - November is Student Night

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By Gary Harbison, Student Activities Chair

We will be hosting local engineering students from Cal and SF State. This is your invitation to sponsor a student for dinner and cocktails...and then to regale them with your insights into the wonders of, pitfalls to be wary of, and general bons mots of our industry.

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](mailto:GHarbison@CalHydro.com)

### Minutes of October 2, 2003 Meeting

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Location – Carnelian Room, San Francisco

- Called to order at 6:35 p.m. by President Bob Levi
- Self-introductions and invited guests in attendance were recognized; in addition to Bob Levi's request that each person tell something they did on their summer vacation.
- June 5<sup>th</sup> Chapter Meeting minutes were approved as published in the Fog Dispenser.
- Johanna Gustafsson, Resource Promotion Vice-Chair, asked the attending members to remember contributions to ASHRAE Resource as the year Chapter year begins. And noted that the annual results of last year's program were printed and copies available on each table.
- Gary Harbison, Chair for Student Activities discussed his plans for the year and also requested that members consider his need for a Vice-Chair this year.
- Jon Wintermeyer, the President Elect, discussed the programs for the upcoming year and thanked the members for their input and effort in filling out the program questionnaire last May and June. The top 6 requested topics have already been scheduled into the Events calendar for the year. Jon also discussed the upcoming December 5<sup>th</sup> Seminar on Commissioning and introduced the Seminar Co-Chairs, Don Nurisso and Joe Olivier.
- Scott Wayland, Chair for TEGA talked on what TEGA is and what he hopes to work on with the Chapter members for the next year.
- Lucky Lofton, Chair for Membership talked on his plans for the year and also introduced Amy Cervantes, the Membership Vice Chair.
- Carl Jordan, Chapter Historian asked if anyone has copies of Fog Dispensers prior to 1977 to expand the chapter archives
- Bob Levi presented remaining carved GG ASHRAE wooden plaques of appreciation to Scott Wayland, TEGA Chair, and Allan Daly, Database Chair for all their hard work for the Chapter this past year.
- Steve Taylor was recognized for the announcement of his upcoming award of the ASHRAE Fellow grade.
- Marble Draw – No one won the prize for the cash, so the money pot rolls over to the November Meeting. Mark Collins of Johnson Controls did win the \$100 dinner gift certificate, which was the first prize donation made by York International, in addition to 2 bottles of Wine. Thank you York International for your continued support to the Chapter.
- Jon Wintermeyer and Bob Levi apologized for the delivery of the Fog Dispenser newsletter being so close to the meeting date and noted that it would not happen again.
- Joe Olivier displayed his Past President's badge that had just arrived.
- Jon Wintermeyer introduced Andrew Wang and Rich Minar, the speakers for the evening. They discussed Micro Turbine Combined Heat and Power (CHP) Systems and answered questions from the floor throughout their informative talk. Jon presented them both with Barnes and Noble Gift Certificates at the conclusion.
- Meeting adjourned at 9:10 p.m. (Minutes by Jon Wintermeyer)

## ASHRAE Distinguished Lecturer Programs Sacramento, San Jose and San Francisco, December 3-5, 2003

Ronald J. Wilkinson, PE, ASHRAE Distinguished lecturer, will be presenting two dinner meetings and one day-long seminar for San Francisco area ASHRAE Chapters.



Sacramento Chapter--Wednesday evening, December 3rd, and Golden Gate and San Jose Chapters at the San Mateo Marriott Hotel--Thursday evening, December 4th:

The topic of the presentation will be "Buying or Selling, How to Make Commissioning Work for You." Commissioning is total quality assurance applied to the modern building construction project. The dinner talk will review the eight stages of integrated commissioning as described in ASHRAE Guideline 1-1996, from project planning and design through construction and the first year of occupancy, and how these quality assurance services are provided within the commissioning process. Mr. Wilkinson will give examples of how commissioning services are specified and purchased by private and public sector organizations and what the owner should expect in a commissioning service provider.

The new Building Commissioning Association (BCA) certification program will also be described along with how this landmark certification was developed and how it can help both purchasers and providers make the most of commissioning. Time will be provided for questions at the end of the presentation and all participants will be provided with an extensive list of references for further training and information about new and existing building commissioning.

Open seminar sponsored by ASHRAE for all Chapters--**Friday, December 5th, 9:00am to 4:00pm** at the Pacific Energy Center in San Francisco. Cost of the seminar is \$225 with early registration prior to November 21<sup>st</sup> and \$250 for later reservations. You must register online at <http://www.ggashrae.org/calendr.htm>. You can pay using your charge card with "PAYPAL" or mail your check to:

**Glenn Friedman, Treasurer**

C/O Taylor Engineering  
1305 Marina Village Parkway, Suite 101  
Alameda, CA 94501

**\*\*Make check payable to *Golden Gate ASHRAE Seminar*.**

During this seminar, Ronald Wilkinson will provide a detailed description of the commissioning process from planning through occupancy and the benefits to the owner, contractor, equipment supplier and HVAC design team. He will review his research into commissioning costs and will discuss methods of purchasing commissioning services and selecting and qualifying the providers of these services. Mr. Wilkinson will focus on the commissioning of sustainable architecture buildings for the US Green Building Council's Leadership in Energy and Environmental Design (LEED) program and will also discuss the application of the commissioning procedure to include interoperable control systems. Commissioning is a pre-requisite for qualifying a building for LEED certification, and this certification has been shown to be a powerful draw for the ever-expanding population of socially responsible investors. Interoperable Control systems are seeing increasing use as tools to limit the re-training required by diverse control system protocols, to streamline the remote monitoring process and to allow the competitive procurement of new building controls for projects with existing proprietary control systems. Ronald Wilkinson will touch on the latest developments that can improve the commissioning process and lay the foundation for sustainable high building performance while being environmentally and energy conscious.

Ronald J. Wilkinson is Vice President of Operations for Dometech Commissioning Services of Edison, New Jersey. He earned his BSMAE from the Illinois Institute of Technology in Chicago in 1971 and his MPA from The Evergreen State College in Olympia, Washington in 1985. He is a licensed mechanical engineer in the states of Washington and Montana, with 30 years of engineering experience in commercial, industrial and institutional facilities design.



Mr. Wilkinson was Secretary, Treasurer and Vice Chair of the Seattle Chapter of the American Society of Mechanical Engineers from 1978-1982 and has been a member of ASHRAE since 1982. He is currently a member of the Building Commissioning Association and the BCA Commissioning Certification Test committee. He is a recipient of the Environmental Protection Agency's Environmental Excellence Award, the Montana Governor's Award for Excellence and is an ASHRAE Research Investor. He is Co-Chair of the Commissioning Guidelines Committee for the National Association of State Facilities Administrators (NASFA), a member of the HPAC Magazine Editorial Board and a member of the USGBC training faculty for LEED commissioning programs.

Mr. Wilkinson has written for most major publications in the field of facilities design and energy conservation, including the ASHRAE Journal, and is the author of the "Best Practices in Commissioning" handbook published by the Northwest Energy Efficiency Alliance and co-author of the NASFA "Building Commissioning Recommended Guidelines." He has been an invited speaker at the National Conferences on Building Commissioning since 1998.

## Employment Opportunities

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### **HVAC Engineer / Project Manager wanted**

Walnut Creek consulting mechanical engineering firm seeks a talented senior level registered HVAC project engineer with minimum 12 years experience. Excellent technical and communications skills required. Growth opportunity and competitive salary and benefits. E-mail resume in confidence to [kris@mds-sf.com](mailto:kris@mds-sf.com).

### **Mechanical Engineer Opportunity at Arup**

Arup is a leading international design engineering firm with over 6,000 employees worldwide in 70+ offices. We currently have a position for a Mechanical Engineer in our San Francisco office (position E2265) to work in a growing multidisciplinary team engaged in the design of a variety of building projects. This individual will work on designs across a range of commercial, healthcare and the laboratory projects. As a member of our team, you will be responsible for managing the mechanical design of small to medium size projects and/or forming part of a larger team of large projects led by a senior member of staff. A minimum of four years' experience in a design consultancy or with a contractor is required. Good technical and people skills are essential, together with an interest in sustainability. AutoCAD experience, HVAC design experience and a PE license is preferred. For further information about our firm, please visit our website at <[www.arup.com](http://www.arup.com)>. Arup is an Equal Opportunity Employer.

To apply, please email resume to [usa.recruitment@arup.com](mailto:usa.recruitment@arup.com) and reference Mechanical Engineer (E2265). No faxes or hard copy resumes, please.

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

### **Mechanical Engineer Wanted**

Berkeley Lab, a multidisciplinary scientific facility conducting non-classified research, maintains 76 buildings on more than 180 acres in the beautiful hills above the UC Berkeley campus. Our Facilities Department has an opportunity for an engineer to formulate and implement detailed mechanical HVAC, plumbing, fire protection, and laboratory utility systems designs for multiple projects. This will entail preparing engineering analyses, conceptual designs, design criteria, construction documents, and operating/maintenance information based on specific requirements. You will be expected to coordinate projects, perform building code compliance checks, and verify system performance. To qualify, you must possess professional Mechanical Engineer Registration in the state of California, substantial relevant experience designing HVAC, fire protection, plumbing and utility systems for wet/dry labs, clean rooms, large-scale data centers and other facility types, and a thorough understanding of industry and regulatory standards, codes and regulations. Proficiency with AutoCAD 2002 and other software applications related to engineering, design, computerized planning and control methods are essential.

To apply, complete our online application at <http://cjo.lbl.gov> (click on apply on-line near the bottom of the page).

Alternatively, in the body of an e-mail message, send one copy of your resume to [employment@lbl.gov](mailto:employment@lbl.gov). You can also mail a hard copy of your resume to LBNL Staffing, One Cyclotron Road, Bldg. 937R0600, Berkeley, CA, 94720, or fax it to 510.486.5870. Please reference job number FA/016333/WASH.

### **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](mailto:bettyg@tetercon.com)

# ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

*For Thursday, November 6th*

Please reserve prior to **Tuesday at noon, November 4<sup>th</sup>**.

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and click on "Meetings", and click on "Nov 6", fill out the form and send. Or FAX the following form to Debbie Marshall (510) 639-3337.

The Meal Voucher Plan is still available – 8 meals for the price of 7 is \$245.00

**Members with vouchers – you too – must send in your reservation. We need to know how many meals to request.** Please cancel your reservation if you cannot attend. Cancellations must be received by November 3rd.

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

*Agne*

## 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 web site, 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).

## Pay for meeting vouchers (\$245) using your credit card

Purchase your 2003-2003 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 2003 - June 2004 season and the "guest for free" option will not carry over to the 2004-2005 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/announce.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@uclink4.berkeley.edu](mailto:rmarcial@uclink4.berkeley.edu).

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

## MARBLE DRAW

Thank you York International for the donation of a \$100 Dinner Gift Certificate for the first prize and 2 bottles of wine at the 10-2-03 meeting. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at [nicolina.j.guiliano@jci.com](mailto:nicolina.j.guiliano@jci.com)



*Bob Levi &  
Jim Lazor*



*Bob Levi presents  
an appreciation  
award to Scott  
Wayland*



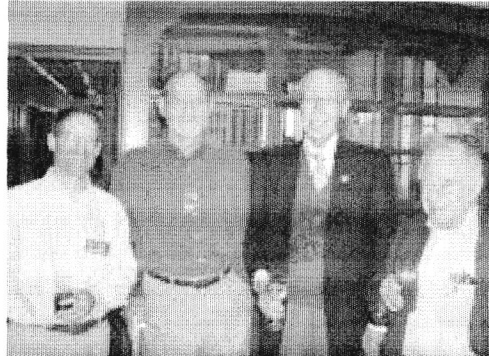
*Bob Levi presents  
an appreciation  
award to Allan  
Daly*



*Shaun Webster  
awards the lucky  
Marble Draw  
winner Greg  
Boyle with a prize*



*Jon Wintermeyer  
with the speaker  
Rich Minar*



*Glenn Friedman,  
Carl Jordan,  
Dick Charles,  
and Bob Braun*



*Jon Wintermeyer,  
Elizabeth  
Dubensky and  
speaker Andrew  
Wang getting  
things set up for  
the program.*



*Dennis Thomson  
and Jeff Roberts*

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLII - NUMBER 3

DECEMBER 2003

## December Meeting Notice

Date: Thursday, December 4<sup>th</sup>  
Place: San Mateo Marriott  
1770 South Amphlett Blvd.  
San Mateo, CA 94402

### Schedule:

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

Cost: \$35 for members and guests

**Reserve by Monday, December 1<sup>st</sup> at noon**  
Students – No charge, but please reserve a spot  
Voucher – No additional charge, but please reserve  
a spot. \$42 for non-members, late reservations and  
at the door

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

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and  
clicking on "Meetings", and click on "Dec 4", fill out the  
form and send.

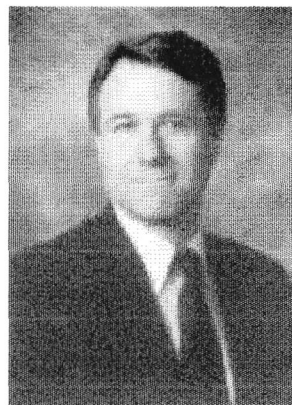
Or use the fax form in the Fog Dispenser.

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

## December Program

**"Buying or Selling, How to Make  
Commissioning Work for You"**  
Joint Meeting with the  
San Jose Chapter

Ronald J. Wilkinson, PE, ASHRAE Distinguished  
lecturer, will be presenting two dinner meetings and one  
daylong seminar for San Francisco area ASHRAE  
Chapters.



The topic of the  
presentation will be "Buying  
or Selling, How to Make  
Commissioning Work for  
You." Commissioning is  
total quality assurance  
applied to the modern  
building construction  
project. The dinner talk will  
review the eight stages of  
integrated commissioning as  
described in ASHRAE  
Guideline 1-1996, from  
project planning and design

through construction and the first year of occupancy, and  
how these quality assurance services are provided within  
the commissioning process. Mr. Wilkinson will give  
examples of how commissioning services are specified  
and purchased by private and public sector organizations  
and what the owner should expect in a commissioning  
service provider. Continued on Page 4

## **Golden Gate Chapter President's Message, December 2003**

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### **EDUCATION – WHAT HAVE YOU LEARNED RECENTLY?**

When was the last time that you took advantage of the many opportunities to improve your knowledge of HVAC? Have you attended any courses lately? Are you too busy? Remember what Abraham Lincoln said when asked, “what would you do if you have only two hours to chop a cord of wood?” Lincoln’s response was that he would spend the first hour “sharpening his ax”. Of course, this is a metaphor for sharpening your skills. To stay at the top of your game don’t you frequently need to sharpen your skills?

Are you concerned about attending a course taught by a competing consulting engineer or contractor? Would a surgeon be concerned about learning a new technique from another surgeon? NO – if he or she doesn’t learn a new technique, then he or she will only know the old method. If you need an operation, wouldn’t you want to have a surgeon working on you that was trained on the best methods? Doesn’t a building owner or architect also want someone designing or building their facility to be trained on the newest and best methods?

Here is a brief list of upcoming educational opportunities and their respective links:

- Golden Gate ASHRAE Seminar on Commissioning on December 5<sup>th</sup>  
<http://www.ggashrae.org/meetings/2003-2004/seminar.htm>
- PG&E Pacific Energy Center HVAC Programs – All no-charge  
[http://www.pge.com/003\\_save\\_energy/003c\\_edu\\_train/pec/programs/current/hvac.shtml](http://www.pge.com/003_save_energy/003c_edu_train/pec/programs/current/hvac.shtml)
- ASHRAE Winter Meeting Professional Development Seminars and Short Courses  
<http://www.ashrae.org/template/EducationLinkLanding/category/1496>
- ASHRAE Winter Meeting Technical Program  
[http://www.ashrae.org/content/ASHRAE/ASHRAE/ArticleAltFormat/20031111112342\\_347.pdf](http://www.ashrae.org/content/ASHRAE/ASHRAE/ArticleAltFormat/20031111112342_347.pdf)
- UC Berkeley Extension HVAC Certificate Program  
<http://www.unex.berkeley.edu/cert/hvac.html>

Do you think that your skills are absolutely at the forefront, and don’t need any additional education? Then why not assist the rest of us and volunteer to teach a class or seminar. By sharing your expertise, you will become more highly regarded as one of the pioneers and experts of our industry.

A good start to learning something new would be to attend our next meeting on December 4<sup>th</sup> in San Mateo. Come hear an ASHRAE Distinguished Lecturer discuss Commissioning. Hope to see you there.

Best wishes for a happy and safe holiday season.

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

### **IN MEMORIAM**

**Victor Bach** – Life Member; Died October 31<sup>st</sup>; 71 years old; Partner in Western Plumbing and Heating, Inc. of San Francisco; Past President of MCAA (Mechanical Contractors Association of America)

View his obituary at:

<http://www.sfgate.com/cgi-in/article.cgi?file=/chronicle/archive/2003/11/05/MNBACHVICT21.DTL>

**Richard Blickensderfer** – Member; Died July 28<sup>th</sup>, 54 years old.

View his obituary at:

<http://sfgate.com/cgi-bin/article.cgi?file=/chronicle/archive/2003/09/07/MNBlickens20.DTL>

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**OAKLAND, CA 94603            FAX: (510) 639-3337**

## 2003 – 2004 Golden Gate ASHRAE Events

DATE	LOCATION	PROGRAM	SPEAKER
Jan. 8 LUNCH	Carnelian Room	Title 24 year 2005 version, What's coming	Mark Hydeman 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.)	Hybrid Central Chilled Water Plant Design and Operating Analysis	Ken Mozek, York International
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

## December Program, continued...

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The new Building Commissioning Association (BCA) certification program will also be described along with how this landmark certification was developed and how it can help both purchasers and providers make the most of commissioning. Time will be provided for questions at the end of the presentation and all participants will be provided with an extensive list of references for further training and information about new and existing building commissioning.

...

Ronald J. Wilkinson is Vice President of Operations for Dometech Commissioning Services of Edison, New Jersey. He earned his BSMAE from the Illinois Institute of Technology in Chicago in 1971 and his MPA from The Evergreen State College in Olympia, Washington in 1985. He is a licensed mechanical engineer in the states of Washington and Montana, with 30 years of engineering experience in commercial, industrial and institutional facilities design.

Mr. Wilkinson was Secretary, Treasurer and Vice Chair of the Seattle Chapter of the American Society of Mechanical Engineers from 1978-1982 and has been a member of ASHRAE since 1982. He is currently a member of the Building Commissioning Association and the BCA Commissioning Certification Test committee. He is a recipient of the Environmental Protection Agency's Environmental Excellence Award, the Montana Governor's Award for Excellence and is an ASHRAE Research Investor. He is Co-Chair of the Commissioning Guidelines Committee for the National Association of State Facilities Administrators (NASFA), a member of the HPAC Magazine Editorial Board and a member of the USGBC training faculty for LEED commissioning programs.

Mr. Wilkinson has written for most major publications in the field of facilities design and energy conservation, including the ASHRAE Journal, and is the author of the "Best Practices in Commissioning" handbook published by the Northwest Energy Efficiency Alliance and co-author of the NASFA "Building Commissioning Recommended Guidelines." He has been an invited speaker at the National Conferences on Building Commissioning since 1998.

## Student Activities Committee – The Student Zone

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By Gary Harbison, Student Activities Chair

Each year we award grants to encourage student involvement in our industry. Our first grants support students' travel to the ASHRAE winter meeting in Anaheim, CA, January 24 to 28, 2004. The application for this grant can be downloaded from the Golden Gate Chapter website. Go to [www.ggashrac.org](http://www.ggashrac.org), click on Scholarship and Awards, then click on Travel Grants, and download the form.

The National Student Activities Committee has scheduled a Student Program on Sunday, January 25, 2004; which includes a Student Breakfast, Students Presentations, Career Profiles, and Technical Tour. The Technical Tour has been designed especially for students. Tour is of the Ford Premier Automotive Group Headquarters which houses office facilities, design studios, conference areas and showrooms for the Ford premier brands that include Volvo, Aston-Martin, Jaguar, Range Rover, and Lincoln-Mercury. This was the first LEED-tm certified building in California and includes many innovative design features, such as raised-floor air distribution, fuel cell and a green roof. The tour will include bus transportation and a box lunch. Please plan to pre-register if you apply for a grant to make sure you can take in this special day.

**Register on-line at [www.ashrae.org](http://www.ashrae.org). Registration is free for students. The modest charge for the student-day activity will be reimbursed by Golden Gate Chapter**

**ASHRAE Distinguished Lecturer Programs**  
**Presented by GGASHRAE in San Francisco at the PG&E Energy Center**  
**December 5, 2003**

Ronald J. Wilkinson, PE, ASHRAE Distinguished lecturer, will be presenting this day-long seminar on the multiple uses and needs of Commissioning.

THIS open seminar sponsored by GGASHRAE for all Chapters--Friday, December 5th, 9:00am to 4:00pm at the Pacific Gas and Electric Energy Center, San Francisco. Cost of the Seminar is \$225 with early registration prior of November 26<sup>th</sup> and \$250 for later reservations. You must make your registration on line at the website and can pay using your chargecard with "PAYPAL" or mail your check to GGG AASHRAE Seminar to the attention of the:

Glenn Friedman, Treasurer  
C/O Taylor Engineering  
1305 Marina Village Parkway, Suite 101  
Alameda, CA 94501  
Make check payable to *Golden Gate ASHRAE Seminar*.

The seminar will provide a detailed description of the commissioning process from planning through occupancy and the benefits to the owner, contractor and design team. It will review Mr. Wilkinson's research into commissioning costs as published in the ASHRAE Journal and will include methods of purchasing commissioning services and selecting and qualifying commissioning service providers.

The seminar will utilize a focus on commissioning sustainable architecture buildings for the US Green Building Council's Leadership in Energy and Environmental Design (LEED) program and will also focus on applying the commissioning procedure to interoperable control systems. Commissioning is a pre-requisite for qualifying a building for LEED certification, and the LEED certification has been shown to be a powerful draw for the ever-expanding population of socially responsible investors. LEED certification and commissioning join together to provide a healthy building with a productive interior environment as well as testimony that the owner has constructed the building to have minimal impact on the exterior environment.

Interoperable control systems are seeing increasing use as tools to limit the re-training required by diverse control system protocols, to streamline the remote monitoring process and to allow the competitive procurement of new building controls for projects with existing proprietary control systems. The program will review some special requirements for commissioning interoperable and web-enabled control systems and show how these modern developments can improve the commissioning process and lay the foundation for sustainable high building performance.

Course information includes an annotated text for all participants. The text includes references for commissioning benefits to help sell services and introduce commissioning into existing construction programs. It also includes web-sites for free and low-cost information for further learning, and the forms, procedures and training required to be a commissioning service provider.

## **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](http://www.ggashrae.org)**. It's important that every member knows what TEGA is all about! TEGA's role with society and the members includes many areas of responsibility. ASHRAE functions with a grass roots base, and TEGA is glue that binds everything together. One of the roles is for TEGA to create, enhance and maintain the two-way communication between members and society technical activities. TEGA assists with member interaction with the community as well as with local and state affairs (without getting involved with "the political process"). TEGA also helps with local and regional recognition of ASHRAE's authoritative position.

TEGA needs your help!!! Please contact me if you would like to participate / join the TEGA Committee at [sewayland@comcast.net](mailto: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**. For more information including an application, go to:

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

The 2004 Technology Award winners (Society competition) are listed below. Judging for these awards took place October 24-26 in Orlando, Florida. Ron Thompson chaired the Judging Panel.

The First Place winner will be honored at the 2004 Winter meeting in Anaheim. A Poster Display of the first place winner will be available for viewing on Tuesday, January 27, 2004, from 9:00-11:00 a.m. at the Poster Session. Both winners will be featured in the ASHRAE Journal in the March 2004 issue.

#### **First Place:**

**David C. Inghram**

KJWW Engineering Consultant  
2882 106<sup>th</sup> St., Suite 100  
Des Moines, IA 50322

Category II - Institutional Buildings - New  
Des Moines Area Community College-West  
Campus  
Des Moines, Iowa

Region VI  
Robert Linder RVC

#### **Honorable Mention:**

**Jeffrey Blaevoet**

Guttman & Blaevoet Consulting Engineers  
2351 Powell Street  
San Francisco, CA 94133

Category I - Commercial Buildings - Existing  
Hamilton Landing Hanger 3, 4, 5, & 6  
Novato, California

Region X  
Saul Villanueva

### **Code Committee**

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

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

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

## Spring 2004, Course Offerings at UC Berkeley Extension

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Golden Gate Chapter will co-sponsor the HVAC/R Certificate Program offered next semester. All three of the core courses for the for UC Berkeley Extension/Golden Gate Chapter co-sponsored HVAC/R certificate program will be offered in Spring of 2004. Registration opens on December 1<sup>st</sup>. You can register on-line at <http://www.unex.berkeley.edu/>. The certificate program is described on the UC Berkeley Extension service website at <http://www.unex.berkeley.edu/cert/hvac.html>.

The courses offered this Spring include:

1) X470 (EDP 303453) HVAC Design: Equipment and Distribution Systems with Steve Taylor, PE and Allan Daly, PE of Taylor Engineering. This course covers a range of topics including design of air and hydronic distribution systems, selection of central equipment (including fans, pumps, boilers, chillers and terminal units), zoning, ventilation, HVAC system selection and a host of other design issues. The course manual was written by Steve Taylor. It runs from February 2<sup>nd</sup> through April 26<sup>th</sup>, 2004 (12 weeks, 7pm-9:30pm) and will be held at the PG&E Pacific Energy Center at 851 Howard Street in San Francisco.

2) X472 (EDP 313080) Design Considerations in Air Conditioning and Heating Systems with Bob Braun, PE. The course covers a range of big picture topics on the design of HVAC systems including system selection and design coordination. This course runs from January 14<sup>th</sup> to March 17<sup>th</sup>, 2004 (10 weeks, 7pm-10pm). It will be held at the UC Berkeley Extension Service downtown location at 425 Market Street in San Francisco.

3) X473 (EDP 313551) Temperature Controls for Heating and Air Conditioning Systems with Mark Hydeman, PE and Steve Taylor, PE of Taylor Engineering. This course covers the design of control systems soups to nuts including topics on pneumatic controls, sensors, development of point lists, energy efficient sequences, open control protocols, upgrading existing control systems, control system performance verification and others. The course manual will be the ASHRAE Self-Directed Learning Course on HVAC controls with supplemental notes on DDC system design and performance verification. This course runs from March 31<sup>st</sup> through June 16<sup>th</sup>, 2004 (12 weeks, 7pm-9:30pm). It will be held at the PG&E Pacific Energy Center at 851 Howard Street in San Francisco.

All courses are \$425 per person. For information on the X470 or X473 courses contact Steve Taylor at [staylor@taylor-engineering.com](mailto:staylor@taylor-engineering.com), Allan Daly at [adaly@taylor-engineering.com](mailto:adaly@taylor-engineering.com) or Mark Hydeman at [mhydeman@taylor-engineering.com](mailto:mhydeman@taylor-engineering.com) (or by phone at 510-749-9135). For information on X472 contact Bob Braun at [robertb12@juno.com](mailto:robertb12@juno.com).

## MEMBERSHIP - **GET \$20 FROM ASHRAE!**

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By Lucky Lofton, Membership Promotion Chair

Have you been an Associate Member of ASHRAE for many years? If so, you may be eligible for advancement to Member grade. The requirements for Member grade are that you must have the equivalent of 12 Society-approved years of experience composed of an approved combination of: completed education beyond high school; work experience; and professional engineering or related registration or license issued by a legally authorized body. Please visit <http://www.ashrae.org/template/AssetDetail/assetid/25750> for a detailed list of qualifications. You may submit your application for advancement through an interactive on-line form. Click on <http://ashrae.confex.com/ashrae/advance/login.epl>, enter your member number and PIN (both are on the ASHRAE card sent with your dues renewal), fill out the details, and submit the form. Society's Admissions and Advancement Committee reviews the applications. Applicants approved for advancement to Member grade will receive a \$20 incentive coupon that can be used for the purchase of ASHRAE logo merchandise, annual dues, or publications. Should you have any questions, please don't hesitate to contact me at [llofton@accoes.com](mailto:llofton@accoes.com), or 925.681.2226.

## From the Chapter Historian: Karl Guttman

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ASHRAE: Golden Gate Chapter Biographies

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

Karl is the third among four generations of engineers in his family. His grandfather first a watchmaker, invented and patented an odorless toilet in Vienna. Then he became a manufacturer of plumbing fixtures. Karl's father was a civil engineer in Vienna. Both Karl and his son Steve are mechanical engineers in San Francisco. Karl earned his engineering degree in 1938 at the Vienna State College of Engineering. That year he relocated to Great Britain, where he was later interred by the British government and deported to Australia. In 1942, he was given 3 choices: remain in a camp for the duration of the war, return to England or join the Australian army. He chose the later. After a brief army career, he worked in a variety of engineering positions there until relocating to the United States in 1949, and arriving in California.

For the next several years he worked for San Francisco engineers, including the U. S. Army. During this time the army felt that Karl had displayed too much sympathy for the black people. Consequently, the army initiated a deportation hearing on him, which he survived. In 1950, he started Kasin, Guttman and Associates, which later became Guttman and MacRitchie and later still became the current Guttman and Blaevoet. Early in this career, while working for the San Francisco firm of Zulfikar Cumali, Karl developed a computer program for the selection of reheat coils. Karl's engineering practice avoided government and military work; and he wouldn't do university work if a loyalty oath were required. So he focused on hospital work in the bay area. Karl was President of the Engineering Societies Committee for Manpower Training "ESCMT" a group that placed hundreds of disadvantaged people to work in bay area engineering offices from 1967 to 1992. Karl is a registered engineer in several states and was President of the Golden Gate Chapter of ASHRAE in 1960/61. He was elected Fellow in 1981 and became a 50 year Distinguished Member in 2000.

Karl has belonged to the following organizations:

1. The Building Safety Board of the States Office of Statewide Hospital Planning and Development ( OSHPD ).
2. Consulting Engineers Association of California
3. American Association of Energy Engineers
4. Earthquake Engineering Research Institute
5. Association of Hospital Engineers.

He published the "Proposed Method of Indoor Air Pollution Control by Dilution" in 1987. Karl has had a distinguished engineering career and has effected numerous significant designs. The Golden Gate Chapter thanks you Karl Guttman for your contributions to ASHRAE and our industry. (Information from interview of Karl Guttman by the author, in addition to his official ASHRAE biography on file.

## Minutes of November 6, 2003 Chapter Meeting

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Location – PG&E Pacific Energy Center, San Francisco

- Meeting called to order by Bob Levi at 5:30 p.m.
- Self introductions
- Announcements by Bob Levi
  - a. A motion was made to accept the Chapter meeting minutes from October 2, as published in the November Fog Dispenser. The motion passed. The minutes of our last meeting on October 2<sup>nd</sup> were approved.
  - b. Sadly, several members of our community have recently passed away: Ben Clark, Victor Bach, and Richard Blickensderfer.
  - c. Scott Wayland's wife had a baby girl on October 27<sup>th</sup> – Sydney Michaela – 7 lbs 2 oz.
  - d. The Winter Meeting and Expo are in Anaheim in January. I also have free Expo registration tickets for your use or you can register in advance for free on-line.
- Mark Hydeman announced two UCB Extension HVAC classes next Spring.

- Edgar DeGuzman recognized a significant contribution to our Chapter from last season: Robin James for Student Activities Chair.
- December Seminar announcement by Jon Wintermeyer. The seminar will be held on December 5, 2003 at the PG&E Energy Center. The topic is "What HVAC Engineers, Designers, Contractors, Equipment Suppliers and Building Owners Need to Know About the Benefits of Commissioning."
- Gary Harbison, Student Activities Chair, announced that the evening's meeting was a "Student Night," and that Travel Grants to the winter and summer meetings are available.
- Scott Wayland, TEGA Chair, announced that Jeff Blaevoet of Guttman and Blaevoet won a Society Honorable Mention Technology Award for his Hamilton Landing project in Novato. This is the Second Place Technology Award in all of ASHRAE.
- Bob Levi announced that the Chapter Board has attained Full Circle award in Resource Promotion. Also, memorial gifts to RP are possible for the departed.
- 10 minute break.
- Jon Wintermeyer introduced the speaker - Larry Felker from Belimo.
- Marble Draw – Prizes sponsored by Belimo Aircontrols. Wasil Popow from Flack & Kurtz won the \$100 dinner gift certificate but did not win the Marble Draw - \$800+ rolls over to the next meeting.
- Bob Levi announced that next month's meeting will be held at the San Mateo Marriott on December 4. The presentation will be by Ron Wilkinson on Building Commissioning.
- Bob Levi asked for a motion to adjourn the meeting. The meeting was adjourned at approximately 8:45 p.m.

## **Employment Opportunities**

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### **Mechanical Engineer Position Available**

Dynamic and growing Sacramento Valley consulting firm with a reputation for quality engineering and exceptional service seeks an engineer with 8 to 15 years of HVAC experience to design and manage commercial, healthcare, office, high tech, educational and sustainable projects. BSME and P.E. required. We believe in hiring talented professionals that are energetic, motivated and responsive. We offer great opportunities for growth and a relaxed work environment - get in on the ground floor of this emerging firm! Excellent salary and benefits. Email resume to [info@eclipse-mech.com](mailto:info@eclipse-mech.com) or fax to (916) 985-0833.

### **Applications Engineer - Contracting / Complex Solutions**

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

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX  
*For Thursday, December 4th*

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

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

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

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 web site, 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).

**Pay for meetings using your credit card**

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.

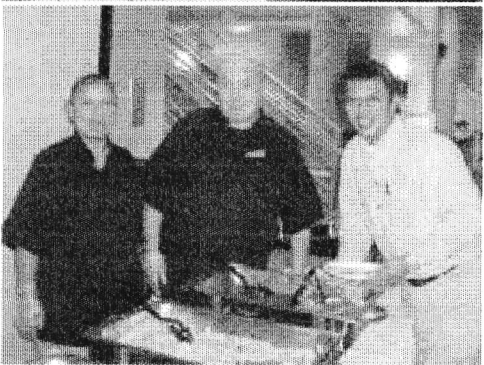
- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

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@uclink4.berkeley.edu](mailto:rmarcial@uclink4.berkeley.edu)>.

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

**MARBLE DRAW**

Thank you Belimo Aircontrols for the donation of a \$100 Dinner Gift Certificate for the first prize and 2 bottles of wine at the 11-6-03 meeting. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at [nicolina.j.guiliano@jci.com](mailto:nicolina.j.guiliano@jci.com)



*Dennis  
Thompson & Jon  
Wintermeyer*

*Chapter President  
Bob Levi*

*Diane  
DeGuzman and  
Mark Hydeman*

*Speaker Larry  
Felker*

*Pacific Energy  
Center Staff and  
chowbound Ben  
Sun*

*Edgar  
DeGuzman  
presents Student  
Activities  
Appreciation  
Award plaque to  
Robin James*

*Jon Wintermeyer  
tells us about  
future programs*

*Dennis Thomson*

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 4

JANUARY 2003

## January Meeting Notice

**Date:** Thursday, January 9, 2003 LUNCH

**Place:** Carnelian Room  
Bank of America Building  
555 California Street  
San Francisco, CA 94104

**Cost:** \$35 for GGASHRAE members and guests **if reserved prior to noon on January 7<sup>th</sup>.**  
\$42 for non-members or if reserved after January 7<sup>th</sup> or walk-in  
Students no charge, but please register anyway  
Voucher please register anyway

### Schedule:

11:30 am-12 noon Registration  
12:00 noon Lunch and Chapter business  
12:45 pm Speaker – Steve Taylor  
“Primary-Only vs. Primary-Secondary Variable Flow Chilled Water Systems”

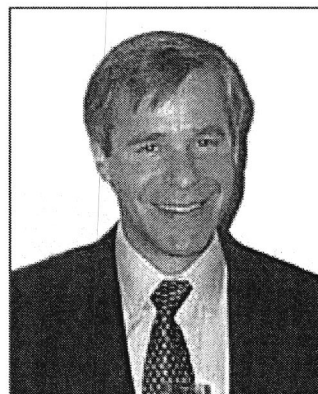
Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and clicking on “Meetings”, and click on “Jan. 9”, fill out the form and send. Or, send an email with names, company and phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org) Or, use the fax form in the Fog Dispenser.

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

## January Program:

**Speaker: Steve Taylor, P.E.**  
Primary-Only vs. Primary-Secondary  
Variable Flow Chilled Water Systems

This program will focus on choosing the “right” chilled water distribution system for the application. Advantages and disadvantages of the primary-only and primary-secondary systems will be discussed. Variations in these systems, such as distributed secondary pumping, dedicated vs. headered pumps, and check valve considerations will be illustrated.



The program is based on Mr. Taylor’s ASHRAE Journal article in February 2002 of the same title. The article generated several letters to the editor due to the controversial nature of the topic.

Steven T. Taylor, P.E. is a principal of Taylor Engineering, a consulting firm in Alameda, CA. He is a registered mechanical engineer specializing in HVAC system design, control system design, indoor air quality engineering, computerized building energy analysis, and HVAC system commissioning. Mr. Taylor graduated from Stanford University with a BS in Physics and a MS in Mechanical Engineering and has over 25 years of commercial HVAC system design and construction experience.

# Golden Gate Chapter President's Message

## January 2003

**"It is in giving that we receive" (St. Francis)**

In the Philippines, Christmas is a holiday that is enjoyed by everyone. Children go door-to-door singing Christmas carols, houses are decorated with parols (star lanterns), fundraisers are held to help the poor, and everyday for 9 days until Christmas everyone is invited to church for pre-dawn mass and breakfast. The reason why I am sharing this with you is because I want to stress the significance of this season. It seems to me that it is during this time especially that we decide to help those who are in need, but every single day of the year there are people who are in need of food and clothes, and as kind people I think that we should do our part. Winter is known as the season of sharing and as we head out to the malls looking for gifts we should also think of something we can do for those who are less fortunate. If you do not feel like donating clothes or canned goods, then maybe you can donate your time at a soup kitchen; just please do something nice for someone in need. Keep in mind; the reward of helping others is priceless. Happy Holidays!

Respectfully submitted,  
Edgar De Guzman

### 2003 GOLDEN GATE ASHRAE PROGRAM

DATE	LOCATION	PROGRAM	SPEAKER
Feb. 6	Scott's Seafood, Jack London Square, Oakland	Panel Discussion on Underfloor Air Distribution <i>Joint meeting with Northern California Chapter of the U.S. Green Building Council (NCC USGBC)</i>	Fred Bauman (CBE), Allan Daly (Engineer), Contractor, and Owner
Mar. 6	Embassy Suites, San Rafael	DDC Design Practical Examples and Rule of Thumb Checks <i>Joint Meeting with the Redwood Empire Section</i>	Frank Shadpour, Distinguished Lecturer
Apr. 3	Pacific Energy Center	Science Fair and Scholarship Winners	Students
May 8	Field Trip Morning – 7:30 a.m.	Tour of Lawrence Berkeley National Lab	Hosted by Max Sherman
June 5	Carnelian Room San Francisco	Spouse Night	Comedian Will Durst

### BOARD MOTIONS

Motions voted on at the 12/11 Board Meeting:

First Motion was made to provide, without prior approval, reimbursement to Student chapters for each of their monthly meetings for an amount of not-to-exceed \$100.00. Expenditures that will exceed \$100. need prior Board approval.

Motion #1 made by Jon Wintermeyer and seconded by Glenn Friedman and motion carried 6-0-0.

Second Motion was made to approve two travel grants per the letter of recommendation received from Student Activities Chair Robin James. The students will travel to Chicago in January for the Winter Meeting.

Motion #2 made by Jon Wintermeyer, seconded by Cory Palmer and motion carried 6-0-0.

# TECHNICAL, ENERGY AND GOVERNMENT AFFAIRS (TEGA) COMMITTEE

Scott Wayland, TEGA Chair

Happy New Year! If you have not read any of the previous TEGA columns, **please take a look at them in the archived issues of the Fog Dispenser at [www.ggashrae.org](http://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.

Many Chapter members have shared with me their experiences from years ago. During my 9 years as a consulting engineer, I have had the opportunity to work with many active ASHRAE members including several Past Presidents of our Chapter. In addition to the Past Presidents that I have worked for, there are many other members that have been very active with Society, the Chapter, and our community in the past. Golden Gate Members have been, and continue to be very active with Society with many of the Technical Committees, Standards, and other areas. We are still a very active Chapter, but many years ago (I was still in elementary school in Oakland) the Golden Gate Chapter and its active members were more known collectively than we are today as an authority on code issues related to HVAC and the built environment. Our members helped write the Title 24 Part 6 Energy Code. They were also influential with city and state amendments of the building and mechanical codes. Some of our members were on the board of examiners for The City. The code committee back then was very influential with amendments to the codes.

Today many of our members are very active with many areas within ASHRAE and with the community. I invite all of you to get involved, contribute, and help make your voice and our collective voice heard. Help the community recognize ASHRAE's authoritative position!

TEGA needs assistance, needs committee members. If you want to get involved, please contact me. Or maybe you want to know more about getting onto one of Society's Technical Committees? Contact me and I can assist.

However you don't have to commit to a huge effort like that to be involved. Even if you just want to comment on an ASHRAE publication, it's really easy to contribute! If you have a thought, concern or problem with a code issue, contact the Code Committee. The contact info is on the website.

I invite every member to send me your thoughts on an issue. You can reach Scott Wayland and the TEGA committee at (510) 508-2244 or at [swayland@rumseyengineers.com](mailto:swayland@rumseyengineers.com).

## Technology Awards

Every year ASHRAE conducts the Technology Awards program to:

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

## **TEGA, continued**

Each year the Society may present awards in seven categories: Commercial Buildings (New and Existing); Institutional Buildings (New and Existing); Health Care Facilities (New and Existing); Industrial Facilities or Processes (New and Existing); Public Assembly (New and Existing); Residential (New and Existing); Alternative or Renewable Energy Use. For each category a first, second, and honorable mention winner may be named. Also, one of the category first place winners may be selected to receive the ASHRAE Award of Engineering Excellence. The recipient will have demonstrated the best overall compliance with the judging criteria.

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

If you would like to participate, fill out the Application Short Form found here

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

Entries need to be received by the TEGA Committee by February 24, 2003.

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

[swayland@rumseyengineers.com](mailto:swayland@rumseyengineers.com)

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## **ASHRAE RESEARCH REPORT**

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

At the monthly meetings please take notice of the table cards. The cards list every individual and corporation that has given to ASHRAE Research, at the Honor Roll level, this campaign year. If you have given and your name is not listed, please let us know. We want to make sure that everyone gets recognized.

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

**Corporate Honor Roll Investors (\$150.00 or more)**

*Norman Wright Mechanical Equipment*

**Individual Honor Roll Investors (\$100.00 or more)**

*Herb Duncan*

*Jon Malkovich*

**Thanks to everyone who has donated!**

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

ASHRAE Research, Jon Malkovich  
2301 Arnold Industrial Way, Suite C  
Concord, California 94520  
925.688.1369 x4  
[jon.malkovich@ebward.com](mailto:jon.malkovich@ebward.com)

## MEMBERSHIP PROMOTION

Let me start by congratulating some of the most recent people elected to membership: Andrew B. Rooney and Richard A. Morse for Associate Grade and Grant J. Brohard for Member Grade. Also, congratulations to Jim M. Kelsey for advancing to Member Grade by filling out the appropriate blue form that we are trying to promote this year. If you are an Associate Grade member and have been at that level for a number of years, it is also time for you to advance to Member Grade. Come to a meeting and ask for the blue membership advancement form or ask me how to obtain one, then take a few minutes to fill it out and you are on your way to advancing to the Member Grade.

Next, I would like to welcome some new and renewing ASHRAE members: Kirk H. McDaniel, David Kahane, Cindy Regnier, and Freddie F. Wong. As the Admissions and Advancement Committee will be assigning your membership grade based on information you provided in your application, we look forward to seeing you in our upcoming meeting and also properly introducing you to the chapter. Let me know if you will be coming to the meeting and we would be delighted to suggest to you how you can become active on the local or national level.

The last piece of business is asking all delinquent members to consider paying your dues on a timely fashion. The obvious reason is that it saves me from considering a more aggressive campaign to hunt you down and demand payment, but more importantly with the new year around the corner, members that are in good standing (i.e. have paid their chapter dues) get to be included in our annual Membership Roster that you also receive during the first quarter of 2003.

On a lighter note, I would like to share some statistical and interesting data about our chapter. As of the end of November, we have a little over 700 members. However, most of our meetings only attract between 40 and 70 people depending on topic, location, weather, and probably state of the economy. Here is a break down of the different levels of membership within our chapter. We have roughly 10 Fellows, 400 Members, 300 Associates, and less than 5 Students. I still believe that some of you would qualify for advancement from Associate to Member grade. The most surprising statistic was the almost non-existent number of Student members with the chapter. We all need to find ways to sign up some more students, so to all of you with the academic connections, please hand out some of these student applications the next time you find yourselves on campus.

Some other interesting membership facts are that in the Fellow Grade we have 8 Life, 1 Student-Adviser, 1 President-Life, and 1 Regular members. We also have 62 Life members on the Member Grade category. On the Associate Grade, I stumbled across 21 Regular-Life and 4 Under-30 members. The Under-30 designation is quite interesting and somehow I was not aware that national also tracks certain individuals by age. I will spare you with exposing who these fellows are but next time you come to the meeting look around to see if you can identify these precious "youngsters".

Happy holidays to all of you and your families.

Respectfully,  
Chris Papadimos  
Membership Promotion Chair  
Tel (415) 391 7610  
cpapadimos@sf.smwinc.com

## ASHRAE STUDENT CHAPTER

It is now time for winter break! Meetings will resume in the Spring Semester, targeted for the beginning of February. Those interested in joining the ASHRAE Student Chapter at UC Berkeley should contact: [janelin@uclink.berkeley.edu](mailto:janelin@uclink.berkeley.edu)

Check out our web page: <http://arch.ced.berkeley.edu/groups/gard>

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## STUDENT TRAVEL GRANTS

Travel Grants to the ASHRAE Winter Meeting in Chicago in January have been awarded to Hui Zhang and Mingyu Shi. Both are UC Berkeley Ph.D. candidates and are Student Members of ASHRAE.

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## RAFFLE

At the December Meeting, the San Jose Chapter ran the raffle. They had many great prizes donated by the following companies or individuals:

AIR TREATMENT	JEFF SOLBERG	SALAS O'BRIEN
CALIFORNIA HYDRONICS	JOSEPH SCHAUF	YSERCO
DPR	NABCO	TEMPCO EQUIPMENT
GRISWOLD	NORMAN WRIGHT	TRANE
		YORK INTERNATIONAL

If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at [nicolina.j.guiliano@jci.com](mailto:nicolina.j.guiliano@jci.com)

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## Minutes of December 5, 2002 Meeting Golden Gate & San Jose Chapters Joint Meeting

Location – San Mateo Marriott, San Mateo

- Called to order at 7:05 p.m. by GG Chapter President Edgar DeGuzman
- Self-Introductions - All those members in attendance were recognized, including Donald L. Brandt, Director and Regional Chair for Region X, Maralynne Flehner, the speaker for the evening and invited guests. There was a large contingent of past presidents from both Chapters in attendance.
- Don Brandt spoke to the Chapter attendees and discussed the ASHRAE January Winter meeting in Chicago and he also provided contact information on the Region X Officers. Don also thanked Jack Zarour from the San Jose Chapter for stepping in to fill the Membership Promotion RVC position for the region.
- Bob Levi spoke about the January meeting for the GG Chapter members, reminding everyone that it will be a lunch time meeting at the Carnelian Room and the speaker will be Steve Taylor of Taylor Engineering. His topic will be chilled water distribution systems, using primary only or primary and secondary pumping arrangements.
- Bob Levi and Edgar DeGuzman discussed the \$10,000.00 donation to ASHRAE Research made by SMACNA last year, which was split between the 2 Chapters. The Golden Circle award for this donation was presented to Lonnie Michael of Hellwig Mechanical representing SMACNA.
- There was no GG Chapter marble draw held because of the joint meeting, and the San Jose Chapter raffle for Vendor prizes was held.
- Maralynne Flehner was the Distinguished Lecturer for the evening's program. Maralynne's presentation on the survival of Legal issues arising in our professions was well received by all attendees with numerous questions at the conclusion of the program.
- Bob Levi presented Maralynne with a gift from the Chapters.
- Edgar DeGuzman presented a gift from the Chapters to Don Brandt
- Meeting adjourned at 9:15 p.m.

Minutes by Jon Wintermeyer, Secretary

## CHAPTER ROSTER

The 2002-2003 chapter roster will be noticeably different from rosters of years past. The Golden Gate and San Jose Chapters have agreed to work together to produce a roster including members of both chapters. Additionally, this year's roster will be produced in an electronic format for the first time.

The roster content will be the same – except that it will include both chapters' dues-paid members. For information on advertising in the roster, please contact either Cory Palmer (415-467-7600 x 111) or Sargon Ishaya (408-347-3400).

As a reminder, please be sure your local and national dues are paid in order to be listed in and receive a roster. You can verify or change your contact information at [www.ashrae.org](http://www.ashrae.org). Note that all contact information changes must be made through ASHRAE's national headquarters. The roster information is downloaded from national headquarters by your local chapter.

Sincerely,  
Cory Palmer, Golden Gate Chapter Roster Chair

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### **ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX** *For January 9<sup>th</sup>, 2003*

Please reserve prior to **Tuesday noon, January 7<sup>th</sup>**

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and click on "Meetings", and click on "Jan. 9<sup>th</sup>", fill out the form and send. Or send an email with names, company and phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org)  
Or FAX the following form to Glenn Friedman (510) 749-9136

**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 7<sup>th</sup>.

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 address or change of employer are the most common) must make those changes through the national ASHRAE site <http://www.ashrae.org>. In order to do this, 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 web site, log in, then to Membership Records. If you don't have your PIN or membership card, please call ASHRAE Member Services: 1-800-5-ASHRAE.

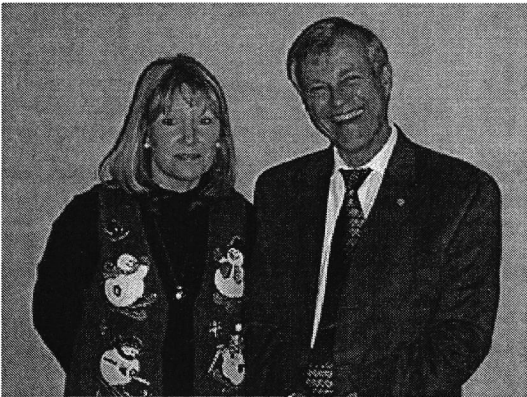
## December Meeting Photos



*Left:* Edgar DeGuzman and Bob Levi present speaker Maralynne Flehner with a gift



*Right:* E.B. Ward employees, past and present



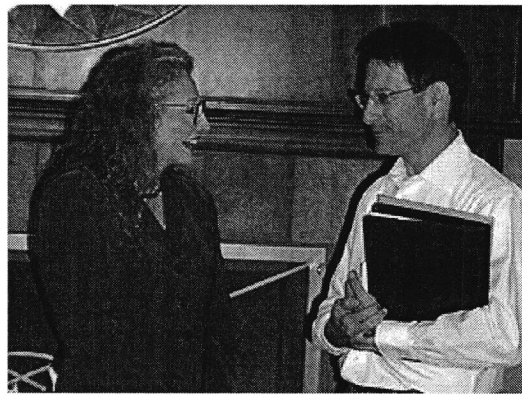
*Left:* Liz Winter (Truckee) and Mike Scofield (Sebastopol) traveled further than anyone else for the meeting



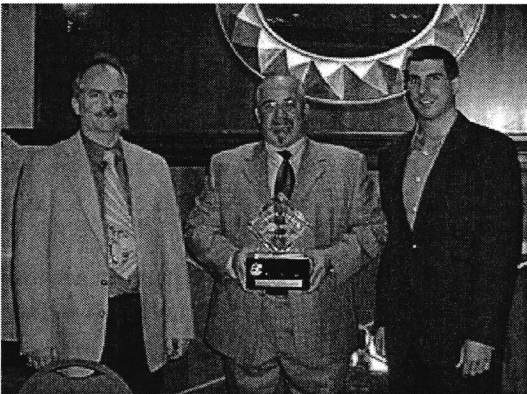
*Right:* Don Brandt, Director and Regional Chair displays his gift, a 49er jacket



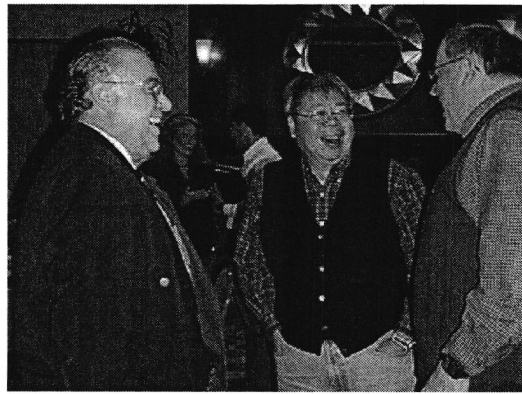
*Left:* Lonnie Michael, representing SMACNA, accepts the ASHRAE Research Golden Circle Award from Edgar



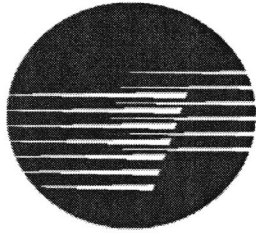
*Right:* Speaker Maralynne Flehner and Glenn Friedman



*Left:* Chapter Research Chairs Stuart Clark and Jon Malkovich with Lonnie Michael



*Right:* Jack Zarour, Kent Lim, and Lance Walden share a joke



**TRANE<sup>®</sup>**

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*Oakland Engineering Sales Group*

*The Trane Company proudly supports ASHRAE Research*

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 5

FEBRUARY 2003

## February Meeting Notice

**JOINT MEETING WITH THE NCC-USGBC**  
(Northern California Chapter of the U.S. Green Building Council)

**Date:** Thursday, February 6th

**Place:** Scott's Seafood  
Jack London Square  
Oakland, CA 94607  
[MAP](#)

**Cost:** \$35 For GGASHRAE members and guests **if reserved prior to 3pm on Friday, January 31<sup>st</sup>** (THIS IS EARLIER THAN NORMAL)  
\$42 For non-members or if reserved after January 31<sup>st</sup> or walk-in  
Students No charge, but please register anyway  
Voucher Please register anyway

### Schedule:

5:30 pm Social Hour and Registration  
View UFAD Products from Greenheck, Tate, and York  
6:30 pm Dinner  
7:45 pm Panel Discussion on UFAD

## February Program:

Panel Discussion on Underfloor Air Distribution (UFAD)

### Speakers:

**Gail Brager** (Moderator), Professor, U.C. Berkeley, Past President of Golden Gate Chapter of ASHRAE.

### Fred Bauman

(Center for the Built Environment, U.C. Berkeley)  
Fred will present a brief overview of the new ASHRAE Design Guide on Underfloor Air Distribution. This guide has been developed over the past 3 years with sponsorship by ASHRAE (1064-RP) and CBE.

### Allan Daly

 (Taylor Engineering)

Allan will discuss key design issues from a consulting engineers viewpoint.

### Bill Krill and Kevin Brooks

 (Swinerton Builders).

A Contractors perspective: Costs, schedule and installation case studies for underfloor air systems. They will present cost data, installation techniques, and commissioning/balancing tips learned from UFAD jobs including the GAP 250, Hamilton Air Force Base & GAP 901 Cherry.

### Owner Representative

 – T.B.A

Discuss reasons for choosing the raised floor, occupant satisfaction, resale or subleasing issues.

\*You now have the ability to choose your entrée when you register. Scott's will offer a choice of **Chicken Piccata, Grilled Salmon, or Mixed Grilled Vegetables.**

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and clicking on "Meetings", and click on "Feb. 6", fill out the form, select your entrée, and send.

Or send an email with names, company, phone number, and menu choice to [reservations@ggashrae.org](mailto:reservations@ggashrae.org)

Or use the fax form in the Fog Dispenser.

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

# Golden Gate Chapter President's Message

## February 2003

Happy 2003 everyone! I am pleased to announce that we started this year off with great force. Seeing 102 of our members gathered together at our January meeting proves that we can achieve ample attendance in the future. So, to whom or what do I owe the success of the large attendance? Was it a) the location, b) the time of the meeting or c) the guest speaker Steve Taylor? Whatever the reason may be I hope to see you all again.

In past messages, I have mentioned the importance of networking. The reason I mention this yet again is that I would like to see everyone reacquaint themselves with old friends or introduce themselves to new ones. One of the great benefits of being in ASHRAE is meeting new people, and with the economy in a slump who you know can either make you or break you. With all this said I would like to thank Steve Taylor of Taylor Engineering for giving such a wonderful presentation on Chilled Water Pumping, which was based on his article Primary only vs. Primary-Secondary Pumping for Chilled Water Plants. Hope to see you all at the next meeting.

Respectfully submitted,  
Edgar De Guzman

### 2003 Golden Gate ASHRAE Programs

DATE	LOCATION	PROGRAM	SPEAKER
Mar. 6	Embassy Suites, San Rafael	DDC Design Practical Examples and Rule of Thumb Checks <i>Joint Meeting with the Redwood Empire Section</i>	Frank Shadpour Distinguished Lecturer
Apr. 3	Pacific Energy Center	Product Show Science Fair and Scholarship Winners	Students
May 8	Field Trip Morning – 7:30 a.m.	Tour of Lawrence Berkeley National Lab	Hosted by Max Sherman
June 5	Carnelian Room San Francisco	Past Presidents and Spouse Night	Comedian Will Durst

## 2003 ASHRAE SEMINAR

*Improving the Broken Design Process*  
From specifications through bidding  
to submittal review

The 2003 ASHRAE Seminar aims to talk candidly about why the process doesn't work and how to improve it by bringing together speakers and audience participants from the consulting, construction, and vendor sectors of the industry.

**Location:** PG&E Energy Center

**Date:** Thursday, May 21, 2003

**STAY TUNED FOR MORE INFORMATION**

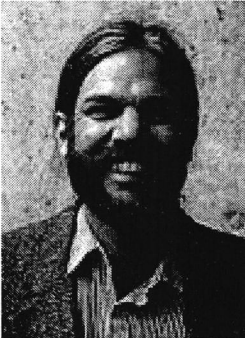
## February Program:

### Panel Discussion on Underfloor Air Distribution (UFAD)

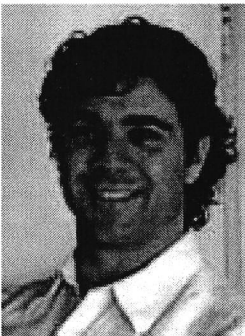
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**Gail Brager** is a Professor of Architecture at UC Berkeley, and Associate Director of the Center for the Built Environment. She received her PhD in Mechanical Engineering from UC Berkeley. Prof. Brager has been actively involved with ASHRAE. She is a Fellow of ASHRAE, a recipient of ASHRAE's Distinguished Service, Nevins, and Crosby Field Awards, Past-President of the Golden Gate Chapter, and is currently a member of SSPC 55 (Thermal Environmental Conditions for Human Occupancy). Her research interests primarily focus on thermal comfort and adaptation, with a special interest in climate-responsive building design, and individually-controlled HVAC systems.



**Fred S. Bauman, PE**, is a research specialist with the Center for the Built Environment (CBE) at UC Berkeley. He received an MS degree in Mechanical Engineering from UC Berkeley, and a BS in Mathematics from Harvey Mudd College. His research interests include underfloor air distribution and task/ambient conditioning systems, room air distribution, thermal comfort, and building energy use. He has led the development of CBE's world-renowned research program on underfloor air distribution. He has served as Chair of TC 5.3 (Room Air Distribution), 1995-97, and Chair of SPC 113-1990 (Method of Testing for Room Air Diffusion), 1995-2002. He has received two Best Symposium Paper Awards from ASHRAE (1992, 1993), and in 1997, received the ASHRAE Distinguished Service Award. Most recently, he has completed the final draft of the ASHRAE Design Guide on Underfloor Air Distribution Systems, scheduled for publication later in 2003.



**Allan Daly, PE**, is a partner with Taylor Engineering in Alameda, CA. He received an MS degree in Civil Engineering from UC Berkeley, and BS in Civil Engineering from Stanford University. He has taught the "Underfloor Design Workshop" at the PG&E Energy Center. Allan specializes in energy efficiency and environmentally responsible HVAC system design that maximize occupant health and comfort. He is experienced in the use of computer programs to simulate buildings and systems to predict building energy consumption, thermal performance, natural ventilation, and occupant comfort. Allan is an ASHRAE member and serves as the Database Chair for the Golden Gate Chapter.



**Bill Krill** is the Operations Manager for Swinerton SF Structural. He received a BS in Civil Engineering from UC Berkeley. Bill is Co-Chairman of the Swinerton Green Building Committee and is a LEED 2.0 Accredited Professional.



**Kevin Brooks, PE** is the Project Manager for Swinerton on the QB3 project at UCSF. He received a MS in Civil Engineering from UC Berkeley, and a BS in Civil Engineering from the University of Illinois. Kevin is Co-Chairman of the Swinerton Green Building Committee. He has published articles in trade journals on recycling and fly ash concrete, and has had numerous speaking engagements including Alameda County Waste Management, NAWIC (Natl. Assoc. of Women in Construction), and the City of SF Bureau of Engineering.

## **The Roster Goes Electronic and Bay-Area-Wide!**

The Golden Gate and San Jose Chapters have agreed to work together to produce a single roster to list members of both chapters. Also, this year's roster will be produced exclusively in electronic format.

The roster content will be the same – except that it will include both chapters' dues-paid members. For information on advertising in the roster, please contact either Cory Palmer (415-467-7600 x 111) or Sargon Ishaya (408-347-3400).

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Sincerely,  
Cory Palmer  
Golden Gate Chapter Roster Chair

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## **Minutes of January 9, 2003 Meeting**

### **Golden Gate Chapter Meeting**

Location – Board Room, 51<sup>st</sup> Floor, Bank of America Building, San Francisco

- Called to order at 12:00 noon by Chapter President Edgar DeGuzman.
- Self Introductions- All those members in attendance were recognized, including Bob Linford, who had just returned to CA from Chile.
- Edgar DeGuzman recognized the 3 Life members attending the meeting. In attendance were Mike Scofield, Jim Lazor and Bob Linford.
- Jon Malkovich, Research Promotion Chair, spoke about ASHRAE Research and that the Golden Gate Chapter and is a little behind on donations in order to reach our goal.
- Mike Hydeman reminded everyone about the remaining time available for any comments or recommendation input into the CA State Energy Commission, before the next issue of Title 24 becomes Gospel.
- Bob Levi spoke about the February meeting which is in the East Bay at Scott's Seafood Restaurant in Jack London Square and is a joint meeting with the US Green Building Council of Northern CA.
- Scott Wayland, TEGA Chair, spoke about the reasons for members to become involved in TEGA (Technical, Energy and Government Activities). Applications were made available to members to do a written report on their building's HVAC systems for possible Technology awards in the upcoming year.
- Robin James, the Student Activities Chair informed the members that there were Two UC Berkeley Student that were awarded Travel Grants for this year to a National ASHRAE meeting. They are Zhang Hui and Mingyu Shi, and both are PHD candidates. Robin also reminded members that the applications for Student Scholarships are available for this year for the Eric Thor Andresen and Don Bryant Memorial Scholarships from the Chapter.
- Steve Taylor of Taylor Engineering was the speaker for the meeting and his presentation was on Chilled Water Pumping. There were handouts of his presentation available at each table. Steve's presentation was based on his published article of Primary only vs Primary-Secondary Pumping for Chilled Water Plants. There were numerous questions raised and answered with regard to valve types and location issues and bypass. His PowerPoint presentation will be available for all members on the Chapter Website.
- The sponsors for the meeting were Arup, E. B. Ward, and Johnson Controls and the Board thanks them for their generosity. The first prize ticket for a \$75.00 Gift Certificate was held by Kazuyasu Hamada of Yamatake Sensing Control and he also selected the lucky marble and wins the pot monies of \$500.00
- Meeting adjourned at 2:00 p.m.

Minutes by Jon Wintermeyer, Secretary

## **Technical, Energy and Government Affairs (TEGA) Committee**

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By Scott Wayland, TEGA Chair

If you have not read any of the previous TEGA columns, **please take a look at them in the archived issues of the Fog Dispenser at [www.ggashrae.org](http://www.ggashrae.org)**. It's important that every member knows what TEGA is all about!

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If you would like to participate, fill out the Application Short Form found here <http://xp20.ashrae.org/STANDCOM/ShortForm.pdf>

Entries need to be received by the TEGA Committee by February 24th 2003.

Contact Scott Wayland and the TEGA Committee regarding submitting at (510) 508-2244 or at [swayland@rumseyengineers.com](mailto:swayland@rumseyengineers.com)

### **Marble Draw**

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Thank you to ARUP, E. B. Ward, and Johnson Controls for sponsoring the Marble Draw at the January meeting. Kazuyasu Hamada of Yamatake Sensing Control chose the lucky marble and won the pot of \$500.00. Congratulations. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at [nicolina.j.guiliano@jci.com](mailto:nicolina.j.guiliano@jci.com)

## 2003 ASHRAE Product Show

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The annual Product Show will be held on Thursday, April 3 at the PG&E Pacific Energy Center in San Francisco. More than one hundred attendees are expected, including mechanical contractors, consulting engineers, architects, building owners, and sales representatives.

If your firm has exhibited at past Product Shows, you may be familiar with this annual ASHRAE event. If 2003 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 3, 2003 will be as follows:

2:00 – 4:00 p.m.	Exhibitor Setup
5:00 – 6:30 p.m.	Table Top Displays/Social Hour/Hors d'oeuvres (bar opens at 5:00)
6:30 p.m.	Dinner (make payment and reservations through ASHRAE)
7:30 – 8:30 p.m.	Meeting & After Dinner Program for ASHRAE.

After dinner, each exhibitor will have the opportunity to make a 30-second presentation. The topics can be humorous and/or informative.

Letters and applications will be sent to all of the 2002 Product Show exhibitors by March 1. Any firm that has not participated in the past should contact Shaun Webster with any questions. New participants are welcome. We are striving for a mix of equipment manufacturers, consulting engineers / design firms; technology companies (internet and/or software geared to the engineering and construction industries), and HVAC service companies.

Respectfully submitted,  
Shaun Webster  
2003 Product Show Committee Chair  
925.417.7223 Phone  
925.426.1188 Fax  
shaun.webster@york.com

## ASHRAE Research Report

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

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

*Corporate Honor Roll Investors (\$150.00 or more)*  
*Edward B. Ward & Company*

*Individual Honor Roll Investors (\$100.00 or more)*  
*David Dacus* *Mike Scofield*  
*Wasil Popow*

Thanks to everyone who has donated!

If you have any questions or would like to donate please contact: **ASHRAE Research**  
c/o Jon Malkovich  
E.B.Ward  
2301 Arnold Industrial Way, Suite C  
Concord, CA 94520  
925.688.1369 x 4  
jon.malkovich@ebward.com

# ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

*For February 6<sup>th</sup>, 2003*

Please reserve prior to **Friday at 3 pm, January 31<sup>st</sup>**

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and click on "Meetings", and click on "Feb. 6<sup>th</sup>", fill out the form and send. Or send an email with names, company, phone number, **AND MEAL CHOICES** to [reservations@ggashrae.org](mailto:reservations@ggashrae.org) Or FAX the following form to Glenn Friedman (510) 749-9136

**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 31<sup>st</sup>.

FROM: \_\_\_\_\_

COMPANY: \_\_\_\_\_ Phone: \_\_\_\_\_

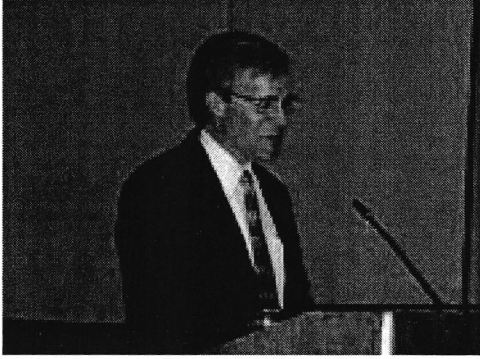
Please make \_\_\_\_\_ reservation(s) for the following people (fill in names below):

\_\_\_\_\_ Meal Choice \_\_\_\_\_

\_\_\_\_\_ Meal Choice \_\_\_\_\_

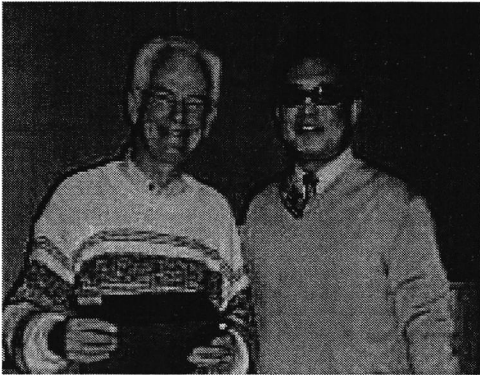
\_\_\_\_\_ Meal Choice \_\_\_\_\_

## January Meeting Photographs



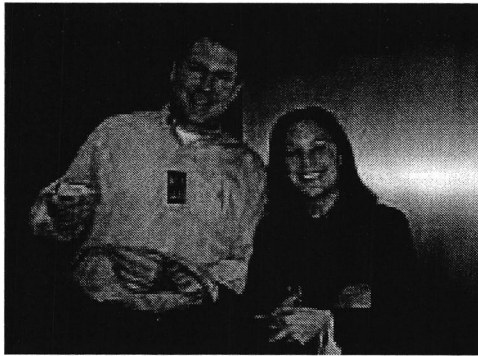
*Left:* Speaker Steve Taylor

*Right:* Mike Scofield receives his Life Member certificate from Edgar DeGuzman



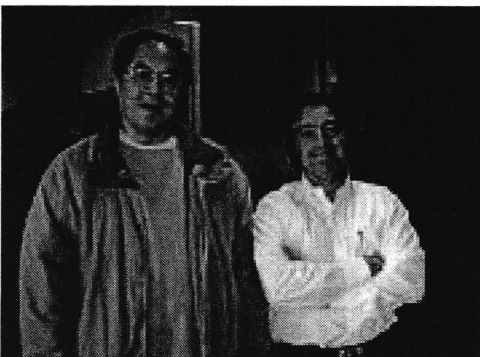
*Left:* Bob Linford receives his Life Member certificate

*Right:* Jim Lazor receives his Life Member certificate



*Left:* Ding Xie, Sal Giglio, and Dave Campbell

*Right:* Joe Olivier wins a prize from Nicolina "Marbles" Guiliano



*Left:* Kenny Dong and Sie

*Right:* Sue and John Pappas



Engineered Systems Group  
7060 Koll Center Parkway  
Suite 312  
Pleasanton, CA 94566  
(925) 426-1188 – Fax

**Zone Sales Manager**

Ken Mozek.....(925) 417-7202

**Sales Engineers**

Bill Bates .....(925) 417-7212

Greg Boyle .....(925) 417-7206

John Mitchell.....(925) 417-7220

Elaine Wang .....(925) 417-7207

Shaun Webster.....(925) 417-7223

**Inside Application Engineers**

Eric Levy .....(925) 417-7230

Johanna Gustafsson .....(925) 417-7218

**Sales Assistant**

Paula Bramhall.....(925) 417-7204

York International Proudly Supports ASHRAE Research



# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 6

MARCH 2003

## March Meeting Notice

### JOINT MEETING WITH THE REDWOOD EMPIRE SECTION

**Date:** Thursday, March 6<sup>th</sup>

**Place:** Embassy Suites San Rafael  
101 McInnis Parkway  
San Rafael, CA 94903  
[MAP](#)

Need a ride to San Rafael? Contact one of the Board Members

**Cost:** \$35 For members and guests **if reserved prior to noon on Monday, March 3<sup>rd</sup>**  
\$42 For non-members or if reserved after March 3<sup>rd</sup> or walk-in  
Students No charge, but please register anyway  
Voucher Please register anyway

#### Schedule:

5:30 pm Social Hour and Registration  
6:30 pm Dinner  
7:45 pm Meeting and Program

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and clicking on "Meetings", and click on "March 6", fill out the form and send.

Or send an email with names, company, and phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org)  
Or use the fax form in the Fog Dispenser.

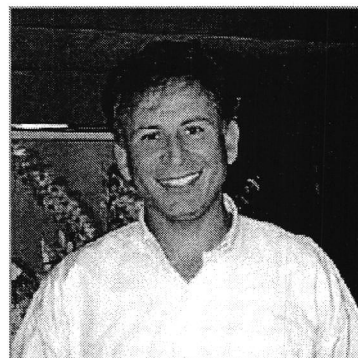
**Remember** - If you make a reservation and cannot attend, you need to cancel in advance, or you will be billed.

## March Program:

**Frank Shadpour, P.E.**

Topic: Rule of Thumb Checks for HVAC  
DDC Open Systems

The presentation focuses on the latest available technology of HVAC DDC. It examines the practical options for selection of HVAC DDC systems for existing



and new facilities. The emphasis will be on HVAC DDC open systems.

Frank Shadpour is an ASHRAE Distinguished Lecturer and the author

of the book "*Fundamentals of HVAC Direct Digital Control.*"

He is the Vice Chair of the ASHRAE Technical

Committee TC1.4 "*Control Theory and Application*" and

serves as ASHRAE Region X Nominating Committee

Member. He is a past president of the ASHRAE, San

Diego Chapter and a graduate of the University of

Southern California. Mr. Shadpour is an instructor of

Design and Control HVAC courses at the University of

California, San Diego and is a Principal at GEM

Engineering.

# Golden Gate Chapter President's Message

March 2003

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## EDUCATION, ADVENTURE, & FUN

What do they have in common? Well for me that is what I had at the winter meeting in Chicago. The prime reason to attend the ASHRAE Society Meeting is that it is educational to members of all levels of experience. Whether you attend technical seminars such as HVAC Control Research, New Approach to Fume Hoods, or Current Load Calculation Methodology (TC 4.1 – headed by our own Board Member Glenn Friedman), or a symposium on advances in Supermarket Refrigeration, these are only a few to mention. The Golden Gate Chapter would like to acknowledge the following members who participated in the seminars and forums: Mark Hydeman, Allan Daly, Dick Charles, Philip Hayes, Feng Xu, David Goldstein, Joseph Rasson, Robin Mitchell, Joseph Klem, Robert Sonderegger, Glenn Friedman, and Ken Gillespie. Members from all over the world attended all of these seminars and forums.

The other reason you attend this Winter Meeting is the Trade Show. This exposes you to many new and old products that are available in the market such as a 35 to 70 ton chiller that is very quiet – very impressive. A lot of new controls and software is being introduced to the market. Many foreign manufactured products were also introduced.

The last reason is the camaraderie and networking you develop. The Hospitality Nights (food and drink) for one. My own adventure was getting my first snow spin inside the taxicab and behind us was a big rig on a down slope highway. Luckily, the big rig was able to stop otherwise I would be history. Then on the way back we were delayed for 1½ hours and the airline lost our luggage.

Our February 6<sup>th</sup> meeting at Scott's in Oakland was different in several respects. Thanks to Scott Wayland who did an excellent job putting it together with Program Chair Bob Levi. It was our largest meeting ever; it was held jointly with the NCC-USGBC; we had sponsors displaying their products; you had a choice of entrees; and the meeting lasted well past 9:00 P.M.

Do you have any comments? We would like to hear them. Please reply to Bob Levi ([blevi@syserco.com](mailto:blevi@syserco.com)).

Respectfully submitted by:  
Edgar De Guzman

## 2003 Golden Gate ASHRAE Programs

DATE	LOCATION	PROGRAM	SPEAKER
Apr. 3	Pacific Energy Center	Product Show Science Fair and Scholarship Winners	Students
May 8	Field Trip Morning – 7:30 a.m.	Tour of Lawrence Berkeley National Lab	Hosted by Max Sherman
June 5	Carnelian Room San Francisco	Past Presidents and Spouse Night	Comedian Will Durst

## Nominating Committee

---

The following Golden Gate Chapter members have volunteered to serve on the Nominating Committee for the 2003-2004 Board positions:

Mark Hydeman, Chair  
Barbara Dilts  
Gail Brager  
Rick Paillon  
Robin James

Members interested in serving on the Golden Gate Chapter Board should contact one of the Nominating Committee members.

# Technical, Energy and Government Affairs (TEGA) Committee

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By Scott Wayland, TEGA Chair

If you have not read any of the previous TEGA columns, **please take a look at them in the archived issues of the Fog Dispenser at [www.ggashrae.org](http://www.ggashrae.org)**. It's important that every member knows what TEGA is all about!

## Technology Awards

Thanks to all who participated in the Technology Awards. The winners will be announced at the April 3<sup>rd</sup> meeting.

## ASHRAE Position Papers – New Special Report on Guidance for Building Security

Please go to the following website to read a new Paper on Building Security from ASHRAE:

<http://xp20.ashrae.org/frame.asp?ABOUT/pos-ppr.htm>

## GG ASHRAE TEGA Editorial – Why build high performing, energy efficient buildings???

Have you read the February HPAC Engineering Magazine 2003 Editor's Column?

<http://www.hpac.com/member/archive/0302edit.htm>

Michael Ivanovich from HPAC is crying out for us to prove to him that a good building is a good building. He feels that in order to help building owners and developers understand the merits of sustainable design for the built environment, hard data showing the performance of these green buildings needs to be better reported.

The Editor's column refers to an Article from *The New York Times* by M. Brick (2003, January 15) titled "Not building green is called a matter of economics". In this article, the author argues, "commercial developers have not adopted the principles of what is commonly called green or sustainable building because a compelling case demonstrating the economic rewards has not been made, according to specialists in real estate, finance, design, construction and environmental health and safety".

I don't know if either of these authors are proponents or not of improving how buildings are designed and built. I find both of their viewpoints a little pessimistic; however the issue is of a compelling matter and their point is well taken. All of us, no matter what our capacity is in our industry, are promoters of improving the built environment. ASHRAE supports Sustainable Design, Energy Efficiency, Occupancy Comfort, and Indoor Environmental Quality. This is evident in the Position Papers, Standards and other documents. The USGBC LEED™ program was created to help improve the built environment. The authors of these articles might not understand that the LEED™ system is performance-oriented. A LEED™ certification implies high performance. They are asking that performance data be publicized to improve the credibility of sustainable design.

The authors may have a good read on the pulse of the average building owner and developer. They have not seen performance data that some of us are familiar with. When we discuss innovative projects, we need to share measurement and verification data to the audience as much as possible.

So go get the word out, green is good!

---

## 2003 ASHRAE SEMINAR

### *Improving the Broken Design Process*

From specifications through bidding to submittal review

The 2003 ASHRAE Seminar aims to talk candidly about why the process doesn't work and how to improve it by bringing together speakers and audience participants from the consulting, construction, and vendor sectors of the industry.

**Location:** PG&E Energy Center

**Date:** May 21<sup>st</sup>, 2003

**STAY TUNED FOR MORE INFORMATION**

For more information contact:

David Dacus ([ddacus@taylor-engineering.com](mailto:ddacus@taylor-engineering.com))

Bob Polizzi ([bpolizzi@calhydro.com](mailto:bpolizzi@calhydro.com))

# Minutes of February 6, 2003 Meeting

## Golden Gate Chapter Joint Meeting with NCC-USGBC

---

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

- Called to order at 7:00 p.m. by Chapter President Edgar DeGuzman.
  - Self Introductions- All the ASHRAE members in attendance were recognized, along with members from both the NCC-USGBC and AEE organizations and invited guests. The attendance was over 200 and was held in the events tent to have ample room for all the displays and table seating.
  - Jon Malkovich, Research Promotion Chair, spoke about ASHRAE Research for the Golden Gate Chapter and this year’s goal, and noted that monies are very slow in coming in and reminded all to please be generous.
  - David Dacus, Co-Chair for Chapter Seminars, spoke about the May 21<sup>st</sup> all day seminar meeting to be held at the PG&E Energy Center. The Topic will be “Improving the Broken Design Process: from Specifications through Bidding to Submittal Review.” The speaker panel for this candid discussion seminar will be announced at a later time, when the full panel is complete.
  - Alisdair McGregor, NCC-USGBC spoke on their organization’s many upcoming meetings and thanked Bob Levi and Scott Wayland for all their efforts to create the joint meeting and program.
  - Scott Wayland, TEGA Chair, spoke about the TEGA Awards and how to submit for them and that forms were available at the registration table for all interested members.
  - Flack + Kurtz was the sponsor of the grand prize for the Marble Draw at the meeting and other generous sponsors were Guttman & Blaevoet, Trane Co., CMI, Norman S. Wright and MHC Engineers.
  - Bob Levi held the lucky grand prize ticket, but didn’t pick the winning marble, so the pot rolls over now to the March meeting.
  - Gail Brager, Professor of Architecture at UC Berkeley was the Speaker/Moderator for the Panel Discussion program. Gail spoke briefly on the topic for the evening “Underfloor Air Distribution” and then introduced the 5 panelists as follows:
    - Allan Daly, PE, Engineer from Taylor Engineering
    - Fred S. Bauman, PE, Researcher from UC Berkeley
    - Kevin Brooks, PE, Construction Project Manager from Swinerton
    - Bill Krill, Operations Manager from Swinerton
    - Tom Corso, PMP, Director of Building Operations from MC Lioness Realty Group.
- The panelists each gave a 10 minute presentation on Underfloor Air Distribution from their history and experiences as a design/engineer, a laboratory researcher, construction installers, and building/owner operator. After the presentations came a question and answer period. A copy of all the PowerPoint presentations will be available for all members on the Chapter Website. Bob Levi presented gifts to the panelists.
- Meeting adjourned at 9:15 p.m.

Minutes by Jon Wintermeyer, Secretary

## Marble Draw

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Thank you to Flack + Kurtz, Guttman & Blaevoet, Trane Company, CMI, Norman S. Wright, and MHC Engineers for sponsoring the Marble Draw at the February meeting.

If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at [nicolina.j.guiliano@jci.com](mailto:nicolina.j.guiliano@jci.com)



*Left:* Part of the giant crowd at the meeting



*Right:* More of the crowd at the meeting



*Left:* Shakeel Ahmed and Mike Rubio



*Right:* Does Steve Taylor believe Jim Nemechek?



*Left:* Panel Members and Moderator



*Right:* Gail Brager explains the finer points of occupant comfort



*Left:* Panelists Kevin, Bill, and Fred receive their personal fans



*Right:* Scott Wayland is thanked for his efforts to arrange the meeting

## Register Now for the 2003 ASHRAE Product Show!

The annual Product Show will be held on Thursday, April 3<sup>rd</sup> at the PG&E Pacific Energy Center in San Francisco. This year's Product Show is sponsored by Golden Gate ASHRAE; no other professional organizations are involved in the organization or planning. More than one hundred attendees are expected, including mechanical contractors, consulting engineers, architects, building owners, and sales representatives.

If your firm has exhibited at past Product Shows, you may be familiar with this annual ASHRAE event. If 2003 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 3, 2003 will be as follows:

2:00 – 4:00 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 separate payment and reservations through ASHRAE)  
7:30 – 8:30 p.m. Meeting/After Dinner Program for ASHRAE.

After dinner, each exhibitor will have the opportunity to make a 30-second presentation. The topics can be humorous and/or informative.

Letters and applications will be sent to all of the 2003 Product Show exhibitors by March 1. Any firm that has not participated in the past should contact Shaun Webster with any questions. New participants are welcome. We are striving for a mix of equipment manufacturers, consulting engineers / design firms; technology companies (internet and/or software geared to the engineering and construction industries), and HVAC service companies.

Respectfully submitted,  
Shaun Webster  
2003 Product Show Committee Chair

925.417.7223 Phone  
925.426.1188 Fax  
[shaun.webster@york.com](mailto:shaun.webster@york.com)

## ASHRAE Research Report

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

We have only reached 20% of our chapter's annual goal for Research. Please remind your colleagues and clients that a contribution to ASHRAE Research is a great way to give back to our industry! Thanks to everyone who has contributed so far this year. We are always looking for corporate support, especially corporations with "matching gifts" programs. Please contact the Research Chair with potential corporate contributor contact information.

### Corporate Honor Roll Investors (\$150.00 or more)

*Larkin & Associates*

*Rogers and Associates*

### Individual Honor Roll Investors (\$100.00 or more)

*Herb Duncan*

*Mark Levi*

*Gustav Fehlhaber*

*Robert Sonderegger*

*Ted Jacob*

*Stephen Sprague*

*Glen Leggoe*

*Kil Woong Yi*

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

c/o Jon Malkovich

2301 Arnold Industrial Way, Suite C

E.B.Ward

Concord, CA 94520

[jon.malkovich@ebward.com](mailto:jon.malkovich@ebward.com)

925.688.1369 x 4

# Student Activities

## ASHRAE Student Chapter

We had our first meeting of the spring semester on President's Day, February 17 in our new location by the Center for the Built Environment research labs. We had a presentation by David White, a Master's of Architecture student that recently did 9 building case studies to explore thermal systems and symbolic orders in architectural space. Plans are in place for firm tours, viewings of "Blue Vinyl", and other socials! Please stay posted at our website for the next meeting, TBA in April.

Chapter at UC Berkeley should contact: [janelin@uclink.berkeley.edu](mailto:janelin@uclink.berkeley.edu)

Check out our web page: <http://arch.ced.berkeley.edu/groups/gard>

March 16<sup>th</sup> is the deadline for receipt of applications for Scholarships and Travel Grants to the Summer Meeting. More information and applications are available from the chapter website [www.ggashrae.org](http://www.ggashrae.org), click on Scholarships and Awards.

## Help Wanted

KEEN ENGINEERING INC. - North America's leading sustainable engineering firm - Keen Engineering is a professional consulting engineering firm with 10 North American offices and over 80 LEED™ accredited professionals. Our San Francisco office is expanding and we are looking for team players to fill a number of positions.

- 1) An energetic experienced (8+ yrs) senior project manager.
- 2) Experienced (3+ years) design technicians.

Check out our Web address [www.Keeneng.com](http://www.Keeneng.com) for complete details.

Contact [cheryl.crawford@keeneng.com](mailto:cheryl.crawford@keeneng.com)

## ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

*For March 6<sup>th</sup>, 2003*

Please reserve prior to **Monday, March 3<sup>rd</sup> at noon.**

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and click on "Meetings", and click on "March 6<sup>th</sup>", fill out the form and send.

Or send an email with names, company, phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org)

Or FAX the following form to Glenn Friedman (510) 749-9136

**Members with vouchers – you too – must send in your reservation. We need to know how many meals to request.**

Please cancel your reservation if you cannot attend. Cancellations must be received by March 3<sup>rd</sup>.

FROM: \_\_\_\_\_

COMPANY: \_\_\_\_\_ Phone: \_\_\_\_\_

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

_____	_____
_____	_____

# WANTED

Motivated, responsible Sales Engineer for exciting position with major HVAC Manufacturers' Representative firm. Position to involve coverage in San Francisco and North Bay areas.

Contact Mike Gainer at  
Joseph Schauf Company  
408-866-0723

Or e-mail a resume to  
[mgainer@baltimoreaircoil.com](mailto:mgainer@baltimoreaircoil.com)

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 7

APRIL 2003

## April Meeting Notice

**Date:** Thursday, April 3<sup>rd</sup>

**Place:** Pacific Energy Center ([www.pge.com/pec](http://www.pge.com/pec))  
851 Howard Street (between 4<sup>th</sup> and 5<sup>th</sup>)  
San Francisco, CA 94103

**Cost:** \$35 For members and guests **if reserved prior to noon on Tuesday, April 1<sup>st</sup>**  
\$42 For non-members or if reserved after April 1<sup>st</sup> or walk-in  
Students No charge, but please register anyway  
Voucher Please register anyway

### Schedule:

4:30 to 6:30 pm Product Show Displays  
Bar opens at 5:00 pm,  
Meeting Registration  
6:30 pm Dinner  
7:45 pm Science Fair Award Winners  
Technology Award Winners  
Scholarship Winners  
Product Show Vendors

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and clicking on "Meetings", and click on "April 3", fill out the form and send. Or send an email with names, company, and phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org) Or use the fax form in the Fog Dispenser.

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

## April Program

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

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

### ASHRAE Scholarships

Eric Thor Andresen Memorial Scholarship  
Don G. Bryant Memorial Scholarship

ASHRAE Travel Grant Awards and Presentation by Previous Winners

San Francisco Bay Area Science Fair Awards  
Presented to Middle School and High School Students with the best HVAC related projects displayed at the 2003 Science Fair in the Academy of Sciences. Students will be encouraged to give a brief presentation on their project.

Golden Gate ASHRAE Technology Awards – Presented by the TEGA Committee



# Minutes of March 6, 2003 Meeting

## Golden Gate Chapter Joint Meeting with Redwood Empire Section

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Location – Embassy Suites Hotel, San Rafael, CA

- Called to order at 7:05 p.m. by GG Chapter President Edgar DeGuzman.
- Self Introductions - All the ASHRAE members from both Chapters in attendance were recognized, along with Frank Shadpour, the Speaker for the evenings program and invited guests. The attendance was over 70 and was a fairly evenly split between the Chapters.
- Jon Malkovich, Research Promotion Chairperson, spoke about ASHRAE Research for the Golden Gate Chapter and was presented a \$1,000.00 check from the Redwood Empire Section by Todd Williams, the Redwood Empire Section President.
- Kirk Peterson, Golf Chairperson announced that the 2003 Golf Tournament sponsored by the GG Chapter would be held this year at the Boundary Oaks Golf Course in Walnut Creek in June and more information will be posted on the website and in next months addition of the FOG.
- Scott Wayland, TEGA Chair, spoke about the TEGA Awards and noted that there were 10 applications submitted and there will be more information given in the next addition of the FOG.
- Shaun Webster, Product Show Chairperson, spoke about the April meeting Product Show and reminded the manufacturers that he still had a few tables available for the program. In addition that evening is also a Student night for Local College Chapters and the GG Chapter will be presenting scholarships to College Students that have applied to the Chapter for them. In addition there will be the Middle and High School Bay Area Science Fair winners with their parents. They will be selected by the GG ASHRAE Chapter Judges inspecting the entries, for ASHRAE related science projects and will be awarded that evening with a certificate and \$100.00 savings bond.
- Jon Wintermeyer, GG Chapter Secretary spoke about the hard work of the Nominating Committee for the GG Chapter this year:
  - Mark Hydeman, Chairperson
  - Gail Brager
  - Rick Paillon
  - Barbara Dilts
  - Robin James
- Jon Wintermeyer then announced the projected slate of officers that the Nominating Committee wished to present for this years ballot and vote:
  - Past President – Edgar DeGuzman
  - President Elect – Jon Wintermeyer
  - Secretary – Cory Palmer
  - Treasurer – Glenn Friedman
  - 2<sup>nd</sup> Year Board Member – Deborah Marshall
  - 1<sup>st</sup> Year Board Member – Robert MarcialMotion made and seconded to close nominations and all voted in favor of the nominees.
- Bob Levi introduced Speaker Frank Shadpour, PE, whose topic was “ Rule of Thumb Checks for HAC DDC Open Systems.” Frank spoke on the past, present and future of Controls systems used in the HVAC Industry and then answered questions from the floor. There will be a copy of the presentation available on the GG Chapter Website.
- There was no Marble Draw raffle for the GG Chapter at the meeting, as this year it was the Redwood Empire Section’s turn to operate the raffle.
- Meeting adjourned at 8:45 p.m.

Minutes by Jon Wintermeyer, Secretary

# 2003 ASHRAE SEMINAR

## *Improving the Design Process*

From specifications through bidding  
to submittal review

The 2003 ASHRAE Seminar aims to talk candidly about the shortcomings of the current design process and how to improve it by bringing together speakers and audience participants from the consulting, construction, and vendor sectors of the industry.

**Location:** PG&E Energy Center

**Date:** May 21<sup>st</sup>, 2003

**STAY TUNED FOR A LIST OF SPEAKERS**

For more information contact:

David Dacus ([ddacus@taylor-engineering.com](mailto:ddacus@taylor-engineering.com))

Bob Polizzi ([bpolizzi@calhydro.com](mailto:bpolizzi@calhydro.com))

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## Golden Gate ASHRAE Technology Awards

Nine projects were submitted for Technology Awards. Following are the projects along with the people responsible for their design. Thank you to all of the participants.

Electronic Arts II, Steve Taylor & Jeff Stein, Taylor Engineering LLC  
Hamilton Landing Buildings 3, 4, 5 & 6, Jeff Blaevoet, Guttman and Blaevoet Consulting Engineers  
Pier One, Reginald Monteyne & Allan Montpellier, Flack + Kurtz, Inc.  
Salazar Building at Sonoma State University, Keith Marchando, Sonoma State University  
Student Services Center, Steve Guttman, Guttman and Blaevoet Consulting Engineers  
Lanterman Developmental Center, Ben Sun, Flack + Kurtz, Inc.  
UC Davis Medical Center, Ted Jacob and Shulamit Rabinovich, Ted Jacob Engineering Group Inc.  
ST Microelectronics - Class 10 Cleanroom Design, Peter Rumsey, Rumsey Engineers, Inc.  
UC Davis Chilled Water Phase 4 & 5 Thermal Energy Storage Tank, Jonathan Markowitz, ARUP

The winners will be announced at the April meeting. All participants have been invited to present a brief description of their project after dinner.

Scott Wayland, P.E.

GG ASHRAE TEGA Chair

[swayland@rumseyengineers.com](mailto:swayland@rumseyengineers.com)

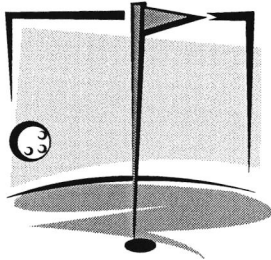
## Student Activities

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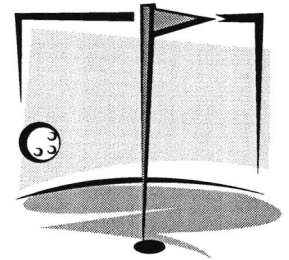
### ASHRAE Student Chapter

We will be seeing you at the April Meeting for Student Night! Our next meeting will be on Tuesday April 8<sup>th</sup> (a week after Spring Break) in 104 Wurster Hall, UC Berkeley. It will be movie night, and we plan to watch "Blue Vinyl." The ASHRAE Student Chapter organized the most recent St. Patrick's Day Happy Hour for the College of Environmental Design; a "green" event, indeed. Plans are developing for a tour at LBNL and Village Homes in Davis. Those interested in joining the ASHRAE Student Chapter at UC Berkeley should contact: [janelin@uclink.berkeley.edu](mailto:janelin@uclink.berkeley.edu)

**Check out our web page:** <http://arch.ced.berkeley.edu/groups/gard>



**ASHRAE Golden Gate Chapter  
2003 Golf Tournament**



Friday, June 27, 2003 • 1 pm Shotgun Start

**Boundary Oaks Golf Course**

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

Registration starts at 10:30 a.m.

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

**Pricing:**

*(all packages include dinner and golf goodies):*

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

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

**All proceeds benefit ASHRAE Research**

For more information, or to sign up your team, please contact Kirk Peterson at 650.872.5207  
or via e-mail: [kirk.peterson@ebward.com](mailto:kirk.peterson@ebward.com)

**ASHRAE GOLDEN GATE CHAPTER  
2003 MEMORIAL TENNIS TOURNAMENT**



**Round-Robin Rotating Doubles  
San Francisco Tennis Club**

**Friday, May 30<sup>th</sup> [1 – 4pm]**

Come join us for some fun & friendly competition  
Entry Form & additional details to follow

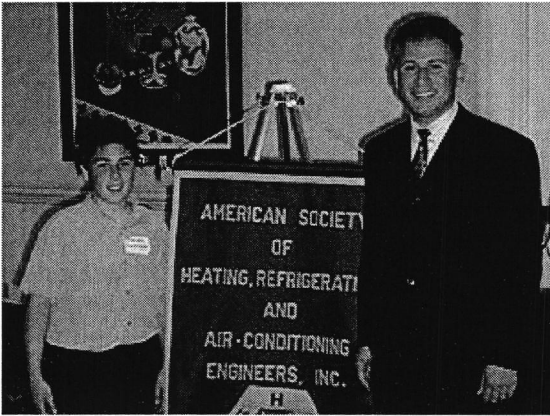
Proceeds benefit the  
Eric Thor Andresen  
Memorial Scholarship Fund

If you have any questions please contact the Tournament Coordinator

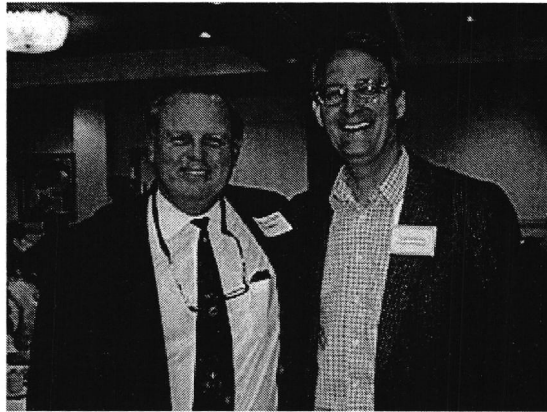
Jason Daters

Phone: 510-723-7728

Email: [Jason.Daters@siemens.com](mailto:Jason.Daters@siemens.com)



*Left:* Steven and Speaker Frank Shadpour



*Right:* David Day and Redwood Empire President Todd Williams



*Left:* Robert Davis, Peter Schwartz, and "who me" Steve Blanc



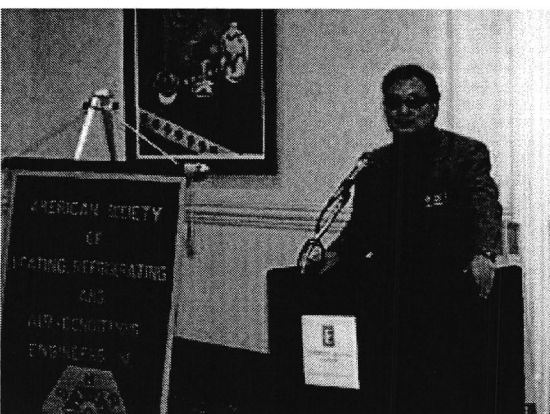
*Right:* Jon Malkovich receiving \$1,000 Research check from Redwood Empire's Todd Williams



*Left:* Steven and Frank Shadpour, Dick Charles, and Tim Casados



*Right:* Dave Troup and Vali Sorell



*Left:* President Edgar DeGuzman



*Right:* Jeff Blaevoyet and Jon Wintermeyer

# Employment Opportunities

## MECHANICAL ENGINEER and/or DESIGNER

Must have 5 years of California (UMC, UPC & Title 24) HVAC and Plumbing design experience. Auto CAD and MS Office proficiency is necessary. Contact Mike Kiani at [info@mk2eng.com](mailto:info@mk2eng.com) or fax (707) 307-1550.

## MECHANICAL DESIGN ENGINEER

Successful & growing Napa Valley engineering firm seeks qualified and eager team player. Individual must have 3-5 years experience in the design of building mechanical systems and be experienced in the design of HVAC, plumbing, and temperature control systems for a wide variety of project types including health care, commercial, and educational projects. BSME required. Candidates must be computer literate and highly skilled in AutoCad, be self-motivated and have the ability to handle multiple tasks while maintaining a high standard of quality. Candidates must also work well in a team environment and possess strong communication skills needed to interact with clients. Respectful, friendly work environment, excellent benefits, & continuing education supported. Fax resume to: (707) 252-6473. Contact: Wendy Michaels @ Costa Engineers (707) 252-9177

## HVAC EQUIPMENT SALES

AIR TREATMENT CORPORATION is seeking a highly motivated professional to join our Sacramento, CA team - to sell our high quality mechanical equipment. Excellent compensation and benefits. Industry knowledge and sales experience required. Knowledge of variable frequency drives a plus. Additional sales positions may be available in our San Francisco, Los Angeles, San Diego, Reno, Fresno, and Salinas /Monterey area. Please e-mail your resume to [vdonatello@airtreatment.com](mailto:vdonatello@airtreatment.com) or fax to 510-769-0701.

## Job Opening: Experienced innovative HVAC design engineer wanted.

Western Allied Corporation, a design build HVAC contractor in Menlo Park, designs and builds a large variety of projects including, biotechnology facilities, laboratories, dry rooms, and clean rooms, as well as office buildings, remodels, central plant replacements, and renovations. We have a genuine interest in energy efficient and innovative design options, have a comfortable, family/employee friendly working atmosphere, and offer an attractive compensation and benefits package. The ideal candidate would have a minimum of 5 years of HVAC design experience, a B.S. degree in mechanical engineering, a California P.E. license, have a good working knowledge of AutoCAD, Word, Excel, Carrier HAP 4.0, Outlook or Eudora and other software products, and be comfortable working alone on projects and in a team environment. Please contact Loek Vaneveld via email at [lvaneveld@westernallied.com](mailto:lvaneveld@westernallied.com), phone: 1(650)326-0750, fax: 1(650)321-4946, or via mail at Western Allied Corporation, 1180 O'Brien Drive, Menlo Park, CA 94025.

## ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

*For April 3<sup>rd</sup>, 2003*

Please reserve prior to **Tuesday, April 1<sup>st</sup> at noon.**

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and click on "Meetings", and click on "April 3", fill out the form and send. Or send an email with names, company, phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org) Or FAX the following form to Glenn Friedman (510) 749-9136

**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 April 1<sup>st</sup>.

FROM: \_\_\_\_\_

COMPANY: \_\_\_\_\_ Phone: \_\_\_\_\_

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

\_\_\_\_\_

# OFFICIAL ASHRAE BALLOT FOR THE 2003/2004 GOLDEN GATE CHAPTER BOARD OF GOVERNORS

Please fax or email to: Jon L. Wintermeyer, Secretary  
c/o Syserco Fax: 1-510-498-1161  
Email: jonlwinterm@hotmail.com

**BALLOTS MUST BE RECEIVED BY WEDNESDAY, APRIL 2, 2003**

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

NOTE: In accordance with our bylaws, Bob Levi 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 Jon Wintermeyer, Secretary.
4. This ballot is also available on the Chapter website ([www.ggashrae.org](http://www.ggashrae.org)) under Announcements

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Johnston Pump Co.

## PUMPS

PACO OFFERS ONE OF THE FINEST, MOST COMPLETE LINES OF PREMIUM EFFICIENT PUMPS AND PUMPING SYSTEMS, DESIGNED TO MEET THE INCREASING COMPLEX NEEDS OF THE HEATING, VENTILATING AND AIR CONDITIONING INDUSTRY WITH **EMPHASIS ON ENERGY CONSERVATION**

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- CONDENSATE RETURN
- VERTICAL TURBINES
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OF QUALITY,  
EFFICIENCY  
AND RELIABLE  
PERFORMANCE**

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[paco-pumps.com](http://paco-pumps.com) or [johnston-pumps.com](http://johnston-pumps.com)

*Local Manufacture – Direct Sales, Service, Rental*

**CONTACT: DAVID DECKER, ext. 230**  
**845 92<sup>ND</sup> AVE PHN: (510) 639-3200**  
**OAKLAND, CA 94603 FAX: (510) 639-3337**  
**San Francisco, Oakland and Contra Costa Areas**

**JACK ABBOTT, ext. 234**  
**Peninsula and South Bay Areas**

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 8

MAY 2003

## May Meeting Notice

Date: Thursday, May 1st  
Place: TOUR OF LAWRENCE BERKELEY LAB (LBL)  
STARTS AT 7:30 A.M. **SHARP.**

### RESERVATIONS ARE MANDATORY.

The tour will start in downtown Berkeley, in front of the Wells Fargo Bank at 2144 Shattuck Avenue, corner of Center Street. This is across from the Berkeley BART station entrance/exit. An LBL shuttle bus, marked "Special Tour" will pick up the ASHRAE group for the ride to LBL. Private cars are not allowed at LBL, so everyone is required to take the shuttle bus. If you drive to downtown Berkeley, pay parking lots are nearby. Why not take BART, the station exit is right across the street. [MAP](#)

Schedule: THE BUS WILL LEAVE AT 7:30 A.M.

The tour will last about two hours and the shuttle bus will bring us back to the pick-up point no later than 10:45 am

Cost: \$35 for members and guests **reserved by April 29<sup>th</sup>**  
Students – No charge, but please reserve a spot  
Voucher – No additional charge, but please reserve a spot

RESERVATIONS ARE MANDATORY. LBL WILL NOT ADMIT ANYONE THAT IS NOT ON THE RESERVATION LIST. PLEASE RESERVE PRIOR TO NOON ON TUESDAY, APRIL 29<sup>TH</sup>. THE TOUR IS LIMITED TO THE FIRST 30 PEOPLE THAT REGISTER

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and clicking on "Meetings", and click on "May 1", fill out the form and send.

Or send an email with names, company, and phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org)

Or use the fax form in the Fog Dispenser.

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

## May Program

Ernest Orlando Lawrence Berkeley  
National Laboratory

Managed by the University of California for the U.S. Department of Energy. The lab is the birthplace of the cyclotron, home to nine Nobel Prize winners, and the place where 16 chemical elements were discovered. For more information, visit their extensive website <http://www.lbl.gov>

The shuttle bus will drop us off at the Advanced Light Source building. A buffet breakfast will be served in a conference room. Dr. Max Sherman, ASHRAE Director, will be our host at Lawrence Berkeley Laboratory.

After breakfast, the tour will cover two significant areas at LBL:

- Advanced Light Source (ALS) is a national user facility that generates intense light for scientific and technological research. As one of the world's brightest sources of ultraviolet and soft x-ray beams, and the world's first third-generation synchrotron light source in its energy range, the ALS is used by scientists from around the world to explore new frontiers in the biosciences, materials, and the environmental sciences.
- The National Center for Electron Microscopy (NCEM), where the microscopes can magnify to the one-angstrom level and smaller. This is one of the "nanoscience" research center facilities at the Lab, and a current research focus for the Lab.

# Golden Gate Chapter President's Message, March 2003

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## "The Youth are the Future of Tomorrow"

If you attended our April 3, 2003 Student Night and Product Show together with the Technical Awards at the PG&E Pacific Energy Center, then you have witnessed one of the exciting programs of the year.

First, Shaun Webster put the Product Show together. Shaun has been the chairperson for the Product Show for the last 2 years.

Second, TEGA Chair, Scott Wayland, headed the Technical Awards. Scott presented nine Technical Awards to local consulting engineers and end users. See Scott's TEGA article for a full list of the award winners.

Third, Student Activities Chair, Robin James, presented the Student Science Fair Awards. This was the most exciting event of the night when our Science Fair Award recipients had to present their Science Projects to the audience. It is so impressive and so inspiring on how each one of them meticulously presented their projects. These youths really represent the scientists and engineers of tomorrow.

Fourth, Robin James headed the Scholarship Awards. Six significant monetary awards were given to deserving college students in Northern California.

I would like to thank Shaun Webster, Scott Wayland and Robin James for their hard work. Also thanks to Bob Levi, Cory Palmer, Jon Wintermeyer, Glenn Friedman, Joe Olivier, Robert Marcial, Jane Lin, and Nicolina Guiliano for their participation in this event.

Respectfully submitted,  
Edgar De Guzman, Chapter President

## 2003 Golden Gate ASHRAE Program

DATE	LOCATION	PROGRAM	SPEAKER
June 5	Carnelian Room San Francisco	Past Presidents and Spouse Night	Comedian Will Durst
See you in October for the start of the 2003-2004 Program Year			

## Student Activities

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### April Student Night

The April 3<sup>rd</sup> meeting was Student Night. The Golden Gate Chapter was proud to host three winners from the Bay Area Science Fair. Each of these young students will receive a \$100 Award from the Golden Gate Chapter of ASHRAE. In addition, the Chapter supports the Bay Area Science Fair with an annual contribution of \$500.

### ASHRAE Student Chapter

Many thank the Golden Gate Chapter for your support in our activities and scholarships. A few days after the April Student Night Meeting, on April 8<sup>th</sup>, thirty students (some regular members of the Student Chapter and some new faces) came together to watch "Blue Vinyl." This was our outreach program for the semester.

Our final event this year will be a tour of Village Homes on May 16<sup>th</sup>. The tour is open to anyone who would like to join us. We will be choosing a new cabinet in the next month or so. <http://arch.ced.berkeley.edu/groups/gard>

Submitted by Jane Lin, President of the UC Berkeley ASHRAE Student Chapter [janelin@uclink.berkeley.edu](mailto:janelin@uclink.berkeley.edu)

## 2003 ASHRAE SEMINAR

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### Everything an HVAC Engineer needs to know about Acoustics

Topics:

- **Acoustical Basics**—understanding dB, NC, RC, sound power and sound pressure
- **Mitigation Techniques**—proper application of sound traps, spring isolators, floating floors, thickened slabs, etc.
- **Application Considerations**—techniques for controlling sounds resulting from fans, cooling towers, chillers, pumps and fan-powered VAV boxes
- **Case Studies on Past Projects**
- **Round Table Discussion**—audience participation discussing contemporary challenges facing both HVAC engineers and acoustical consultants

Presented by: Charles M. Salter, P.E.

Mr. Salter, President of Charles M. Salter Associates, Inc., has practiced acoustical engineering for 30 years. With educational backgrounds in architecture, planning, engineering and business, Mr. Salter has conducted a wide range of consulting work in the areas of architectural acoustics, noise control engineering, and environmental noise impact. He has had project responsibility for various facility types including hospitals, office buildings, schools, churches, theaters, residences, and power generating plants.

Round table discussion lead by: David R. Schwind, FAES

Mr. Schwind, Senior Vice President at Charles M. Salter Associates, Inc., has been consulting in acoustics since 1975. Mr. Schwind consults on the acoustical design for corporate, education, presentation, and entertainment facilities such as film and broadcast studios, theaters, and multi-purpose auditoria. He is also involved with studies of speech privacy in open and enclosed offices. In addition, he provides noise control recommendations for mechanical ventilation equipment in buildings and for industrial processing and power-generating equipment. Mr. Schwind has a B.S.E. degree in Interdisciplinary Engineering from Purdue University and is a Fellow of the Audio Engineering Society.

**Location:** P G & E Energy Center  
851 Howard Street  
San Francisco, CA

**Date:** Wednesday, May 21, 2003

**Time:** 9AM – 4PM (Lunch and coffee break included)

**Cost:** \$125 if registered before 5/14/03  
\$150 if registered after 5/14/03

**For more information and to register contact:**

David Dacus  
(510) 749-9135  
[ddacus@taylor-engineering.com](mailto:ddacus@taylor-engineering.com)  
[www.ggashrae.org](http://www.ggashrae.org)

# **Technical, Energy and Government Affairs (TEGA) Committee**

## **ASHRAE Golden Gate Chapter's Technology Awards**

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Every year ASHRAE conducts the Technology Awards program to:

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

The Golden Gate Chapter presented the awards to the following recipients at the April Meeting:

### **Category I - Commercial Buildings - Existing**

1<sup>st</sup> Place - Hamilton Landing Buildings 3, 4, 5 & 6, Jeff Blaevoet, Guttman and Blaevoet Consulting Engineers.

2<sup>nd</sup> Place - Pier One, Reginald Monteyne & Allan Montpellier, Flack + Kurtz, Inc.

### **Category I - Commercial Buildings - New**

1<sup>st</sup> Place - Electronic Arts II, Steve Taylor & Jeff Stein, Taylor Engineering, LLC.

### **Category II - Institutional Buildings - Existing**

1<sup>st</sup> Place - Salazar Building at Sonoma State University, Keith F. Marchando, Sonoma State University & Antonio Costa, Costa Engineers, Inc.

2<sup>nd</sup> Place - Student Services Center, Steve Guttman, Guttman and Blaevoet Consulting Engineers

### **Category III - Health Care Facilities - Existing**

1<sup>st</sup> Place - Lanterman Developmental Center, Ben Sun, Flack + Kurtz, Inc.

### **Category III - Health Care Facilities - New**

1<sup>st</sup> Place - UC Davis Medical Center, Ted Jacob and Shulamit Rabinovich, Ted Jacob Engineering Group Inc.

### **Category IV - Industrial Facilities or Processes - Existing**

1<sup>st</sup> Place - ST Microelectronics - Class 10 Cleanroom Design, Peter H. Rumsey, Rumsey Engineers, Inc.

### **Category IV - Industrial Facilities or Processes - New**

1<sup>st</sup> Place - UC Davis Chilled Water Phase 4 & 5 Thermal Energy Storage Tank, Jonathan Markowitz & Alisdair McGregor, Arup

Each project was presented to the April meeting attendees as well.

**Congratulations to all members who participated!**

The first place winners will continue on to the Region X competition.

The chapter encourages all members to submit their projects next year. Please contact Scott Wayland at [sewayland@attbi.com](mailto:sewayland@attbi.com) if you have any questions.

# Minutes of April 3, 2003 Meeting

## Golden Gate Chapter Joint Meeting with Product Show

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Location – Pacific Gas and Electric Energy Center, San Francisco, CA

- Called to order at 6:48 p.m. by GG Chapter President Edgar DeGuzman.
- Self Introductions - All the ASHRAE Chapter members and Student Chapter members in attendance were recognized, in addition to all invited Winners of the Bay Area Science Fair, Scholarship Award Winners, and invited Guests.
- Jon Wintermeyer, Secretary for the Chapter announced that the election for Officers for the 2003-2004 year was completed and the slate passed as submitted. The officers elected were: Jon Wintermeyer – President-Elect
  - Cory Palmer – Secretary
  - Glenn Friedman – Treasurer
  - Debbie Marshall – Second Year Board Member
  - Robert Marcial – First Year Board Member
  - Edgar DeGuzman – Past President

President-Elect Bob Levi automatically becomes President and was not listed on the Ballot.

- David Dacus spoke in place of Research Promotion Chairperson Jon Malkovich, about ASHRAE Research for the Golden Gate Chapter and reminded all that the Chapter year is almost to a close, so get your tax-deductible checks mailed in.
- Edgar DeGuzman spoke in place of Kirk Peterson, Golf Chairperson and announced that the 2003 Golf Tournament sponsored by the GG Chapter would be held this year at the Boundary Oaks Golf Course in Walnut Creek in June and to see the application for the outing in the Fog Dispenser.
- Shaun Webster, Product Show Chairperson, thanked all those companies that participated in the program for the evening.
- Edgar DeGuzman introduced UC Berkeley Student Mingyu Shi to the meeting. She was a Travel Grant Award recipient, who attended the annual ASHRAE Winter meeting in Chicago. She spoke briefly about her experiences and seminars attended while there.
- Robin James, Chairperson for Student Activities spoke first about the great job done by the Science Fair Judges representing the Golden Gate Chapter this year; they were Board members Joe Olivier, Cory Palmer and Glenn Friedman. The three students chosen by them and given \$100 checks by the Chapter were as follows:
  - John S. Graham, Redwood High School, Larkspur, for his project on “Which of Several Common Materials is the Best Thermal Insulator”
  - Andrew J. Copeland, Redwood High School, Larkspur for his project on “The Effect of Fan Blade Design on Efficiency”
  - David A. Phillips, St Charles School, San Carlos for his project on “Which is the Better Insulation Material”

In addition to these selected students there were the 5 more Bay Area Science Fair students selected for Awards by the PG&E Energy Center.

There were digital pictures shown of the students’ projects and each gave a brief summary of their project, how they made it, what tests were performed, what they learned and a summary of the proven results.

Robin then announced that there were 6 scholarships awarded to College students by the Golden Gate Chapter this year and they were as follows:

- Michael T. Lin, a Senior Mechanical Engineering Student at Stanford received the Don Bryant Memorial Scholarship for \$1,500.00
- Andrew Sorter, a Senior Mechanical Engineering Student at Humboldt State received the Eric Thor Andresen Memorial Scholarship for \$1,500.00.
- Mara Baum, a Graduate Student working on a Masters in Mechanical Engineering at UC Berkeley received a Golden Gate Chapter Scholarship for \$750.00.
- Therese Peffer, a Graduate Student working on a PHD at UC Berkeley received a Golden Gate Chapter Scholarship for \$750.00.
- Ryota Shirai, a Graduate Student working on a Masters in Architecture at UC Berkeley received a Golden Gate Chapter Scholarship for \$500.00
- Jeffrey Evans, a Graduate Student working on a Masters in Architecture at UC Berkeley received a Golden Gate Chapter Scholarship for \$500.00.

(Continued next page)

(April 3, 2003 Meeting Minutes Continued)

- Edgar DeGuzman introduced Scott Wayland, Chairperson for TEGA, to present the Golden Gate ASHRAE Technology Awards to the Firms that submitted completed projects they had designed that were in 7 separate categories. The spokesperson for each Project gave a short presentation with slides of their installation and drawings. The Categories and Firms' projects to receive awards were as follows:
    - Commercial Existing First Place was awarded to Guttman and Blaevoet for the Hamilton Landing Buildings 3, 4, 5 & 6 located in Novato, CA
    - Commercial Existing Second Place was awarded to Flack + Kurtz for the Pier One Remodel located in San Francisco, CA
    - Commercial New First Place was awarded to Taylor Engineering for the Electronic Arts II Building located in Redwood City, CA
    - Health Care Existing First Place was awarded to awarded to Flack + Kurtz for the Lanterman Development Center Remodel located in Pomona, CA
    - Health Care New First Place was awarded to Ted Jacob Engineering Group for the UC Davis Medical Center located in Sacramento, CA
    - Industrial Existing First place was awarded to Rumsey Engineers for the ST Microelectronics – Class 10 Cleanroom Design located in Phoenix, AZ
    - Industrial/Process New First Place was awarded to Arup Engineers for the UC Davis Chilled Water Phase 4 & 5 Thermal Storage Tank Design located in Davis, CA
    - Institutional Existing First Place was awarded to Sonoma State University for the Salazar Building Remodel on their campus in Sonoma, CA
    - Institutional Existing Second Place was awarded to Guttman and Blaevoet for the Student Services Center Building at San Jose State University in San Jose, CA
  - There was a Marble Draw raffle for the GG Chapter at the meeting, with a possible winner's pot of \$520.00. The winning ticket was held by Mark Collins, but he did not pick the black marble, but still received the \$100 dinner gift certificate to Boulevard.
  - Thank you again for the Prizes that were donated by our Generous Sponsors: George Dimic of ACCO, and Sanford Mechanical. Also, thank you to the vendors who displayed for generously providing drink tickets for all attendees, And last but not least, thanks to PG&E for donating the appetizers at the Product Show.
  - Meeting adjourned at 9:15 p.m.
- Minutes by Jon Wintermeyer, Secretary

## ASHRAE Research Report

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I want to thank everyone who has donated to ASHRAE Research this year. So far we have raised \$9,614. However, last year we raised \$21,261 so there is still a ways to go to exceed last year's total. With your help I know that we can do make it happen!

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

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

### **Corporate Honor Roll Investors (\$150.00 or more)**

*American Mechanical Services*

### **Individual Honor Roll Investors (\$100.00 or more)**

*Kyle Blocker*

*Dan Barrango*

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

**ASHRAE Research**

c/o Jon Malkovich

E.B.Ward

[jon.malkovich@ebward.com](mailto:jon.malkovich@ebward.com)

2301 Arnold Industrial Way, Suite C

Concord, CA 94520

925.688.1369

## **From the Chapter Historian**

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### **ASHRAE: Golden Gate Chapter Brief History<sup>1</sup>**

In the early 1930s, there existed two related organizations in San Francisco. The National Association of Practical Refrigeration Engineers (NAPRE) comprised mostly of industrial refrigeration plant operating engineers. There also was the San Francisco Air-Conditioning Society (SFAC), which was sponsored by the Pacific Gas & Electric Company.

Earlier, in 1895, the American Society of Heating & Ventilating Engineers (ASHVE) was formed, and in 1905, the American Society of Refrigerating Engineers (ASRE) was formed.

The SFAC disbanded in 1937 and became the Golden Gate Chapter of ASHVE. It is believed that the NAPRE members formed the San Francisco Section of ASRE in 1944.

ASHVE's 1941 Summer meeting was held in San Francisco. The Golden Gate Chapter's newsletter, The Fog Dispenser, began in the late 1940s.

In 1954, ASHVE's name was changed to the American Society of Heating & Air Conditioning Engineers (ASHAE).

In the 1959, ASHAE merged with ASRE and became the American Society of Heating, Refrigerating & Air Conditioning Engineers (ASHRAE).

The first Region X ASHRAE Chapters Regional Conference (CRC) met in San Francisco in 1959. It was believed to be the very first ASHRAE CRC meeting.

Submitted by,  
Carl H. Jordan, Life Member, Fellow, Golden Gate Chapter Historian  
Golden Gate Chapter Past-President (1976-77)

<sup>1</sup> Information based on History of the Golden Gate Chapter, 3/17/83, by Thomas J. White, Chapter Historian, and ASHRAE's web site <http://xp20.ashrae.org/ABOUT/history.htm>

## **MARBLE DRAW**

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Thank you to George Dimic of ACCO (Gift Certificates to Boulevard in San Francisco and wine) and Sanford Mechanical (wine) for sponsoring the Marble Draw at the April meeting. If you would like to sponsor the prizes for future Marble Draw raffles, please contact Nicolina Guiliano at [nicolina.j.guiliano@jci.com](mailto:nicolina.j.guiliano@jci.com)

## **BOARD MOTION**

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Motion by Jon Wintermeyer, seconded by Edgar DeGuzman, to change the gift given to Bay Area Science Fair student winners. The previous \$100 U.S. Savings Bond gift will be replaced by a \$100.00 check. The reason for the change was to simplify the gift giving process for the Board. Motion carried 5-1-0.

**ASHRAE GOLDEN GATE CHAPTER  
2003 MEMORIAL TENNIS TOURNAMENT**



**Round-Robin Rotating Doubles  
San Francisco Tennis Club**

**Friday, May 30<sup>th</sup> [1 – 4pm]**

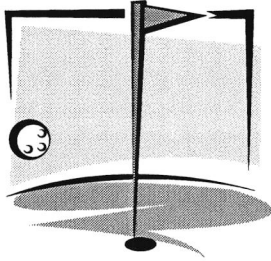
Come join us for some fun & friendly competition  
Entry Form & additional details to follow

Proceeds benefit the  
Eric Thor Andresen  
Memorial Scholarship Fund

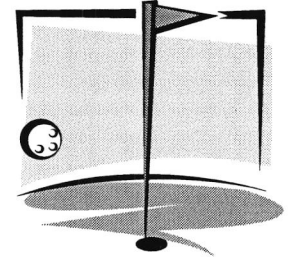
If you have any questions please contact the Tournament Coordinator  
Jason Daters

Phone: 510-723-7728

Email: [Jason.Daters@siemens.com](mailto:Jason.Daters@siemens.com)



**ASHRAE Golden Gate Chapter  
2003 Golf Tournament**



Friday, June 27, 2003 • 1 pm Shotgun Start

**Boundary Oaks Golf Course**

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

Registration starts at 10:30 a.m.

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

**Pricing:**

*(all packages include dinner and golf goodies):*

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

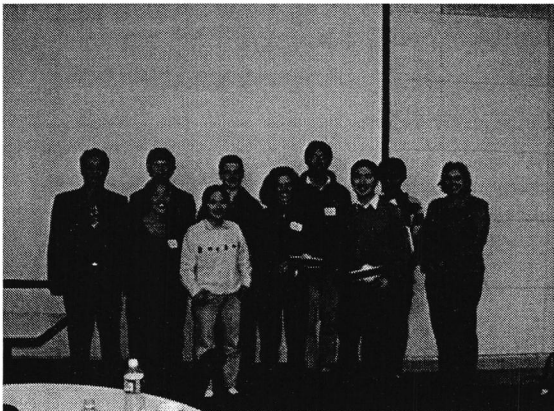
Contest Sponsors, Tee Sponsors, and Prize Donations are graciously requested

**All proceeds benefit ASHRAE Research**

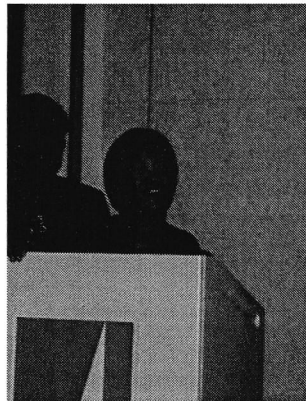
For more information, or to sign up your team, please contact Kirk Peterson at 650.872.5207  
or via e-mail: [kirk.peterson@ebward.com](mailto:kirk.peterson@ebward.com)



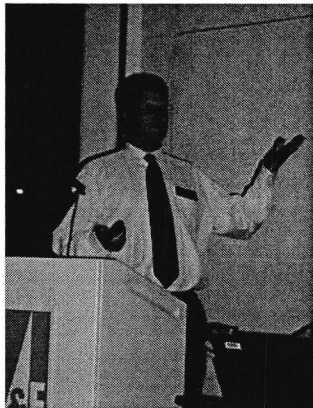
*Left:* Crowd at the Annual Product Show  
*Right:* Charlene Sturm is selling ?? at the Product Show



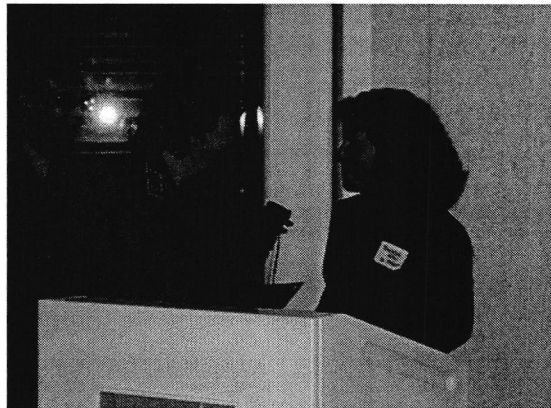
*Left:* Bay Area Science Fair Winners and Scholarship Winners



*Right:* UCB Student Chapter Pres. and Newsletter Editor Jane Lin



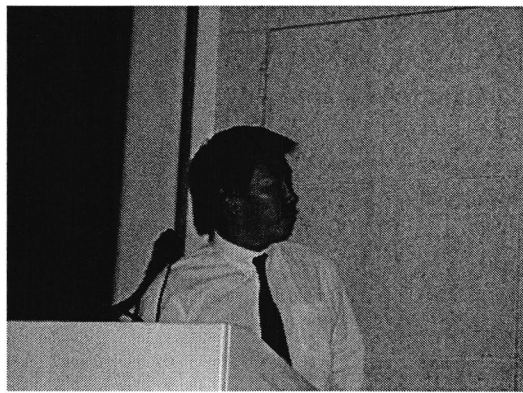
*Left:* Scott Wayland, TEGA Chair introducing the Technology Award winners



*Right:* Robin James, Student Activities Chair presenting a Scholarship to Therese Peffer – UCB



*Left:* Technology Award Winners



*Right:* Ben Sun visualizing his project

# Employment Opportunities

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## HVAC EQUIPMENT SALES

AIR TREATMENT CORPORATION is seeking a highly motivated professional to join our Sacramento, CA team - to sell our high quality mechanical equipment. Excellent compensation and benefits. Industry knowledge and sales experience required. Knowledge of variable frequency drives a plus. Additional sales positions may be available in our San Francisco, Los Angeles, San Diego, Reno, Fresno, and Salinas /Monterey area. Please e-mail your resume to [vdonatello@airtreatment.com](mailto:vdonatello@airtreatment.com) or fax to 510-769-0701.

## PLUMBING ENGINEER



**Taylor Engineering** is looking for an experienced plumbing design engineer to join our team. We specialize in innovative large building HVAC and control system design, energy and indoor air quality analysis, and system commissioning. Recent projects include the UC Merced Office/Classroom, UC Merced EMCS and Commissioning, Electronic Arts II in Redwood City, Vista College in Berkeley, Pixar II in Emeryville, and revisions to Title-24 Energy Standard for 2005. Prospective candidates must be proficient in plumbing and fire sprinklers design, specifications writing and fee estimating. PE Registration, HVAC design experience and design/build or 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: Glenn Friedman, Taylor Engineering, 1305 Marina Village Parkway, Suite 101, Alameda, CA 94501-1028. Fax: 510-749-9136. E-mail: [gfriedman@taylor-engineering.com](mailto:gfriedman@taylor-engineering.com)

## HVAC EQUIPMENT SALES – INSIDE POSITION

Norman S. Wright Mechanical Equipment has an immediate opening for an experienced sales engineer/assistant in the San Francisco office. Industry experience required. Industry leading compensation package. Please call Ron Yaffe at 415-467-7600 or email [ryaffe@norman-wright.com](mailto:ryaffe@norman-wright.com)

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# ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

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*For May 1<sup>st</sup>, 2003*

Please reserve prior to **Tuesday, April 29<sup>th</sup> at noon.**

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and click on "Meetings", and click on "May 1", fill out the form and send. Or send an email with names, company, phone number to [reservations@ggashrae.org](mailto:reservations@ggashrae.org) Or FAX the following form to Glenn Friedman (510) 749-9136

**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 April 29<sup>th</sup>.

FROM: \_\_\_\_\_

COMPANY: \_\_\_\_\_ Phone: \_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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# FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 9

JUNE 2003

## June Meeting Notice

### SPOUSE / SIGNIFICANT OTHER NIGHT AND PAST PRESIDENTS' NIGHT

Date: Thursday, June 5<sup>th</sup>

Place: Carnelian Room  
Top of the Bank of America Building  
555 California Street  
San Francisco, CA  
(Parking in the building is a flat \$10.00 after 5:00 p.m.)

Cost: \$35 - For GGASHRAE members and guests  
if reserved prior to noon on Tuesday, June 3<sup>rd</sup>  
\$42 - For non-members or if reserved after  
noon on June 3<sup>rd</sup> or walk-in  
Students - No charge, but please register  
anyway  
Voucher - Please register anyway

Schedule: 5:30 pm Social Hour and Registration  
6:30 pm Dinner  
7:30 pm Meeting & Comedian Will Durst

You now have the ability to choose your entrée when you register. The Carnelian Room will offer a choice of New York Steak, Grilled Salmon, or Penne Pasta Primavera (vegetarian).

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and clicking on "Meetings", and click on "June 5", fill out the form, select your entrée, and send.

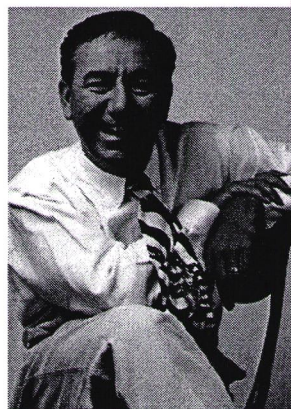
Or send an email with names, company, phone number, and menu choice to [reservations@ggashrae.org](mailto:reservations@ggashrae.org)  
Or use the fax form in the Fog Dispenser.

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

## June Program

### Comedian Will Durst

This is the last meeting of the 2002-2003 year. Please join us for this special event. Stand-up comedian Will Durst, one of America's premier political comics, will perform. He will not be talking about any HVAC topics, even though his father-in-law is a heating and sheet metal contractor.



Durst states that his humor is "comedy for people who read or know someone who does". If you politically lean to the left or to the right, don't worry, Will Durst is an equal opportunity offender.

Since the program is non-technical, why not bring along your spouse or significant other. June is also the time for the changing of the chapter officers and recognizing the Committee Chairs. June is also the month that we honor the Past Presidents of the Golden Gate Chapter. Hope to see you at the June meeting.

See Will Durst's full biography on the next page.

## Golden Gate Chapter President's Message, June 2003

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### "I Bid You All Adieux"

After what seemed to be a year term as chapter president is over, I can honestly say that my experience has been nothing short of exciting and wonderful. Being able to surround myself with the presence of a knowledgeable, diligent, and charismatic group has made my job enjoyable.

I owe a great deal of thanks to the members of the Board, and Committees staff; because of you my job as President has been a lot easier. With that said, I feel that it is only appropriate that I mention a few names: Bob Levi, Jon Wintermeyer, Cory Palmer, Glenn Friedman, Joe Olivier, Scott Wayland, Nicolina Guiliano, Jon Malkovich, Robin James, Kirk Peterson, Carl Jordan, Jane Lin, Robert Marcial, Bob Polizzi, Dave Dacus, Jason Daters, and Shaun Webster. Continue to keep up the excellent work.

Also, I would like to thank my mother and my family for their support.

I am happy to say that I will be leaving this position with fond memories, and there is no doubt in my mind that next year will be just as great.

On Thursday, June 5<sup>th</sup> our last monthly meeting will be held at the Carnelian Room in the Bank of America Building. Bring your significant others for they will get a good treat. Our special guest will be Will Durst a great comedian.

See you at the meeting

Respectfully submitted,  
Edgar De Guzman

## Comedian Will Durst

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As the sacred cows set themselves up for slaughter each night at six, America cries out for a man with the aim, strength and style to swat the partisan political piñatas upside their heads. Stand-up comedian Will Durst is that man. Sweeping both sides of the aisle with a quiver full of barbs sharpened by a keen wit and dipped into the same ink as the day's headlines, Durst transcends political ties, cementing his claim as the nation's ultimate equal opportunity offender. Outraged and outrageous Durst may mock and scoff and taunt, but he does it with taste.

A Midwestern baby boomer with a media induced identity crisis, Durst has been called "a modern day Will Rogers" by The L.A. Times while the S. F. Chronicle hails him as "heir apparent to Mort Sahl and Dick Gregory." The Chicago Tribune argues he's a "hysterical hybrid of Hunter Thompson and Charles Osgood," although the Washington Post portrays him as "the dark Prince of doubt." All agree Durst is America's premier political comic.

As American as a bottomless cup of coffee, this former Milwaukeean is cherished by critics and audiences alike for the common sense he brings to his surgical skewering of the hype and hypocrisies engulfing us on a daily basis. Busier than a blind squirrel neck deep in an almond sorting warehouse, Durst writes a daily Internet column, was a contributing editor to both *National Lampoon* and *George* magazines and continues to pen frequent contributions to various periodicals such as the *New York Times* and his hometown *San Francisco Chronicle*.

This five-time Emmy nominee and host/co-producer of the ongoing award winning PBS series "Livelyhood" is also a regular commentator on NPR and CNN, and has appeared on every comedy show featuring a brick wall including Letterman, Comedy Central, HBO and Showtime, receiving 7 consecutive nominations for the American Comedy Awards Stand Up of the Year. Hobbies include the never-ending search for the perfect cheeseburger, while his heroes remain the same from when he was twelve: Thomas Jefferson and Bugs Bunny.

Visit his web site at [www.willdurst.com](http://www.willdurst.com).

## CRC News

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### Robert Marcial & Golden Gate Chapter Receive Website Award

The Region X CRC was held on May 15<sup>th</sup> through 17<sup>th</sup> in Culver City (Los Angeles). The Golden Gate Chapter was honored to receive the **Region X Sukhdev Mathaudhu Honorary Award (2002-2003) for the Best Chapter Website in Region X to Promote Member Service**. The Award was presented to Robert Marcial, Golden Gate Chapter Webmaster. Robert was the pioneer in Chapter websites for ASHRAE and continues to excel. Congratulations Robert.

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### Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, GG TEGA Chair

If you have not read any of the previous TEGA columns, **please take a look at them in the archived issues of the Fog Dispenser at [www.ggashrae.org](http://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@attbi.com](mailto:sewayland@attbi.com)

### Technology Awards

**The following Chapter Technology Award winners received Regional Technology Awards at the Region X CRC on May 17<sup>th</sup>. These projects will now move up to compete at the Society level.**

Category I - Commercial Buildings - New

1<sup>st</sup> Place - Electronic Arts II, Steve Taylor & Jeff Stein, Taylor Engineering, LLC.

Category I - Commercial Buildings - Existing

1<sup>st</sup> Place - Hamilton Landing Buildings 3, 4, 5 & 6, Jeff Blaevoet, Guttman and Blaevoet Consulting Engineers.

Category II - Institutional Buildings - New

2<sup>nd</sup> Place - UC Davis Chilled Water Phase 4 & 5 Thermal Energy Storage Tank, Jonathan Markowitz & Alisdair McGregor, Arup

Category II - Institutional Buildings - Existing

1<sup>st</sup> Place - Salazar Building at Sonoma State University, Keith F. Marchando, Sonoma State University & Antonio Costa, Costa Engineers, Inc.

Category III - Health Care Facilities - New

1<sup>st</sup> Place - UC Davis Medical Center, Ted Jacob and Shulamit Rabinovich, Ted Jacob Engineering Group Inc.

Category IV - Industrial Facilities or Processes - Existing

2<sup>nd</sup> Place - ST Microelectronics - Class 10 Cleanroom Design, Peter H. Rumsey, Rumsey Engineers, Inc.

**Congratulations to the Regional Technology Award Winners**

The TEGA Committee would like to encourage all members to think about Technology Awards for next year. Entries will be due in late February 2004.

## TEGA, continued

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### ASHRAE Standards and other Codes, & Guidelines

As more and more projects are being designed with high performance, energy efficiency, sustainability and other criteria in mind, new challenges and tasks are presented to us as engineers. ASHRAE's Standards are a key part of how the built environment is improving. Many of you have now been exposed to the USGBC LEED™ Rating System. This Guideline refers to several ASHRAE Standards including 90.1, 55 and 62. Similarly, several Codes often refer to ASHRAE Standards. This could happen more in the future. Case in point, the ASHRAE Standards (and other publications) become the benchmark that's referred to by other regulations. In essence, they become a part of the code or guideline that references them. In an indirect way, these codes and guidelines help advance ASHRAE's authoritative position.

All of us as ASHRAE members can help enhance and develop Standards, Guidelines and Handbooks. When we improve these documents, we are also improving the Codes and other regulations that refer to them. I encourage you to help make a difference. If you have a thought or comment about an ASHRAE document, your voice can be heard:

For information about Standards, go to: <http://xp20.ashrae.org/standards/stds.htm>

If you would like to submit a proposed change, go to: <http://xp20.ashrae.org/standards/cm-Jan02.htm>

To read interpretations on Standards, go to: <http://xp20.ashrae.org/STANDARDS/intpstd.htm>

To request an interpretation about a Standard, go to: <http://xp20.ashrae.org/STANDARDS/int.htm>

If you would like to information about Handbooks (submitting comments, committee participation, etc), go to: <http://xp20.ashrae.org/book/techr3.htm>

To comment on a Handbook issue, go to: [http://xp20.ashrae.org/book/frm\\_handbook.htm](http://xp20.ashrae.org/book/frm_handbook.htm)

If you would like to get involved with a Committee, go to: <http://xp20.ashrae.org/frame.asp?ABOUT/standcm.htm>

Please browse the Society website for more ways to get involved.

### ASHRAE Research Report

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This is the last installment of the ASHRAE Research Report for this year. Thanks to everyone who has donated! If you have not donated there is still time, all donations need to be sent to ASHRAE by June 30<sup>th</sup>. The following individuals have donated on the Honor Roll level in the last month. If you have donated and not been recognized please let me know.

Corporate Honor Roll Investors (\$150.00 or more)

*ASHRAE Redwood Empire Section*

Individual Honor Roll Investors (\$100.00 or more)

*Robert De Chene*

*John Ward*

*Catherine Nemechek*

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

ASHRAE Research  
c/o Jon Malkovich  
Edward B. Ward & Company  
2301 Arnold Industrial Way, Suite C  
Concord, CA 94520  
925.688.1369 phone  
[jon.malkovich@ebward.com](mailto:jon.malkovich@ebward.com)

# From the Chapter Historian

## Thomas J. White – GGASHRAE Biography

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

Tom White joined ASHVE in 1937. He became a Life Member and a Fellow. He had a BSEE from Harvard University and was a Registered Professional Engineer.

I met Tom in 1957 when he was a sales engineering manager for American Blower, a Division of American Standard, where he worked from 1936 to 1975.

In addition to his adored wife Adele, Tom's love was ASHRAE and his Golden Gate Chapter. He loved bringing Adele to the spouses meeting.

Tom sought out and helped to organize Society's meetings in San Francisco in 1940, 1956, 1970, 1986 and 1998. He was the Chapter's vice chair for the 1970 meeting and stepped up to assume the Chairman's role for the meeting upon the untimely death of Chairman Joseph E. Murray, a week or so before the meeting. He was the Honorary Chair in 1998.

Tom went to Society Annual meetings regularly to lobby for future meetings to be held in San Francisco and hosted by the Golden Gate Chapter. He also served on a number of Society Committees including Charter & Bylaws, Nominating, Programs, Meeting Arrangements, Historical, Public Information, Honors & Awards and the Centennial.

Tom was the Golden Gate Chapter President for 1952-1953, while rotating through the Board Officer Positions. At the Chapter level he served on membership, reception, nominating, research committees and was also a past Historian. (A deluxe version)

Tom was an ASHRAE Director and Chairman of Region X. He received the Distinguished Service Award, Regional Award of Merit, 50 Year Distinguished Member Award and Exceptional Service Award.

In his senior years, Tom was known for taking the floor at meetings and giving the Chapter members in attendance his best advice on the subject at hand.

Finally, Tom's historian legacy can be found in his "Progress in Air Conditioning in the Last 50 Years", written December 1990 and "History of the Golden Gate Chapter", written in March 1983.

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

(Information from the memories of the author, in addition to the Chapter's 1994-1995 Centennial FOG Dispenser.) ASHRAE currently does have an official biography on file for Thomas J. White.

### **ASHRAE Golden Gate Chapter - Dinner Reservation Fax**

For Thursday, June 5<sup>th</sup>

Please reserve prior to **Tuesday at noon, June 3<sup>rd</sup>**

Please reserve on-line by visiting [www.ggashrae.org](http://www.ggashrae.org) and click on "Meetings", and click on "June 5", fill out the form and send. Or send an email with names, company, phone number, **AND MEAL CHOICES** (Steak, Salmon, or Pasta) to [reservations@ggashrae.org](mailto:reservations@ggashrae.org) Or FAX the following form to Glenn Friedman (510) 749-9136

**Members with vouchers – you too – must send in your reservation. We need to know how many meals to request.** Please cancel your reservation if you cannot attend. Cancellations must be received by June 3<sup>rd</sup>

FROM: \_\_\_\_\_ COMPANY: \_\_\_\_\_ Phone: \_\_\_\_\_

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

\_\_\_\_\_ Meal Choice \_\_\_\_\_  
\_\_\_\_\_ Meal Choice \_\_\_\_\_  
\_\_\_\_\_ Meal Choice \_\_\_\_\_

# Employment Opportunities

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## Mechanical / Electrical Engineer

**Alfa Tech, Inc.**, a leading full service engineering firm is seeking motivated team players to join our winning team. We are currently have openings for Mechanical and Electrical engineers. The successful candidate must be proficient in AutoCAD as well as office and engineering computer applications. Good communication skills and a client driven attitude are a must. Alfa Tech provides excellent salaries, a 401K plan, bonuses, Employee Stock Options, and growth opportunities.

Visit our website at: [www.alfatech.net](http://www.alfatech.net)

Send resumes to Theria Boyd – [theria\\_boyd@atce.com](mailto:theria_boyd@atce.com)

## HVAC Equipment Sales-Inside position.

Norman S. Wright Mechanical Equipment has an immediate opening for an experienced sales engineer/assistant in the San Francisco office. Industry experience required. Industry leading compensation package. Please call Ron Yaffe at 415-467-7600 or email [ryaffe@norman-wright.com](mailto:ryaffe@norman-wright.com)

## Plumbing Engineer



**Taylor Engineering** is looking for an experienced plumbing design engineer to join our team. We specialize in innovative large building HVAC and control system design, energy and indoor air quality analysis, and system commissioning. Recent projects include the UC Merced Office/Classroom, UC Merced EMCS and Commissioning, Electronic Arts II in Redwood City, Vista College in Berkeley, Pixar II in Emeryville, and revisions to Title-24 Energy Standard for 2005. Prospective candidates must be proficient in plumbing and fire sprinklers design, specifications writing and fee estimating. PE Registration, HVAC design experience and design/build or 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: Glenn Friedman, Taylor Engineering, 1305 Marina Village Parkway, Suite 101, Alameda, CA 94501-1028. Fax: 510-749-9136. E-mail: [gfriedman@taylor-engineering.com](mailto:gfriedman@taylor-engineering.com)

**Siemens Building Technologies, Inc.** is a \$1.1 billion leader in providing customized, cost-effective solutions to improve energy efficiency and building performance. We're currently looking for solutions-minded and customer-service focused professionals to join us in the following San

Francisco area positions:

- Senior Sales Engineer, Performance Contracting - Hayward (6536)
- Business Development Manager, Performance Solutions - Hayward (6313)
- Sales Engineer, Service - Hayward (6523)
- Sales Engineer, Systems - Hayward (7170)

To join us in any of these positions, you must have a bachelor's degree in a relevant field and several years of related experience. In return for your skill, expertise and innovative thinking, we'll reward you with competitive pay, top-notch benefits and more. Please visit our website to read more about these opportunities and apply online: [www.sbt.siemens.com/careers](http://www.sbt.siemens.com/careers) and search for the appropriate Requisition ID#. EOE

## Career Opportunities @ Keen Engineering Inc.

Keen Engineering Inc., North America's leading sustainable engineering firm, is a professional consulting engineering firm with 10 North American offices and over 80 LEED™ accredited professionals.

Our San Francisco office continues to expand and we are looking for team players to fill a couple of positions.

- 1) An energetic experienced (4+ yrs) intermediate project manager.
- 2) Junior/EIT person with HVAC experience.

Check out our Web address [www.keeneng.com](http://www.keeneng.com) for complete details.

Contact [cheryl.crawford@keeneng.com](mailto:cheryl.crawford@keeneng.com) with cover letter and resume.

# 2003 ASHRAE SEMINAR

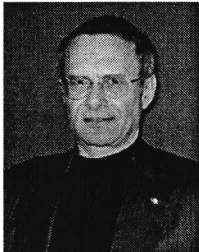
**Wednesday, May 21, 2003**

*Everything an HVAC Engineer needs to know about acoustics*

## TOPICS:

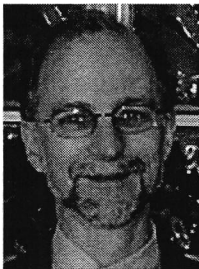
- **Acoustical Basics**—understanding dB, NC, RC, sound power and sound pressure
- **Mitigation Techniques**—proper application of sound traps, spring isolators, floating floors, thickened slabs, etc.
- **Application Considerations**—techniques for controlling sounds resulting from fans, cooling towers, chillers, pumps and fan-powered VAV boxes
- **Case Studies on Past Projects**
- **Round Table Discussion**—audience participation discussing contemporary challenges facing both HVAC engineers and acoustical consultants

Presented by: **Charles M. Salter, P.E.**



Mr. Salter, president of Charles M. Salter Associates, Inc., has practiced acoustical engineering for 30 years. With educational backgrounds in architecture, planning, engineering and business, Mr. Salter has conducted a wide range of consulting work in the areas of architectural acoustics, noise control engineering, and environmental noise impact. He has had project responsibility for various facility types including hospitals, office buildings, schools, churches, theaters, residences, and power generating plants.

Round table discussion lead by: **David R. Schwind, FAES**



Mr. Schwind, Senior Vice President at Charles M. Salter Associates, Inc., has been consulting in acoustics since 1975. Mr. Schwind consults on the acoustical design for corporate, education, presentation, and entertainment facilities such as film and broadcast studios, theaters, and multi-purpose auditoria. He is also involved with studies of speech privacy in open and enclosed offices. In addition, he provides noise control recommendations for mechanical ventilation equipment in buildings and for industrial processing and power-generating equipment. Mr. Schwind has a B.S.E. degree in Interdisciplinary Engineering from Purdue University and is a Fellow of the Audio Engineering Society.

**Location:** PG&E Energy Center  
851 Howard Street  
San Francisco, CA

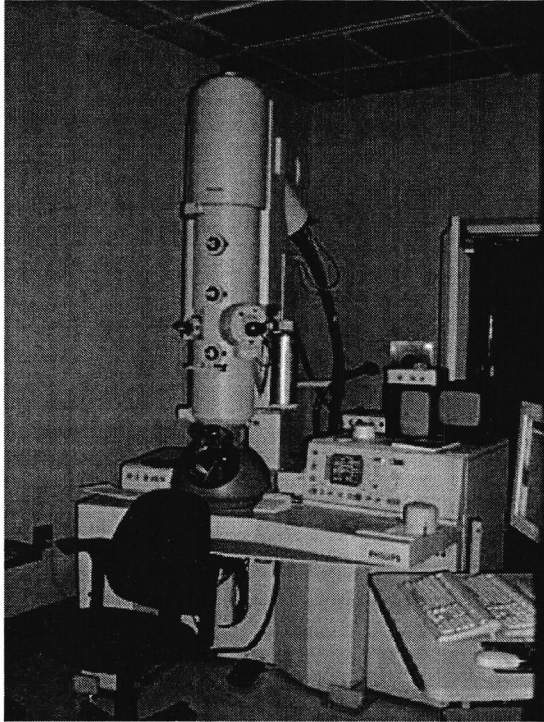
**Date:** Wednesday, May 21, 2003

**Time:** 9AM – 4PM (Lunch and coffee break included)

**Cost:** \$150.00

**For more information and to register visit:**

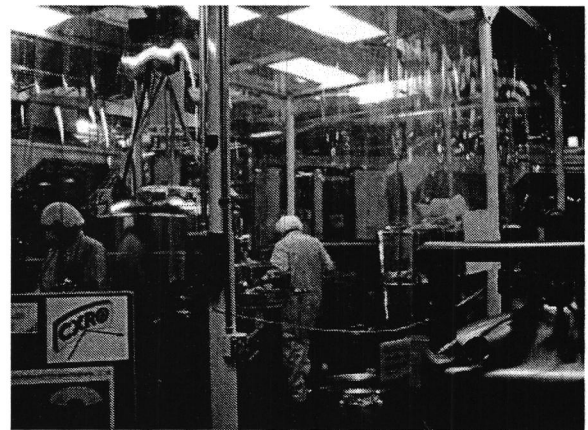
[http://www.ggashrae.org/meetings/2002-2003/acoustics\\_frames.htm](http://www.ggashrae.org/meetings/2002-2003/acoustics_frames.htm)



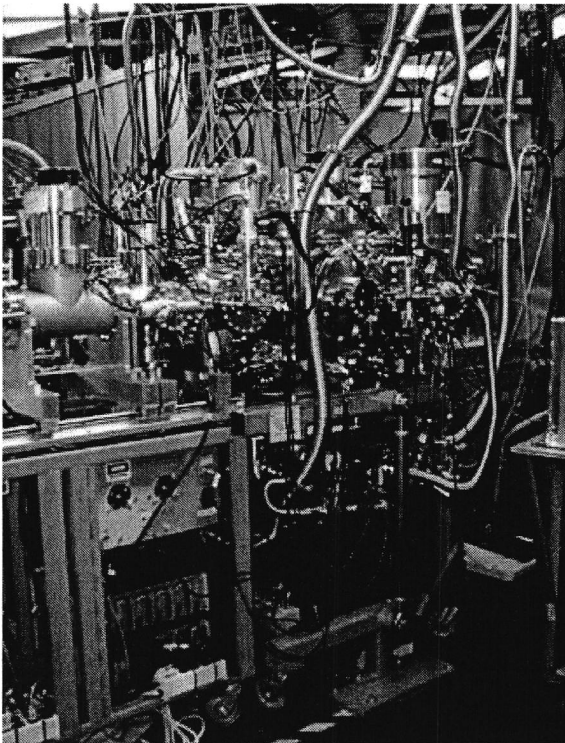
*Newer electron microscope with resolution down to one angstrom  
( $10^{-10}$  meter = 0.1 nanometer)*



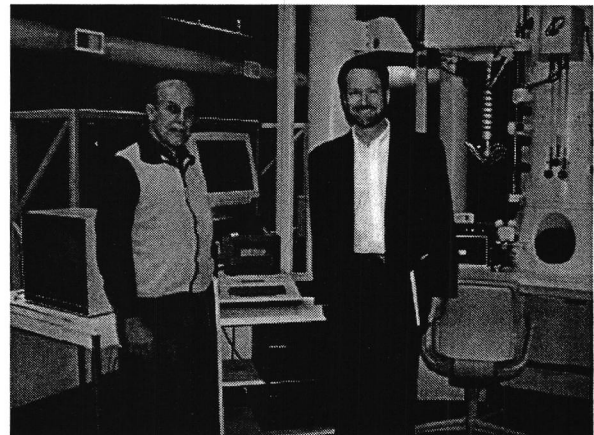
*GG ASHRAE members on the May 1<sup>st</sup> tour of Lawrence  
Berkeley Labs*



*Another experiment endstation from the ALS*



*One of the experiment endstations from the Advanced Light  
Source's (ALS) concentrated light source*



*Charlie Nadig & Bob Levi next to an Apple II, which  
operates an older electron microscope*

**ASHRAE GOLDEN GATE CHAPTER  
2003 MEMORIAL TENNIS TOURNAMENT**



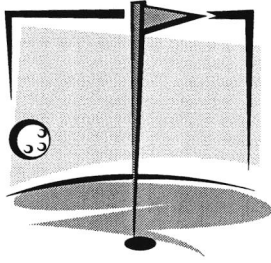
- WHERE:** San Francisco Tennis Club  
645 Fifth Street @ Brannan  
(415) 777-9000  
Indoor Courts w/ locker room & garage parking
- WHEN:** Friday, May 30<sup>th</sup> [1pm – 4pm]
- WHY:** Proceeds benefit the Eric Andresen Engineering Scholarship Fund  
Plus the chance to: have fun, exercise, network, & take a break from work
- FORMAT:** Round Robin Rotating Doubles  
Awards for Individual Score Champions
- COST:** \$65/player - includes: court fees, balls, refreshments, & awards
- SIGN-UP:** Mail entry/check to: ASHRAE Tennis Tournament  
c/o Jason Daters  
25821 Industrial Blvd, Suite 300  
Hayward, CA 94545  
Checks payable to: Golden Gate Chapter ASHRAE
- DEADLINE:** Entries must be received by May 23<sup>rd</sup>, early sign-up is appreciated
- QUESTIONS:** Contact the Tournament Coordinator – Jason Daters  
Phone: 510-723-7728 / Email: [tennis@ggashrae.org](mailto:tennis@ggashrae.org)

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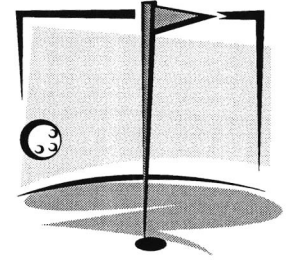
**Tournament Entry Form**

**NAME:** \_\_\_\_\_ **PLAYER LEVEL:**  
**COMPANY:** \_\_\_\_\_  ADVANCED  
**PHONE:** \_\_\_\_\_  INTERMEDIATE  
**EMAIL:** \_\_\_\_\_  RECREATIONAL

[Please enclose check for entry fee]



**ASHRAE Golden Gate Chapter  
2003 Golf Tournament**



Friday, June 27, 2003 • 1 pm Shotgun Start

**Boundary Oaks Golf Course**

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

Registration starts at 10:30 a.m.

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

**Pricing:**

*(all packages include dinner and golf goodies):*

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

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

**All proceeds benefit ASHRAE Research**

For more information, or to sign up your team, please contact Kirk Peterson at 650.872.5207  
or via e-mail: [kirk.peterson@ebward.com](mailto:kirk.peterson@ebward.com)

# **Syserco Inc.**

We are in our 20<sup>th</sup> 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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