

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLI - NUMBER 5

FEBRUARY 2003

February Meeting Notice

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

Date: Thursday, February 6th

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

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

Schedule:

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

February Program:

Panel Discussion on Underfloor Air Distribution
(UFAD)

Speakers:

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

Fred Bauman

[\(Center for the Built Environment, U.C. Berkeley\)](#)

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

Allan Daly

 (Taylor Engineering)

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

Bill Krill and Kevin Brooks

 (Swinerton Builders).

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

Owner Representative

 – T.B.A

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

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

Please reserve on-line by visiting www.ggashrae.org and clicking on "Meetings", and click on "Feb. 6", fill out the form, select your entrée, and send.

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

Or use the fax form in the Fog Dispenser.

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

Golden Gate Chapter President's Message

February 2003

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

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

Respectfully submitted,
Edgar De Guzman

2003 Golden Gate ASHRAE Programs

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

2003 ASHRAE SEMINAR

Improving the Broken Design Process

From specifications through bidding
to submittal review

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

Location: PG&E Energy Center

Date: Thursday, May 21, 2003

STAY TUNED FOR MORE INFORMATION

February Program:

Panel Discussion on Underfloor Air Distribution (UFAD)



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



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



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



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



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

The Roster Goes Electronic and Bay-Area-Wide!

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

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

Be sure that your local and national dues are paid in order to receive a roster. You can verify or change your contact information at www.ashrae.org. Note that all contact information changes must be made through ASHRAE's national headquarters. The roster information is downloaded from national headquarters by your local chapter.

Sincerely,
Cory Palmer
Golden Gate Chapter Roster Chair

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 January 9, 2003 Meeting

Golden Gate Chapter Meeting

Location – Board Room, 51st Floor, Bank of America Building, San Francisco

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

Minutes by Jon Wintermeyer, Secretary

Technical, Energy and Government Affairs (TEGA) Committee

By Scott Wayland, TEGA Chair

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

TEGA's role with Society and the members includes many areas of responsibility. ASHRAE functions with a grass roots base, and TEGA is glue that binds everything together. One of the roles is for TEGA to create, enhance, and maintain the two-way communication between Members and Society technical activities. TEGA assists with Member interaction with the community as well as with local and state affairs (without getting involved with "the political process"). TEGA also helps with local and regional recognition of ASHRAE's authoritative position.

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 the TEGA Committee by February 24th 2003.

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

Marble Draw

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

2003 ASHRAE Product Show

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

If your firm has exhibited at past Product Shows, you may be familiar with this annual ASHRAE event. If 2003 will be your first year as an exhibitor, you should be prepared to generate interest in your product or firm, answer questions from other ASHRAE members, and enjoy the exposure you will receive.

The schedule for April 3, 2003 will be as follows:

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

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

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

Respectfully submitted,
Shaun Webster
2003 Product Show Committee Chair
925.417.7223 Phone
925.426.1188 Fax
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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 Roll level in the last month. If you have donated and have not been recognized please notify us. We want to make sure to recognize everyone who has donated!

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

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

Thanks to everyone who has donated!

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

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For February 6th, 2003

Please reserve prior to **Friday at 3 pm, January 31st**

Please reserve on-line by visiting www.ggashrae.org and click on "Meetings", and click on "Feb. 6th", fill out the form and send. Or send an email with names, company, phone number, **AND MEAL CHOICES** 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 January 31st.

FROM: _____

COMPANY: _____ Phone: _____

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

_____	<u>Meal Choice</u> _____
_____	<u>Meal Choice</u> _____
_____	<u>Meal Choice</u> _____

January Meeting Photographs



Left: Speaker Steve Taylor



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



Left: Bob Linford receives his Life Member certificate



Right: Jim Lazor receives his Life Member certificate



Left: Ding Xie, Sal Giglio, and Dave Campbell



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



Left: Kenny Dong and Sie



Right: Sue and John Pappas



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