

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 4

JANUARY 2002

January Lunch Meeting Notice

Date: Thursday, January 10, 2001 at 12 noon

Place: Carnelian Room
San Francisco

Cost: \$35 for GGASHRAE members and guests **w/ advance reservations**
\$42 for non-members and **all w/o reservations.**

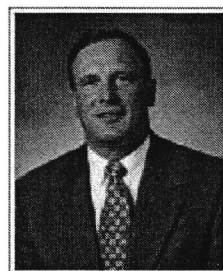
Time:
11:30 am Registration & Social ½ Hour
12 Noon Lunch & Guest Speaker

All reservations must be received by **Tuesday January 8th**. Contact Robin James via e-mail (ggashrae@hotmail.com) or fax (707-745-5999). Please provide your name, phone number, total number of reservations and the names of those in your party.

January Program: Speaker: Ron Schneider

Taking Advantage of New Technology for Chilled Water Systems

The purpose of this presentation is to share industry best practices and technological advancements that provide real value. This system approach is more than just highly efficient



equipment. It's a philosophy of design that applies three tenets to the entire system, both airside and waterside:

↳ Low flow

↳ Low temperature

↳ High efficiency

The result is a chilled-water system that not only delivers superior comfort, but is less expensive to install and operate than conventional designs. Taking advantage of today's control technology, the system delivers optimal, reliable and sustainable performance for the life of the building.

Ron Schneider is the Director of Marketing in the North America Region for The Trane Company. Ron Schneider has been with The Trane Company for 20 years. Most recently, he has been sharing best practices that provide added value for Trane customers. Ron received a Bachelor of Science degree in Engineering from South Dakota State University in 1981.

Golden Gate Chapter President's Message

January 2002



Golden Gate President Joe Olivier and
Leo the Lyon

HAPPY NEW YEAR!

As I look back on 2001, I now realize that the "real" millennium year was the one we should have all been worried about. For me personally, it was a year of incredible achievements coupled with heartbreaking losses. I am looking forward to a new start in 2002 and I wish the membership a happy, safe, and prosperous 2002.

The New Year for the Golden Gate Chapter is going to be very exciting! One of my goals as Chapter President were to vary the locations of our monthly meetings to accommodate members living in various parts of the Bay Area. December's meeting was in San Mateo, in February we will once again meet at Scott's Seafood in Jack London Square. I am very excited about our first ever joint meeting with the Redwood Empire Section slated for March at the Embassy

Suites in San Rafael. These varying locations, in conjunction with the excellent programs Edgar DeGuzman has put together promise to make 2002 a very exciting year for our chapter.

Our December meeting with the San Jose Chapter had the best marble game prizes ever! Many thanks to Nicolina Guiliano of E. B. Ward for her tireless work in assembling the prizes donated by the following generous contributors:

- ACCO Air Treatment CMI
- Mechanical Contractors Assoc NABCO Norman Wright
- Scott Company Syserco

Many thanks for supporting our chapter!!

Be sure to join us for our annual luncheon meeting on the 10th at the Carnelian Room. There will be great views, a great program, and hopefully good weather!

Respectfully submitted,

Joseph R. Olivier, P.E.,
ASHRAE Golden Gate Chapter President

2002 PROGRAMS

GOLDEN GATE CHAPTER OF ASHRAE

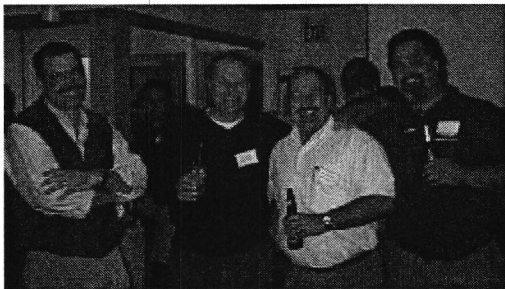
DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
Jan 10 Noon	Carnelian Room San Francisco	None	Taking Advantage of New Technology for Chilled Water Systems	Ron Schneider Trane
Feb 7	Scott's Seafood Oakland	Small Tonnage Absorption Chillers by Patrick Hale of "YAZAKI"	Review of Mechanical Utilities in the Semi-Conductor and Bio-Tech Industries	Danny Nielson P.E. ACCO Inc.
Mar 7	Embassy Suites San Rafael - Joint with Redwood Empire Section	Mark Rubin of Capstone Turbine presenting Microturbine Generator Applications	Effective Ventilation Design: Diffusers, Box Minimums, OSA Damper Control	Dan Int-Hout Carrier
Apr 4	PEC San Francisco	Product Show	Scholarship Winners Science Fair Award Winners	Winners
May 2	Marriott Hotel (tentative pending availability and cost)	No Host Bar	"SOCIAL NIGHT " Dinner/Dance with DJ. Golden Oldies/ Rock & Roll/ Swing/ Cha-Cha and many more.	Dick Clark (tentative)
Jun 6	Carnelian Room San Francisco	Technical Presentation on Hydronics System and Control Valves by Robin James of "Belimo"	The Seven Habits of Highly Effective People Spouse's night	Werner Buck Belimo

Ron Schneider

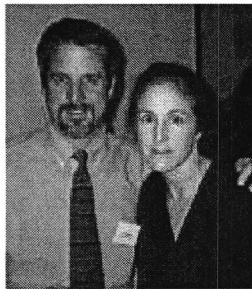
Director of Marketing - North America Region: The Trane Company

Ron Schneider has been with The Trane Company for 20 years starting in the CenTraVac marketing group in La Crosse, WI. After holding numerous positions at Trane, Ron now works on system and solution marketing programs specifically focused to Trane customers - contractors, engineers, and owners. Several of these initiatives include a business-to-business marketing tool focused on improving customer's businesses. Most recently, he has been sharing best practices that provide added value for all of our customers. Ron received a Bachelor of Science degree in Engineering from South Dakota State University in 1981.

Photos from the December Redwood Empire Section Meeting



All this fun and a great speaker too!



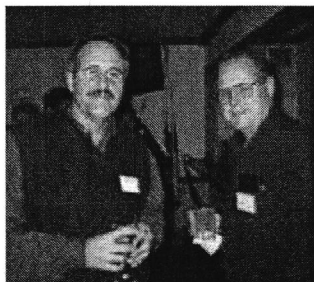
Dan Reiter and
speaker Gail Brager



Joy and Michelle toast
the holidays



Paul and Dave - Ready to
party!



The Prez and Past Prez



Paul gives Larry Nelson
Past President Award



Todd and Jim are ready
for Santa

MINUTES OF DECEMBER 6, 2001 MEETING

Golden Gate/San Jose Joint Chapter Meeting

Location – San Mateo Marriott

- ⌘ The pre-meeting technical seminar was conducted by Mark Hydeman of Taylor Engineering on HVAC Measures Under Consideration for Title 24, 2005
- ⌘ Meeting called to order at 7:40 p.m.
- ⌘ Self Introductions
- ⌘ Sargon Ishaya announced the upcoming SMACNA seminar in San Jose on December 13th. Proceeds will benefit ASHRAE Research.
- ⌘ Minutes from November meeting were approved
- ⌘ David Dacus, Research Promotion Chair, begged for contributions.
- ⌘ Joe Olivier announced that Ross Sherrill had a heart attack, but is doing OK. Our thoughts are with you Ross.
- ⌘ Cory Palmer announced the upcoming Roster. Be sure that your contact information is up to date with Society. Sponsors, get your ads in.
- ⌘ Joe Olivier gave us a preview of future meetings: The January meeting will be a lunch meeting in San Francisco. The February meeting will be in Oakland, and the March meeting will be in San Rafael.
- ⌘ Dan Hornak from the San Jose chapter announced their field trip on May 14th to Stanford Linear Accelerator.
- ⌘ Marble Draw – An extensive array of prizes were awarded. No one won the grand prize so the pot rolls over until next month.
- ⌘ Kent Peterson, Director and Region X Chair was the guest speaker. Kent reviewed President Bill Coad's theme of "Accepting the Challenge". He also discussed his theme of "Value on ASHRAE Membership". Kent proceeded with the main topic – "Effectively Using The Sequence of Operations"
- ⌘ Meeting adjourned 9:15 p.m.

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, on any 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:

Individual Honor Roll Investors (\$100.00 or more)

Ronald Eng *Wasil Popow*
Frank Mayhew

Thanks to everyone who has donated!

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

ASHRAE Research

c/o David Dacus: ddacus@taylor-engineering.com
Taylor Engineering
1305 Marina Village Parkway, Suite 10
Alameda, CA 94501
(510) 749-9135

ASHRAE GOLDEN GATE CHAPTER - LUNCH RESERVATION FAX

For January 10, 2001 at 12 NOON

Email: Robin James (ggashrae@hotmail.com)
FAX: (707) 745-5999

Please cancel your reservation if you cannot attend the meeting.

Cancellations must be received by the Tuesday prior to the meeting.

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 Customer Service Section: 1-800-5-ASHRAE (US and Canada).

*****Sponsors Needed*****

We are in search of Companies willing to sponsor a monthly meeting by donating prizes for the "Marble Game" raffle. The majority of the money raised at each meeting is donated to our scholarship fund. Posters will be made advertising the company name and logo of that month's sponsor.

If you or your company are interested in helping, please contact Nicolina Guiliano @ 650-872-5246 or email nicolina.guiliano@ebward.com.

Employment Opportunities

Employment Opportunity at Viron Energy Services (posted 12/3/01 at www.ggashrae.org)

We are seeking a Project Engineer to work as part of a team to survey HVAC and controls systems in facilities, identify and analyze energy conservation measures, and develop 30%-level engineering for pricing by contractors. Viron's website is located at <http://www.viron.com>. Email resumes to Bill Brockenborough at bbrockenborough@viron.com

Employment Opportunity at Taylor Engineering (posted 11/3/01 at www.ggashrae.org)

Taylor Engineering is looking for HVAC design engineers 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, Master Specifications and commissioning, GAP Headquarters building in San Francisco, GAP San Bruno Phase II, Electronic Arts II in Redwood City and the Title-24 Energy Standard for 2005. Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals and excellent presentation and writing skills.

Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Design/build or field experience is also desirable. 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

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FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 5

FEBRUARY 2002

February Meeting Notice

Date: Thursday, February 7, 2001 at 5:30pm

Place: **Scott's Seafood Restaurant**
Jack London Square
Oakland, CA

Cost: \$35 for GGASHRAE members and guests **w/ advance reservations**
\$42 for non-members and **all w/o reservations.**

Time:
5:00 pm Pre-meeting Topic: Small Tonnage Absorption Chillers by Patrick Hale of "YAZAKI"
5:30 pm Social Hour
6:30pm Dinner
7:30pm Guest Speaker, Danny Nielson P.E. of ACCO

All reservations must be received by **Tuesday January 26th**. Contact Robin James via e-mail (ggashrae@hotmail.com) or fax (707-745-5999). Please provide your name, phone number, total number of reservations and the names of those in your party.

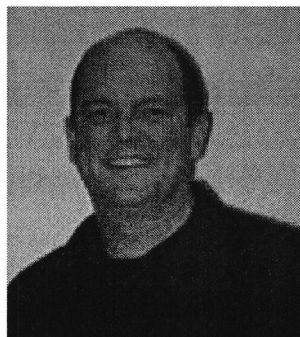
February Program: Speaker: Danny Nielson P.E.

Process Utilities in the Pharmaceutical and High Technology Markets

This presentation will outline the process and plumbing industries that are used in industrial facilities. There are numerous trades that the mechanical contractor must interface with; electrical, structural and fire sprinkler to name a few. Piping and Plumbing installations however, are the most closely related and interdependent systems to HVAC.

Our speaker will focus applications typically used in the Biotech and Semiconductor projects. Systems that will be reviewed will include:

- ?? Purified Water
- ?? High Purity Gasses
- ?? Clean-in-Place (CIP)
- ?? Bulk Chemical Distribution
- ?? Industrial Waste

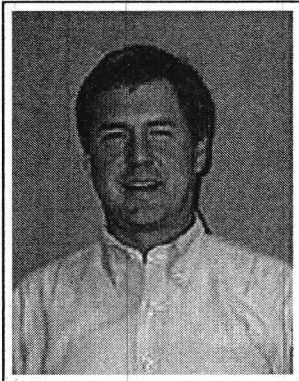


Danny Nielson is the Operations Manager for process piping division

of ACCO. He has been in the construction industry of nearly twenty years in both the semiconductor and pharmaceutical market places. As a graduate from Cal Poly, San Luis Obispo, he has focused his professional career in the high purity industrial marketplace.

Golden Gate Chapter President's Message

January 2002



ATLANTIC CITY ASHRAE 2002!

I was lucky to have been able to go to Atlantic City and attend the ASHRAE convention. For those of you who have never been, it is an experience that will really open up your eyes to just how large and diversified our industry is. For me, it is 4 days and nights of hanging around people who really understand what it is that I do for a living, as compared to my family and friends who still don't seem to get it.

The ASHRAE convention was the largest convention to be held in Atlantic City since the Democratic Convention of 1964! We were featured every night on the local news; I have never seen people get so excited about our industry before! My mother spent summers on the shore in Atlantic City during the 40's and called me during my trip to share her memories of that bygone era. I didn't have the heart to tell her that since the casinos arrived, much of the charm has long disappeared. For me, where the convention is held doesn't really matter since I spend my days on the trade show floor and my nights dining with industry friends from around the country.

Watching the 25,000 or so HVAC professionals prowl the trade show floor with their plastic bags and yardsticks reminds me of Halloween, only with adults instead of children. You see grown men and women comparing the contents of their bags with each other and pointing out which booth has the best coffee mug or "booth babe" (or "booth hunk"). I was the envy of my group when I showed them the stainless steel commuter mug I scored from one of my vendors. Considering how much my company spent with that vendor over the past year, it is probably the most expensive mug I have ever owned!

As part of our scholarship activities, 3 students were given travel grants so they would be able to attend the convention. Rodney Martin, Gwelen Paliaga, and Jane Lin all attended their first ASHRAE convention. They will be briefing us on their adventures in Atlantic City over the next couple of meetings. These students represent the next generation for our industry and I can assure you that we are in good hands!

Our January luncheon meeting at the Carnelian Room was a rousing success! If lunch meetings work better for you, let Edgar DeGuzman know and perhaps next year we will add an additional luncheon meeting.

The February meeting will be held at Scott's Seafood in Jack London Square. Last year we had a really full house so be sure to reserve early so we will have enough food. I am looking forward to hearing about Danny Nielson's "Review of Mechanical Utilities in the Semi-Conductor and Bio-Tech Industries" and finding out how I can apply his ideas to my business. I look forward to seeing you at the meeting!

Respectfully submitted,

Joseph R. Olivier, P.E.
ASHRAE Golden Gate Chapter President

2002 PROGRAMS

GOLDEN GATE CHAPTER OF ASHRAE

DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
Feb 7	Scott's Seafood Oakland	Small Tonnage Absorption Chillers by Patrick Hale of "YAZAKI"	Review of Mechanical Utilities in the Semi-Conductor and Bio- Tech Industries	Danny Nielson P.E. ACCO Inc.
Mar 7	Embassy Suites San Rafael Joint with Redwood Empire Section	Mark Rubin of Capstone Turbine presenting Microturbine Generator Applications	Effective Ventilation Design: Diffusers, Box Minimums, OSA Damper Control	Dan Int-Hout Carrier
Apr 4	PEC San Francisco	Product Show	Scholarship Winners Science Fair Award Winners	Winners
May 2	Genentech Field Trip	None	Genentech, South San Francisco Field Trip	Mark Hannon Genentech
Jun 6	Carnelian Room San Francisco	Technical Presentation on Hydronics System and Control Valves by Robin James of "Belimo"	The Seven Habits of Highly Effective People Spouse's night	Werner Buck Belimo

MINUTES OF JANUARY 10, 2002 CHAPTER MEETING

Location – Carnelian Room, San Francisco

??Meeting called to order at 12:18 p.m.

??Minutes from December meeting were approved.

??Self Introductions

??David Dacus, Research Promotion Chair, announced that the Board members had all contributed at the Honor Roll level achieving the Full Circle award.

??Joe Olivier introduced Emily Golembieski, the chapter's new Database Manager.

??Ben Sun was acknowledged for receiving his Past President's name badge.

??Joe Olivier mentioned that this was the one lunch meeting of the year. If members prefer a lunch meeting they should notify Edgar DeGuzman, Program Chair.

??Ron Schnieder, Trane Company, was the Guest Speaker. His topic was "Taking Advantage of New Technology for Chilled Water Systems". The basis was the application of three tenets for all airside and waterside systems: low flow, low temperature, and high efficiency.

??Marble Draw – Joe Olivier won the pot of \$600+. Joe promised to contribute 50% to Research Promotion.

??Meeting adjourned at 1:30 p.m.

Minutes by Bob Levi

PRE-MEETING

Speaker: Mr. Patrick Hale, Yazaki Energy Systems, Inc.
Topic: Applications of Absorption Chillers Below 100 Tons

Absorption chiller technology and control have come a long way. Double-effect cycles and advanced technology ensure high performance and long-term reliability. Capacities of 30 through 100 RT are available to either cool or heat installations such as schools, offices, hospitals, industrial facilities, and hotels. Case studies will be presented to refute the myth that absorption chillers are prohibitively expensive to install and maintain.

ASHRAE Research Report

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 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)

American Mechanical Services

Guttman & Blaevoet

Individual Honor Roll Investors (\$100.00 or more)

Gail Brager

Gerald Yaffe

Thanks to everyone who has donated!

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

c/o David Dacus

Taylor Engineering

ddacus@taylor-engineering.com

1305 Marina Village Parkway, Suite

101

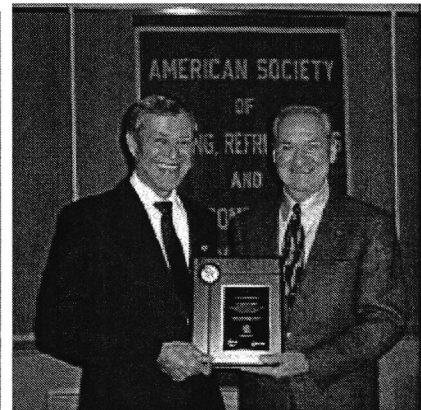
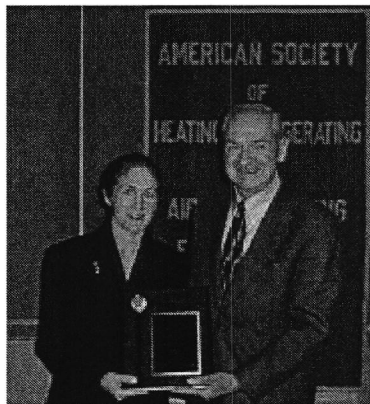
Alameda, CA 94501

(510) 749-9135

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If you or your company are interested in helping, please contact Nicolina Guiliano @ 650-872-5246 or email nicolina.guiliano@ebward.com.



ASHRAE Fellow presentation at ASHRAE for
Gail Brager and C. Mike Scofield

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For February 10, 2001

Email: **Robin James** (ggashrae@hotmail.com)

FAX: **(707) 745-5999**

Please cancel your reservation if you cannot attend the meeting.

Cancellations must be received by the Tuesday prior to the meeting.

FROM: _____

COMPANY: _____ Phone: _____

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

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Please send resume to:

Glenn Friedman
Taylor Engineering
1305 Marina Village Pkwy
Suite 101
Alameda, CA 94501-1028
Fax: 510-749-9136.
E-mail: gfriedman@taylor-engineering.com

PRODUCT SHOW COMMITTEE CHAIR NEEDED FOR APRIL 2002 PRODUCT SHOW

Every April we hold the Golden Gate Chapter ASHRAE Product Show at the PG&E Pacific Energy Center. The Chapter needs a volunteer to organize this year's Product Show, which will be held on April 4. This is a great way to become more involved with the Chapter and the time commitment is minimal (10-12 hours total). The responsibilities of this position include contacting participants and exhibitors from previous years, collecting payment from exhibitors, and organizing the raffle.

Please contact Cory
Palmer via e-mail
(cpalmer@norman-wright.com) or
phone (415-467-7600 ext. 111)
with any questions or to volunteer.



Our degreed engineers will provide application assistance in the design, layout, and selection of products from our resources to meet all your project requirements

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 6

MARCH 2002

March Meeting Notice

Date: Thursday, March 7, 2001 at 5:30pm
Joint Meeting with Redwood Empire

Place: Embassy Suites
101 McInnis Parkway
San Rafael, CA 94903

Cost: \$35 for GGASHRAE members and guests **w/ advance reservations**
\$42 for non-members and **all w/o reservations.**

Time:
5:00 pm Pre-meeting Topic: UV - PCO (Photo Catalytic Oxidation) by our Guest Speaker, Dan Int-Hout
5:30 pm Social Hour
6:30pm Dinner
7:30pm Guest Speaker, Dan Int-Hout, Carrier

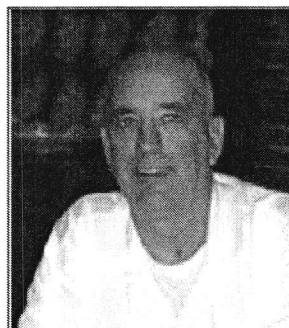
All reservations must be received by **Tuesday February 26th**. Contact Robin James via e-mail (ggashrae@hotmail.com) or fax (707-745-5999). Please provide your name, phone number, total number of reservations and the names of those in your party.

March Program: Speaker: Dan Int-Hout III Carrier Corporation

Selecting VAV for Acceptable IAQ

In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved. Recent court cases make it imperative that designers understand the changing "rules" of the road. Recent Specifications for VAV components are often flawed, and meeting the specification will result in unacceptable spaces, and poor IAQ.

With the release a number of new VAV terminals, we are getting a number of questions

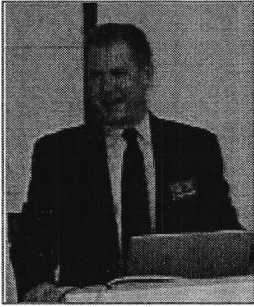


regarding the proper selection and interpretation of VAV terminal specifications. Dan will discuss proper engineering specifications and designs for this broad product range, with updates on the latest

rules and knowledge regarding VAV box type, linings, accessories and air flow limitations. Additionally, the latest Industry understandings of the proper application of Demand Controlled Ventilation will be discussed.

Golden Gate Chapter President's Message

March 2002



Get out the Vote! Be Heard!

Would you believe that our ASHRAE chapter couldn't comment on any legislation that directly affects our profession? It's true! One of the many mantras of ASHRAE is that "a Chapter cannot speak for Society". In other words, the Golden Gate Chapter can't comment on the upcoming changes proposed for California's Title 24 building regulations. While this message is not the forum for discussing changes in our society, it can be a call for action to our membership!

If you or your firm performs Title 24 calculations as part of your deliverables, the proposed changes could directly affect your designs and equipment selections. I urge you to visit the following website set up by the Energy Commission to review the proposed changes:

http://www.energy.ca.gov/2005_standards/notices/index.html

For your information, the chapter does have an active codes committee, headed by Scott Wayland of Glumac, which has done a great job of reviewing various code changes and issuing comments about them. How can they do this? As a member of ASHRAE, you can write letters, go to hearings, and voice your opinion as a member of ASHRAE! You just can't say that it's ASHRAE's opinion that you are voicing. If you are interested in attending the next meeting of the codes committee, call Scott at 415-398-7667.

The February meeting held at Scott's Seafood, in my opinion, rated 2 thumbs up! We had the honor of hosting our 3 Winter Meeting travel grant winners who each related to the members their experiences from attending their first ASHRAE convention. The East Bay location was convenient for Jim Nemechek to attend, and it was great seeing this great former board member who also happened to nominate me to serve you on this board back in 1996! We were also fortunate to have some 5 people attending their first Golden Gate chapter meeting.

This month we travel north to the Embassy Suites in San Rafael for our first meeting with our Redwood Empire Section. I am very excited about this joint meeting, as I have thoroughly enjoyed the Section's meetings that I have attended. The chapter can be very proud to be associated with such an enthusiastic group!

In April we have our Annual Product Show at the Pacific Energy Center. If you haven't reserved your table yet, send Shaun Webster of York Equipment an email at shaun.webster@york.com. I hope to see you in San Rafael!

Respectfully submitted,
Joseph R. Olivier, P.E.
Chapter President

2002 PROGRAMS GOLDEN GATE CHAPTER OF ASHRAE

DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
Mar 7	Embassy Suites San Rafael Joint with Redwood Empire Section	Dan Int-Hout Carrier UV - PCO (Photo Catalytic Oxidation)	Effective Ventilation Design: Diffusers, Box Minimums, OSA Damper Control	Dan Int-Hout Carrier Selecting VAV for Acceptable IAQ
Apr 4	PEC San Francisco	Product Show	Scholarship Winners Science Fair Award Winners	Winners
May 2	Social Night, Location TBA	None	Genentech, South San Francisco Field Trip	Mark Hannon Genentech
Jun 6	Carnelian Room San Francisco	Technical Presentation on Hydronics System and Control Valves by Robin James of "Belimo"	The Seven Habits of Highly Effective People Spouse's night	Werner Buck Belimo

PRE-MEETING

**Presenter: Dan Int-Hout III, Carrier Corporation
(same guy as main presentation)**

Topic: UV - PCO (Photo Catalytic Oxidation)

The use of UVC light to reduce or eliminate biological contaminants has been understood for some time. When UV light is exposed to a surface containing a high concentration of Titanium Dioxide, however, the surface acts as a catalyst to oxidize nearby compounds, into CO₂ and Water, significantly faster than with the light alone. When properly configured, there is an opportunity to create an effective air cleaning system. Such a device is being tested at present, and possibilities will be discussed.

MINUTES OF FEBRUARY 7, 2002 GOLDEN GATE CHAPTER MEETING

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

??Pre-Meeting Technical Seminar by Patrick Hale of Yazaki Absorption Chillers

??Meeting called to order at 6:50 p.m.

??Self Introductions

??Three UCB students, Rodney Martin, Gwelen Paliaga, and Jane Lin reported on their Chapter sponsored trip to Atlantic City for the Winter Meeting and AHR Expo.

??Minutes from January meeting were approved.

??David Dacus, Research Promotion Chair, described how donating to ASHRAE Research can help your love life.

??Cory Palmer made a plea for a volunteer to run the Product Show in April.

??Edgar DeGuzman announced that the Annual Golf Tournament will be held at Sharp Park in Pacifica on Friday, June 21st.

??Carl Jordan announced the upcoming ASME meeting on February 13th.

??Scott Wayland, Code Committee Chair, commented on the 2003 Proposals for UMC

??Marble Draw – No one won the prize

??Danny Nielson of ACCO was the main speaker. His presentation was about Process Utilities in the Pharmaceutical and High Tech Markets.

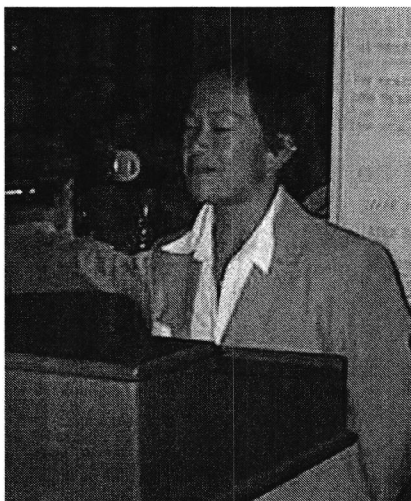
??Meeting adjourned at 9:01 p.m.

Minutes by Bob Levi

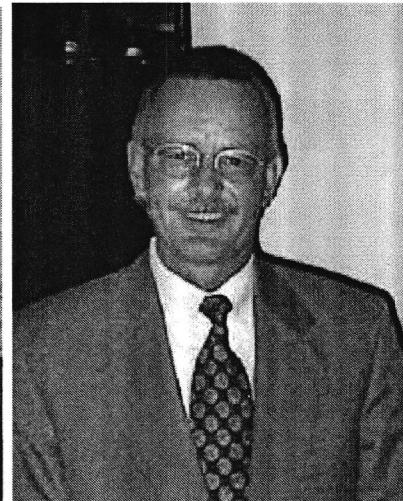
Snapshots of the February Meeting



Cory Palmer and Joe Olivier



Student Reports on the ASHRAE Winter Meeting in Atlantic City (Jane Lin)



Speaker Patrick Hale

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 ASRHAE Research, on any level, this campaign year.

The following corporations and individuals have donated on the honor level in the last month. Due to a computer glitch at ASHRAE Headquarters some investors may be left out. We will recognize the omitted contributors in next month's Fog Dispenser.

Corporate Honor Roll Investors (\$150.00 or more)

R. F. McDonald

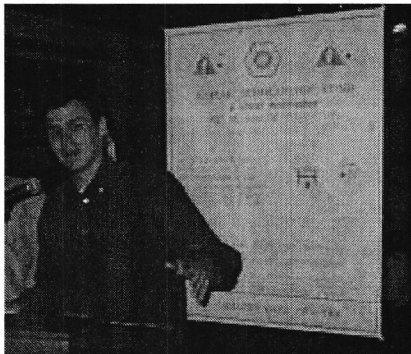
York International

Individual Honor Roll Investors (\$100.00 or more)

Lynn Longley

Mike Scofield

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



ASHRAE Research
c/o David Dacus
Taylor Engineering
1305 Marina Village Parkway, Suite 101
Alameda, CA 94501
(510) 749-9135 phone
ddacus@taylor-engineering.com

2002 Golden Gate Chapter Tennis Tournament

The Chapter tennis tournament is being revived by popular demand! This year's tournament will be held at the San Francisco Tennis Club on Friday, May 17, 2002, from 9:00 a.m. to 12:00 noon. Registration is first come, first serve, until the tournament bracket is full. Listen for announcements at the monthly meetings and please contact Jason Daters with any questions.

Jason Daters
Tennis Committee Chair
510-723-7728
tennis@ggashrae.org

*****Sponsors Needed*****

We are in search of Companies willing to sponsor a monthly meeting by donating prizes for the "Marble Game" raffle. The majority of the money raised at each meeting is donated to our scholarship fund. Posters will be made advertising the company name and logo of that month's sponsor. If you or your company are interested in helping, please contact Nicolina Guiliano @ 650-872-5246 or email nicolina.guiliano@ebward.com.

Last meeting donors are:

Dave Attard of "Cal Hydronics" for donating (2) \$100 Dinner Certificates
The "Scott Company" with a donation of a Swiss Army Utility Knife
Thanks for your generous gifts!

Register **NOW** for the 2002 ASHRAE Product Show!

The annual Product Show will be held on Thursday, April 4 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 2002 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 4, 2001 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. Student Night / After Dinner Program for ASHRAE

Letters and applications will be sent to all 2001 Product Show exhibitors by March 1. 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.

Potential exhibitors should contact the 2002 Product Show Chair, Shaun Webster, with any questions. Phone: 925-417-7223, Fax: 425-426-1188, shaun.webster@york.com

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For March 7, 2002

Email: Robin James (ggashrae@hotmail.com)
FAX: (707) 745-5999

Please cancel your reservation if you cannot attend the meeting.

Cancellations must be received by the Tuesday prior to the meeting.

FROM: _____

COMPANY: _____ Phone: _____

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

Change of Address?

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Employment Opportunities

Taylor Engineering is looking for HVAC design engineers 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, Master Specifications and commissioning, GAP Headquarters building in San Francisco, GAP San Bruno Phase II, Electronic Arts II in Redwood City and the Title-24 Energy Standard for 2005.

Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals and excellent presentation and writing skills.

Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Design/build or field experience is also desirable. Excellent work environment in Alameda. High salaries for top performers.

Please send resume to:

Glenn Friedman

Taylor Engineering
1305 Marina Village Pkwy
Suite 101

Alameda, CA 94501-1028

Fax: 510-749-9136.

E-mail: gfriedman@taylor-engineering.com

OUTSTANDING OPPORTUNITIES IN SACRAMENTO!

- ?? Growing metropolitan area
- ?? Healthy outdoor lifestyles
- ?? Affordable housing/cost of living
- ?? Close to urban and resort centers (San Francisco Bay Area, Lake Tahoe, Napa Valley)

If you have the desire to excel and advance your career with a dynamic, leading-edge mechanical engineering firm, then come grow with us!

Capital Engineering Consultants, Inc., a 65 person consulting firm, is seeking top quality **HVAC Engineers** and **Project Managers** to work on challenging and innovative projects, including healthcare, laboratory, education, government, and sustainable design projects. CECI offers excellent compensation, benefits, flexible hours, and a great work environment.

Please send resume to:

**Capital Engineering
Consultants, Inc.**

Tom Duval
7300 Folsom Blvd.
Sacramento, CA 95826

Fax: 916.386.2610

E-mail: tduval@capital-engineering.com

Employment Opportunity at Acutherm

Application Engineer responsible for customer technical support including assisting with design of systems using VAV diffusers and troubleshooting.

Require engineer with P.E. in process or in place and with 1 to 5 years experience in either a design build contracting firm or consulting firm.

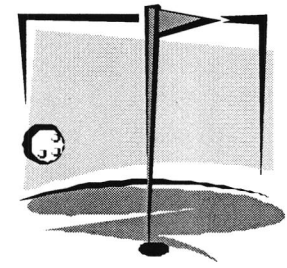
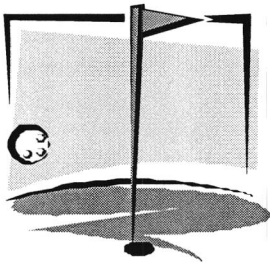
Acutherm website is

<http://www.acutherm.com>

Send resumes to Jim Kline

Fax 510-785-2517

Email jimkline@acutherm.com



ASHRAE Golden Gate Chapter 2002 Golf Tournament

Friday, June 21, 2002 ? 12:00pm Shotgun Start

Sharp Park Golf Course

Registration starts at 9:30 a.m.

Awards Dinner ? Scramble Tournament

? Two "Longest Drive" Contests ? Two "Closest to the Pin" Contests
\$5,000 Putting Green Contest ? Two shots at a \$10,000 Hole in One ? Prize Raffle

Pricing:

(all packages include dinner and golf goodies):

Gold Sponsor.....	\$1,800
<i>(4 foursomes, 2 tee sponsorships)</i>	
Silver Sponsor.....	\$1,400
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$ 950
<i>(2 foursomes)</i>	
Basic Team.....	\$ 500
<i>(1 foursome)</i>	
Single Player.....	\$ 130

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

All proceeds benefit ASHRAE Research

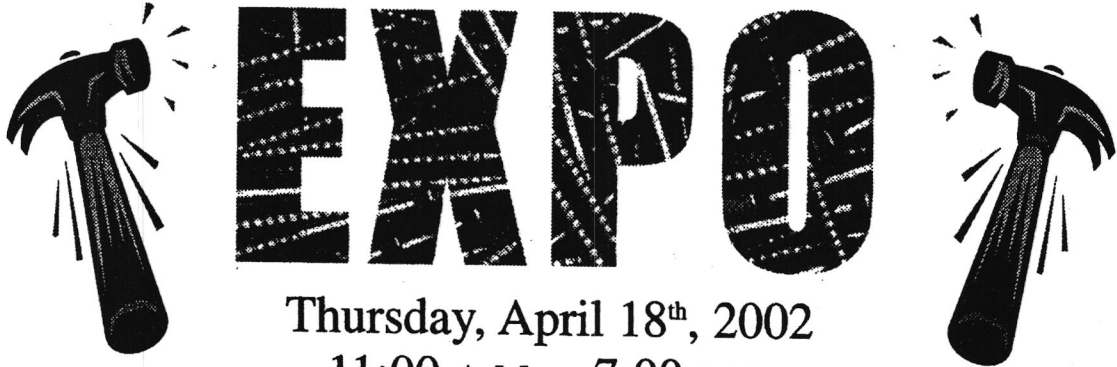
NOTE: THIS COURSE IS LIMITED TO 168 PLAYERS ONLY.

LAST YEAR WE HAVE 180 PLAYERS

MAKE YOUR RESERVATION EARLY SO YOU WON'T BE DISAPPOINTED

For more information, or to sign up your team, please contact Kirk Peterson at 650.872.5207 or via e-mail: golf@ggashrae.org

We invite you to be a "Friends of Construction" sponsor of our
"Careers in Construction"



Thursday, April 18th, 2002

11:00 A.M. – 7:00 P.M.

Veterans Memorial Building, Santa Rosa

Get ready for the biggest construction job fair ever held in the North Bay! Leading building industry associations and dozens of suppliers are joining the North Coast Builders Exchange to help tackle our biggest ongoing problem – not enough good, qualified workers.

The show will include booths where Expo attendees can learn about exciting career opportunities in construction...live demonstrations of framing, plumbing, electrical work, roofing, tiling, painting...displays of heavy equipment...and more!

To help make it happen, we'd like you to become a "Friends of Construction" Sponsor, at a cost of \$250.

You'll be listed in the extensive publicity (radio, newspaper ads, and a special 12-page section that will run in a Sunday edition of the Press Democrat), as well as being identified in all signage and printed material at the event.

Just fill out the form below and return it with your check no later than Friday, March 1st. You'll be helping all of these sponsors listed below make the Expo a reality:



- North Coast Builders Exchange
- American Society of Heating/Refrigeration/Air Conditioning Engineers
- Associated General Contractors
- Civil Engineers & Land Surveyors of California
- Engineering Contractors Association
- Home Builders Association
- Redwood Empire American Subcontractors Association
- Redwood Empire Independent Electrical Contractors

Yes, We'd Like To Be A "Friends Of Construction" Expo Sponsor!

Company Name _____

Key Contact _____ Title _____

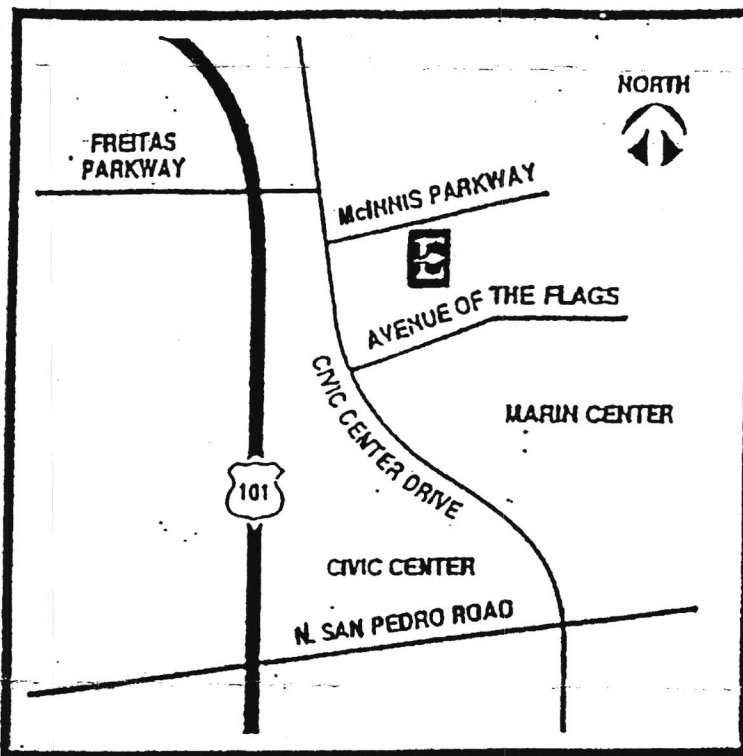
Address _____ Phone _____ Fax _____

Make \$250 sponsorship check payable to: "Careers in Construction Expo", P.O. Box 6025, Santa Rosa, CA 95406

EMBASSY SUITES®

EMBASSY SUITES SAN RAFAEL

101 McInnis Parkway
San Rafael, CA 94903
Tel (415) 499-9222
(415) 472-4746



Directions:

From U.S. 101 North, exit East on North San Pedro Road. Turn left on Civic Center Drive. Turn right on McInnis Parkway.

From U.S. 101 South, exit at Freitas Parkway, turn left over freeway. Left at intersection, then right on Civic Center Drive.

Turn left on McInnis Parkway.



Taylor Engineering and its employees proudly support ASHRAE Research

Steven T. Taylor, P.E., Principal
Glenn Friedman, P.E., Principal
Mark Hydeman, P.E., Principal
Allan Daly, P.E., Principal
Jeff Stein, P.E., Engineer
Vali Sorell, P.E., Engineer
Marc Fountain, PhD, Engineer
David Dacus, P.E., Engineer
Todd Lay, Technical Assistant

Taylor Engineering applauds the efforts of ASHRAE and its members to provide the information and tools our industry needs to design healthier, more energy efficient, more comfortable buildings.

Taylor Engineering is a nationally recognized engineering firm specializing in HVAC systems design, energy conservation, indoor air quality, controls, and commissioning.

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 7

APRIL 2002

April Meeting Notice

Date: Thursday, April 4, 2001 at 5:30pm

Place: Pacific Energy Center
851 Howard Street
San Francisco, CA 94103

Cost: \$35 for GGASHRAE members and guests **w/ advance reservations**
\$42 for non-members and **all w/o reservations.**

Time:
5:00 – 6:30 pm Table Top Displays
Social Hour/Hors d'oeuvres
(Bar opens at 5:00)
6:30 pm Dinner
7:30 – 8:30 pm Scholarship Winners
Presentations
Science Fair Award Winners

All reservations must be received by **Tuesday March 26th**. Contact Robin James via e-mail (ggashrae@hotmail.com) or fax (707-745-5999). Please provide your name, phone number, total number of reservations and the names of those in your party.

April Program: Scholarship Winners Science Fair Award Winners

GGASHRAE, headed by the Student Activities Chair, Michael Richardson judged the Bay Area Science Fair on April 4, 2002 and awarded several awards that will be presented at the next meeting. The winners of the Mechanical Engineering Achievement Award are:

Eryn C. Lucas

Hayward High School – Hayward, Ninth Grade
“What Color Absorbs the Most Light (Heat) the Quickest, What Color Losses Heat the Quickest”

Patrick Londen

French American International School – San Francisco, Eighth Grade
“Going With the Flow”

Catherine Janes

West Marin – Point Reyes, Eighth Grade
“Water Pipe Insulation”

Brad Splady

Wood Middle School, Seventh Grade
“Do Different Metals Lose Heat at Different Rates?”

Chris Lynch

Redwood High School – Larkspur, Eleventh Grade
“Down with Drag: Part Deux – Further Investigation into the Mechanism of Decreased Hydrodynamic Drag in Swimsuit Design”

Brian Damert

Redwood High School – Larkspur, Tenth Grade
“The Effects of Sound Insulating Material on an Amplified Guitar Note”

Golden Gate Chapter President's Message

April 2002

April is Product Show and Student Month!

Your ASHRAE board and our capable crew of member volunteers are busy assembling quite a meeting for April! Our Annual Product Show, chaired by Shaun Webster of York, will take place upstairs at the Pacific Energy Center on Thursday, April 4th before we sit down for our monthly chapter meeting. Come early to the meeting and you'll have a chance to talk to the exhibitors and find out the latest in what's happening in our industry. As a further enticement, there will be refreshments and door prizes as well! Space is limited for exhibitors so if you are interested in having a table top display give Shaun a call at 925-417-7223 today!

You won't want to miss any of the April meetings. In conjunction with the Product Show, it's also Student night! The chapter will be recognizing the winners of our scholarship essay contest with cash grants. These grants are funded from the chapter's Don Bryant scholarship fund as well as the Erik Thor Andresen Memorial scholarship fund. Every year I am constantly amazed at the caliber of writing submitted by the students.

But wait, there's more! We will also be recognizing winners of the Golden Gate Chapter's awards for the Bay Area Science Fair. Continuing a long Golden Gate tradition, each year representatives of the chapter view the entries at the Bay Area Science Fair. These projects represent the top entries from high schools around the Bay Area. The Golden Gate chapter selects the top projects that have a connection to our industry and awards these students with a \$100.00 U.S. savings bond. We also invite the student and a chaperone to join us at the April meeting and have the student tell us about their project. It's a great chance for us to see future engineers and give them encouragement to pursue our profession.

Coming in May:

After an absence of many years, the chapter will be hosting a tennis tournament on May 17th! The tennis tournament has traditionally been a fundraiser for the Erik Thor Andresen Memorial Scholarship Fund. Erik was a promising young engineer who died in a tragic accident in 1990. His parents, Fleming and Svava Andresen, set up a scholarship fund in his memory with the chapter in 1991 for the purpose of giving grants to young engineers that are studying the HVAC industry. The Andresens have generously agreed to match the proceeds from the tournament that will go to the fund.

If you are interested in playing in the tennis tournament, let chair Jason Daters know by sending him an email at <mailto:tennis@ggashrae.org>.

Respectfully Submitted,
Joseph R. Olivier
Chapter President

2002 PROGRAMS GOLDEN GATE CHAPTER OF ASHRAE

DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
Apr 4	PEC San Francisco	Product Show	Scholarship Winners Science Fair Award Winners	Winners
May 3 Friday	Carnelian Board Room 555 California St. San Francisco	No Host Bar/ Bring Your Spouse / Girl / Boy Friends Or Both	"SOCIAL NIGHT " Dinner/Dance, Golden Oldies/ Rock & Roll/ Swing/ Cha-Cha, and much more.	DJ
Jun 6	Carnelian Room 555 California St. San Francisco	Technical Presentation on Hydronics System and Control Valves by Robin James of "Belimo"	The Seven Habits of Highly Effective People Spouse's night	Werner Buck – Belimo

MINUTES OF MARCH 7, 2002 MEETING

GOLDEN GATE CHAPTER JOINT MEETING WITH THE REDWOOD EMPIRE SECTION

Location – Embassy Suites, San Rafael

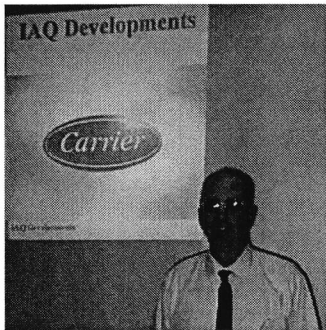
- Pre-Meeting Technical Seminar by Dan Int-Hout of Carrier about UV-PCO (Photo-Catalytic Oxidation). Using Titanium Dioxide as a catalyst along with Ultra Violet Lights for improved indoor air quality
- First joint meeting of the Golden Gate Chapter and Redwood Empire Section called to order at 6:40 p.m. by Paul Irwin, Redwood Empire President
- Self Introductions
- Past Chapter Presidents in attendance were recognized
- David Dacus, Research Promotion Chair, pleaded for contributions to ASHRAE Research.
- Shawn Webster, Product Show Chair, announced the April 4th event.
- Cory Palmer announced the Tennis Tournament on May 17th; Jason Daters is Chair.
- Kirk Peterson, Golf Tournament Chair, announced that the Annual Golf Tournament at Sharp Park in Pacifica on Friday, June 21st.
- Bob Voelz received a standing ovation for his 50 year ASHRAE member award. Dick Charles paid a tribute to Bob by commenting that Bob was always willing to help and offer advice.
- Paul Irwin, Redwood Empire President announced the Redwood Empire Golf Tournament on October 18th. Paul also announced next year's officers for the Redwood Empire Section. Paul noted that two \$1,000 scholarships are available.
- Mike Scofield was honored by Paul Irwin for his service to the Redwood Empire Section
- Dan Int-Hout, Carrier Corporation was the main speaker. His presentation was about Selecting VAV terminals for acceptable Indoor Air Quality. Dan offered a software package – a link is posted on the Golden Gate Chapter website to download this (www.ggashrae.org Select Meetings, Scroll to March 7, Click on presentation to download a 3 meg zip file.
- Marble Draw – No one won the prize
- Meeting adjourned at 9:03 p.m.

Minutes by Bob Levi

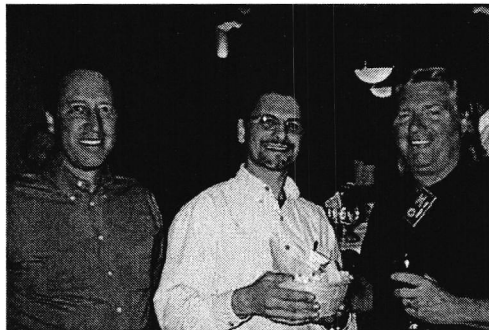
MOTIONS

Cory Palmer made a motion that the Golden Gate Chapter contribute \$2000 to ASHRAE Research Promotion. Approved Unanimously.

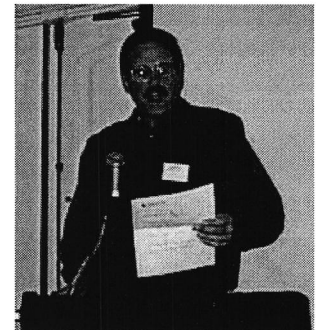
Snapshots from the March Joint Meeting with Redwood Empire



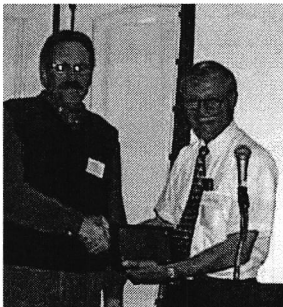
Dan Int-Hout our March Meeting Speaker



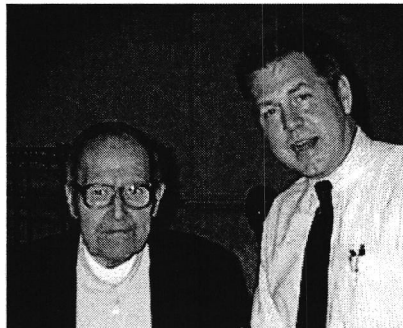
Sonoma Counties Finest



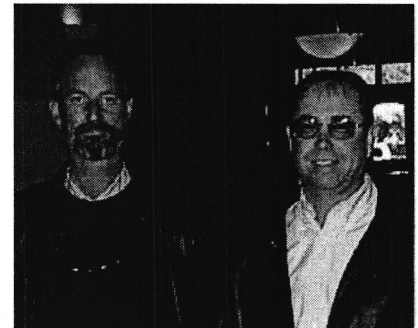
Paul Irwin introduces the Redwood Empire Candidates



Mike Scofield receives Redwood Empire Award presented by Paul Irwin



Bob Voelz receives the 50 Year ASHRAE Award



John Cross and Mike Lefler

ASHRAE Research Report

We are in the home stretch of the ASHRAE Research Year. Have you donated yet? It's not too late to make a donation and make a significant impact on the HVAC industry through research.

The following individuals have donated on the honor level in the last month. If you have donated and not been recognized please let us know. Thanks to everyone who has donated!

Individual Honor Roll Investors (\$100.00 or more)

Steve Taylor

Randy Gale

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

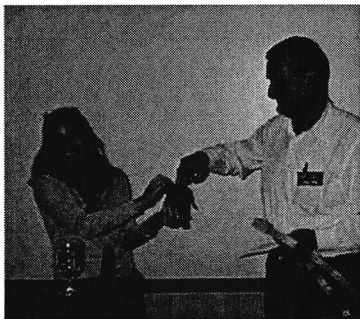


ASHRAE Research
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Tennis Committee Chair
510-723-7728
tennis@ggashrae.org



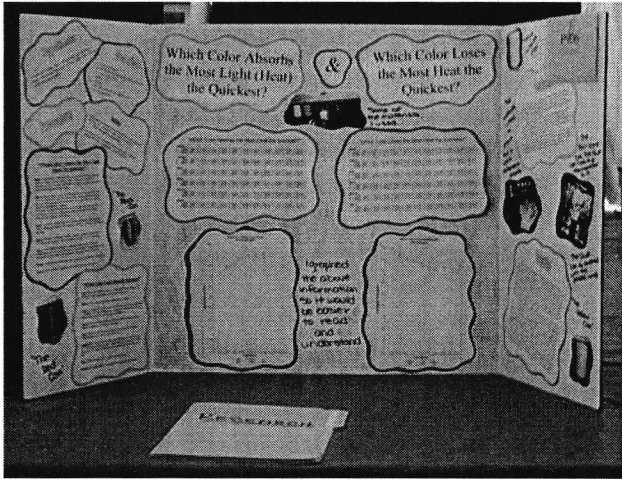
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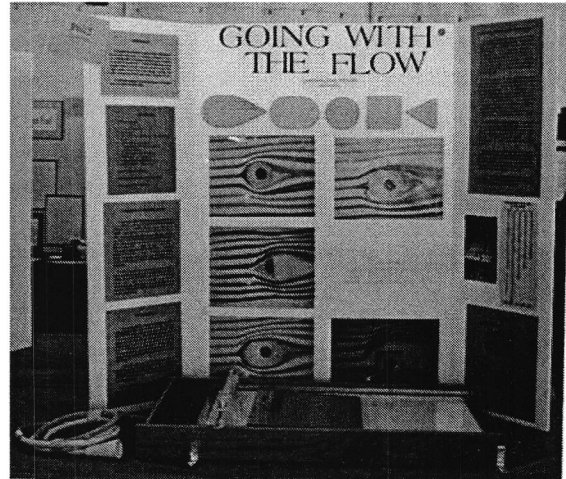
At the March Meeting Wasil loses at marbles.

CONGRATULATIONS TO THE BAY AREA SCIENCE FAIR WINNERS!

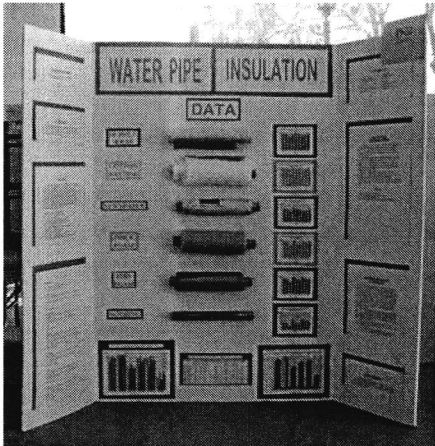
Here are the displays presented at the Bay Area Science Fair on April 4, 2002 that were winners of the



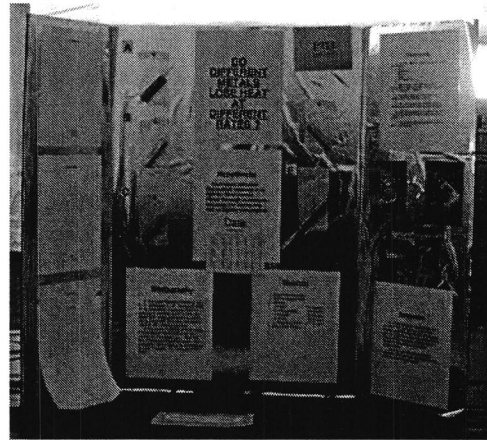
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Hayward High School – Hayward, Ninth Grade
 “What Color Absorbs the Most Light (Heat) the Quickest, What Color Losses Heat the Quickest”



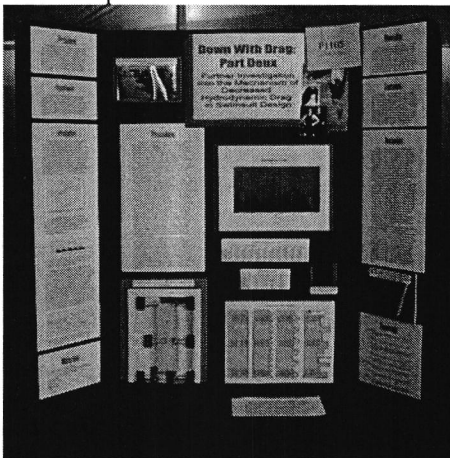
Patrick Londen
French American International School – San Francisco, Eighth Grade
 “Going With the Flow”



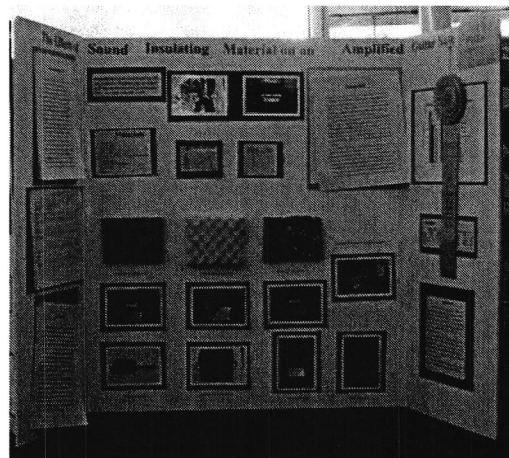
Catherine Janes
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 “Water Pipe Insulation”



Brad Splady
Wood Middle School, Seventh Grade
 “Do Different Metals Lose Heat at Different Rates?”



Chris Lynch
Redwood High School – Larkspur, Eleventh Grade
 “Down with Drag: Part Deux – Further Investigation into the Mechanism of Decreased Hydrodynamic Drag in Swimsuit Design”



Brian Damert
Redwood High School – Larkspur, Tenth Grade
 “The Effects of Sound Insulating Material on an Amplified Guitar Note”

CAMPBELL, Thomas Carlton -- passed away peacefully at Washington Hospital Center in Washington, DC on March 8, 2002. Beloved husband of Dolores I. Campbell for 51 years. Loving father of Thomas George Campbell (Robin), Judith L. Campbell (Richard Jackson), and Virginia C. Zalman. Cherished grandfather of Charles T. Zalman and Rachelle Miller.

A Memorial Service will be held on Thursday, March 14th at 1:30 p.m. at St. Francis Cabrini Church, 1533 Woodard Rd., San Jose. Private Interment at Holy Cross Cemetery, Colma. The family prefers donations to the American Cancer Society, 1715 South Bascom Ave., Suite 100, Campbell, CA 95008-0607. LIMA FAMILY SANTA CLARA MORTUARY serving the family.

Our past chapter president, Tom Campbell, passed away recently. Here is his obituary as reported by the San Jose Mercury News.

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For April 4, 2002

Email: Robin James (ggashrae@hotmail.com)
FAX: (707) 745-5999

Please cancel your reservation if you cannot attend the meeting.

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FROM: _____

COMPANY: _____ Phone: _____

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

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Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals and excellent presentation and writing skills.

Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Design/build or field experience is also desirable. Excellent work environment in Alameda. High salaries for top performers.

Please send resume to:

Glenn Friedman
Taylor Engineering
1305 Marina Village Pkwy
Suite 101
Alameda, CA 94501-1028
Fax: 510-749-9136.
E-mail: gfriedman@taylor-engineering.com

OUTSTANDING OPPORTUNITIES IN SACRAMENTO!

- Growing metropolitan area
- Healthy outdoor lifestyles
- Affordable housing/cost of living
- Close to urban and resort centers (San Francisco Bay Area, Lake Tahoe, Napa Valley)

If you have the desire to excel and advance your career with a dynamic, leading-edge mechanical engineering firm, then come grow with us!

Capital Engineering Consultants, Inc., a 65 person consulting firm, is seeking top quality **HVAC Engineers** and **Project Managers** to work on challenging and innovative projects, including healthcare, laboratory, education, government, and sustainable design projects. CECI offers excellent compensation, benefits, flexible hours, and a great work environment.

Please send resume to:

Capital Engineering Consultants, Inc.
Tom Duval
7300 Folsom Blvd.
Sacramento, CA 95826
Fax: 916.386.2610
E-mail: tduval@capital-engineering.com

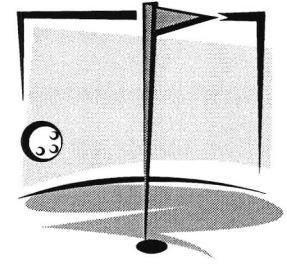
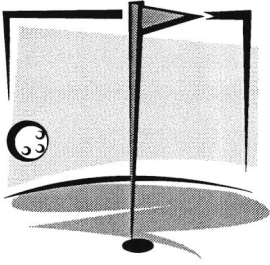
Employment Opportunity at Acutherm

Application Engineer responsible for customer technical support including assisting with design of systems using VAV diffusers and troubleshooting.

Require engineer with P.E. in process or in place and with 1 to 5 years experience in either a design build contracting firm or consulting firm.

Acutherm website is
<http://www.acutherm.com>

Send resumes to Jim Kline
Fax 510-785-2517
Email jimkline@acutherm.com



ASHRAE Golden Gate Chapter 2002 Golf Tournament

Friday, June 21, 2002 • 12:00pm Shotgun Start

Sharp Park Golf Course

Registration starts at 9:30 a.m.

Awards Dinner • Scramble Tournament

- Two "Longest Drive" Contests • Two "Closest to the Pin" Contests
- \$5,000 Putting Green Contest • Two shots at a \$10,000 Hole in One • Prize Raffle

Pricing:

(all packages include dinner and golf goodies):

Gold Sponsor.....	\$1,800
<i>(4 foursomes, 2 tee sponsorships)</i>	
Silver Sponsor.....	\$1,400
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$ 950
<i>(2 foursomes)</i>	
Basic Team.....	\$ 500
<i>(1 foursome)</i>	
Single Player.....	\$ 130

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

All proceeds benefit ASHRAE Research

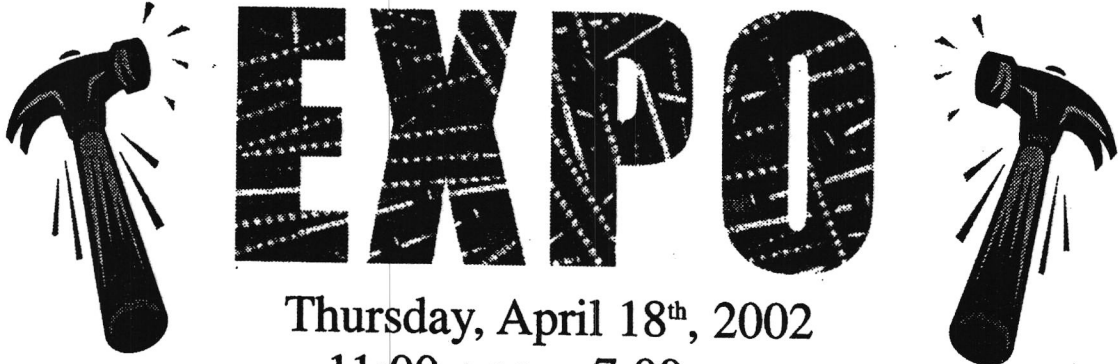
NOTE: THIS COURSE IS LIMITED TO 168 PLAYERS ONLY.

LAST YEAR WE HAVE 180 PLAYERS

MAKE YOUR RESERVATION EARLY SO YOU WON'T BE DISAPPOINTED

For more information, or to sign up your team, please contact Kirk Peterson at 650.872.5207 or via e-mail: golf@ggashrae.org

We invite you to be a "Friends of Construction" sponsor of our
"Careers in Construction"



Thursday, April 18th, 2002
11:00 A.M. – 7:00 P.M.

Veterans Memorial Building, Santa Rosa

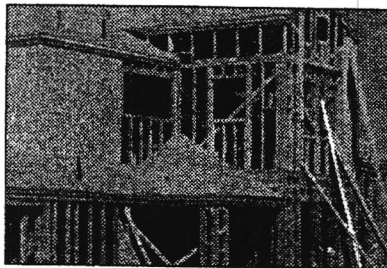
Get ready for the biggest construction job fair ever held in the North Bay! Leading building industry associations and dozens of suppliers are joining the North Coast Builders Exchange to help tackle our biggest ongoing problem – not enough good, qualified workers.

The show will include booths where Expo attendees can learn about exciting career opportunities in construction...live demonstrations of framing, plumbing, electrical work, roofing, tiling, painting...displays of heavy equipment...and more!

To help make it happen, we'd like you to become a "Friends of Construction" Sponsor, at a cost of \$250.

You'll be listed in the extensive publicity (radio, newspaper ads, and a special 12-page section that will run in a Sunday edition of the Press Democrat), as well as being identified in all signage and printed material at the event.

Just fill out the form below and return it with your check no later than Friday, March 1st. You'll be helping all of these sponsors listed below make the Expo a reality:

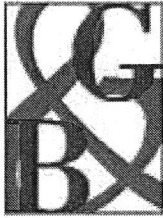


- North Coast Builders Exchange
- American Society of Heating/Refrigeration/Air Conditioning Engineers
- Associated General Contractors
- Civil Engineers & Land Surveyors of California
- Engineering Contractors Association
- Home Builders Association
- Redwood Empire American Subcontractors Association
- Redwood Empire Independent Electrical Contractors

Yes, We'd Like To Be A "Friends Of Construction" Expo Sponsor!

Company Name _____
Key Contact _____ Title _____
Address _____ Phone _____ Fax _____

Make \$250 sponsorship check payable to: "Careers in Construction Expo", P.O. Box 6025, Santa Rosa, CA 95406



GUTTMANN & BLAEVOET
CONSULTING ENGINEERS

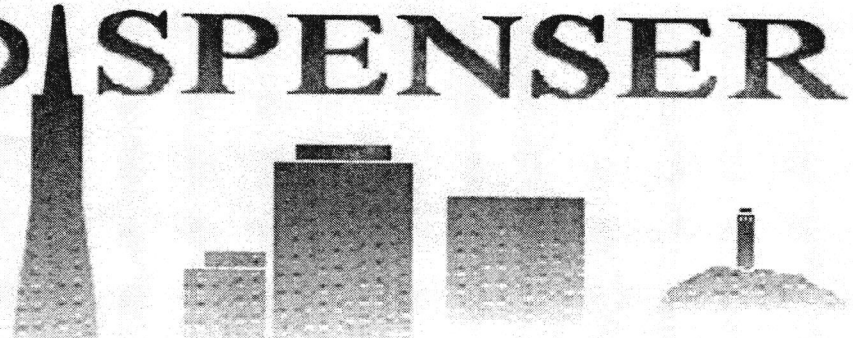
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HVAC, Plumbing, and Fire Protection Systems Design for
Health Care, Commercial, University, Museum and Library Facilities

Proud supporter of ASHRAE Research!

2351 Powell Street, San Francisco, CA 94133
P 415.625.0730 F 415.625.0735 W www.gb-eng.com

FOG DISPENSER



Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 8

MAY 2002

May Meeting Notice Social Night – Dinner/Dance DJ Music, No host bar

Date: Friday, May 3 2002
6:30pm

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

Cost: \$50 per person. Voucher holders don't have to pay extra but need to pay full price for their partners.

All reservations must be received by **Wednesday May 1st** by **12:00 noon**. Contact Robin James via e-mail (ggashrae@hotmail.com) or fax (510-498-1161).

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX *For Friday May 3, 2002*

Email: Robin James (ggashrae@hotmail.com)
FAX: (510) 498-1161

Please cancel your reservation if you cannot attend the meeting.

Cancellations must be received by the Tuesday prior to the meeting.

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 Customer Service Section: 1-800-5-ASHRAE (US and Canada).

Golden Gate Chapter President's Message

April 2002

For those of you who missed the April meeting, you missed out on a fantastic Product Show produced by Shaun Webster. Kudos to Shaun for his hard work in making the Product Show a success! Also, at the April meeting we had several of the award winners from the Bay Area Science Fair present their projects for the chapter. We really enjoyed having the winners and their chaperones at the meeting.

May is another busy month for the chapter. Our May meeting will be a social dinner dance at the Carnelian Room. The social will be held on Friday, May 3rd and will feature a sumptuous dinner and dancing above the fog at the top of the Bank of America building. Bring your spouse or significant other and treat them to a very special evening!

The chapter will also be sending Edgar DeGuzman and Bob Levi as Delegate and Alternate to the Chapter's Regional Conference in Las Vegas May 9-11th. The CRC, as it is called, is where the business of ASHRAE takes place. At the CRC, nominations for Society honors are taken for consideration. If you know of anyone deserving of such and honor, please email me at JR_Olivier@msn.com and tell me about them.

Be sure to mark your calendars for the June meeting on June 6th. We will be featuring Werner Buck from Belimo who will present the Seven Habits made famous by Stephen Covey. Werner is an excellent speaker and I know you will enjoy his presentation.

Respectfully Submitted,
Joseph R. Olivier, P.E.
Chapter President

2002 PROGRAMS GOLDEN GATE CHAPTER OF ASHRAE

DATE	LOCATION	PRE-MEETING	MAIN PROGRAM	SPEAKER
May 3 Friday	Carnelian Board Room 555 California St. San Francisco	No Host Bar/ Bring Your Spouse / Girl / Boy Friends	"SOCIAL NIGHT " Dinner/Dance, Golden Oldies/ Rock & Roll/ Swing/ Cha-Cha, and much more.	DJ
Jun 6	Carnelian Room 555 California St. San Francisco	Tec Hydronics System and Control Valves by Robin James of "Belimo"hnical Presentation on	The Seven Habits of Highly Effective People	Werner Buck – Belimo

Sponsors Needed

We are in search of Companies willing to sponsor a monthly meeting by donating prizes for the "Marble Game" raffle. The majority of the money raised at each meeting is donated to our scholarship fund. Posters will be made advertising the company name and logo of that month's sponsor. If you or your company are interested in helping, please contact Nicolina Guiliano @ 650-872-5246 or email nicolina.guiliano@ebward.com.



Check-in at the Pacific Energy Center



Bob Levi welcomes one of the student winners.



President-elect Edgar Deguzman and friends.

MINUTES OF APRIL 4, 2002 MEETING

GOLDEN GATE CHAPTER MEETING

Location – PG&E Pacific Energy Center, San Francisco

- Product Show prior to the Meeting
- Called to order at 7:10 p.m. by Joe Olivier, President
- Self Introductions
- David Dacus, Research Promotion Chair, mentioned that the Golden Gate Chapter has contributed \$2,000 to ASHRAE Research.
- Bob Levi, Secretary announced the Nominating Committee for the new Board of Governors. The members are Barbara Dilts, Dick Charles, Mark Hydeman, Steve Blanc, and Carl Jordan. They will meet during the week of April 8th to choose the nominees
- Bob Levi also announced the ASHRAE sponsored Solar Conference in Reno on June 15-20.
- Jason Daters announced the Tennis Tournament on May 17th in San Francisco.
- Kirk Peterson, Golf Tournament Chair, announced that the Annual Golf Tournament at Sharp Park in Pacifica is on Friday, June 21st.
- Edgar DeGuzman announced the Social Event that will take place as the May meeting on Friday night May 3rd at the Carnelian Room.
- Mike Richardson, Student Affairs Chair presented the Bay Area Science Fair Award winners with a Certificate and a Savings Bond.
- Ryan Stroup from the Energy Center presented PG&E's Science Fair Award winners.
- Shaun Webster, Product Show Chair conducted the raffle
- Marble Draw – No one won the prize
- Meeting adjourned at 8:15 p.m.

ASHRAE Research Report

I want to thank everyone who has donated to ASHRAE Research this year. So far we have raised \$12,606. 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!

Our own chapter is also taking part in supporting research. The board has decided to donate \$2,000 to ASHRAE Research out of the general fund. Thanks to all the board members for making this happen.

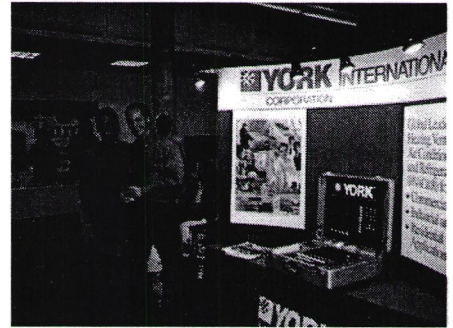
The following individuals have donated on the honor level in the last month. If you have donated and not been recognized please let me know.

Individual Honor Roll Investors (\$100.00 or more)

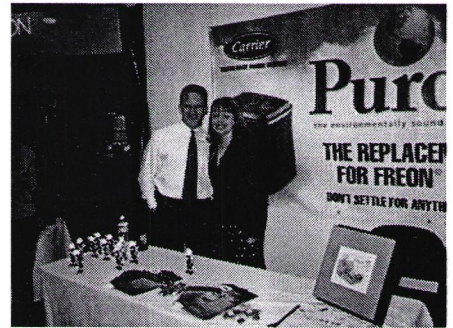
Jim Nemechek

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

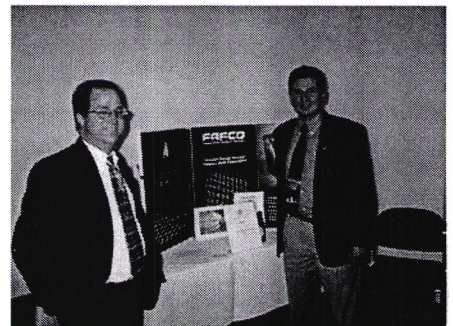
ASHRAE Research c/o David Dacus
Taylor Engineering
1305 Marina Village Parkway, Suite 101, Alameda, CA 94501
(510) 749-9135 ddacus@taylor-engineering.com



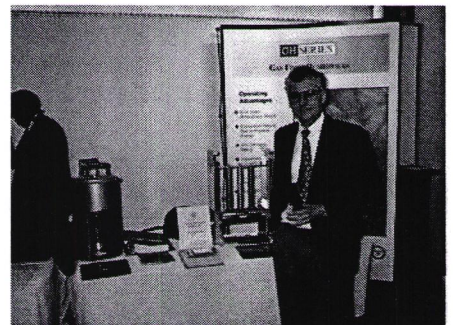
York International



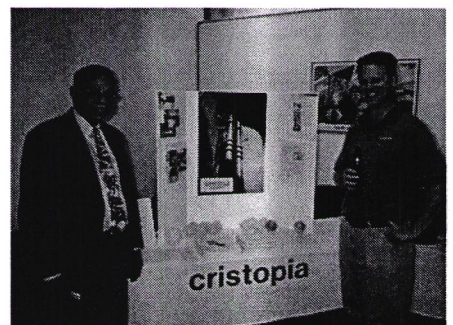
Carrier



Tembo



Nortec



Cristobia

OFFICIAL BALLOT FOR THE 2002/2003 GOLDEN GATE CHAPTER BOARD OF GOVERNORS

Please fax or email to: Robert Levi
c/o Syserco
Fax: 510.498.1161
Email: blevi@syserco.com

BALLOTS MUST BE RECEIVED BY WEDNESDAY, MAY 1, 2002

POSITION	OFFICIAL CANDIDATE	VOTE	WRITE-IN CANDIDATE
Past President	Joe Olivier	<input type="checkbox"/>	
President-Elect	Robert Levi	<input type="checkbox"/>	
Secretary	Jon Wintermeyer	<input type="checkbox"/>	
Treasurer	Cory Palmer	<input type="checkbox"/>	
Second-Year Board Member	Glenn Friedman	<input type="checkbox"/>	
First Year Board Member	Mike Richardson	<input type="checkbox"/>	

NOTE: In accordance with our bylaws, Edgar DeGuzman 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 Robert Levi, Secretary.
4. This ballot is also available on the Chapter website (www.ggashrae.org) under Announcements

Employment Opportunities

Taylor Engineering is looking for HVAC design engineers 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, Master Specifications and commissioning, GAP Headquarters building in San Francisco, GAP San Bruno Phase II, Electronic Arts II in Redwood City and the Title-24 Energy Standard for 2005.

Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals and excellent presentation and writing skills.

Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Design/build or field experience is also desirable. Excellent work environment in Alameda. High salaries for top performers.

Please send resume to:

Glenn Friedman
Taylor Engineering
1305 Marina Village Pkwy
Suite 101
Alameda, CA 94501-1028
Fax: 510-749-9136.
E-mail: gfriedman@taylor-engineering.com

OUTSTANDING OPPORTUNITIES IN SACRAMENTO!

- Growing metropolitan area
- Healthy outdoor lifestyles
- Affordable housing/cost of living
- Close to urban and resort centers (San Francisco Bay Area, Lake Tahoe, Napa Valley)

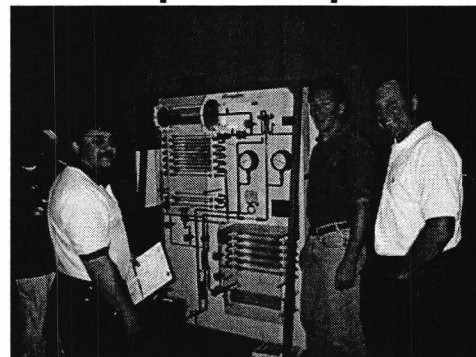
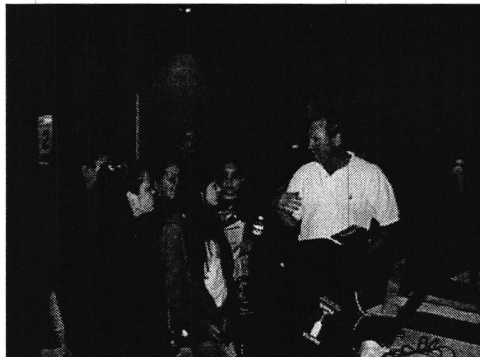
If you have the desire to excel and advance your career with a dynamic, leading-edge mechanical engineering firm, then come grow with us!

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Please send resume to:

Capital Engineering Consultants, Inc.
Tom Duval
7300 Folsom Blvd.
Sacramento, CA 95826
Fax: 916.386.2610
E-mail: tduval@capital-engineering.com

News from the Redwood Empire Chapter



On April 18 Redwood Empire members helped staff a booth at the Careers in Construction Expo at the Veterans Memorial Auditorium in Santa Rosa. Over 300 high school students from Sonoma, Mendocino and Lake Counties attended. (Left: Charlie Shepard talks to students about HVAC, Right: The See-Through Refrigeration Unit.)

**ASHRAE GOLDEN GATE CHAPTER
2002 MEMORIAL TENNIS TOURNAMENT**

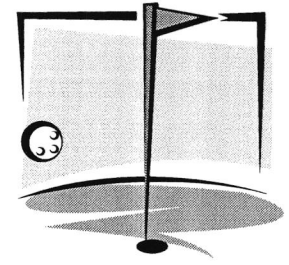
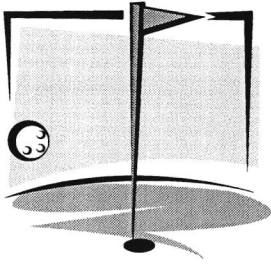


- WHERE:** San Francisco Tennis Club
645 Fifth Street @ Brannan
(415) 777-9000
Indoor Courts w/ limited garage parking available
- WHEN:** Friday, May 17th [9am - noon]
- WHY:** Proceeds benefit the Eric Andresen Engineering Scholarship Fund
Plus the chance to: have fun, exercise, network, & take a break 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
2525 Barrington Court
Hayward, CA 94545
Checks payable to: Golden Gate Chapter ASHRAE
- DEADLINE:** Entries must be received by May 10th, early sign-up is appreciated
- QUESTIONS:** Contact the Tournament Coordinator – Jason Daters
Phone: 510-723-7728 / Email: tennis@ggashrae.org

Tournament Entry Form

NAME:	_____	PLAYER LEVEL:	_____
COMPANY:	_____		___ ADVANCED
PHONE:	_____		___ INTERMEDIATE
EMAIL:	_____		___ RECREATIONAL

[Please enclose check for entry fee]



ASHRAE Golden Gate Chapter 2002 Golf Tournament

Friday, June 21, 2002 • 12:00pm Shotgun Start

Sharp Park Golf Course

Registration starts at 9:30 a.m.

Awards Dinner • Scramble Tournament

- Two "Longest Drive" Contests • Two "Closest to the Pin" Contests
- \$5,000 Putting Green Contest • Two shots at a \$10,000 Hole in One • Prize Raffle

Pricing:

(all packages include dinner and golf goodies):

Gold Sponsor.....	\$1,800
<i>(4 foursomes, 2 tee sponsorships)</i>	
Silver Sponsor.....	\$1,400
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$ 950
<i>(2 foursomes)</i>	
Basic Team.....	\$ 500
<i>(1 foursome)</i>	
Single Player.....	\$ 130

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

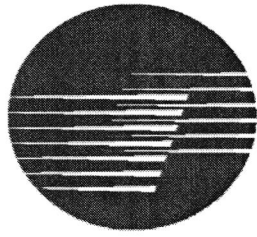
All proceeds benefit ASHRAE Research

NOTE: THIS COURSE IS LIMITED TO 168 PLAYERS ONLY.

LAST YEAR WE HAVE 180 PLAYERS

MAKE YOUR RESERVATION EARLY SO YOU WON'T BE DISAPPOINTED

For more information, or to sign up your team, please contact Kirk Peterson at 650.872.5207 or via e-mail: golf@ggashrae.org



TRANE[®]

Oakland Engineering Sales Group

The Trane Company proudly supports ASHRAE Research

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XL - NUMBER 9

JUNE 2002

June Meeting Notice

Date: Thursday, June 6, 2001 at 5:30pm

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

Cost: \$35 for GGASHRAE members and guests **w/ advance reservations**
\$42 for non-members and **all w/o reservations.**

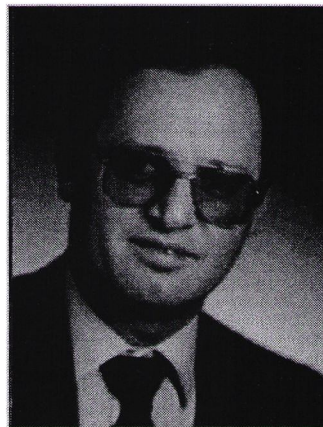
Time:
5:00 pm Pre-meeting Topic: Changes in UL Standards for Fire & Smoke Actuation by Mr. Larry Felker of Belimo Aircontrols (USA), Inc.
5:30 pm Social Hour
6:30pm Dinner
7:30pm Guest Speaker: Werner A. Buck, President of Belimo Aircontrols (USA), Inc.

All reservations must be received by **Tuesday May 28th**. Contact Robin James via e-mail (ggashrae@hotmail.com) or fax (510) 498-1161. Please provide your name, phone number, total number of reservations and the names of those in your party.

June Program:
Speaker: Werner A. Buck
Belimo Aircontrols (USA), Inc.

The Seven Habits of Highly Effective People

Werner Buck, President of Belimo Aircontrols(USA), Inc. and a member of the Executive Board of Belimo Automation in Switzerland, has over 30 years background in the HVAC industry. Werner moved from his earliest work in our industry with Staefa Controls and Landis & Gyr as a draftsman, technician and design engineer into the founding in 1988 of Belimo in the Americas on behalf of the Swiss parent company, Belimo Automation. Werner has led the American Belimo Aircontrols since its founding to the present day.



Werner is still an engineer at heart and though his main attention must be directed to operations of a company now on the Zurich stock exchange, the core of his interest still lies in HVAC products to which he devotes considerable time and attention, both in Switzerland and in Danbury, CT, the home of Belimo in the Americas. (...continued on page 3)

Golden Gate Chapter President's Message

June 2002

What A Year It's Been!

I can hardly believe that my year as Chapter President is coming to a close. It seems that only yesterday I was writing my first Presidential Message. The only word I can find that describes the last year is COMPREHENSIVE!

My sincere appreciation goes out to the Chapter's magnificent Board. Edgar, Bob, Jon, Ben, Robin, and Cory all contributed to making this year a great one for the Chapter. I am particularly proud of the monthly meetings for their excellent programs and varying locations. I think that the quality of the presentations and the locations contributed greatly to our increased attendance at the meetings.

The month of May was another busy one for our chapter. We had great attendance at the Chapter's Regional Conference held in Las Vegas, NV. Special thanks go to Edgar DeGuzman, Bob Levi, Jon Wintermeyer, Glenn Friedman, Mark Hydeman, Chris Papadimos, Scott Wayland, and Tom Reinharts for taking time out of their busy schedules to help conduct the business of ASHRAE and learn how to better run the chapter. May also marked the return of the Erik Thor Andresen Memorial Tennis Tournament, which was held on May 17th. Kudos to Jason Daters for organizing and also participating in the tournament that was thoroughly enjoyed by the participants.

On Thursday, June 6th we will be holding our last monthly meeting of the year at the Carnelian Room atop the Bank of America building. I know you think I am looking forward to this meeting because it is the last time I am conducting the meeting, but there's more to it than that. I am really excited that Werner Buck of Belimo will be giving his presentation on the 7 Habits of Successful People. I think Werner is one of the finest businessmen you will ever have the chance to meet! He has been the driving force behind Belimo's ascent in becoming one of the most respected companies in our industry. He is a captivating speaker and the 7 Habits topic is one that you and your (chose one: wife, husband, partner, significant other, boyfriend, girlfriend, posse member, or woodcutting buddy) will find fascinating.

The June meeting is traditionally Spouse Night and that's why we're bringing Werner in for this topic that will appeal to you and yours. I hope you chose to share this special evening with that special person and bring them to the meeting.

I'll see you at the meeting!

Respectfully Submitted,

Joseph R. Olivier, P.E.
Chapter President

The Results of the 2002-2003 Golden Gate Chapter Board Elections are:

President	Edgar DeGuzman
President-Elect	Robert Levi
Secretary	Jon Wintermeyer
Treasurer	Cory Palmer
Second-Year Board Member	Glenn Friedman
First-Year Board Member	
Past President	Joe Olivier

2002-2003 PROGRAMS GOLDEN GATE CHAPTER OF ASHRAE

The Golden Gate Chapter Board is currently working on the Programs for the 2002-2003 meetings. We have prepared a ballot sheet for the members to choose topics that will be of interest to them. Please visit the Chapter web site (www.ggashrae.org) and see the Announcements section for the electronic ballot sheet that can be completed and emailed. Or feel free to send your suggestions for topics directly to the Chapter's Program Chair, Bob Levi at blevi@syserco.com or fax to 510.498.1161.

JUNE PRE-MEETING

**Speaker: Mr. Larry Felker, Belimo Aircontrols (USA), Inc.
Topic: Changes in UL Standards for Fire & Smoke Actuation**

Fire & Smoke actuation technology has been severely tested in recent years. UL requirements are changing July 1, 2002 with some strong impacts. Different manufacturers have had difficulty in maintaining quality with these changes. This pre-meeting seminar will discuss the codes and solutions to the quality issues that have recently plagued fire & smoke actuation. Mr. Larry Felker will also discuss recent developments in the industry.

**JUNE PROGRAM Speaker: Werner A. Buck, Belimo Aircontrols (USA), Inc.
"The Seven Habits of Highly Effective People"**

(...continued from Front Page – Werner A. Buck)

However, Werner has another love which he is able to exercise in his role as a company president. This is his deep interest in the development of personal relationships, a personal interest he has been able to combine with his love of teaching in bringing the now famous '7 Habits of Highly Effective People' to a living doctrine within his company.

Early on, even before "The 7 Habits" book became a #1 international bestseller, Werner took the courses at the Covey Leadership Center in UT to become a facilitator which allows him to train his employees at off site seminars on the introduction and later expansion of the ideas of the "7 Habits". Werner Buck will be speaking about the "7 Habits of Highly Effective People" written by Stephen Covey. Werner has been trained as a facilitator to enable him to implement the 7 Habits in his company, Belimo Aircontrols(USA), Inc. He will share with us some of the philosophies of the 7 Habits and how you might implement them into your professional and personal lives. The Seven Habits are not a set of separate or psyche-up formulas. In harmony with the natural laws of growth, they provide a sequential approach to move us progressively on a Maturity Continuum from dependence to independence to interdependence.

Werner truly believes that at a time when American organizations need to energize people and produce leaders at all levels, the 7 Habits provide an empowering philosophy for life and are also the best guarantee for success in business.

The "7 Habits of Highly Effective People" are defined as:

1. Be Proactive
2. Begin with the End in Mind
3. Put First Things First
4. Think Win-Win
5. Seek First to Understand, Then to Be Understood
6. Synergize
7. Sharpen the Saw

ASHRAE Research Report

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 30th. The following individuals have donated on the honor level in the last month. If you have donated and not been recognized please let me know.

Individual Honor Roll Investors (\$100.00 or more)

Joe Critchfield	Max Sherman
Robert DeChene	Robert Voelz
Peter Johnson	Arthur Zigas
Lane Loyko	

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

ASHRAE Research
c/o David Dacus
Taylor Engineering
1305 Marina Village Parkway, Suite 101
Alameda, CA 94501
(510) 749-9135 phone
ddacus@taylor-engineering.com

******Sponsors Needed******

We are in search of Companies willing to sponsor a monthly meeting by donating prizes for the “Marble Game” raffle. The majority of the money raised at each meeting is donated to our scholarship fund. Posters will be made advertising the company name and logo of that month’s sponsor. If you or your company are interested in helping, please contact Nicolina Guiliano @ (510) 873-4000 x7581 or email nicolina.j.guiliano@jci.com

A CALL FOR SPONSORS TO SUPPORT THE STUDENT CHAPTER ANEMOMETER COMPETITION

The ASHRAE Student Chapter at UC Berkeley is seeking donations to sponsor student competition to design a low cost anemometer for field studies of occupant comfort. Building science researchers often want to measure PMV parameters at many locations in a building for extended periods of time, however low-cost commercially available temperature and humidity sensors are not easily available.

The ASHRAE Student Chapter is proposing to sponsor a university wide competition among engineering and architecture students to design simple and cheap anemometers that can be used in building case studies. We would like to thank Taylor Engineering for sponsoring \$100 toward the award and hope that other members of the Golden Gate ASHRAE Chapter might also help us out. We look forward to your input, comments, and donations at the next GGASHRAE Meeting. For more information please contact Jane Lin: janelin@uclink.berkeley.edu

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For June 6, 2002

Email: Robin James (ggashrae@hotmail.com)

FAX: (510) 498-1161

Please cancel your reservation if you cannot attend the meeting.

Cancellations must be received by the Tuesday prior to the meeting.

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 Customer Service Section: 1-800-5-ASHRAE (US and Canada).

Employment Opportunities

OUTSTANDING OPPORTUNITIES IN SACRAMENTO!

- Growing metropolitan area
- Healthy outdoor lifestyles
- Affordable housing/cost of living
- Close to urban and resort centers (San Francisco Bay Area, Lake Tahoe, Napa Valley)

If you have the desire to excel and advance your career with a dynamic, leading-edge mechanical engineering firm, then come grow with us!

Capital Engineering Consultants, Inc., a 65 person consulting firm, is seeking top quality **HVAC Engineers** and **Project Managers** to work on challenging and innovative projects, including healthcare, laboratory, education, government, and sustainable design projects. CECI offers excellent compensation, benefits, flexible hours, and a great work environment.

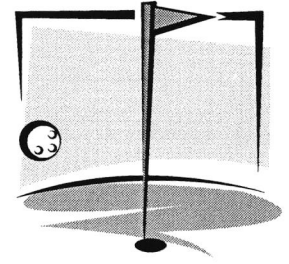
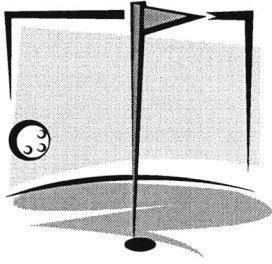
Please send resume to:

**Capital Engineering
Consultants, Inc.**

Tom Duval
7300 Folsom Blvd.
Sacramento, CA 95826

Fax: 916.386.2610

E-mail: tduval@capital-engineering.com



ASHRAE Golden Gate Chapter 2002 Golf Tournament

Friday, June 21, 2002 • 12:00pm Shotgun Start

Sharp Park Golf Course

Registration starts at 9:30 a.m.

Awards Dinner • Scramble Tournament

- Two "Longest Drive" Contests • Two "Closest to the Pin" Contests
- \$5,000 Putting Green Contest • Two shots at a \$10,000 Hole in One • Prize Raffle

Pricing:

(all packages include dinner and golf goodies):

Gold Sponsor.....	\$1,800
<i>(4 foursomes, 2 tee sponsorships)</i>	
Silver Sponsor.....	\$1,400
<i>(3 foursomes, 1 tee sponsorship)</i>	
Bronze Sponsor.....	\$ 950
<i>(2 foursomes)</i>	
Basic Team.....	\$ 500
<i>(1 foursome)</i>	
Single Player.....	\$ 130

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

All proceeds benefit ASHRAE Research

NOTE: THIS COURSE IS LIMITED TO 168 PLAYERS ONLY.

LAST YEAR WE HAVE 180 PLAYERS

MAKE YOUR RESERVATION EARLY SO YOU WON'T BE DISAPPOINTED

For more information, or to sign up your team, please contact Kirk Peterson at 650.872.5207 or via e-mail: golf@ggashrae.org

Syserco Supports ASHRAE Research

{ Howard Knutson, Jack Day, Phil Herve', Bob Levi, Robin James }

Syserco Inc.

44244 Fremont Blvd., Fremont, CA 94538 (510) 498-1171 www.syserco.com

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 1

OCTOBER 2002

October Meeting Notice

Date: Thursday, October 3, 2002

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

Cost: \$35 for GGASHRAE members and guests
if reserved prior to noon October 1st
\$42 for non-members, or if reserved after
October 1st, or walk-in
Students no charge, but please reserve anyway
Voucher 9 meetings for the cost of 8
\$280 total
Transferable within your company.

Time:
5:00 pm **Pre-meeting Technical Seminar**
Sponsored by California Hydronics.
Joe Schaefer, Western Regional Director for
Griswold Controls, will give a presentation on
the Automizer coil kit. He will discuss how the
control valve design with proper application
saves time and money in field installation and
saves up-front material cost.

5:30 pm Social Hour and Registration

6:30 pm Dinner

7:30 pm Program – Mike Gabel, Gabel Associates

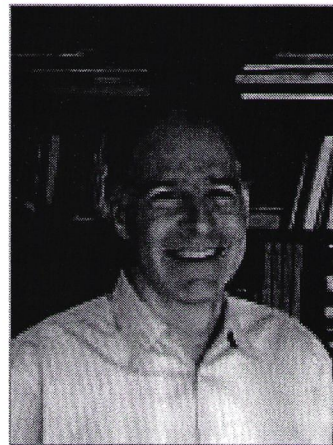
Please reserve on-line by visiting www.ggashrae.org and clicking on "Meetings" on the sidebar, then click on Oct. 3, fill out the form and send. Or send an email with names, company and phone number to reservations@ggashrae.org
Or use the fax form in the Fog Dispenser.

October Program:

Speaker: Mike Gabel

**"Gas vs. Electric Heating in the Current Title
24 Performance Standards"**

In the process of designing mechanical systems that use electric resistance space heating, there is often confusion about whether any of these



systems can meet current Title 24 energy requirements. Mike Gabel will address this issue by briefly reviewing how and why the current nonresidential performance standards deal with source energy; and explain the specific

conditions under which electric resistance heating may comply with the state's energy code. Mike will conclude by explaining how the 2005 standards are expected to eliminate current loopholes that allow electric resistance space heating.

Golden Gate Chapter President's Message

October 2002

As a young poor boy growing up in the Philippines, never had I thought that I would be where I am today. While growing up I helped my dad build houses; thus construction has always been a part of my life. I went to Holy Angels University in my hometown of Angeles City where I obtained a degree in Civil Engineering. In 1976, I came to this country with my wife, with \$500.00 in my pocket, and no knowledge of what was to come.

My journey with ASHRAE began with an invitation to join from my friend Tom Judson. At the time I was working at Lars Fagerstrom Consulting and I had started to learn about HVAC. After attending meetings and learning more about HVAC my interest in ASHRAE grew. I decided to get involved, because I felt that the more active I became the more I would benefit from ASHRAE. So I volunteered to help with the Marble Game (Scholarship Fund raising raffles) and the rest was history.

While continuing on my journey I have seen all the hard work that many people have put in to make this organization succeed. Because of everyone's participation and dedication, ASHRAE's Golden Gate Chapter is in great shape financially, and there is no doubt in my mind that if more people were to participate, ASHRAE will reach new heights. As President, I have a few goals that I would like to attain, but I cannot do it alone. My goals for this year are:

1. Increase the attendance at the meetings. This can be achieved by encouraging in-active members to come to the great programs put together by President-Elect Bob Levi. Our chapter is one of the largest chapters, yet only 10% of our members show up to our meetings regularly!
2. Invite building engineers, architects, and building officials to our meetings, because they too are a part of our industry.
3. Increase membership through re-enlisting inactive members.

I would like to say thank you for allowing me to be your Chapter President. It is both a pleasure and an honor, and I promise to do my best to fulfill my duties. I know that this year will be a success, because I have the support of dedicated board members such as: Joe Oliver, our Past President, who has done an excellent job; Bob Levi, President-Elect, who has put together great programs, Jon Wintermeyer, Secretary, who just handed the balanced books over to Cory Palmer, Treasurer, and Glenn Friedman, our new board member, who is currently active at the Society level. These are five brilliant men who have spent countless hours collaborating ideas to make this organization run smoothly.

I would also like to thank the returning Committee Chairpersons and Vice/Co-Chairpersons of different Committees who enthusiastically do their part. To our Webmaster, Roberto Marcial, and *Fog Dispenser* editor, Jane Lin, keep up the great work. To all new Committee Chairs and Vice/Co-Chairs, thanks for accepting the challenging work; and last but definitely not least, to all the Golden Gate Chapter Members, thank you. If it were not for all of you, ASHRAE would not be the great organization that it is today.

Respectfully submitted,

Edgar De Guzman
Chapter President

PROGRAMS

October Pre-Meeting Technical Seminar – Griswold Automizer

Joe Schaefer, Western Regional Director for Griswold Controls, will give a presentation on the Automizer coil kit. He will discuss how the control valve design with proper application saves time and money in field installation and saves up-front material cost.

Sponsored by California Hydronics

October Program Speaker: Mike Gabel

“Gas vs. Electric Heating in the Current Title 24 Performance Standards”

Mike Gabel is Principal and Owner of Gabel Associates, LLC, an energy-consulting firm in Berkeley, California specializing in building energy analysis, life-cycle cost studies of energy conservation measures and energy code compliance for architects, mechanical engineers and lighting designers. He has taught dozens of seminars on the state’s Nonresidential Title 24 Building Energy Efficiency Standards for PG&E and CABEC (California Association of Building Energy Consultants) since 1987, including the current 2001 standards. Mike was the original developer of COMPLY 24, the MS-DOS predecessor to the energy compliance EnergyPro software; and he was co-author of the state’s 1993 *Nonresidential ACM Manual*, which defined the rules embedded in the nonresidential energy compliance programs. Mike is an ASHRAE member and past Chair of the CABEC.

2002 – 2003 GOLDEN GATE ASHRAE PROGRAMS

DATE	LOCATION	PROGRAM	SPEAKER
Nov. 7	Pacific Energy Center	Fire/Smoke Control	Sanjay Aggarwal Rolf Jensen & Associates
Dec. 5	San Mateo Marriott (Joint with San Jose)	The ASHRAE Member’s Legal Survival Guide	Maralynne Flehner, Esq. Distinguished Lecturer
Jan. 9 LUNCH	Carnelian Room	Primary only vs. Primary/Secondary Chilled Water Supply	Steve Taylor Taylor Engineering
Feb. 6	East Bay	Joint meeting with Bay Area U.S. Green Building Council Panel Discussion on Underfloor Air Distribution	Engineer, Owner Architect, CBE member
Mar. 6	Embassy Suites, San Rafael (Joint with Redwood Empire)	DDC Design Practical Examples and Rule of Thumb Checks	Frank Shadpour Distinguished Lecturer
Apr. 3	Pacific Energy Center	Science Fair and Scholarship Winners	Students
May 1	Field Trip	TBA	
June 5	Carnelian Room	Spouse Night	TBA

MEMBERSHIP

The October Golden Gate ASHRAE chapter meeting will be dedicated to Membership Promotion. As the chair for this committee, I would like to encourage all members to show their support for ASHRAE, and more importantly our local chapter, by attending the dinner meeting and bringing along one or more guests. Introduce your guest(s) to the many benefits of ASHRAE and the range of activities that we have planned for the year. Consider asking a colleague, client, student, or other type of design professional (architects and other types of engineers are most welcome). If you cannot attend the meeting, why not ask someone to attend on your behalf.

As an incentive, the Golden Gate Chapter offers a complimentary round of drinks to you and your guest(s). The only rule is that your guest has not attended prior meetings on any regular basis. Should you be able to convince your guest to join ASHRAE and the chapter, then your reward will be a dinner voucher good for any monthly meeting, after membership is complete.

During my attendance at the CRC in May, Membership chairs from other chapters stated that the overwhelming reason for joining ASHRAE is for the interaction with colleagues at the local chapter level and the sense of camaraderie that goes along with it. So we would like to welcome you to the new season and invite you to consider becoming active in the local chapter. Our first meeting will give you a preview of the activities planned for the year.

We look forward to seeing you at the October dinner meeting.

Cordially,

Chris Papadimos
Membership Promotion Chair
cpapadimos@sf.smwinc.com

MINUTES OF JUNE 6, 2002 MEETING

Location – Carnelian Room, San Francisco

- Called to order at 6:30 p.m. by President Joe Olivier
- Self Introductions – Spouses and companions in attendance were recognized
- David Dacus, Research Promotion Chair, asked for contributions to ASHRAE Research as the campaign year draws to a close
- Jon Malkovich (standing in for Edgar DeGuzman and Kirk Peterson) advertised the upcoming Golf Tournament
- Ben Sun spoke about the successful Tennis Tournament on May 17th
- Jane Lin, UCB Student Chapter President and Newsletter Editor, told the group about the planned activities for the student chapter
- Joe Olivier gave a brief report on the recent CRC in Las Vegas. The Golden Gate Chapter won the Man-Mile award for the Region.
- Dick Charles was honored for his service as Nominating Committee Member
- Karl Guttman paid tribute to Tom Simonsen (President 1959-60) who passed away recently
- Bob Levi presented Life Member certificates to Victor Bach and Raj Jandu
- Marble Draw – No one won the prize, so the pot rolls over to the October Meeting
- Bob Levi encouraged everyone to return the 2002-03 Programs Ballot that is available on the website
- Bob Levi (standing in for Edgar DeGuzman) presented Joe Olivier with his President's certificate and diamond President's pin
- Werner Buck, President of Belimo Aircontrols, was the main speaker. He spoke about the "Seven Habits of Highly Effective People"
- Meeting adjourned at 9:00 p.m.

Minutes by Bob Levi

**ANNUAL REPORT
2001-2002 ASHRAE RESEARCH
GOLDEN GATE CHAPTER**

Congratulations and thank you to the individuals and firms who helped the Golden Gate Chapter collect \$20,809 in the 2001-2002 ASHRAE Research campaign year.

The Golden Gate Chapter would like to say a special thank you to Bay Area SMACNA for donating \$5,000. In addition to their Golden Gate Chapter donation they contributed \$5,000 to the San Jose Chapter for a total donation of \$10,000.

GOLDEN CIRCLE INVESTOR (\$10,000)

BAY AREA SMACNA

INVESTORS OF MORE THAN \$1,000

Flack + Kurtz, Inc.
Golden Gate Chapter, ASHRAE

INVESTORS OF \$501 to \$1,000

Gayner Engineers
Guttman & Blaevoet
Tom Gilbertson

INVESTORS OF \$251 to \$500

R. F. MacDonald Company
York International

Joseph H. Schauf Company
Frank Mayhew

INVESTORS OF \$151 to \$250

American Mechanical Services
Edward Arens
Joe Critchfield
Robert DeChene
Edward B. Ward & Company
Ronald Eng
Gayner Engineers
Horn Engineers

Bob Levi
McAfee Engineering
Norman Wright Mech. Equip. Corp.
Ben Sun
Syserco, Inc.
Taylor Engineering
Arthur Zigas

INVESTORS OF \$101 to \$150

David Dacus
DMG North Incorporated
Robin James
Kent M. Lim & Company
Jon Malkovich
Marelich Mechanical Company

Hendrik Mouw
Joe Olivier
Jack Palmer
Max Sherman
Jon Wintermeyer
Gerald Yaffe

INVESTORS OF \$100

Kyle Blocker
Gail Brager
Dick Charles
Leo Copper
Davco Associates
Edgar DeGuzman
Kevin Dowling
Donald Fisher
Glenn Friedman
Randy Gale
Roy Gifford

Mark Hydeman
Peter Johnson
Carl Jordan
Lane Loyko
Jim Nemecheck
John O'Brien
Cory Palmer
Wasil Papow
James Quinn
Dart Rinefort

Shlomo Rosenfeld
Mike Scofield
Ross Sherrill
Robert Sonderegger
Steve Taylor
Dennis Thompson
Tommy Siu & Associates
Robert Voelz
John Ward
Richard Yates

INVESTORS OF \$50 to \$99

Fred Bauman
John Gajan
Peter Hartdegen
David Jump

Lynn Longley
James Lutz
Isaak Mandelbaum
Fernando Palacios

INVESTORS OF \$10 to \$49

Stanley Boghosian
Robert Davis
Lloyd Iversen

David Lintott
Richard Taipale
Kenneth Tong

**To donate to the 2002-2003 ASHRAE Research campaign please contact:
Jon Malkovich, E.B.Ward, (925) 688-1369**

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For October 3, 2002

Please reserve on-line by visiting www.ggashrae.org and clicking on "Meetings" on the sidebar , then click on Oct. 3, fill out the form and send.

Or send an email with names, company and phone number to reservations@ggashrae.org

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

Please cancel your reservation if you cannot attend. Cancellations must be received by October 1st.

FROM: _____

COMPANY: _____ Phone: _____

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

ANNUAL MEAL VOUCHER

The Golden Gate Chapter is again offering discount meal vouchers. Purchase a Meeting Voucher and all of your meetings for the year are paid for. Meeting vouchers cost \$280.00 for all nine meetings. That's a savings of \$35 off the regular meeting price – buy eight and get nine!

These vouchers are transferable within your company. If you cannot make a meeting, then someone else from your office can attend.

Purchase these vouchers at the October or November meeting.

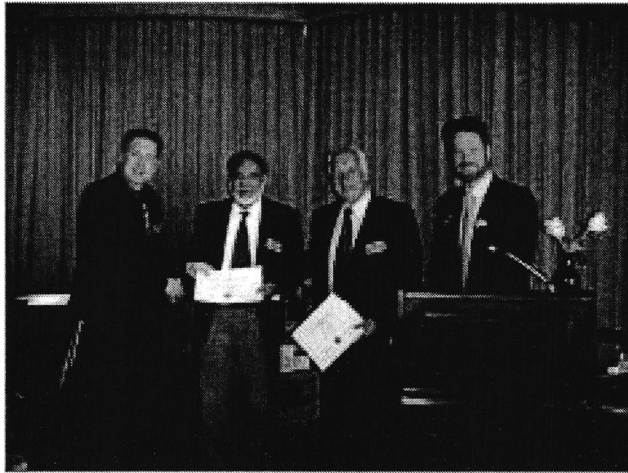
CHANGE OF ADDRESS?

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>.

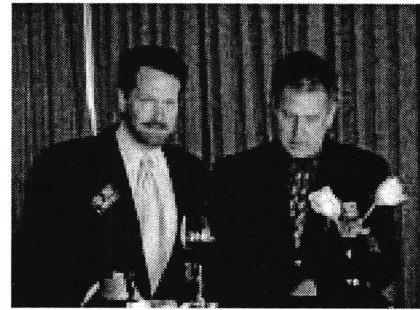
THE GOLDEN GATE CHAPTER CANNOT MAKE THESE CHANGES FOR YOU.

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).

JUNE 2002 Meeting



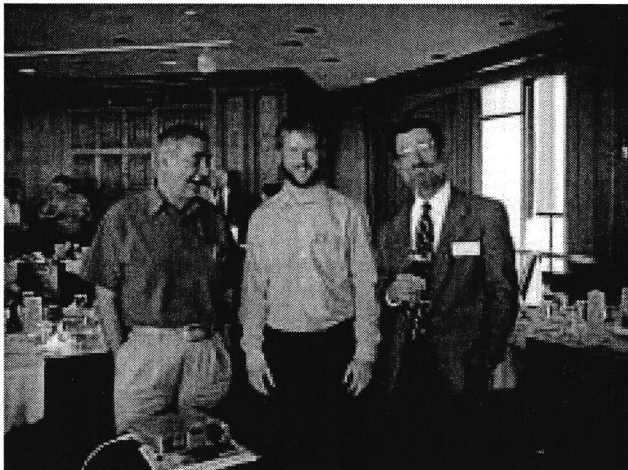
Joe Olivier and Bob Levi honor new Life Members Victor Bach and Raj Jandu



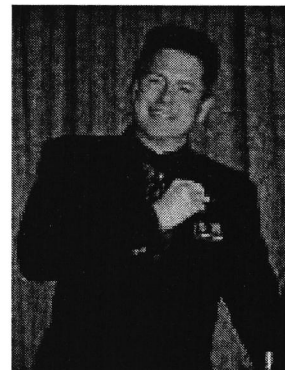
Bob Levi and Joe Olivier plan the program



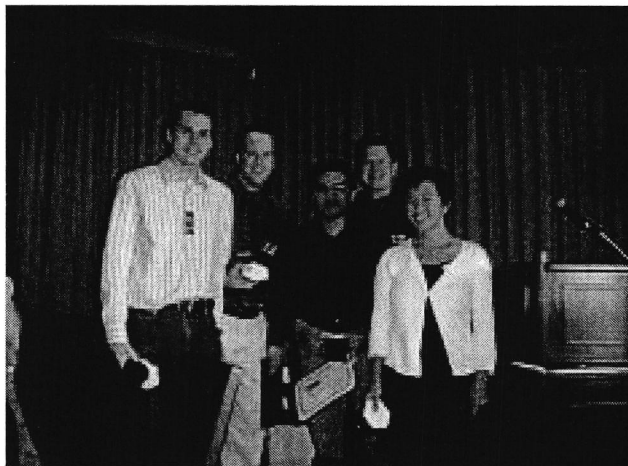
Robin James and Cory Palmer take your money for registration



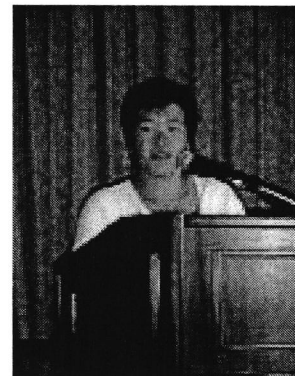
Wasil Popow, Brian Dean, and Jim Nemechek



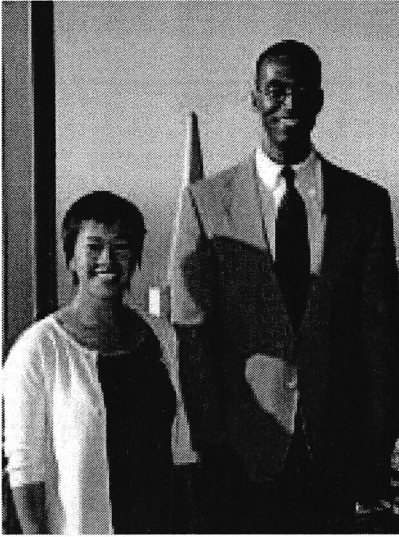
Joe Olivier showing off his new Chapter President's pin



Award winners David Dacus, Shaun Webster, Robert Marcial (webmaster), Joe, Jane Lin (Fog Dispenser Editor)



UCB Student Chapter President Jane Lin discusses next year's activities



Scholarship Winners Jane Lin and Rodney Martin from UC Berkeley



Werner Buck, President of Belimo Aircontrols, our Speaker



No wonder Tom Gilbertson won a Marble Draw prize, look at how many tickets that he bought

EMPLOYMENT OPPORTUNITIES

Facilities Management Engineer II

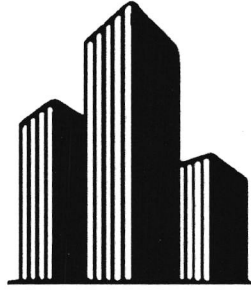
LBNL's Environmental Energy Technologies Division seeks an individual to develop and implement building retro-commissioning and tune-up strategies and techniques in commercial buildings to reduce energy use. You will design, implement and evaluate control tune-up interventions, provide leadership on advanced control technologies and operational improvements in buildings, and develop control tune-up and retro-commissioning deployment programs helping both private and government agencies utilize such strategies. Requires extensive experience with programming and commissioning of building HVAC control systems produced by the major vendors, experience designing and engineering large, complex control projects, knowledge of advanced energy-efficiency technologies and a professional engineering license. For immediate consideration, please complete our online application at <http://cjo.lbl.gov>. Alternatively, e-mail one copy of your resume to AVPIjobs@lbl.gov (no attachments please), mail to:

LBNL Staffing
One Cyclotron Road, Bldg. 937R0600
Berkeley, CA, 94720-8076 or fax to (510) 486-5870.

Reference job number EE/015078/WASH. Berkeley Lab is an AA/EEO.

Report from the Student Chapter

The chartered ASHRAE Student Chapter is being revived at UC Berkeley under the Department of Architecture and has adopted a nickname G.A.R.D., Green Architecture Research and Design, (a play on the word GRAD). The first meeting will take place on September 25 with monthly meetings to follow. The ASHRAE Student Chapter has been re-created to foster a stronger community among students studying Building Sciences and Green Architecture, which include students associated with Lawrence Berkeley Laboratories, Center for the Built Environment, and the Master of Architecture. We are proud to be associated with ASHRAE as we know it is an organization that strongly supports research in building design and has been greatly influential in policies that reduce the environmental impact of buildings. As part of an interdisciplinary effort, GARD/ASHRAE Student Chapter hopes to follow the example of the larger organization in promoting discussion within the community of those who have dedicated their studies to research and design of buildings.



NORMAN WRIGHT MECHANICAL EQUIPMENT CORPORATION

san francisco ♦ santa clara ♦ santa rosa

Norman Wright Corporation Proudly Supports ASHRAE Research.

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 2

NOVEMBER 2002

November Meeting Notice

Date: Thursday, November 7, 2002

Place: Pacific Energy Center (www.pge.com/pec)
851 Howard Street (between 4th and 5th)
San Francisco, CA 94103

Cost: \$35 for GGASHRAE members and guests **if reserved prior to noon on November 5th.**
\$42 for non-members or if reserved after November 5th or walk-in
Students no charge, but please reserve anyway
Voucher 8 meetings for the cost of 7
\$250 total
transferable within your company.

Time:

5:30 pm Social Hour and Registration

6:30 pm Dinner

7:30 pm Program – Sanjay Aggarwal, P.E.
“Smoke Control Design and Testing Developments”

Please reserve on-line by visiting www.ggashrae.org and clicking on “Meetings”, and click on “Nov. 7”, fill out the form and send.

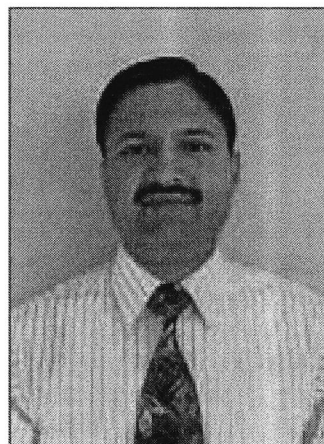
Or send an email with names, company and phone number to reservations@ggashrae.org

Or use the fax form in the Fog Dispenser.

November Program:

Speaker: Sanjay Aggarwal, P.E.
Smoke Control Design and Testing Developments

This presentation will give an overview of the smoke control design and testing provisions in San Francisco. It will focus on the new ideas that are being used for the design and performance evaluation of smoke control systems. The concept of green buildings using



natural ventilation for smoke control purposes will be discussed. In addition, the role of computer modeling for smoke control system design and for the purpose of system performance evaluation will be discussed.

Mr. Aggarwal is a Consulting Engineer in the San Francisco area office of Rolf Jensen & Associates, Inc (RJA). He has a M.S. degree in Fire Protection Engineering and is a registered Fire Protection Engineer in the State of California. His smoke management system experience includes development of smoke management design approaches and acceptance testing criteria for atria, airports, shopping malls, conference centers and high-rise buildings. He has used mathematical and computer models for smoke movement calculations and for analyzing the performance of building smoke management systems.

Golden Gate Chapter President's Message

November 2002

How to become a successful Chapter President?

The answer to this is simple; just surround yourself with an energetic, intellectual, hardworking, and dedicated staff. Let me start off by saying a little something about the Board Members. From the top, there is Bob Levi our President-Elect and Fog Dispenser chief editor. He has set-up and coordinated a program with great speakers that I think everybody should check out (the information is posted on our website – click on Meetings). Then there is Jon Wintermeyer; our Secretary, who takes all of the meeting minutes and recently completed the turnover of the balanced Treasurer's books with completed tax filings to Cory Palmer, our new Treasurer. Cory's work will be a lot easier because of that, and I know that Cory will do just as great a job as Jon did. Next, there is Glenn Friedman. Although he is a new Board Member, he has been involved with ASHRAE at the Regional and Society levels. His experience and unselfish advice is making the work of committee chairs a lot easier. And last, but definitely not least there is our past President, Joe Oliver, (who has handed me this prestigious task) who is still active.

It brings me great happiness to see our Committee Chairs energetically working on their tasks, and for that I would like to acknowledge them. First, there is Jon Malkovich, Research Promotion Chair. Jon started by attending the Research Promotion Workshop in Las Vegas in August, and he is the first Committee Chair to state his goals on our website – click on Committees. Next, there is Chris Papadimos, our Membership Committee Chair. Chris has promised to increase our paying membership by making sure that application forms will be available at every meeting. Please check out the Committee chairs on the website. These are dedicated members who are making a difference.

I would also like to acknowledge our student chapter at U.C Berkeley. They have been very active under the leadership of Jane Lin who is also the Fog Dispenser editor. I would like to say thank you to our Webmaster Robert Marcial, whose timeless effort keeps our website a model for all of ASHRAE.

I would also like to say thank you to Nicolina Guiliano who keeps the Marble Game going, and to Kirk Peterson, our Golf Chair person, who raised over \$7,000 towards scholarships during the June 2002 tournament.

Lastly, I would like to welcome our new Reception Chair, Paul Christianson, who I hope will become more active in ASHRAE.

Respectfully submitted

Edgar De Guzman

2002-2003 ROSTER

The Golden Gate and San Jose Chapter will be combining their efforts this year to produce the first ever Bay Area ASHRAE Roster.

We want your feedback on the format of the roster

- Should it be printed or electronic?
- If electronic, what format should it be in?

Please give the Chapter Board your feedback on what you would like to see. Visit the chapter website www.ggashrae.org and click on Announcements, and click on Roster Survey. Complete the on-line form and send it to us with your comments no later than November 5th. Thanks for your input.

2002 – 2003 GOLDEN GATE ASHRAE PROGRAMS

DATE	LOCATION	PROGRAM	SPEAKER
Dec. 5	San Mateo Marriott (Joint with San Jose)	The ASHRAE Member's Legal Survival Guide	Maralynne Flehner, Esq. Distinguished Lecturer
Jan. 9 LUNCH	Carnelian Room San Francisco	Primary only vs. Primary/Secondary Chilled Water Supply	Steve Taylor Taylor Engineering
Feb. 6	East Bay	Joint meeting with Bay Area U.S. Green Building Council Panel Discussion on Underfloor Air Distribution	Engineer, Owner Architect, CBE member
Mar. 6	Embassy Suites, San Rafael (Joint with Redwood Empire)	DDC Design Practical Examples and Rule of Thumb Checks	Frank Shadpour Distinguished Lecturer
Apr. 3	Pacific Energy Center	Science Fair and Scholarship Winners	Students
May 1	Field Trip	TBA	
June 5	Carnelian Room San Francisco	Spouse Night	TBA

ASHRAE STUDENT CHAPTER

As one of our first events for the year, the UC Berkeley Student Chapter held a BBQ at Cordonices Park in Berkeley on October 19, 2002. Many students from the different departments and ASHRAE members (President Edgar Deguzman, Chair of Student Activities Wasil Popov, and Glenn Friedman) attended and spent a beautiful Saturday together. We talked about upcoming events such as building tours and the proposal of a "green" debate at school. Frisbees and footballs flew and we all planned to get together again for the November 6th monthly meeting. Many thanks to the Golden Gate Chapter for all your support and involvement!

Those interested in joining the ASHRAE Student Chapter at UC Berkeley should contact: janelin@uclink.berkeley.edu
Check out our web page: <http://arch.ced.berkeley.edu/groups/gard>

STUDENT SPONSORS

Thank you to the following members for sponsoring a student at the October Meeting:

Cory Palmer – Norman Wright Mechanical Equipment
Jon Malkovich – Edward B. Ward & Co.
Kirk Peterson – Edward B. Ward & Co.
Nicolina Guiliano – Johnson Controls, Inc.

MARBLE DRAW

Thank you to California Hydronics Corporation for sponsoring the Marble Draw at the October meeting.

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

ASHRAE RESEARCH REPORT

The 2002-03 ASHRAE Research year is off to a great start! Many of you have already given, either through me, or directly to ASHRAE Research when renewing your Society 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.

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

Corporate Honor Roll Investors (\$150.00 or more)

<i>Belimo Air Controls</i>	<i>R. F. MacDonald Company</i>
<i>Kent M. Lim & Company</i>	<i>Syserco Incorporated</i>
<i>Laws and Associates</i>	

Individual Honor Roll Investors (\$100.00 or more)

<i>Edward Arens</i>	<i>John Kniveton</i>	<i>Shlomo Rosenfeld</i>
<i>Richard Charles</i>	<i>Robert Levi</i>	<i>Mike Scofield</i>
<i>Edgardo De Guzman</i>	<i>Hendrik Mouw</i>	<i>Dennis Thompson</i>
<i>Kevin Dowling</i>	<i>Cory Palmer</i>	<i>Robert Voelz</i>
<i>Glenn Friedman</i>	<i>Jack Palmer</i>	<i>Jon Wintermeyer</i>
<i>Carl Jordan</i>		

If you contributed at the "Honor Roll" level last year, you are entitled to a gift. A medallion, picturing a prominent HVAC&R 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...

ASHRAE Research

Jon Malkovich
2301 Arnold Industrial Way, Suite C
Concord, California 94520
925.688.1369 x4
jon.malkovich@ebward.com

TEGA COMMITTEE

The Technical, Energy and Government Activities (TEGA) committee is an important part of ASHRAE, not only for Society but for the Regions and the Chapters as well. The TEGA committee is assigned with the responsibility of transferring technical information between the Chapters and the Society and the Society and the Chapters. TEGA assists in planning and administering technical activities within the Chapters and with the local community (local and state/provincial public affairs). Chapter Refrigeration activities are also coordinated by TEGA beginning with the 2000-2001 Society year. Other responsibilities include: informing chapter members of available ASHRAE technical material; encourage chapter members participation in technical activities at local, Regional and Society level; provide Chapter input to Society on Standards, Publications, Research, Handbook, and Position Documents and the Technology Council (TCs). TEGA also assists the chapters in: developing local and Regional recognition of ASHRAE's authoritative position; responding to public issues within ASHRAE's scope; developing liaisons with the local community regarding technical issues. TEGA also administers awards programs: Technology Awards; Government Activities Awards; Dan Mills Award.

To that end the GG ASHRAE TEGA Committee will function to satisfy these and other needs for our Chapter members, our clients and our community. The TEGA Committee will be working closely with the Code Committee to work on these issues.

We will be creating a TEGA website at the chapter website soon to meet these needs, stay tuned! If you would like to get involved, contact me at: swayland@rumseyengineers.com or at (510) 508-2244.

Scott Wayland, TEGA Chair

ANNOUNCEMENT

All parts of the 2001 California Code of Regulations Title 24 will become effective on November 1, 2002!

They are available from the following publishers or your local technical bookstores. Stay current with the State's Building, Mechanical, Plumbing and parts of the Title 24 Code!

**Part 1, California Administrative Code, and
Part 2 (2 Volumes), California Building Code, and
Part 7, California Elevator Safety Construction Code, and
Part 8, California Historical Building Code, and
Part 10, California Code for Building Conservation, and
Part 12, California Building Standards Code:**

International Conference of Building Officials (ICBO) www.ICBO.org -or- 1-(800) 284-4406

Part 3, California Electrical Code:

National Fire Protection Association (NFPA) www.NFPA.org -or- 1-(800) 344-3555

Part 4, California Mechanical Code, and

Part 5, California Plumbing Codes:

International Association of Plumbing & Mechanical Officials www.IAPMO.org -or- 1-(800) 854-2766

Part 9, California Fire Code:

Western Fire Chiefs Association (WFCA) www.wfca.com -or- 1-(800)785-3473

MINUTES OF OCTOBER 3, 2002 MEETING

Location – Carnelian Room, Bank of America Building, San Francisco

- Pre-meeting Technical Seminar by Joe Schaefer, of Griswold Controls, sponsored by Cal Hydronics
- Called to order at 6:30 PM. by Chapter President Edgar DeGuzman
- Self Introductions – All those Members in attendance and their invited Guests were recognized
- Jon Malkovich, Research Promotion Chair, asked for contributions to ASHRAE Research as the campaign year starts for our Chapter
- Bob Levi, Presented the outline of Chapter Programs for the upcoming year, including locations and those that are combined meetings with our affiliated ASHRAE Chapters or other Organizations
- Chris Papadimos, Membership Chair, noted the new program incentive for increasing membership.
- Jane Lin, UCB Student Chapter President and Newsletter Editor, told the group about the latest activities for the student chapter
- Dean Borges, Region X ASHRAE Historian spoke on the importance of Chapter History and learning for the Chapter Mentor's.
- It was noted that Past Chapter President and ASHRAE Life member Karl Guttman had suffered a stroke and was recuperating. Note was made to his friends to send get-well cards and/or to contact him.
- Edgar DeGuzman and Bob Levi presented the Eric Thor Andresen Scholarship to Gwelen Pagliaga
- Marble Draw – Bob Levi held the lucky ticket, but alas did not draw the prize winner, so the pot rolls over to the November Meeting
- Bob Levi encouraged all attendees to fill out and return before leaving, the Legal Education Survey that was available on all the tables.
- Ben Sun, Publicity Chair was resident photographer for the evening
- Mike Gabel, of Gabel Associates was the main speaker. He spoke about the "Gas vs. Electric Heating in the Current Title 24 Performance Standards"
- Meeting adjourned at 8:43 PM.

Minutes by Jon Wintermeyer

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For November 7, 2002

Please reserve prior to **Tuesday noon, November 5th**

Please reserve on-line by visiting www.ggashrae.org and click on "Meetings", and click on "Nov. 7", fill out the form and send.

Or send an email with names, company and phone number to 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 November 5th.

FROM: _____

COMPANY: _____ Phone: _____

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

ANNUAL MEAL VOUCHER

The Golden Gate Chapter is again offering discount meal vouchers. Purchase a Meeting Voucher and all of your meetings for the year are paid for.

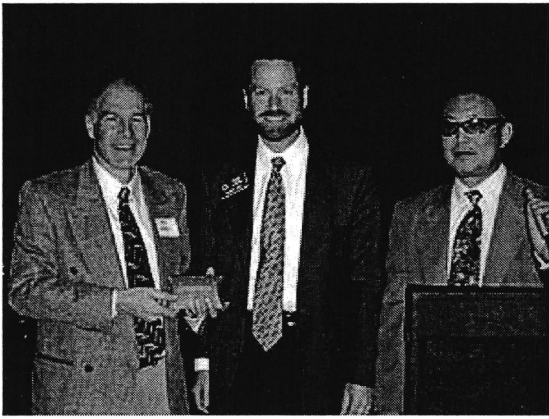
Meeting vouchers cost \$250.00 for the remaining eight meetings – buy seven and get eight!

These vouchers are transferable within your company. If you cannot make a meeting, then someone else from your office can attend. Purchase these vouchers at the November meeting.

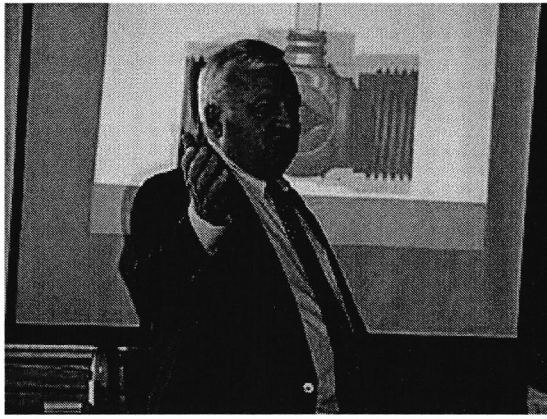
Change of Address?

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.

OCTOBER MEETING PHOTOS



Left: Speaker Mike Gabel, Bob Levi and Edgar DeGuzman



Right: Joe Schaefer of Griswold Controls conducting the technical session



Left: Golf Chair Kirk Peterson is recognized by Edgar DeGuzman for his efforts to organize the June 2002 tournament



Right: Steve Taylor, Robin James, Tami Holderby, and Amy Cervantes



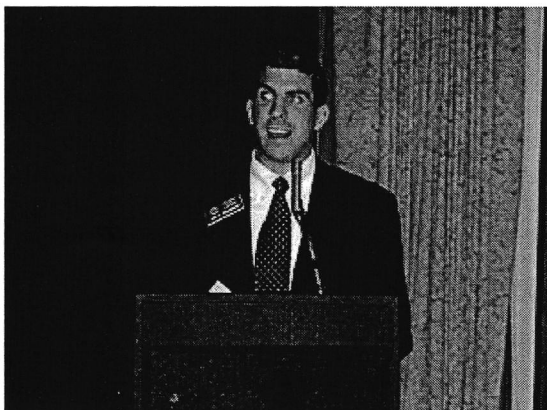
Left: Regional Historian and former DRC Dean Borges



Right: UCB student Gwelen Paliaga accepts the Eric Thor Andresen Scholarship Award from Edgar DeGuzman



Left: Cory Palmer and Glenn Friedman will take your money



Right: Jon Malkovich asks for Research Promotion Investments

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DAN BOLLMAN
ELIZABETH DUBENSKY
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SAN Jose – 408.453.3300

DICK BARCLAY
RON ENG
TIM IRELAND
TONY LORETELLI

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 3

DECEMBER 2002

December Meeting Notice

Date: Thursday, December 5th

Place: San Mateo Marriott Hotel
1770 South Amphlett Blvd.
San Mateo, CA 94402
MAP

NEED A RIDE TO OR FROM SAN MATEO? Contact one of the officers.

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

JOINT MEETING WITH THE SAN JOSE CHAPTER

Schedule:

5:00 pm Pre-Meeting Tech Seminar
5:30 pm Social Hour and Registration
6:30 pm Dinner
7:30 pm Main Program – Maralynne Flehner
“The ASHRAE Member’s Survival Guide”

Please reserve on-line by visiting www.ggashrae.org and clicking on “Meetings”, and click on “Dec. 5”, fill out the form and send.

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

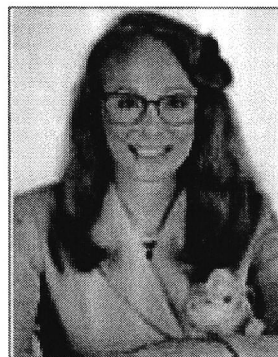
Remember - If you make a reservation and cannot attend, you need to cancel in advance, or you will be billed.

December Program:

Speaker: Maralynne Flehner
The ASHRAE Member’s Survival Guide

This general legal education program focuses on legal and non-legal steps that ASHRAE members can take to avoid being sued, and to limit their exposure if they are sued.

The first segment of the program focuses on contracts. It identifies many of the risks that ASHRAE members face (including risks arising out of plans and specifications, cost estimates, site visits, environmental hazards, project delays, changed conditions, and lawsuits), and discusses how members can avoid and limit these risks through the use of contract terms. The program also identifies provisions commonly contained in client-generated agreements that should be carefully avoided.



The second segment of the program concentrates on non-legal skills and techniques that can help members avoid litigation. This portion of program discusses problem solving; how to determine when a problem is escalating into a dispute; what to do if you find yourself with a full-blown dispute on your hands; when to settle; and how to conduct effective settlement negotiations.

The final segment of the program focuses on the kinds of documents members should always maintain; the kinds of documents they should never generate; what members can expect in litigation; and concludes with tips on how to survive the stress of a lawsuit.

Golden Gate Chapter President's Message

December 2002

**“ I expect to pass through this world but once. Anything good I can do, let me do it now.”
(Anonymous)**

This is the second influential quote given to me by my 6th grade teacher Miss Malig at Pulung Bulo Elementary School in Angeles City, Philippines. This quote will forever be imprinted into my head. The quote talks about being helpful. Being helpful is a simple task you can practice in your daily life, yet sometimes it is hard to practice because of distractions, lack of patience, and/or poor judgment. But then again, it is so rewarding to see many people helping others and making a difference. The deeds that are done do not have to be as great as Bill and Melinda Gates, who have donated one hundred million dollars to the AIDS victims of India, or as significant as building houses for the poor all over the world, like what Jimmy Carter does. It can be as simple as handing your doggie bag to a homeless person after your fine dinner, helping a disabled or elderly person cross the street, practicing road courtesy, or volunteering at a non-profit organization. Remember that helping others has to come from the goodness of your heart with no strings attached. Trust me the rewards are priceless. The feeling of making a difference is something to treasure. Nobody can give that to you nor take away. Being helpful is a good trait to have.

Miss Josefina Malig was a very strict, compassionate, and dedicated teacher, who extended our class two extra hours everyday, so that she could teach us more. She had taught us a lot outside of the 6th grade curriculum; she taught us everything from music to etiquette. She was my mentor.

I may sound like a preacher but sometime in our life we have to thank people who have influenced us a lot. Our Chapter is so lucky to have many dedicated people, many of whom have gone unnoticed. These people work behind the scenes for the betterment of the Society. I would rather not mention any names just in case I may miss a few.

With this I would like to thank you all. Keep up the good work and try to do something nice for somebody.

Happy Thanksgiving!!!

Respectfully submitted,

Edgar De Guzman

Board Motions

Motions voted on at 11/13 Board meeting:

First Motion was made to provide compensation as an Independent Contractor to the person responsible for the assembly of the Chapter's Monthly Newsletter (FOG DISPENSER) at an amount of \$100 per issue for nine total issues per year for \$900 maximum.

Motion #1 made by Edgar DeGuzman and seconded by Jon Wintermeyer and carried 5-0-1.

Second Motion was made to provide compensation as an Independent Contractor to the person responsible for the monthly maintenance of the Chapter's Website at an annual amount of \$1000.

Motion #2 made by Edgar DeGuzman and seconded by Glenn Friedman and carried 6-0-0.

2002-2003 Roster: Results of the Roster Survey

Thank your for participating in the roster survey. Here are the results:

97 responses

- 38 votes for Printed
- 57 votes for Electronic – ELECTRONIC WINS

Of the electronic

- 38 for a read-only format
- 19 for an open version

For method of delivery of the electronic version

- 46 for an emailed file
- 7 for a CD via snail mail
- 2 for post on the website
- 2 no vote

2002 – 2003 GOLDEN GATE ASHRAE PROGRAMS

DATE	LOCATION	PROGRAM	SPEAKER
Jan. 9 LUNCH	Carnelian Room San Francisco	Primary only vs. Primary/Secondary Chilled Water Supply	Steve Taylor Taylor Engineering
Feb. 6	East Bay	Joint meeting with Bay Area U.S. Green Building Council Panel Discussion on Underfloor Air Distribution	Engineer, Owner Architect, CBE member
Mar. 6	Embassy Suites, San Rafael (Joint with Redwood Empire)	DDC Design Practical Examples and Rule of Thumb Checks	Frank Shadpour Distinguished Lecturer
Apr. 3	Pacific Energy Center	Science Fair and Scholarship Winners	Students
May 1	Field Trip	Lawrence Berkeley National Lab	
June 5	Carnelian Room San Francisco	Spouse Night	Comedian

Speaker Biography: Maralynne Flehner, Esq.

Maralynne Flehner is a litigating attorney with more than 20 years experience representing corporate and individual clients in state and federal courts and in arbitration proceedings.

During the course of her professional career, Ms. Flehner served as senior law clerk to a federal district court judge, as a member of the litigation department of a large Wall Street law firm, and as the principal of her own law firm. Now retired from the active practice of law, she continues to represent private litigation clients, serves as an arbitrator and chairperson for the National Association of Securities Dealers, and writes articles for HVAC industry publications. She is a member of ASHRAE and the Chair of ASHRAE's Task Group on General Legal Education.

Ms. Flehner received a Bachelor of Arts degree in English, with high honors, from the University of Massachusetts, and a Juris Doctor degree, with high honors, from St. John's University School of Law in New York. She graduated first in her class in law school, and is the recipient of numerous awards. She is admitted to practice in New York and Pennsylvania, and in the United States Supreme Court.

Pre-Meeting Technical Seminar: Dan Engel from Nexant, Inc.

“Enhanced Automation Resources from the CEC”

Several informational and technical resources on the Enhanced Automation of building energy management systems are now available from the California Energy Commission (CEC) free of charge. Enhanced Automation refers to a variety of potential strategies for increasing the capability of an existing energy or building management system to control energy costs while maintaining the comfort and productivity of all building occupants. The Commission's offering is designed to provide California's commercial energy customers with the information and technical assistance they need to find the right contractors and select the proper equipment to improve the level of automation and control in their existing facilities. The informational resources include a brochure describing Enhanced Automation, case studies of six California businesses that have made successful investments in Enhanced Automation, vendor lists, and guidebooks to help businesses evaluate options as well as find solutions customized to meet their needs. Technical resources include a toll-free hotline to call with initial questions on Enhanced Automation, engineering assistance for more specific questions and analysis, and the potential for a full feasibility study at a facility. These free resources are intended for commercial energy customers in California as well as for companies providing energy services to California customers.

ASHRAE RESEARCH REPORT

We're still moving ahead with the 2002-03 ASHRAE Research campaign. The Golden Gate Chapter has recently fulfilled the requirements for the Full Circle Research Award. To receive this award every Board Member and Research Chair must give individually at the Honor Roll level (\$100 or more). Thanks to all the Board Members for their support of ASHRAE Research!

At the monthly meetings, please take notice of the table cards. The cards list every individual and corporation that has given to ASRHAE Research, at the Honor Roll level, this campaign year. Thanks for your support!

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

Corporate Honor Roll Investors (\$150.00 or more)

Western Plumbing and Heating

Individual Honor Roll Investors (\$100.00 or more)

Mark Hydeman

Richard Yates

Max Sherman

Art Zigas

Ross Sherrill

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:

ASHRAE Research
Jon Malkovich
2301 Arnold Industrial Way, Suite C
Concord, California 94520
925.688.1369 x4
jon.malkovich@ebward.com

ASHRAE STUDENT CHAPTER

The last Student Chapter meeting was held on November 6th, filling the CEDR conference room in Wurster Hall, UC Berkeley. New students were signed up, officers were elected, and plans were made for upcoming events that include a joint tour with the Berkeley Real Estate Club to Village Homes in Davis. A green building debate and a student competition were proposed. It is now time for finals and winter break! Meetings will resume in the Spring Semester, targeted for the beginning of February. The Student Chapter thanks the Golden Gate Chapter for providing snacks and moral support. Those interested in joining the ASHRAE Student Chapter at UC Berkeley should contact: janelin@uclink.berkeley.edu

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

STUDENT TRAVEL GRANTS

The Chapter is offering Travel Grants to the ASHRAE Winter and Summer Meetings to encourage student involvement in the HVAC&R industry. To download an application form, go to the Announcements page on the web site <http://www.ggashrae.org/announc.html> and click on Student Travel Grants. Applications for the Winter Meeting in January are due in early December. For more information, contact Wasil Popow, Student Activities Chair wasil.popow@sf.fk.com or 415.402.2281.

MEMBERSHIP PROMOTION

Having members is the very foundation of any society. However, having active members is by far the only way of being successful. By now you can all understand what this message is about or where it is heading. But I speak from personal experience that many other members can also relate to. A while back I was new to the Bay Area and I called Mark Hydeman about volunteering some of my time for our Chapter. Needless to say Mark was delighted with my offer and since then I have been involved on and off with Chapter activities. Before then I was a Society member for a few years but not active in any way, and reflecting back, the main benefit of my membership were the Handbooks.

There are many ways that we can all help the Society and the Chapter grow and succeed. Needless to say the most effective way is to volunteer some time and be an active member in our Chapter or the Society in general. However, I am a strong supporter of the idea that it all starts at the local level and for that reason we need to make it all happen locally first and foremost. I especially encourage the young, or shall I say the younger, engineers to become active as a means to gain invaluable experience beyond technical disciplines. Also all of the new transplants to the Bay Area or people out of work and looking for new opportunities that want to make some acquaintances or meet others in their field outside of a work setting.

We all have busy lives, work all day, have families to take care of, are active in our communities, and so on – the list never ends. However, being a member should not mean just a name on a roster. Most importantly, we need to infuse society with new blood and new ideas, and it can only happen with more participation and again it all starts at the local level. We welcome all of you to step forward and offer to participate on some of the activities planned for the year. Visit the web site where such activities are posted. Feel free to send me any comments or suggestions that you have about what would interest you or what else you may like to see from our Chapter. The Chapter is only there to serve you and as members you have the power of your voice to influence change. As the Membership Chair I am actively looking to recruit a number of members that can help us get as many as possible local members more actively involved. Our Chapter has a very large membership (over 800) but typically only about 10% are active. Even a small increase in active members can be tremendously positive for the Chapter. We would like to pledge increasing active membership by the end of the year by at least 5%. We are also looking into putting forth a campaign for membership advancement and new ways to sign up new members. Our earlier offer still stands; any member that signs up a new member receives a free meal. So for all of you out there on the sidelines, please join in and be part of the fun!

We are looking forward to seeing you all at the December meeting. Bring a friend, a student, or a client and let me know if you would like to help. Remember that membership has its privileges but it usually comes from being an active member.

Respectfully,
Chris Papadimos
Membership Promotion Chair
cpapadimos@sf.smwinc.com

ANNOUNCEMENT

The City of Oakland Restores Energy Efficiency Design Assistance Program and Provides New Building Tune Up Services

The City of Oakland is building on the success of last year's Energy Efficiency Design Assistance (EEDA) Program by rolling out a larger program - The Oakland Energy Partnership. This RATEPAYER-FUNDED effort restores EEDA's free design assistance services and provides new energy services aimed at existing commercial buildings in Oakland. The EEDA program uses energy experts to provide free customized energy efficiency design assistance to property owners, developers, and designers involved with new construction or retrofit of existing buildings. The Partnership also includes *The Large Commercial Building Tune Up Program* that targets medium and large-sized multi-tenant commercial buildings, medical facilities, hotels, and educational buildings in Oakland. This program offers, at no cost to the participant, engineering services to evaluate the performance of the building's existing systems, recommendations for measures that improve performance, and rebates to the participant to implement those measures.

These free services are available through December 2003. To learn more about the EEDA Program, please call Energy Solutions at (510) 482-4420 ext. 220. For assistance or questions regarding the Large Commercial Building Tune Up Program, please contact Quantum Consulting at 510-981-2010.

TECHNICAL, ENERGY AND GOVERNMENT AFFAIRS (TEGA) COMMITTEE

Scott Wayland, TEGA Chair

Happy Holidays to all! If you read last month's TEGA column, you know what TEGA is all about. One thing you should expect out of TEGA is information on various ASHRAE related issues, as well as other subjects that are related to our industry. Please take a look at the following topics. Also, coming soon will be the GGASHRAE TEGA website...

Updated ASHRAE Website

ASHRAE's website is continuing to evolve. Take a look if you have not been there recently at <http://www.ashrae.org/>. As you probably know there is a weekly "Enews" newsletter that you can obtain by going to <https://www.ashrae.org/template/EnewsSubscriberLogin>. There are other list servers that you can subscribe to at <http://resourcecenter.ashrae.org/store/ashrae/lists.html>.

December's Meeting and Speaker

Don't miss this rare opportunity to hear an important ASHRAE Speaker! Maralynne Flehner will present "The ASHRAE Member's Legal Survival Guide". She is the Chair of ASHRAE's Task Group on General Legal Education (TG). TG1's website is <http://www.ashraerochester.org/TGLegalEducation/>

If you want to find out more about the ASHRAE's Technical Committees, Task Groups and Technical Resource Groups, go to <http://xp20.ashrae.org/TECHCOMM/tcmenu.htm>. Here you will find the list of all TC/TG/TRG, a Q&A section, links to TC/TG websites, and more!

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.

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 February 2003.

If you cannot access any of these links, contact me at (510) 508-2244 or at swayland@rumseyengineers.com

MARBLE DRAW

Thank you to PACO Pumps for sponsoring the Marble Draw at the November meeting.

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

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX
For December 5, 2002

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Please reserve on-line by visiting www.ggashrae.org and click on "Meetings", and click on "Dec. 5", fill out the form and send. Or send an email with names, company and phone number to reservations@ggashrae.org

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FROM: _____

COMPANY: _____ Phone: _____

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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.

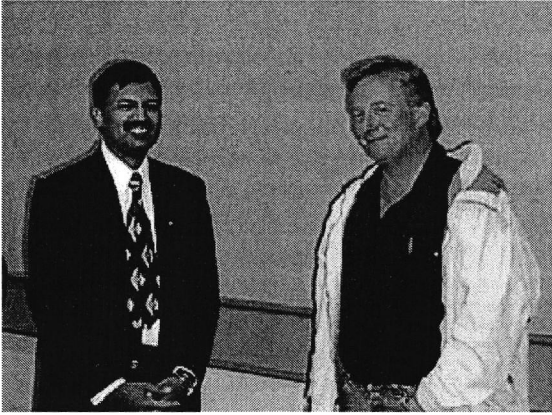
Minutes of November 7, 2002 Golden Gate Chapter Meeting

Location – PG&E Pacific Energy Center, San Francisco

- Called to order at 7:15 p.m. by Chapter President Edgar DeGuzman.
- Self-Introductions - All those members in attendance were recognized, including the full DeGuzman Team from ACCO. There was a warm welcome given to Our Past President Karl Guttman, who was in attendance at the meeting and is recovering from a stroke.
- David Dacus, standing in for Jon Malkovich, Research Promotion Chair, spoke about ASHRAE Research for the Golden Gate Chapter and this year's goal.
- Bob Levi spoke about the December meeting, which is a joint meeting at the San Mateo Marriott with the San Jose Chapter and the Distinguished Lecturer, Maralynne Flehner who will speak on Legal Issues in ASHRAE and how to survive them.
- Scott Wayland, TEGA Chair, spoke about the Chapter's reasons to become more involved in the Technical, Energy and Government Activities than in the past and discussed the TEGA Committee plans for the year and working jointly with the Code Committee on common issues.
- Bob Levi discussed the results of the Roster survey on the type of format that the members would like to have used for the upcoming 2002-2003 year version.
- Paco Pumps was the sponsor of the prizes for the Marble Draw at the meeting.
- Shaun Webster held the lucky first prize ticket, but didn't pick the winning marble, so the pot rolls over now to the January luncheon meeting.
- Sanjay Aggarwal, of Rolf Jensen & Associates, was the speaker for the evening and his presentation was on Smoke Control Design and Testing Developments. There were numerous questions raised and answered with regard to multiple building types and the requests made by the local inspectors (AHJ). His power point presentation will be available for all members on the Chapter Website.
- Meeting adjourned at 9:00 p.m.

Minutes by Jon Wintermeyer, Secretary

November Meeting Photos



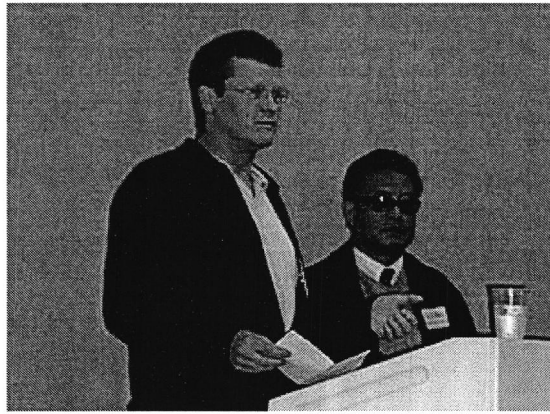
Left: Speaker Sanjay Aggarwal from Rolf Jensen and Jim McGovern of Scott Co.



Right: David Dacus makes a Research Promotion appeal



Left: Shaun Webster draws for the Marble Prize



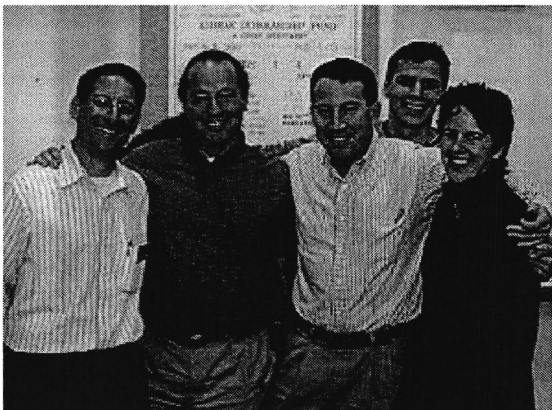
Right: Scott Wayland reports on TEGA activities



Left: Pres. Edgar DeGuzman and his ACCO co-workers



Right: PG&E is still in business- Barbara Dilts, Wayne Womer, Charlie Nadig



Left: Taylor Engr. crew is much too happy about the Fire/Smoke Control Topic



Right: Cindy Regnier, Jason Allen, Paul O'Neill from C&B Engineers

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