

ASHRAE GOLDEN GATE CHAPTER 1991-1992

CHAPTER OFFICERS

Barbara Dilts      PRESIDENT  
 Fran Scholl      PRESIDENT-ELECT  
 Richard Leao      SECRETARY  
 Richard Paillon      TREASURER

BOARD OF GOVERNORS

Gail Brager  
 Roy Gifford  
 Tom Reinarts

COMMITTEES AND CHAIRPERSONS

ATTENDANCE	Gail Brager	MARBLES GAME	Tim Provo
AUDITING	John Lewis	MEMBERSHIP	Eric Tinglof
AWARDS	Jack Kniveton	PRODUCT SHOW	Jim MacDonald
BAEC	Tom Reinarts	PROGRAM	Fran Scholl
BY-LAWS	Carl Jordan	PUBLICITY	Ellen Pierce
CODE	Robert Montgomery	RECEPTION	Eric Ensenat
CRC ACTION	Fran Scholl	REFRIGERATION	Lewis Brooks
EDUCATION	Debi May	RESEARCH PROMOTION	Dennis Heller
ENERGY & TECHNICAL	Mark Hydeman	ROSTER	Jim Taylor
FOG DISPENSER	Rachel Murray	SF ADMIN. CODE	Pete Johnson
GOLF	Mark Luckes	SCHOLARSHIP	Dan Reiter
GOVERNMENT AFFAIRS	Bob Braun	SEMINAR	Marie Madden
HISTORIAN	Bob Phillips	TENNIS	Wayne Humphrey
HONOR ROLL	Tim Provo		

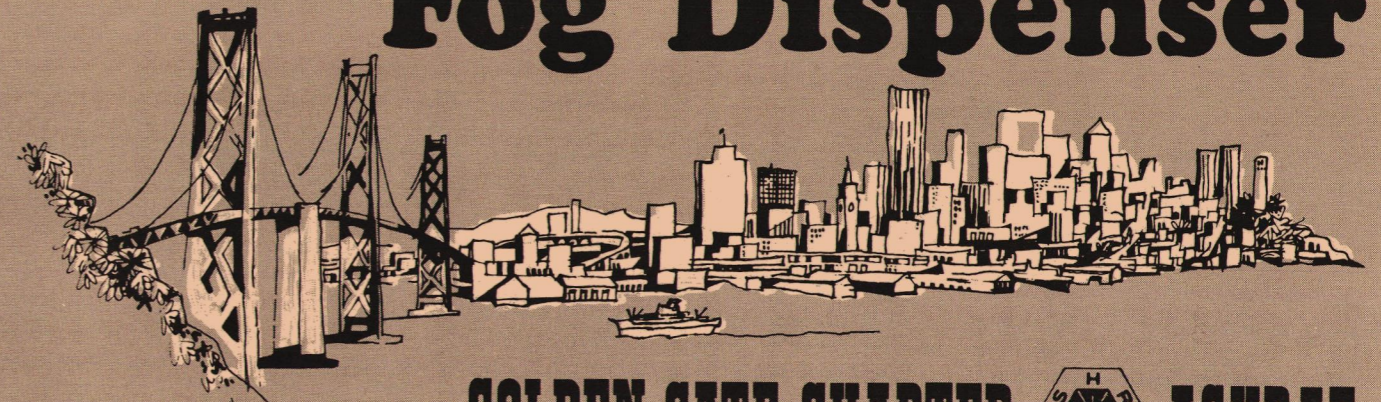


Golden Gate Chapter  
 ASHRAE  
 370 Brannan Street  
 San Francisco, CA 94107



Richard A. Charles  
 Charles & Braun  
 150 Spear Street  
 San Francisco, CA 94105

# Fog Dispenser



**GOLDEN GATE CHAPTER**  **ASHRAE**

VOLUME XXXI • NUMBER 3

DECEMBER 1991

MEETING NOTICE

DATE: Thursday, December 5, 1991  
 SOCIAL HOUR: 5:30 p.m.  
 PRE-MEETING SEMINAR: 5:45 p.m.  
 DINNER: 6:30 p.m.

LOCATION: Engineers Club  
 160 Sansome Street, 17th Floor  
 San Francisco, CA

COST: \$25.00

NOTE: Please phone or fax your dinner reservation to Fran Scholl by noon on Tuesday. A fax form is enclosed for your convenience.

PHONE: 369-1880  
 FAX: 369-2378

DECEMBER PROGRAM

PROGRAM: "Difficulties Encountered in Testing, Adjusting & Balancing HVAC Systems"

SPEAKER: William Edwards, M.E.S.A.<sup>3</sup>  
 NEBB Certified TAB Supervisor

Bill will discuss the difficulties of air and hydronic system balancing in the real world and how design professionals and others in the industry could alleviate some of these problems and provide better operating systems for all concerned.

Fran Scholl

PRE-MEETING TECHNICAL SEMINAR

PROGRAM: "Alternates to Chemical Water Treatment in Cooling Towers: Ozone and Magnetic Systems."  
 (For more information, see page 2.)

## GAYNER ENGINEERS

CONSULTING MECHANICAL AND ELECTRICAL ENGINEERS  
**CELEBRATING 50 YEARS OF SERVICE**



*Thanks to all of our clients and friends  
 for 50 years of challenging projects.  
 We look forward to many more in the future.*

1133 Post Street

San Francisco, California 94109

(415) 474-9500



Fran Scholl has another exceptional speaker for our regular program. Bill Edwards from M.E.S.A.<sup>3</sup> of San Jose will be speaking on testing and balancing as well as start-up trouble shooting. Forget holiday shopping for one night! This looks like a Chapter meeting you won't want to miss. **BE SURE TO CALL OR FAX YOUR RESERVATIONS to Fran by noon Tuesday.**

As the holidays approach, I find I'm thinking more of the many people, some of whom are friends, colleagues and Chapter members, whose lives have been turned upside down by the East Bay fire. Our thoughts, hopes and best wishes are with you.

To all in ASHRAE: May the holiday season and the coming New Year bring all of you and your families peace and joy.

Barbara Dilts

**PRE-MEETING SEMINAR** (cont. from page 1)

- SPEAKERS:**
- Frank Catz, Descal-a-Matic Fluid Conditioners;
  - Jane Piper, National Water Management Corporation;
  - W.D.Waggoner, Purozone Ozonation from CALMAC Corporation.

**DETAILS:** Held in the library of the Engineers Club (lower level, next to the bar) at 5:45 p.m., prior to the December 5th meeting.

**JANUARY FIELD TRIP**

**PROGRAM:** Noise Control in HVAC Systems

**SPEAKER:** Rachel Murray, P.E.  
Charles M. Salter Associates

**DETAILS:** Held at the offices of Charles M. Salter Associates, 130 Sutter Street, Suite 500, San Francisco. (Located two blocks from the Engineers Club.)

We were delighted that so many attended our November Chapter meeting. This year has had a great beginning because of all of you who have been volunteering your time, energy and expertise. And our Chapter activities are just starting. Don't miss the chance to get involved a little or a lot. We'll all enjoy and benefit from the fruits of your efforts.

I hope most of you were able to meet some of the students who joined us from Cal Poly in November. Richard Gistelli, their sponsor, is working hard to ensure that Cal Poly continues to add quality folks to our industry. If you have extra copies of equipment catalogues, he can use them. He would even like catalogues that may be 2 - 3 years old. He is also looking for future locations for field trips. Also, if you will be near Cal Poly on a day that the Club meets, he would like to invite you to talk with the students. This would be a good opportunity to encourage them to join us.

Don't miss our December Chapter meeting. The Energy and Technical Affairs Committee has another pre-meeting seminar planned. This one will be on ozone and magnetic treatments for cooling towers. The seminar starts at 5:45 p.m. Be sure to be there EARLY. Last month's session drew a standing-room-only crowd.

# ASHRAE Student Job Fair

January 26, 1992  
2:00 p.m. - 5:00 p.m.  
Disneyland Hotel  
Anaheim, CA

(Held in conjunction with ASHRAE's Winter Meeting & Exposition)

All students are encouraged to participate.

All companies who are interested in meeting students must reserve booth space in advance.

Contact the Education Manager at ASHRAE Headquarters (404) 636-8400 for more information.

**ATTENTION STUDENTS**

Our chapter will be offering two scholarships this year:

- The Golden Gate Chapter - \$750.00
- Eric Thor Andresen Memorial - \$500.00

For details and applications, please contact the Scholarship Committee Chair:

Daniel B. Reiter  
Montgomery & Roberts  
11090 San Pablo Avenue, Suite 350  
El Cerrito, CA 94530  
(510) 232-1541

Gail Brager, UC Berkeley, and Amhad Ganji, San Francisco State, will also have applications available. Applications are due February 19, 1992 and scholarships will be awarded at the April meeting. Good Luck!

**THE MARBLE DRAW**

Next month's starting pot: \$445.00+  
Odds: 7.69%  
Black marbles remaining: 12

**NEW GOLDEN GATE MEMBERS**

Please welcome the following members to our Chapter:

- David Crum, Applied Air Filters
- James Lynn, Marelich Mechanical
- Jack Lofy, Comm Air
- Ron Miketa, Victaulic of America
- Donald Ford, Pace Associates
- Henry Razouk, Henry Razouk & Associates
- James L. Davis, P.E., C.P.E., Consultant
- Alex Morse, Genentech

**HONOR ROLL**

We are still scheduling the Honor Roll for this year and seeking supporters of the Fog Dispenser. The cost is \$100 for one month of "the bottom 1/3 of the front page." If interested, contact Timothy Provo at (510) 758-6806.

**EMPLOYMENT OPPORTUNITIES**

**ASSISTANT MANAGER**

Position open for an assistant manager of the Plan and Specifications Department. Seeking a self-motivated individual, preferably a graduate engineer, with some experience in the air conditioning field. The ideal candidate must have excellent communication skills. Send resume in confidence to:

Edward B. Ward & Company  
337 Roebing Road  
South San Francisco, CA 94080  
Attn: Richard Frenzel

**MECHANICAL ENGINEER**

An electrical and mechanical engineering consulting firm is looking for a registered mechanical engineer to run the mechanical engineering department in their San Francisco office. Project engineer level experience required for the following types of work: Health Care, Biotechnical Labs and Commercial Office Space. Excellent opportunity for an ambitious and outgoing individual. Please send resume to:

Randall Lamb Associates  
235 Montgomery Street, Suite 941  
San Francisco, CA 94104  
Attn: Chris Lloyd

**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
Eric Tinglof (415) 467-8680

MAIL, FAX or PHONE NEWS TO:

FOG DISPENSER  
Rachel Murray, Editor  
c/o Charles M. Salter Associates, Inc.  
130 Sutter St., Suite 500  
San Francisco, CA 94104

Telephone (415) 397-0442  
FAX (415) 397-0454

**FOG DISPENSER DEADLINES**

Meeting Dates	Copy Deadlines
December 5, 1991	November 20, 1991
January 9, 1992	December 20, 1991
February 6, 1992	January 22, 1992
March 5, 1992	February 19, 1992
April 2, 1992	March 18, 1992
May 14, 1992	April 22, 1992
June 4, 1992	May 22, 1992

Published monthly, October through June, by the GOLDEN GATE CHAPTER OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107

**1991 - 1992 Officers**  
Barbara S. Dilts ..... *President*  
Frances N. Scholl ..... *President - Elect*  
Richard Leao ..... *Secretary*  
Richard Paillon ..... *Treasurer*

**Board of Governors**  
Gail Brager Roy Gifford  
Tom Reinarts

MINUTES OF THE MEETING  
NOVEMBER 7, 1991

1. Meeting called to order at 7:30 p.m. by President Barbara Dilts. President Dilts recognized the students attending the meeting and commented that attendance was close to a record. Self-introductions followed.
2. Minutes of the October 3, 1991 meeting were approved.
3. Barbara Dilts recognized and welcomed back Mr. Robert Voelz and Mr. Frank Gonden after serious illnesses.
4. Mark Hydeman reported that the first pre-meeting technical seminar sponsored by the Energy and Technical Affairs Committee was held tonight and was a success. He encouraged attendance and reported that upcoming topics would be published in the Fog Dispenser.
5. Mike Green called for members to volunteer to review technical papers prior to publication. Application forms and instructions are available for those interested.
6. Dennis Heller announced that there will be a Cal Poly Alumni "get-together" at Vann Engineering in Concord on November 8, 1991. He is available to answer any questions.
7. Education Committee Chairperson, Debi May, announced that she had forms available for those students who wished to participate in the "Student Competition" for ASHRAE. She also introduced Richard Gistelli from Cal Poly and presented him with a check for \$1000.00 from the Golden Gate Chapter for the Cal Poly Workshop fund. The check was graciously accepted.
8. Thomas White recognized Pacific Gas and Electric for contributing \$10,000.00 to ASHRAE Research Program.
9. It was decided that the back cover of the "1992 Roster" will be left blank.
10. President-Elect Fran Scholl introduced our guest speaker, Mr. Robert Swezey, who provided us with an interesting, informative and humorous discussion of clean rooms.
11. The meeting was adjourned at 9:30 p.m.

**REMINDER:** Please get dinner reservations in early for December meeting and indicate whether you plan to attend the January field trip.

**FUTURE PROGRAMS:**

January 9: Noise Control in HVAC Systems (Field)  
February 6: Fire Dampers, New Code Issues

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX  
FOR THURSDAY, DECEMBER 5, 1991

FAX TO: FRAN SCHOLL - PEN AIR - (415) 369-2378

Please make 3 reservation(s). Following are the names of those who will attend:

DICK CHARLES \_\_\_\_\_  
BOB BRAUN \_\_\_\_\_  
PAUL O'NEIL \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FAX EARLY! Call Fran at (415) 369-1880 if you have any last minute changes in plans. Please cancel your reservation if you cannot attend the meeting.

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

SIGNATURE: Rell a Chlu  
COMPANY: CHARLES & BRAUN PHONE: 415. 442 -0110

ALSO:

PRELIMINARY RESERVATION FOR UPCOMING FIELD TRIP  
ON THURSDAY, JANUARY 9, 1992

Please make 3 preliminary reservation(s). The caterer needs an estimate of the number of attendees. If you have any questions, please call Rachel Murray, Charles M. Salter Associates, at (415) 397-0442.

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 Richard Paillon    TREASURER

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AUDITING	John Lewis	MEMBERSHIP	Eric Tinglof
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EDUCATION	Debi May	RESEARCH PROMOTION	Dennis Heller
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HONOR ROLL	Tim Provo		



Golden Gate Chapter  
 ASHRAE  
 370 Brannan Street  
 San Francisco, CA 94107

SAN FRANCISCO, CA  
 - PM  
 OCT 29  
 1991  
**RECEIVED**  
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55 b  
 Richard A. Charles  
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 150 Spear Street  
 94105 San Francisco, CA



# Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXXI • NUMBER 2

NOVEMBER 1991

**MEETING NOTICE**

DATE: Thursday, November 7, 1991  
 SOCIAL HOUR: 5:30 p.m.  
 PRE-MEETING SEMINAR: 5:40 p.m.  
 DINNER: 6:30 p.m.  
 LOCATION: Engineers Club  
 160 Sansome Street, 17th Floor  
 San Francisco, CA  
 COST: \$25.00  
 NOTE: Please phone or fax your dinner reservation to Fran Scholl by noon on Tuesday. A fax form is enclosed for your convenience.  
 PHONE: 369-1880  
 FAX: 369-2378

**NOVEMBER PROGRAM**

PROGRAM: "Designing Clean Rooms for the Electronics and Bio-Tech Industries"  
 SPEAKER: Robert Swezey, President  
 Air Filter/Control, Inc.

The following topics will be discussed: clean room standards, classes, design approaches for each class and type of clean room, upgrades, and certification and/or validation procedures. This will be an informative talk for all.

Fran Scholl

**PRE-MEETING SEMINAR**

PROGRAM: "VAV Laboratory Control Systems"  
 (For more information, see page 2.)  
 SPEAKER: Charlie Anderson  
 Landis & Gyr Powers

## RMR/FLAME AIR INC

REPRESENTING A FULL LINE OF GAS-FIRED EQUIPMENT PLUS  
CUSTOM AIR HANDLERS, TOWERS,  
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WITH OFFICES IN BELMONT AND SACRAMENTO

BEST WISHES TO A.S.H.R.A.E. FOR AN EVENT-FILLED YEAR



Our November speaker will be Bob Swezey from Air Filter/Control. If you remember Bob's presentation to our Chapter several years ago, you know that this will be a very informative and enjoyable program.

In addition, Mark Hydeman and the Energy and Technical Affairs Committee is planning the first of a series of pre-meeting seminars. Be sure not to miss this session on "VAV Laboratory Control Systems."

The following ROSTER deadlines are approaching:

- To be included in this year's ROSTER, your Chapter dues must be paid by the November meeting. (You're always welcome to attend the meetings, but we'd sure like you to become a Chapter member.)
- Donations for "recognition" space are due to Jim Taylor by November 15. Please see insert.

Be sure to call or fax your dinner reservations to Fran. We want to be sure that everyone gets to enjoy dinner. See you at the November meeting.

Barbara Dilts

VAV LABORATORY CONTROL SYSTEMS

On November 7, the committee for Energy and Technical Affairs is sponsoring the first of a series of technical seminars to be held before each ASHRAE meeting. The 25 minute seminars will be held in the Library of the Engineers Club.

This month, the focus will be on the major issues associated with the design of laboratories with fume hoods and various control methods. A discussion period will follow.

The success (and continuation) of this program depends on your participation and support. Refreshments will be provided on a first come basis. If you have further questions or would like to supply vendor information, please contact Mark Hydeman (957-1977) or Ernie French (483-1000).

Welcome to all new Chapter members who have joined us recently or, perhaps, attended last month's Membership Night. We hope to be seeing you often.

Congratulations to a special group who have been members of ASHRAE for at least 30 years and have now become Life Members:

- James L. Breese      Walter H. Schneider
- John V. Rudy        G. Robert Voelz

Special congratulations to Dick Charles, elected to Fellow for having "attained distinction in the arts of our Society."

Thank you all for your many years of service to the Society. We are proud to have you as members of the Golden Gate Chapter.

Lots will be happening at our November meeting. The Cal Poly students who will join us as part of their annual Bay Area field trip. Come meet the folks who will be our future colleagues. If you can sponsor a student dinner, please let Fran know.

ASHRAE CRC - SACRAMENTO SCHEDULE

Mark your calendars for Region 10 CRC in Sacramento as follows:

Wednesday, May 6, 1992:  
Registration  
Golf and Tennis  
Awards Dinner

Thursday, May 7, 1992:  
Registration  
Seminars: CFC's  
                  Indoor Air Quality  
Executive Session  
Welcome Party

Friday, May 8, 1992:  
Caucus Breakfast  
Business Meeting -- 1st session  
Presidents Luncheon  
Workshops  
Dinner Dance aboard the *Spirit of Sacramento*

Saturday, May 9, 1992:  
Round Table Breakfast  
Chapter Operations Workshop  
Awards Luncheon  
Business Meeting -- 2nd session

Rob Bellizzi  
Publicity Chairman

ASHRAE CENTENNIAL CELEBRATION

Tom White is on the Society Centennial Celebration Committee. The Committee plans to spend about \$60,000 for Centennial memorabilia with the hope of earning about \$285,000 from the sales. Tom's concern is that members will not purchase enough memorabilia to cover the initial expenses. As you may recall, our Chapter sponsored a CRC motion several years ago to limit Society expenses on the Centennial Celebration. The motion was passed at CRC.

Please contact Tom (964-4024) with your feelings on this issue. He would like to be able to represent your concerns to the Committee.

THE MARBLE DRAW

Next month's starting pot:      \$390.00+  
Odds:                                      7.14%  
Black marbles remaining:        13

NEW GOLDEN GATE MEMBERS

Please welcome the following members to our Chapter:

- Richard Caldwell, Caldwell Construction
- Steve Kreta, California Maritime Academy
- John Small, Keller & Gannon

HONOR ROLL

We are still scheduling the Honor Roll for this year and seeking prospects who wish to support the Fog Dispenser. The cost for one month, "the bottom 1/3 of the front page," is \$100.00. We have a few openings left for fiscal year 91 - 92. If you are interested, contact Timothy Provo at (510) 758-6806.

EMPLOYMENT OPPORTUNITIES

SALES ENGINEER/DEPT. MANAGER - ATC/BAS

The Trane Company, a leading manufacturer of building management systems, currently has an outstanding opportunity within our Automation Systems Division for a sales engineer with department manager capability. The selected professional will provide sales support to our efforts to market our BAS and Integrated Comfort Systems. A minimum of five years of successful experience as a sales engineer or branch manager in the commercial automatic temperature control industry is required. We offer financial incentives, a very stimulating technical environment, and career growth potential. The position will be based in Sunnyvale, CA.

For consideration, send your resume to or call:

THE TRANE COMPANY  
58 SO. LINDEN AVENUE  
SO. SAN FRANCISCO, CA 94080  
ATTN: DON DRUYANOFF  
(415) 875-9300

<p>DO YOU KNOW A PROSPECTIVE NEW MEMBER?</p> <p>Contact Membership Chair: Eric Tinglof (415) 467-8680</p> <p>MAIL, FAX or PHONE NEWS TO:</p> <p>FOG DISPENSER Rachel Murray, Editor c/o Charles M. Salter Associates, Inc. 130 Sutter St., Suite 500 San Francisco, CA 94104</p> <p>Telephone (415) 397-0442 FAX (415) 397-0454</p>	<p><b>FOG DISPENSER DEADLINES</b></p> <table border="1"> <thead> <tr> <th>Meeting Dates</th> <th>Copy Deadlines</th> </tr> </thead> <tbody> <tr> <td>November 7, 1991</td> <td>October 23, 1991</td> </tr> <tr> <td>December 5, 1991</td> <td>November 20, 1991</td> </tr> <tr> <td>January 9, 1992</td> <td>December 20, 1991</td> </tr> <tr> <td>February 6, 1992</td> <td>January 22, 1992</td> </tr> <tr> <td>March 5, 1992</td> <td>February 19, 1992</td> </tr> <tr> <td>April 2, 1992</td> <td>March 18, 1992</td> </tr> <tr> <td>May 14, 1992</td> <td>April 22, 1992</td> </tr> <tr> <td>June 4, 1992</td> <td>May 22, 1992</td> </tr> </tbody> </table>	Meeting Dates	Copy Deadlines	November 7, 1991	October 23, 1991	December 5, 1991	November 20, 1991	January 9, 1992	December 20, 1991	February 6, 1992	January 22, 1992	March 5, 1992	February 19, 1992	April 2, 1992	March 18, 1992	May 14, 1992	April 22, 1992	June 4, 1992	May 22, 1992	<p>Published monthly, October through June, by the GOLDEN GATE CHAPTER OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107</p> <p><b>1991 - 1992 Officers</b> Barbara S. Dilts .....President Frances N. Scholl .....President - Elect Richard Leao .....Secretary Richard Paillon .....Treasurer</p> <p><b>Board of Governors</b> Gail Brager                      Roy Gifford Tom Reinarts</p>
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MINUTES OF THE MEETING  
OCTOBER 3, 1991

1. Meeting called to order at 7:35 p.m. by President Barbara Dilts. Self-introductions followed.
  2. Minutes from the last meeting were approved.
  3. Barbara Dilts reported that Walter Schneider, G. Robert Voelz, James Breese, and John Rudy are now Life Members of ASHRAE and that Dick Charles is an ASHRAE Fellow.
  4. Dick Charles reported that Bob Voelz is currently doing well.
  5. Membership Chairman, Eric Tinglof, encouraged new members to join the Golden Gate ASHRAE. He reminded members to pay their national and local dues promptly. He also indicated that he needs volunteers to co-chair.
  6. Sukhdev Mathaudhu was introduced next. He said the purpose of his visit was to encourage people to get involved in membership committees. He stated that the Southern California and the Golden Gate chapters had the largest student membership in Region 10. He asked that we all encourage students to join ASHRAE. He indicated that, as of September 1991, there were 238 members delinquent in their society dues.
  7. Committees: Mark Hydeman, Energy & Technical Affairs Committee. There will be five technical seminars for the coming year. The meeting time will be between 5:45 & 6:45 p.m.
  8. There is a field trip planned on May 14 to the PG & E Facility.
  9. Please contact Mark Hydeman if interested in joining a committee.
  10. Ernie French stated that the November program technical session would be on VAV Lab Fume Hood Controls and will start at 5:45 p.m.
  11. Tom White suggested that we all review the article in the Sunday Examiner Business Section of September 29 regarding "Sick Building Syndrome."
  12. Tennis Committee: Wayne Humphrey, Tennis Chairman, awarded the tennis trophy to Jim Mascarella, the first place winner.
  13. Two letters from the Andresen family were read to the members. The letters thanked the Golden Gate ASHRAE Chapter for the scholarship fund for their son, Eric.
  14. Fran Scholl introduced our guest speaker, Mike Dillon. The subject was ammonia refrigeration. Mike gave a very informative talk and suggested that we remain aware of ammonia refrigeration codes and become involved wherever we can.
  15. Meeting adjourned at 9:20 p.m.
- Reminder: Please get dinner reservations in early for our November meeting.

FUTURE PROGRAMS:

- December 5: Test & Balance, Start-up Trouble Shooting  
January 9: Noise Control in HVAC Systems (Field)  
February 6: Fire Dampers, New Code Issues

ASHRAE GOLDEN GATE CHAPTER -- STUDENT NIGHT

DINNER RESERVATION FAX  
FOR THURSDAY, NOVEMBER 7, 1991

FAX TO: FRAN SCHOLL - PEN AIR - (415) 369-2378

Please make \_\_\_\_\_ reservation(s). Following are the names of those who will attend:

_____	_____
_____	_____
_____	_____
_____	_____
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FAX EARLY! Call Fran (369-1880) if you have any last minute changes in plans. Please cancel your reservation if you cannot attend the meeting.

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

STUDENT SPONSORSHIP

- I would like to provide interested students with the opportunity to attend our meetings and am willing to sponsor \_\_\_\_\_ student(s) at \$25 each.
- I would like to make a long-term commitment and provide the opportunity for \_\_\_\_\_ student(s) to attend ASHRAE meetings at \$25 each, up to \_\_\_\_\_ per meeting and/or a total of \_\_\_\_\_ per year.
- \_\_\_\_\_ I would be interested in a discount for purchasing Chapter meeting dinners in advance.
- Here's another idea: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

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MARBLES GAME  
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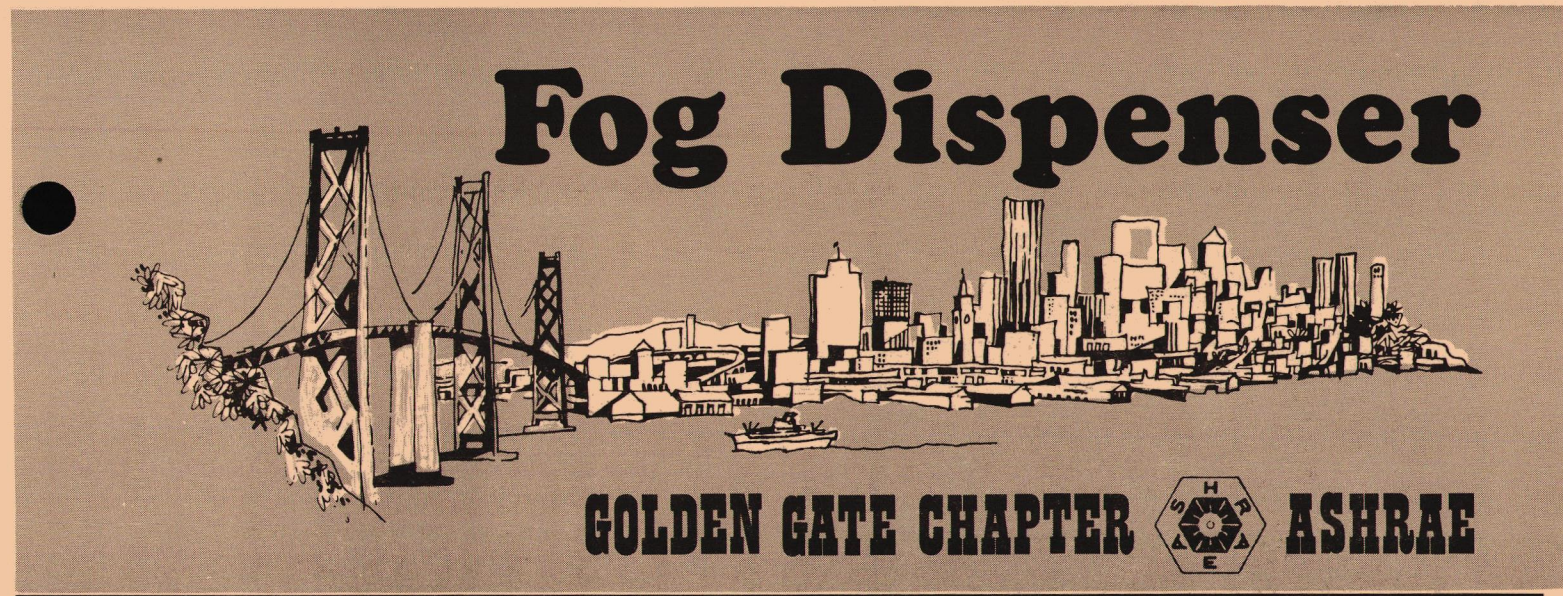
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VOLUME XXX1 NO. 1

OCTOBER 1991

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 DINNER: 6:30 p.m.  
 LOCATION: Engineers Club  
 160 Sansome Street  
 17th Floor  
 San Francisco, CA  
 COST: \$25.00  
 NOTE: Please phone or fax your dinner reservation to Fran Scholl by noon on Tuesday. A fax form is enclosed for your convenience.  
 PHONE: 369-1880  
 FAX: 369-2378

OCTOBER PROGRAM

Our first meeting is "Membership Night." Bring a friend or colleague who's interested in joining our chapter.  
 PROGRAM: "Ammonia Refrigeration Revisted"  
 SPEAKER: Michael Dillon of Dillon Consulting Engineers, Inc., Long Beach, CA.  
 Mike is deeply involved in ASHRAE code change committees and chair of two ad hoc committees for ICBO.

Hear the latest happenings with ammonia users and prospective users; the aims, actions, and attitudes of the various code, building inspection and fire department groups.  
 The TGO (Toxic Gas Ordinance) in Santa Clara County, which is now Law, will have a serious impact on the ammonia market. Don't miss this update.

Fran Scholl

KENT M. LIM & COMPANY, INC.  
 Sheetmetal & Mechanical Contractor  
 License No. 471450



KENT LIM  
 PHIL HARRIS  
 TONY FUNG  
 SAM KALSTAD  
 1260 Egbert Avenue  
 San Francisco, CA 94124

PEGGY FORCELLINI  
 MARTHA KRAFT  
 SHIRLEY LIM  
 LYN PETERSON  
 (415) 822-1232  
 FAX (415) 822-6437



The Board, with our new members Gail Brager and Roy Gifford, has been meeting through the summer to prepare for the year ahead. In addition, the various Committee Chairs have been planning events and activities, learning new responsibilities, and adding people to their committees. Now is a great time to become involved with an ASHRAE committee. Contact the Committee Chair or call any of the Board members. You will be contributing to our Chapter and you will surely have a good time.

The Board and I are looking forward to working with all of you this coming year. See you SOON.

Barbara Dilts

**OCTOBER MEMBERSHIP NIGHT**

The October meeting will be our Chapter's membership night. Sukhdev Mathaudhu, Vice Chairman, Region X, Membership Promotion will speak on the ongoing challenge of keeping and attracting members at the local and society levels. Please ask a prospective new member to join us at the first meeting.

Eric Tinglof

October already! Seems like only last week that Tom Reinarts turned over the Chapter gavel and assumed that smile of wisdom, experience and accomplishment that all Past Presidents seem to have. Tom, you've set an excellent example that all of us on the Board will try to uphold. Thanks for all your work.

Fran Scholl, our President Elect, and Lew Brooks, our Refrigeration Chair have a very interesting program planned on ammonia refrigeration, information we all should be aware of. Be sure you call Fran or FAX your reservations before Tuesday noon.

Our first meeting of the year is also Membership Night. This is an excellent time to bring a friend or colleague to our meeting. If they join now, they won't miss any of the activities and events that have been planned for the coming year.

**HONOR ROLL**

It's a new year and a new set of mailings for the "Fog Dispenser." We are now scheduling for the Honor Roll, and are looking for prospects who wish to support the Fog Dispenser. The cost for one month, "the bottom 1/3 of the front page," is \$100.00. We have a few openings left for fiscal year 91 - 92.

If you are interested contact Timothy Provo at (510) 758-6806 to get on the list.

Timothy E. Provo

**SPRING GOLF TOURNAMENT**

The tournament was a great success this spring. Here are the winners. Stay in practice for next spring.

First Place Team: RMR/Flame Air Inc.

Second Place Team: Felix Sheet Metal

Third Place Teams: Air Filter Control  
(TIE) Norman Wright Co.

Highest Score: Hawk Engineers

Longest Drive: Jim Mascarella  
Western Allied

Closes to the Pin: Nick Huetter  
Trane

Longest drive (Women): Linda Elkins  
Western Allied

Mark Luckes  
Chair, Golf

**MECHANICAL ENGINEER**

Mechanical Engineering Position in Mechanical/Electrical Engineering Consulting firm. Registration preferred. Design experience required in HVAC and Plumbing with a strong emphasis on hospital work. Work environment requires experience in Word Perfect, Symphony/Lotus, Auto Cadd and Trace 600.

Send Resume and Letter of Introduction to:

ROGERS & ASSOCIATES, INC.  
1767 TRIBUTE ROAD, SUITE "J"  
SACRAMENTO, CALIFORNIA 95815  
(916) 920-5965

**MECHANICAL ENGINEERS - HVAC**

Experienced engineers wanted to work with consulting firms on various projects. Ideal candidate will have 5+ years of experience, with a California P.E. Positions are temporary to permanent, salary commensurate with experience. Please call Steve Guerzon at (415) 341-0947 or send resume in confidence to:

DSI, DESIGN SERVICES INC.  
177 BOVET ROAD, SUITE 600  
SAN MAETO, CA 94402



**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680

**MAIL, FAX or PHONE NEWS TO:**

FOG DISPENSER  
Rachel Murray, Editor  
c/o Charles M. Salter Association  
130 Sutter St., Suite 500  
San Francisco, CA 94104

Telephone (415) 397 - 0442  
FAX (415) 397 - 0454

**FOG DISPENSER DEADLINES**

Meeting Dates	Copy Deadlines
November 7, 1991	October 23, 1991
December 5, 1991	November 20, 1991
January 9, 1992	December 20, 1991
February 6, 1992	January 22, 1992
March 5, 1992	February 19, 1992
April 2, 1992	March 18, 1992
May 14, 1992	April 22, 1992
June 4, 1992	May 22, 1992

Published monthly, October through June, by the GOLDEN GATE CHAPTER OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107

**1991 - 1992 Officers**

Barbara S. Dilts ..... President  
Frances N. Scholl ..... President - Elect  
Richard Leao ..... Secretary  
Richard Paillon ..... Treasurer

**Board of Governors**

Gail Brager Roy Gifford  
Tom Reinarts

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX

FAX TO: FRAN SCHOLL - PEN AIR -- (415) 369-2378

Please make \_\_\_\_\_ reservations. Following are the names of those who will attend.

<u>DICK CHARLES</u>	_____
<u>BOB BRAUN</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FAX EARLY! Call Fran (369-1880) to cancel your reservations if you can't attend the meeting.

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

Signature: RLA chln

Company: CHARLES & BRAUN Phone: 442-0110

## MINUTES OF THE MEETING

JUNE 6, 1991

1. Meeting called to order at 7:45 p.m. by President Tom Reinarts. Self-introductions followed.
2. No minutes from last meeting to approve.
3. CRC Region X, May 1991:  
Barbara Dilts
  - a. Chapter bylaws will be reviewed every 5 years by Society.
  - b. Motions passed by Region X:
    - No winter meeting in NYC.
    - ASHRAE will take more of a role in model codes.
  - c. Next year's CRC will be in Sacramento on Thursday, Friday, and Saturday, May 7-9.
  - d. You don't need to be an officer to participate.
4. Roy Gifford sent a letter requesting Research Promotion donations to each of us. Tom Gilbertson is Regional Chair for Research Promotion.
5. The Tennis Tournament is June 7th. How did Dave Rifkin get in the Powder Puff group? The perpetual trophy will be awarded in October.
6. The Engineers Club is offering memberships to ASHRAE members.
7. Frank Mayhew:
  - a. Temperature Controls course starts September 10th through U.C. Berkeley.
  - b. Cal Poly endowment is official. \$18,000 is currently in. They are still accepting pledges and donations.
8. Lew Brooks:  
Refrigeration Concepts will be offered through U.C. Berkeley extension. Starts September 11th.
9. After 7 years of work, we have a set of Bylaws that meets the needs of our Chapter and Society. Carl Jordan asked that the Chapter adopt the Bylaws as mailed to each member two weeks ago. The motion passed unanimously. Where's Tom White for this momentous occasion?
10. Tim Provo conducted the Marble Game and Raffle.
11. Roy Gifford received a certificate of appreciation for his service as Research Promotion Chair.
12. Eric Tinglof received the CRC award for 2nd place for Membership Promotion in 1989-90.

13. We have 90% of the active Past Presidents here tonight.
14. Dick Charles will be President Elect of Society this year. He noted that our Chapter has a good mix of all aspects of our Industry. We derive a lot of benefits from the ASHRAE meetings.
15. Tom Reinarts presented Certificates of Appreciation to:

Jack Kniveton	Paul Robinson
Brad Gustafson	Bob Braun
Bob Phillips	Tim Provo
Eric Tinglof	Eric Ensenat
Lew Brooks	Roy Gifford
Jim Taylor	Pete Johnson
Wayne Humphrey	

Plaques were presented to:

Dennis Thompson	- Technical Seminar
Dave Rifkin	- Product Show
Chris Noll	- Newsletter Editor
Gail Brager	- Education
Dan Reiter	- Scholarship
Carl Jordan	- Bylaws
Mark Luckes	- Golf
John Lewis	- Audit

Thanks for your support!

16. Tom also gave special thanks to Ellen Pierce for all her help and support.
17. Gino Colacchia, Past President, noted that there are many indirect benefits for serving the ASHRAE Chapter. Those who haven't gotten involved in the past should now do so. He then presented Tom Reinarts with a plaque and the Past President's Pin.
18. Tom Reinarts passed the Chapter gavel to Barbara Dilts.
19. Barbara invited all to join us and help in some capacity. Have a good time with us. Call Barbara or the Committee Chair to volunteer to work with a committee.
20. Meeting adjourned at 9:15 p.m.

## FUTURE PROGRAMS:

November 7:	Clean Room Design Applications
December 5:	Test & Balance, start-up trouble shooting
January 9:	Noise control in HVAC system (field)
February 6:	Fire dampers new code issues

ASHRAE GOLDEN GATE CHAPTER 1989-1990

CHAPTER OFFICERS

GINO COLACCHIA PRESIDENT  
 TOM REINARTS PRESIDENT-ELECT  
 BARBARA DILTS SECRETARY  
 FRAN SCHOLL TREASURER

BOARD OF GOVERNORS

STEVE TAYLOR  
 RICHARD LEAO  
 SHERMAN BROWN

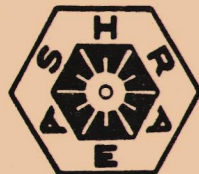
COMMITTEE/CHAIRPERSONS

AUDITING  
 CODE  
 EDUCATION  
 E.J.C.  
 ENERGY CONSERVATION  
 FOG DISPENSER  
 GOLF  
 GOVERNMENT AFFAIRS  
 HISTORIAN  
 HONOR ROLL  
 MEMBERSHIP  
 PROGRAM

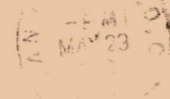
JOHN LEWIS  
 STEVE TAYLOR  
 GAIL SHILLER  
 TOM REINARTS  
 TOM MCKEWAN  
 CHRISTINE NOLL  
 OPEN  
 BOB BRAUN  
 BOB PHILLIPS  
 MATT GOFF  
 ERIC TINGLOF  
 TOM REINARTS

SEMINAR  
 RAFFLE  
 RECEPTION  
 RESEARCH PROMOTION  
 ROSTER  
 S.F. ADMIN CODE  
 SCHOLARSHIP  
 TENNIS  
 PUBLICITY  
 PRODUCT SHOW  
 REFRIGERATION

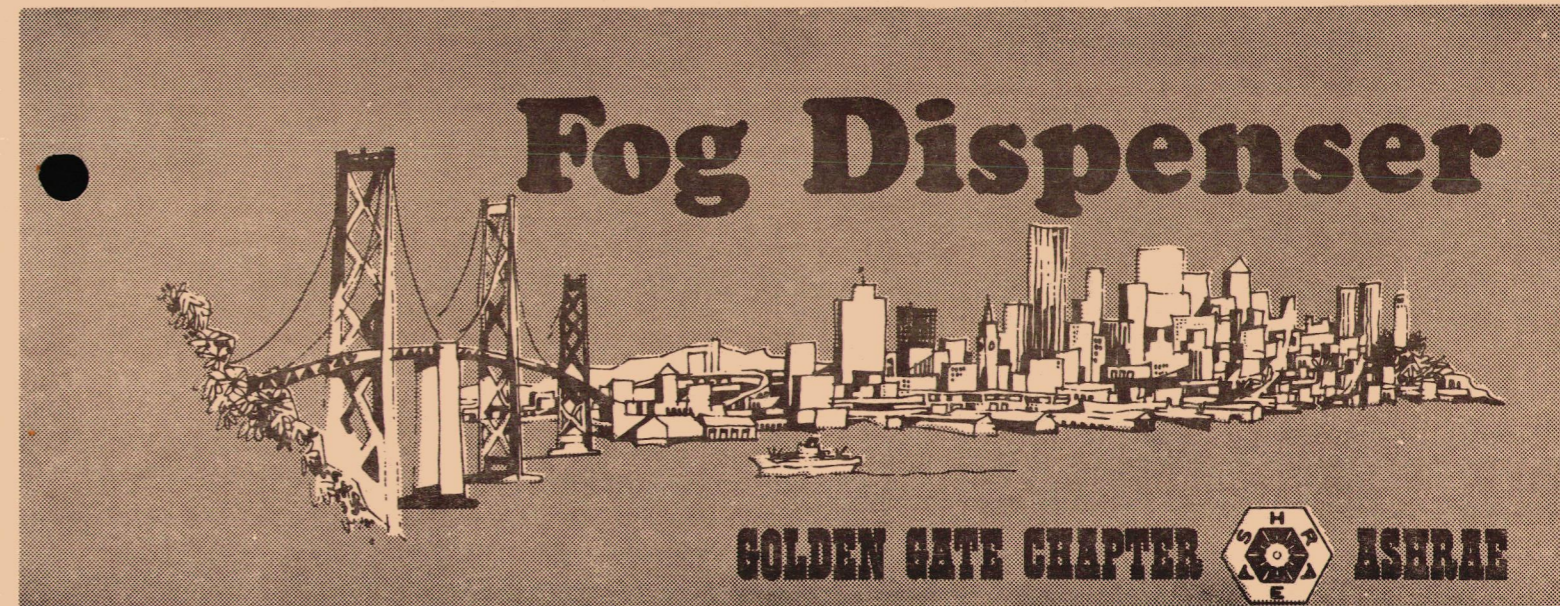
BEN SUN  
 TIM PROVO  
 SHAN CONRY  
 ROY GIFFORD  
 JIM TAYLOR  
 PETE JOHNSON  
 DAN REITER  
 JACK KNIVETON  
 LISA HOLMES  
 DAVE RIFKIN  
 LEWIS BROOKS



Golden Gate Chapter  
 ASHRAE  
 370 Brannan Street  
 San Francisco, CA 94107



Barbara Dilts  
 2425 Acton Street  
 Berkeley, CA 94702



# Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIX No.9

JUNE 1990

MEETING NOTICE

DATE: THURS., JUNE 7, 1990  
 SOCIAL HOUR: 5:30 P.M.  
 DINNER: 6:30 P.M.  
 LOCATION: ENGINEERS CLUB  
 160 SANSOME STREET  
 SAN FRANCISCO, CA  
 POST: \$25.00 (INCLUDES DESSERT)  
 NOTE: PLEASE PHONE OR FAX YOUR  
 DINNER RESERVATION TO TOM  
 REINARTS AT KELLER & GANNON  
 BY NOON ON TUESDAY AT THE  
 LATEST. A FAX FORM IS  
 ENCLOSED FOR YOUR  
 CONVENIENCE.  
 PHONE: 621-1199  
 FAX: 864-3681

JUNE PROGRAM

The June meeting will bring to a close the 1989-90 fiscal year. The theme of our June meeting is current "Membership." We will not have a formal program but will be acknowledging the contributions and accomplishments of our members. We will also be honoring our past Chapter Presidents and our companions. You are encouraged to bring your companion to the meeting. It should prove to be a lot of fun. Please get your reservations in early. The club is planning a special meal for us--complete with dessert!

Tom Reinarts

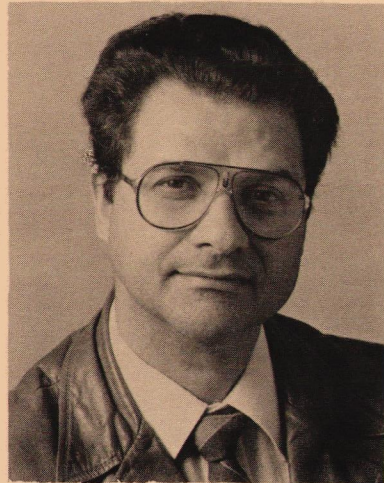
HONOR ROLL

NORMAN WRIGHT MECHANICAL EQUIPMENT CORPORATION  
 2398 JERROLD AVENUE  
 SAN FRANCISCO, CA 94124  
 TEL: (415) 777-5333 FAX: (415) 641-4413

Jack Kniveton

Rich Leao	Jim Plakos
Larry Kent	Sal Giglio
Celina Reagan	Shan Conry
Linus Quinlan	Mike Cadoo

**PRESIDENT'S MESSAGE**



Our June meeting will be the last meeting for our Chapter year. We will dedicate the meeting to the installation of new officers, honors and awards, and past presidents. Following our tradition, we would like you to invite your companion to attend with you.

I would like to thank each one of you for helping me to serve as your president. The success of our Chapter is attributable to the willingness of its members to serve one another. This year we had 26 members share various committees, that's great. I would also like to thank the members that served within each committee.

I am pleased to announce the results of our elected board members for next year. Tom Reinarts will be our next President, Barbara Dilts will be President Elect, Fran Scholl will serve as Secretary, Steve Taylor will be Treasurer, Rich Leao, Rich Paillon, and Gino Colacchia will serve on the Board of Governors. The installation of officers will take place at our June meeting. Their term of office shall begin July 1st.

Our Chapter will not meet the months of July, August, and September. Our first meeting for the 1990-91 chapter year will be held at the Engineers Club, Thursday, October 4th. The Board will continue to meet through the summer months in preparation for next year's activities. Barbara Dilts will be in charge of programs for next year. Please contact Barbara and give your suggestions. We are also interested in re-establishing mini workshops before the main meetings. We need a volunteer to chair this position.

Jack Kniveton has organized our Tennis Tournament, which will be held Friday, June 8th, at the Harbor Bay Club, Alameda. Contact Jack or Wayne Humphrey if you plan to attend at this late date.

"Research Promotion" - Have you made a contribution? This is your last opportunity. Please contact Roy Gifford and mail him your donation. Thank you for your support.

Well, another year has passed for the Golden Gate Chapter. The position of President was very challenging and rewarding. Thank you for your contribution to our Chapter. Let's make our June meeting a time of celebration and fellowship.

Gino Colacchia  
President

**A WARM RESPONSE TO COOL STORAGE**

The ASHRAE Technical Seminar was very successful, with 90 people attending. Special thanks to all of those who participated!

Ben Sun  
Technical Seminar Chairman

**NEW START-UP**

Environmental Support Products, Inc. (ESP) is a Manufacturer's Representative specializing in computer room air conditioning equipment, custom-built air handlers, power conditioning and distribution, 415 Hz frequency converters and UPS systems. The principals of ESP are Ken Horsfall, Steve Tharp and Dick Dundas. The address is:

23785 Cabot Blvd., Suite 312  
Hayward, CA 94545  
Phone: (415)785-2107  
FAX: (415)785-7934

**ENGINEERS AVAILABLE**

The Jewish Vocational Service, a non-sectarian, no fee placement agency, helps Soviet emigres find jobs in this country. Many of the emigres are HVAC/mechanical engineers with years of experience and technical knowledge.

These soviet engineers are well-qualified for engineer or drafting positions where they will have an opportunity to become familiar with local regulations and procedures. Through the San Francisco Private Industry Council, JVS can offer employers financial incentives for hiring individuals via on-the-job training contracts. Up to one-half of the trainee's salary will be reimbursed for the duration of the training period. This is a wonderful opportunity to hire and train new employees with the help of financial incentives! JVS' Employer Development Specialist, Sandra Shuhert, will provide information about JVS services and client referrals. She will talk to employers about job listings and referring qualified candidates. No fee will be charged for listing, referrals or placements. Interested employers can call her at (415)391-3595.

**NEW MEMBERS**

Please welcome the following new members to our Chapter:

- Bob Polizzi
- Steven Davis
- California Hydronics
- National Air Balance
- Eric Tinglof
- Membership Chairman

**CHAPTER ETA REPORT**

Society has directed the Energy and Technical Affairs (ETA) Committee to assist in collecting a data base of PEER REVIEW PARTICIPANTS. The number and complexity of Symposium and Technical Papers as well as Handbook Chapters makes this data base of great importance. The ETA Committee requests that you volunteer your expertise to help Society. With 50,000+ membership we should have at least as many participants in this data base. Users, Installers, Manufacturers, Salesmen, Professors and Engineers are all needed. You do not need to know everything on a subject, none of us do. Please fill out an ASHRAE BIOGRAPHICAL RECORD, if required, and an ASHRAE PEER REVIEW PARTICIPANT form. If a paper needing your expertise surfaces you may be contacted, then again you may not, however your availability is of prime importance. This is your opportunity to contribute technical knowledge back to Society in return for what you've received. If you know of individuals who would make good reviewers please don't hesitate to communicate this need to them.

An ASHRAE TECHNICAL REVIEW PARTICIPANT INFORMATION form is reproduced for those with a current (three years or less) ASHRAE BIOGRAPHICAL RECORD on file at Society. Those lacking current forms should contact the ETA Chairman and come to a meeting to pick them up. We look forward to seeing you at the next meeting.

**TECHNICAL REVIEWER REQUIREMENTS:**

ASHRAE MEMBER  
ASHRAE BIOGRAPHICAL RECORD FORM (current)  
ASHRAE PEER REVIEW PARTICIPANT INFO. FORM

NON-MEMBER  
ASHRAE REVIEWER DATA FORM  
ASHRAE PEER REVIEW PARTICIPANT INFO. FORM

**DO YOU KNOW**  
A PROSPECTIVE NEW MEMBER?  
Contact Membership Chair:  
Eric Tingloff (415)467-8680

---

MAIL, FAX, or PHONE NEWS TO  
Christine Noll, Editor  
FOG DISPENSER  
c/o Ted Jacob Engineering  
1763 Broadway  
Oakland, CA 94612-2105  
(415) 763-4880 Telephone  
(415) 763-5099 FAX

Fog Dispenser	
COPY DEADLINE	
Meeting Date	Copy Deadline
June 7, 1990	May 16, 1990

Published monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107 - Phone: (415)495-4552.

1989-1990 Officers  
Gino Colacchia.....President  
Thomas Reinarts.....President-Elect  
Barbara Dilts.....Secretary  
Frances Crisp.....Treasurer  
Board of Governors  
Steve Taylor Richard Leao  
Sherman Brown

**MINUTES OF THE MAY MEETING  
MAY 3, 1990**

The May General Chapter meeting was our annual field trip. This year we visited Maxwell Laboratories, Brobeck Division. This East Bay company produces accelerators for industry and for the research community. After a brief discussion of high energy physics, we were shown the machine currently being produced. The discussion included production issues such as radiation, and details on the future uses of the machine in research and industry.

This field trip was a little different than many in the past and was attended by over forty members. Following the field trip, we adjourned to Spenger's for dinner.

Respectfully Submitted,

Barbara S. Dilts

**PG&E REBATE PROGRAMS**

PG&E is again offering incentive programs for the installation of energy efficient equipment. The Customized Gas and Electric Program offers rebates for all projects that reduce the use of PG&E gas or electricity. The New Construction Rebate Program offers incentives for new buildings which exceed Title 24. For details, call your local PG&E representative.

Barbara S. Dilts

**MOVING UP**

Gail Schiller Ph.D., recently received a tenured position at UC Berkeley as an Associate Professor. She truly deserves it, we all know how dedicated she is to her students. Congratulations, Gail!!

**UC CONTINUING EDUCATION FOR ENGINEERS**

Sixteen men and women engineers during the Fall 1989 and Spring 1990 semesters completed the four basic courses in the HVAC & R curriculum earning eight units of post-graduate credit in Mechanical Engineering. In addition, they earned the Certificate of Accomplishment awarded by the Golden Gate Chapter, ASHRAE. Several earned additional credit by completing either one or both of the two additional related courses in the HVAC & R Curriculum.

Listed below are their names and units earned:

**FALL SEMESTER 1989**

Robert Leon Barkalou	8 units in ME
Ollie D. Bingham	12 units in ME
Roger W. Blair	12 units in ME
Steve Chan	8 units in ME

**SPRING SEMESTER 1990**

Woubabeba Bekele	8 units in ME
Mark A. Boseh	8 units in ME
Cory D. Chaplin	8 units in ME
Hany M. Farag	8 units in ME
Robert J. Fong	8 units in ME
Robert B. Hogue	10 units in ME
Brian J. Larkin	8 units in ME
Meredith T. Owens	10 units in ME
Angela A. Palazzolo	10 units in ME
Suzanne M. Perkins	10 units in ME
Allen D. Sherman	8 units in ME
James W. Young	12 units in ME

On behalf of the UC Continuing Education in Engineering Staff and the students, I would like to express our appreciation and thanks to the Instructors for their assistance in making this HVAC & R Curriculum a successful program.

University of California Extension will offer Air Conditioning and Heating Psychrometry and Load Calculations Course 469 in the Fall of 1990. The course will be held on twelve Mondays, starting September 17, 7-9:30 PM at UC Extension Center, 55 Laguna St., San Francisco.

For further information concerning the course and how to enroll, call (415)642-4111.

Don Bryant  
Coordinator

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX  
FOR THURSDAY, JUNE 7, 1990

TO: TOM REINARTS - KELLER & GANNON - (415) 864-3681

PLEASE MAKE 1 RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

Barbara Dits \_\_\_\_\_  
\_\_\_\_\_  
H. Ellen! \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FAX EARLY! CALL ELLEN (621-1199) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

STUDENT SPONSORSHIP

- \*\* I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR \_\_\_\_\_ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.
  
- \*\* I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR \_\_\_\_\_ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO \_\_\_\_\_ PER MEETING, AND/OR, A TOTAL OF \_\_\_\_\_ PER YEAR.

SIGNATURE: Barbara Dits \_\_\_\_\_

COMPANY: PG & E \_\_\_\_\_ PHONE: 973-3570 \_\_\_\_\_

CHAPTER OFFICERS

TOM REINARTS      PRESIDENT  
 BARBARA DILTS    PRESIDENT-ELECT  
 FRAN SCHOLL      SECRETARY  
 STEVEN TAYLOR    TREASURER

BOARD OF GOVERNORS

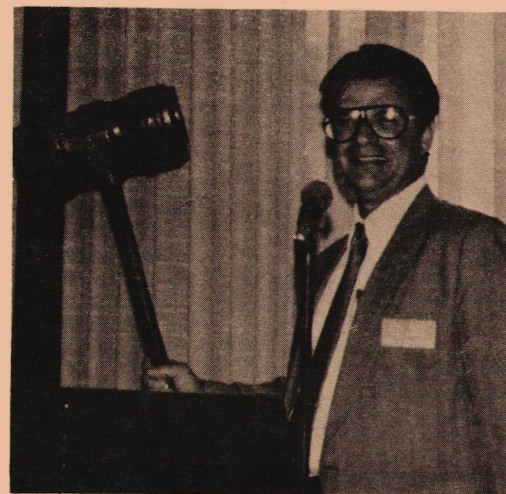
RICHARD LEAO  
 RICHARD PAILLON  
 GINO COLACCHIA

COMMITTEE/CHAIRPERSONS

AUDITING	JOHN LEWIS	PRODUCT SHOW	DAVE RIFKIN
BAEC	TOM REINARTS	PROGRAM	BARBARA DILTS
CODE	OPEN	PUBLICITY	ELLEN PIERCE
EDUCATION	GAIL SCHILLER	RECEPTION	OPEN
ENERGY CONSERVATION	OPEN	REFRIGERATION	LEWIS BROOKS
FOG DISPENSER	CHRISTINE NOLL	RESEARCH PROMOTION	ROY GIFFORD
GOLF	MARK LUCAS	ROSTER	JIM TAYLOR
GOVERNMENT AFFAIRS	BOB BRAUN	S.F. ADMIN CODE	OPEN
HISTORIAN	BOB PHILLIPS	SCHOLARSHIP	DAN REITER
HONOR ROLL	OPEN	SEMINAR	DENNIS THOMPSON
MEMBERSHIP	ERIC TINGLOF	TENNIS	WAYNE HUMPHREY

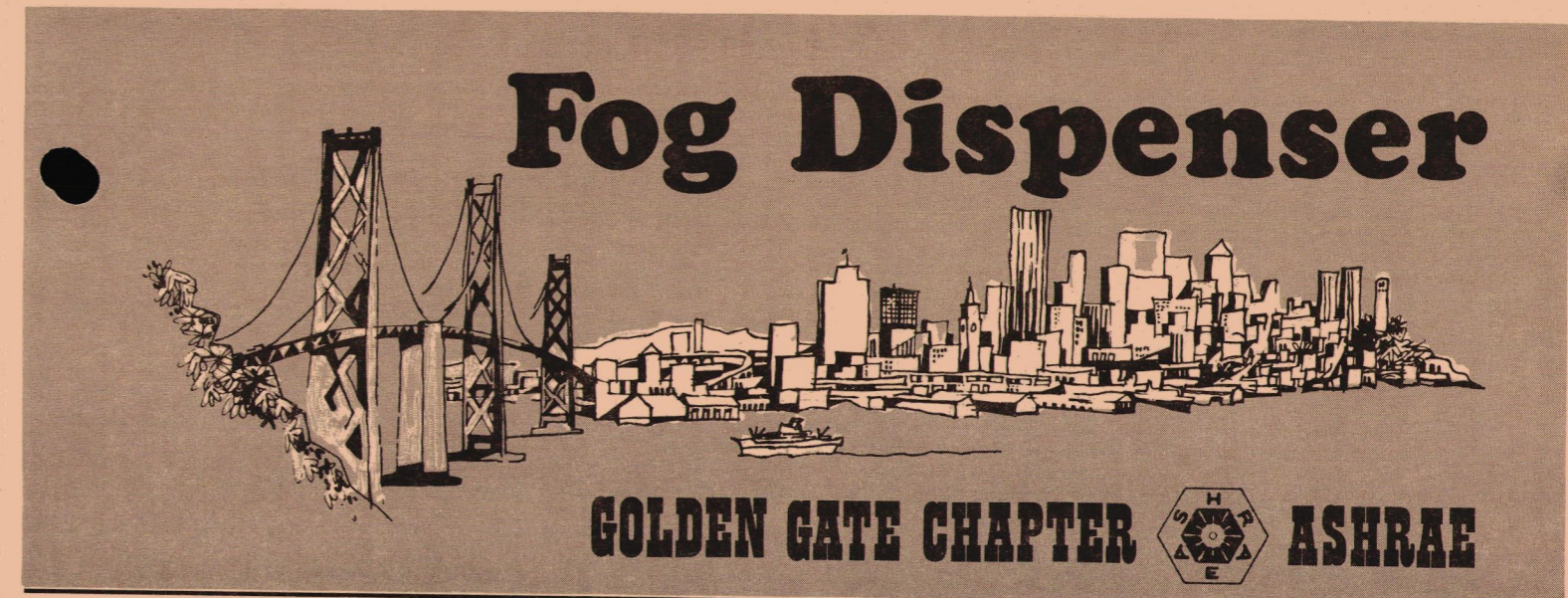


Golden Gate Chapter  
**ASHRAE**  
 370 Brannan Street  
 San Francisco, CA 94107



Barbara Dilts  
 2425 Acton Street  
 Berkeley, CA 94702

Thanks, Gino, for a great year!!



VOLUME XXX No.1

OCTOBER 1990

MEETING NOTICE

DATE: THURS., OCTOBER 4, 1990  
 SOCIAL HOUR: 5:30 P.M.  
 DINNER: 6:30 P.M.  
 LOCATION: ENGINEERS CLUB  
 160 SANSOME STREET  
 SAN FRANCISCO, CA  
 COST: \$25.00 (INCLUDES DESSERT)  
 NOTE: PLEASE PHONE OR FAX YOUR  
 DINNER RESERVATION TO  
 BARBARA DILTS AT PG&E  
 BY NOON ON TUESDAY AT THE  
 LATEST. A FAX FORM IS  
 ENCLOSED FOR YOUR  
 CONVENIENCE.  
 PHONE: 973-3570  
 FAX: 973-8494

OCTOBER PROGRAM

The first meeting of the year is also "Membership Night." Bring a friend or colleague who may be interested in becoming a member of the Golden Gate Chapter. The program will introduce PG&E's New Construction Rebate Program. Dennis Nugent will explain what incentives are available for installing more energy efficient equipment in new commercial buildings. Dennis has been instrumental in the design of the program and presently works with developers, architects, and the design community to assist those who use the program.

Barbara Dilts

HONOR ROLL

BarryBlower      Cargocaire      TOSHIBA HOUSTON      TURBO      IMECO      INDECO      METALAIR



**PRIME AIR, INC.**  
 Your "PRIME" Contact for HVAC Equipment

Wilfred G. Gee, President  
 Hank Shastany, Sales Engr.  
 Jerry Gogas, Sales Rep.  
 Blake Blakely, Sales Engr.  
 Glen Leggoe, Sales Rep.  
 Mark B. Blymyer, Sales Engr.  
 Gordon Cerrudo, Sales Rep.

Steve Dobberstein, Sales Engr.  
 Tom Lew, Sales Rep./Office Mngr.  
 Stacy Francis, Inside Sales Rep.  
 Gina Nibbi, Inside Sales Rep.  
 Sharon Zhou, Compt.  
 Sonia Celaya, Exec. Sect.  
 Alison Rigsby, Sect.

Philip Chew, Divn. Mngr.  
 Dedre Fox, Inside Sales Rep.  
 Mark Sierra, Inside Sales Rep.  
 Norma Hinderlie, Sect.  
 Colleen Dutra, Accts, Rec.  
 Nina Chung, Accts. Pay.

McQuay  
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ASHRAE GOLDEN GATE CHAPTER

**DINNER RESERVATION FAX**  
FOR THURSDAY, OCTOBER 4, 1990

TO: BARBARA DILTS - PG&E - (415) 973-8494

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
_____	_____
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_____	_____

FAX EARLY! CALL BARBARA (973-3570) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

**STUDENT SPONSORSHIP**

- \*\* I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR \_\_\_\_\_ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.
  
- \*\* I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR \_\_\_\_\_ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO \_\_\_\_\_ PER MEETING, AND/OR, A TOTAL OF \_\_\_\_\_ PER YEAR.

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

**MINUTES OF THE JUNE MEETING  
JUNE 7, 1990**

1. The June General Chapter meeting was called to order by President Gino Colacchia. This was Member Recognition and Companion Night.
2. Self-introductions were followed by approval of the Minutes of the May meeting. We had 24 companions and guests attending.
3. Tom White presented a brief history of our Chapter from its founding in 1937 as a Chapter of ASHVE to the 50th Birthday celebration in 1987. The Presidential Gavel, a gift of the Sacramento Chapter was passed to Tom Reinarts, our new Chapter President.
4. Tom Reinarts reported on the CRC in Hawaii:
  - \* Golden Gate was runner-up for most Chapter members at CRC.
  - \* John Lewis was honored for a hospital system.
  - \* The Fog Dispenser was runner up for the newsletter award.
  - \* A motion to use restraint on spending for the ASHRAE 100th birthday passed unanimously. Golden Gate had proposed a similar motion last year.
  - \* Another motion proposed a promotional brochure to introduce ASHRAE to prospective members.
  - \* A motion to promote the profession to students by supporting coop programs was also passed.
5. Roy Gifford reports that over \$5000 has been contributed to ASHRAE Research by Chapter members and their companies. Very good! Thanks, Roy for your leadership.
6. Jack Kniveton announced that the annual tennis tournament would be the next day at the Harbor Bay Club in Alameda. They expect about 28 players.
7. York, Dupont and PG&E will present a seminar on Chillers, CFC'S and the PG&E New Construction Rebate Program on July 11, NOON-2p.m., at the Holiday Inn on Fisherman's Wharf.
8. The raffle this month was an exceptional success, especially when Gene Valerio won the Methusala of Italian wine.
9. Highlights of the past year:
  - \* We have a new Constitution and Bylaws!
  - \* Meeting attendance increased, even at \$25 for the meals.
  - \* Local Student Night included students from Cal and S.F. State.
  - \* We presented our second \$500 Chapter Scholarship.
  - \* The Roster is now on disk and for the first time included member business cards.
  - \* The Board and Committee Chairs are assembling a Chapter Operations Manual to make life easier for future leaders.
  - \* Tom Gilbertson, Region X Research Promotion Chair, has created a traveling award, to be known as the Thomas J. White Research Promotion Award, for the Chapter in Region X with the most outstanding Research Promotion efforts.
10. Certificates and plaques were presented to all those members who have served as committee chairs this year. They and the folks on their committees deserve our thanks for all the work which has made this such a successful year.
11. Dart introduced the new scholarship to be administered by the Chapter. The Eric Thor Andresen Scholarship honors Eric Andresen who was killed in an accident this spring. His friends and associates have donated over \$5000 to the scholarship.
12. The new officers for 1990-91 are Tom Reinarts - President, Barbara Dilts - President Elect, Fran Scholl - Secretary, Steve Taylor - Treasurer, Rich Leao - Sr. Board Member, Rich Paillon - Board Member, Gino Colacchia - Past President.
13. The meeting adjourned at 9:15.

Respectfully Submitted,

Barbara S. Dilts

CHAPTER OFFICERS

TOM REINARTS	PRESIDENT
BARBARA DILTS	PRESIDENT-ELECT
FRAN SCHOLL	SECRETARY
STEVEN TAYLOR	TREASURER

BOARD OF GOVERNORS

RICHARD LEAO  
RICHARD PAILLON  
GINO COLACCHIA

COMMITTEE/CHAIRPERSONS

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ENERGY CONSERVATION  
FOG DISPENSER  
GOLF  
GOVERNMENT AFFAIRS  
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HONOR ROLL  
MEMBERSHIP

JOHN LEWIS  
TOM REINARTS  
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SEMINAR  
TENNIS

DAVE RIFKIN  
BARBARA DILTS  
ELLEN PIERCE  
OPEN  
LEWIS BROOKS  
ROY GIFFORD  
JIM TAYLOR  
OPEN  
DAN REITER  
DENNIS THOMPSON  
WAYNE HUMPHREY



Golden Gate Chapter  
ASHRAE  
370 Brannan Street  
San Francisco, CA 94107



Barbara Dilts  
2425 Acton Street  
Berkeley, CA 94702

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXX No. 2

NOVEMBER 1990

MEETING NOTICE

DATE: THURS., NOVEMBER 1, 1990  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 SANSOME STREET  
SAN FRANCISCO, CA  
COST: \$25.00  
NOTE: PLEASE PHONE OR FAX YOUR  
DINNER RESERVATION TO  
BARBARA DILTS AT PG&E  
BY NOON ON TUESDAY AT THE  
LATEST. A FAX FORM IS  
ENCLOSED FOR YOUR  
CONVENIENCE.  
PHONE: 973-3570  
FAX: 973-8494

NOVEMBER PROGRAM

Cal Poly students will be joining us as part of their annual field trip to the Bay Area. Perhaps you or your company would like to sponsor one or more of our guests.

San Francisco's Mission Bay will be the topic of our program. A representative from Catellus Development Corporation will tell us about this large and often controversial project. Present plans for the area include over 8500 homes and 70 acres of parks as well as office space, retail and light industrial areas.

Barbara Dilts

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**PRESIDENT'S MESSAGE**



The Mission Bay Project will be the topic of discussion at our November meeting. A representative from Catellus Development Corporation will address our group. This project is probably the largest of its kind slated for construction here in San Francisco. We hope this will be of extreme interest to everyone resulting in attendance exceeding 100 members.

Tom Reinarts

President

**IN MEMORY**

Sam M. Yamoto recently passed away. Sam was an associate Member and a member of our Golden Gate Chapter since 1973, and will be missed by all.

Oliver W. Johnson also passed away recently. Oliver was a Life Member who joined ASHVE in 1937. He was also a Charter Member of the Chapter. Oliver lived to the ripe age of 93, which is another benefit of belonging to ASHRAE.

Tom White

The October meeting was well-attended. Everyone seemed to enjoy catching up on events that occurred over the summer months; making new acquaintances and listening to Dennis Nugent speak on PG&E's new construction rebate program.

With the establishment of an Awards Committee this year by the Board, it is hoped this action will facilitate the process of applying for numerous Societal and Regional Awards presented yearly. Many of our chapter members only require nomination, as they are extremely well-qualified to compete for these awards. Jack Kniveton has been appointed Chair of this committee. If anyone has a suggestion or a nomination, please discuss it with Jack or one of the Board members.

In addition, we still need vice chairpersons for many of our committees. If you want to serve on a committee, please make your desires known. By serving on a committee, you will derive much more from ASHRAE on both the Chapter and Society levels.

**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680

**MAIL, FAX or PHONE NEWS TO:**

FOG DISPENSER  
Christine Noll, Editor  
c/o Ted Jacob Engineering  
1763 Broadway Street  
Oakland, CA 94612-2105

Telephone (415) 763 - 4880  
FAX (415) 763 - 5099

**FOG DISPENSER**

**COPY DEADLINE**

<u>Meeting Date</u>	<u>Copy Deadline</u>
November 1, 1990	October 12, 1990
December 6, 1990	November 14, 1990
January 3, 1991	December 14, 1990
February 7, 1991	January 15, 1991
March 7, 1991	February 15, 1991
April 4, 1991	March 13, 1991
May 2, 1991	April 12, 1991
June 6, 1991	May 15, 1991

*Published monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107, Phone (415) 495 - 4552*

**1990 - 1991 Officers**

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Barbara S. Dilts .....President - Elect  
Frances N. Scholl .....Secretary  
Steven T. Taylor.....Treasurer

**Board of Governors**

Richard Leao                      Richard Paillon  
Gino Colacchia

**EMPLOYMENT OPPORTUNITIES**

**MECHANICAL ENGINEER**

Local design-build HVAC contractor is seeking an experienced design engineer. Applicant must have a minimum of 5 years experience as lead project engineer for large commercial projects and have a minimum of 2 years of project management experience.

Contact Val Tatasciore at: Linford Air & Refrigeration  
Oakland, CA  
(415)834-2428 ext. 263



**THOMAS A. GILBERTSON HONORED**

Thomas A. Gilbertson has been elevated to the grade of Fellow by the ASHRAE Board of Directors. Presentation of this award will be made by the Society at the 1991 Winter Meeting in New York City on January 19.

Tom has been a member of the Golden Gate Chapter of ASHRAE since 1962 and served as its President from 1979-1980. Because of his active participation at many levels, he was awarded the ASHRAE Certificate of Appreciation in 1980.

President of his own consulting engineering firm located in Moraga, CA, Tom's interests and expertise lie in HVAC, thermal storage, refrigeration, and cooling tower design/contruction. He has written many articles, papers and books on these subjects. To his credit Tom, an accomplished designer, has patents registered in the United States and abroad with two pending at this time.

Tom has been active in civic affairs that have benefitted the elderly, disadvantaged and homeless segments of the population. In the near future, he will be conducting a two-day seminar on, "Thermal Energy Storage for Cooling Applications" in Orlando, Florida, December 10-11, 1990.

In 1984 he designed the first direct burial of thermal storage, which was a closed-circuit ice-builder for the Stanford Research Institute. Examples where his expertise has been employed range from power plants, tank houses, manufacturing sites, an ocean liner, barges, high-rise buildings such as the Bank of America world headquarters, hotels and a special project for the Atomic Energy Commission.

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- \*Analysis of air and hydronic distribution systems
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- \*Equipment sizing and installation methodologies

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- \*Bachelors Degree in Engineering, Mechanical pref.
- \*Minimum 2 years experience (mandatory)
- \*Excellent writing skills
- \*Building energy simulation and load calculation skills
- \*Knowledge of resid./commercial building construction
- \*Familiarity with any of the following: Macintosh and IBM software, DOE2.1, CALPAS, MICROPAS, MacWrite, Microsoft Word, Excel, MacDraw, PageMaker

Please call Henry DeLima at (415)499-1065 or send resume and cover letter to: Ms. E. Duff, DeLima Associates  
4340 Redwood Highway, Suite 222  
San Rafael, CA 94903

ASHRAE GOLDEN GATE CHAPTER  
DINNER RESERVATION FAX  
FOR THURSDAY, NOVEMBER 1, 1990

TO: **BARBARA DILTS - PG&E - (415) 973-8494**

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
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_____	_____

PLEASE FAX BY NOON ON TUESDAY! CALL BARBARA (973-3570) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

**STUDENT SPONSORSHIP**

- \*\* I WOULD LIKE TO SPONSOR \_\_\_\_\_ CAL POLY STUDENT(S) AT \$25 EACH.
  
- \*\* I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR \_\_\_\_\_ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.
  
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SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

**MINUTES OF THE OCTOBER MEETING  
OCTOBER 4, 1990**

1. The first meeting of the 1990-91 year was called to order by President Tom Reinarts. The minutes of the June 1990 meeting are approved as written.
2. Tom Gilbertson has been nominated and voted as a FELLOW in ASHRAE. We want to thank him for his years of service.
3. All committee chairs have been filled, yet there is a need for a vice-chair for most committees. This gets more people involved and reduces the load for everyone. Contact Tom Reinarts if you can volunteer.
4. Mark Lucas is organizing the Golf tournament for this year.
5. Dick Charles, Treasurer of Society this year, announced that the 1994 100-year celebration of the founding of ASHRAE will be based on a balanced budget.

Tonight is Membership night. Contact Eric Tinglof for application forms. Anyone who knows a possible new member, please contact Eric.

7. Certificates of LIFE Membership were awarded to Ted Georgio, Ken Lloyd, Lawrence Shea and P.O. Sonander.
8. Tim Provo proposed that the board consider reinstating the raffle. The raffle was canceled to save time at the meetings. There is a June raffle scheduled.
9. Barbara Dilts requested that we please call or fax our dinner reservations, and please call if you need to cancel if your plans change. It is important for the Engineer's club to provide us with the best service.
10. Barbara Dilts introduced Dennis Nugent, Program manager of PG&E's New Construction Rebate Program. This program started in June of 1990, and construction must be complete in 1994. The rebate has averaged a payback of forty to sixty cents per building square foot. The program

focuses on the areas of lighting, high performance glazing, energy efficient motors, and cooling performance of buildings. With this rebate the customer can see a one to two year payback of the equipment costs. PG&E will make recommendations for energy savings if they are given a set of blueprints of the building. The request for rebate must be made before construction begins, and before the purchases have been made of the equipment. Once construction is complete, PG&E has received and reviewed detailed invoices of purchases, and field representative has verified installation, the owner will then receive their rebate check. Construction can be done in phases, and monies distributed as mentioned.

11. Questions were taken from the floor, and the meeting was adjourned at 8:45 pm.

Respectfully Submitted,

Fran Scholl

**NEW GOLDEN GATE MEMBERS**

Rachel Murray  
Carlos Santamaria  
Eric Ensenat  
Christofer Sommer  
Jon Wintermeyer  
Brian Hans  
Dev Singh  
Wayne Carr  
David Adili  
Max Saidnia  
Michael J. Green, PE  
Paul O'Neill

Charles M. Salter Assoc.  
Property Management Systems  
Landis & Gyr Powers  
Air Conditioning Company  
Keller & Gannon  
Syska & Hennessy  
Guttman & MacRitchie  
Montgomery & Roberts  
Montgomery & Roberts  
Bentley Engineers  
I.A. Naman & Associates  
Charles & Braun

Please welcome them to our Chapter!!

Eric Tinglof  
Membership Chairman

CHAPTER OFFICERS

TOM REINARTS	PRESIDENT
BARBARA DILTS	PRESIDENT-ELECT
FRAN SCHOLL	SECRETARY
STEVEN TAYLOR	TREASURER

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RICHARD LEAO  
RICHARD PAILLON  
GINO COLACCHIA

COMMITTEE/CHAIRPERSONS

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ENERGY CONSERVATION  
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GOLF  
GOVERNMENT AFFAIRS  
HISTORIAN  
HONOR ROLL  
MEMBERSHIP

JOHN LEWIS  
JACK KNIVETON  
TOM REINARTS  
PAUL ROBINSON  
GAIL SCHILLER  
BRAD GUSTAFSON  
CHRISTINE NOLL  
MARK LUCKES  
BOB BRAUN  
BOB PHILLIPS  
TIMOTHY PROVO  
ERIC TINGLOF

PRODUCT SHOW  
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SEMINAR  
TENNIS

DAVE RIFKIN  
BARBARA DILTS  
ELLEN PIERCE  
ERIC ENSENA  
LEWIS BROOKS  
ROY GIFFORD  
JIM TAYLOR  
PETE JOHNSON  
DAN REITER  
DENNIS THOMPSON  
WAYNE HUMPHREY

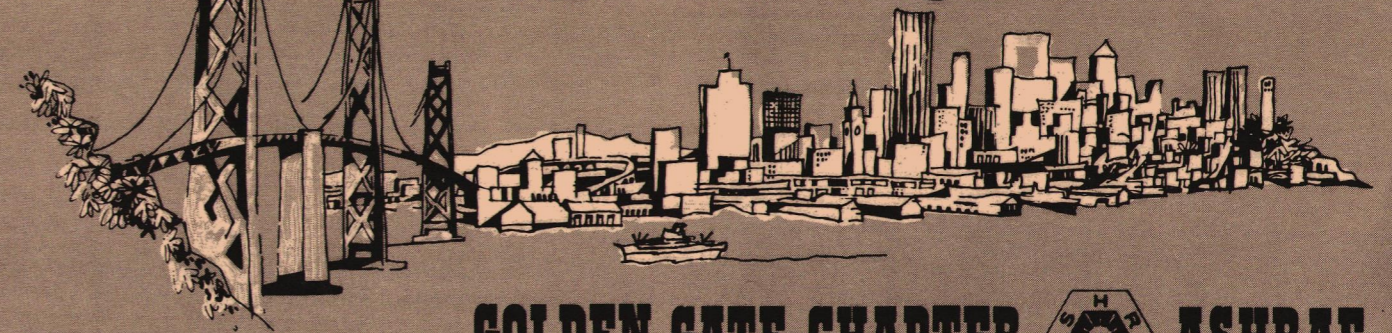


Golden Gate Chapter  
ASHRAE  
370 Brannan Street  
San Francisco, CA 94107



Barbara Dilts  
2425 Acton Street  
Berkeley, CA 94702

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXX No. 2

DECEMBER 1990

### MEETING NOTICE

DATE: THURS., DECEMBER 6, 1990  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 SANSOME STREET  
SAN FRANCISCO, CA  
COST: \$25.00  
NOTE: PLEASE PHONE OR FAX YOUR DINNER RESERVATION TO BARBARA DILTS AT PG&E BY NOON ON TUESDAY AT THE LATEST. A FAX FORM IS ENCLOSED FOR YOUR CONVENIENCE.  
PHONE: 973-3570  
FAX: 973-8494

### DECEMBER PROGRAM

The end of the year is always a good time to pause and look around at who we are and where we're going. "Society Night" will feature several speakers talking about our profession and ASHRAE. Tom White will share "The Progress of Air Conditioning in the Last 50 Years." Dan O'Brien, Region X Educational Activities Vice Chair, will let us know how recent changes will affect our activities. Finally, Dick Charles, our Society Treasurer, will share the new directions of Society.

Barbara Dilts

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**PRESIDENT'S MESSAGE**



As we approach the holiday season, days seem shorter, schedules fuller and relaxation time nonexistent. This is also true with ASHRAE and the Golden Gate Chapter. There is much to accomplish before the end of our 1990-91 fiscal year. Many members are working very hard to see that it all comes together. Seminars, Table-top shows, Scholarship, Tournaments, Research and Recognition are some of the areas being developed. We all know that beyond society and chapter, it is each and every member and his/her personal contributions that make ASHRAE and our chapter the successful organizations they are. Everyone's support is always welcome and appreciated.

One of the society goals being highlighted this year is to increase our membership by 10%. Our committee is working hard to achieve this goal; however, your support in promoting ASHRAE and recruiting new members is invaluable. This is especially true with new engineers coming into the Bay Area. All names and suggestions will be pursued.

Now is the time to start planning for the 1991 CRC meeting that will be held from 30 April through 3 May at the Industry Hills & Sheraton Resort in the Los Angeles area. This year's meeting will be hosted by the Southern California Chapter. The CRC committee has been putting in a great deal of planning to insure the program is both educational and entertaining with something for everyone. This convenient location is conducive to our having a large delegation represent the Golden Gate Chapter.

There is still a need for committee vice chairs. Please let it be known to a member of the Board if you can support one of our committees.

Wishing you and your families a joyous holiday season and a bright and prosperous New Year.

Tom Reinarts

President

**ERIC THOR ANDRESEN MEMORIAL SCHOLARSHIP**

I am happy to announce the Eric Thor Andresen Scholarship. With the donations from family, friends and associates a substantial fund has been established in memory of Eric. What a great way to remember a fine young man and ASHRAE member. The details on the amount of awards and dates are to be determined later, but I will keep you posted.

Dan Reiter  
Scholarship Committee Chair

**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680

**MAIL, FAX or PHONE NEWS TO:**

FOG DISPENSER  
Christine Noll, Editor  
c/o Ted Jacob Engineering  
1763 Broadway Street  
Oakland, CA 94612-2105

Telephone (415) 763 - 4880  
FAX (415) 763 - 5099

**FOG DISPENSER**

**COPY DEADLINE**

Meeting Date	Copy Deadline
December 6, 1990	November 14, 1990
January 3, 1991	December 14, 1990
February 7, 1991	January 15, 1991
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Frances N. Scholl .....Secretary  
Steven T. Taylor .....Treasurer

**Board of Governors**

Richard Leao                      Richard Paillon  
Gino Colacchia

**EMPLOYMENT OPPORTUNITIES**

**MECHANICAL(HVAC) ENGINEER**

Project engineer position available for experienced HVAC engineer. Three or more years of experience required. Applicants will be expected to completely manage a project from start to finish including client contact, equipment selection, design layout for drafters, specification writing, and construction administration. Plumbing and fire protection design experience and Autocad experience is a plus. Immediate opening for a permanent long-term position (this is not a job shopper position). We offer a competitive salary, bonus, benefits, and an easy commute to San Rafael. Our firm includes 4 mechanical engineers and a total staff of seven. Interested parties should contact Lefler Engineering Inc. at (415)456-4220.

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Christine Noll  
Ted Jacob Engineering Group  
1763 Broadway  
Oakland, CA 94612  
Fax: (415)763-5099  
Phone: (415)763-4880

Please mail your checks to Christine Noll at the above address. The deadline for the January Fog Dispenser is December 14th.

**COMING EVENTS**

- Jan. Sick Building Syndrome and Indoor Air Quality
- Feb. Research Promotion Night
- Mar. CFC Issues and Recovery Systems
- Apr. Local Student Night - Student Projects
- May Field Trip - Controlled Environment Chamber, UC Berkeley
- June Awards Night

**THIS MAY BE YOUR LAST FOG DISPENSER**

The Fog Dispenser is sent out each month to roughly 500 people, yet only about 325 people are paid members. Your local dues make up a large portion of the Golden Gate Chapter annual budget. We cannot afford to keep sending the Fog Dispenser to those who do not support our chapter's financial growth. Therefore, beginning January 1, 1991, only paid members will receive the Fog Dispenser.

If you aren't sure of your local chapter status or you believe you are a Life Member, as defined by ASHRAE National Standards, please contact Eric Tinglof at (415)467-8680.

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX  
FOR THURSDAY, DECEMBER 6, 1990

TO: BARBARA DILTS - PG&E - (415) 973-8494

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

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_____	_____
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_____	_____

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SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

**MINUTES OF THE NOVEMBER MEETING  
NOVEMBER 1, 1990**

1. The meeting was called to order at 7:25 pm November 1, 1990 by President Tom Reinarts.
2. Welcome to all the visiting Cal Poly students. Thank you to everyone who sponsored a students dinner.
3. Minutes of the October meeting were approved as written. Self introductions followed.
4. The constitution and bylaws have not been officially approved by Society. Our chapter cannot operate under our new bylaws according to our old bylaws. The board has sent in comments to Society to resolve this issue.
5. Rich Leao presented the Eric Thor Andreson perpetual Tennis tournament trophy to Wayne Humphrey, for winning last years tournament. The Engineers club will display this trophy in their display case for us. Any funds raised in our Tournament will be matched by Eric's parents. This money will be put into the scholarship fund established in Eric's memory.
6. The chapter is still in need of co-chairs for a number of our committees. Please contact Tom if you can volunteer some time.
7. To support the Air Conditioning Club at Cal Poly, the Golden Gate Chapter presented a check for \$1000.00 to Richard Gistelli (the faculty advisor for the club.) Richard is the new instructor who is now teaching senior classes.
8. Richard thanks the Golden Gate chapter for our continued support. His goal is to prepare students to be aware of current HVAC technology. His plans are to look to the future and get the HVAC program back on its feet. Richard has an open invitation for anyone interested in speaking in any of his classes to give him a call. Richard also acknowledged that the workshop program has received \$2000.00 from the LIFE MEMBERS CLUB of ASHRAE.
9. Frank Mayhew announced that the endowment fund raising for Cal Poly has not been overwhelmed with contributions. \$15,000.00 has been collected since he started a year and a half ago.
10. Dennis Thompson is chairing the Technical Seminar this year and is planning to combine the seminar with a product show. He is welcoming any ideas for subjects, speakers, etc.
11. Julie Gonzales Burns with Catellus Dev. Corp. spoke on the Mission Bay Project. This project has been in the planning stages for 10 years. The plan is intended to meet the needs of the city and the developer. There are 315 acres involved: 8000 homes, 3000 of which will be subsidized; 4.8 million sq. ft. of office space; 900,000 sq. ft. of commercial and light industrial; 720,000 sq. ft. of retail; 70 acres of parks/open space and 10 acres of wetlands. There will be community facilities, including schools, child care, police, etc. Public art will also be displayed. Muni-metro will serve the area. 23,000 jobs will be created. The build out is based on a 20 year plan, each phase creating a percent of each facility type. The total budget is \$2 billion.
12. Questions were taken form the floor and the meeting was adjourned at 8:50 pm.

Respectfully Submitted,

Fran Scholl

**NEW MEMBERS**

Please welcome the following new members to the Golden Gate Chapter:

Atma Advani  
Mark Luckes  
Michael Rubio  
Alex Teplitsky  
Ronald Bush

Safeway, Inc.  
Honeywell, Inc.  
G.J. Yamas Co.  
Foster Engineering, Inc.  
Keller & Gannon

CHAPTER OFFICERS

TOM REINARTS	PRESIDENT
BARBARA DILTS	PRESIDENT-ELECT
FRAN SCHOLL	SECRETARY
STEVEN TAYLOR	TREASURER

BOARD OF GOVERNORS

RICHARD LEAO  
RICHARD PAILLON  
GINO COLACCHIA

COMMITTEE/CHAIRPERSONS

AUDITING  
AWARDS  
BAEC  
CODE  
EDUCATION  
ENERGY CONSERVATION  
FOG DISPENSER  
GOLF  
GOVERNMENT AFFAIRS  
HISTORIAN  
HONOR ROLL  
MEMBERSHIP

JOHN LEWIS  
JACK KNIVETON  
TOM REINARTS  
PAUL ROBINSON  
GAIL SCHILLER  
BRAD GUSTAFSON  
CHRISTINE NOLL  
MARK LUCKES  
BOB BRAUN  
BOB PHILLIPS  
TIMOTHY PROVO  
ERIC TINGLOF

PRODUCT SHOW  
PROGRAM  
PUBLICITY  
RECEPTION  
REFRIGERATION  
RESEARCH PROMOTION  
ROSTER  
S.F. ADMIN CODE  
SCHOLARSHIP  
SEMINAR  
TENNIS

DAVE RIFKIN  
BARBARA DILTS  
ELLEN PIERCE  
ERIC ENSEAT  
LEWIS BROOKS  
ROY GIFFORD  
JIM TAYLOR  
PETE JOHNSON  
DAN REITER  
DENNIS THOMPSON  
WAYNE HUMPHREY



Golden Gate Chapter  
ASHRAE  
370 Brannan Street  
San Francisco, CA 94107



Barbara Dilts  
2425 Acton Street  
Berkeley, CA 94702

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXX No. 4

JANUARY 1991

### MEETING NOTICE

DATE: THURS., JANUARY 3, 1991  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 SANSOME STREET  
SAN FRANCISCO, CA

COST: \$25.00  
NOTE: PLEASE PHONE OR FAX YOUR DINNER RESERVATION TO BARBARA DILTS AT PG&E BY NOON ON TUESDAY AT THE LATEST. A FAX FORM IS ENCLOSED FOR YOUR CONVENIENCE.

PHONE: 973-3570  
FAX: 973-8494

### JANUARY PROGRAM

Indoor air quality or sick building syndrome, our topic this month, continues to be an important issue. Robert Spence, our speaker, is a Board certified industrial hygienist with over 20 years of experience. He will share some of his experiences solving air quality problems in buildings. He's found that ventilation is almost always involved...sometimes as a part of the problem, but most often as part of the solution.

MAKE YOUR RESERVATIONS NOW, PLEASE. DON'T FORGET TO CANCEL IF YOU CAN'T COME. HAPPY NEW YEAR!!

Barbara Dilts



## Air Conditioning Co., Inc.

1700 Industrial Road  
San Carlos, CA 94070  
Phone : (415) 594 - 0182  
Fax: (415) 593 - 9469

DESIGN/ BUILD HVAC CONTRACTOR  
SPECIALIZING IN:

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- Built-up direct expansion systems
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- Life safety design and controls
- Clean room and laboratory design

GLENDALE ○ SAN CARLOS ○ SAN DIEGO ○ SACRAMENTO ○ SEATTLE

**PRESIDENT'S MESSAGE**



In 1991 the Golden Gate Chapter of ASHRAE will again provide a leadership role in the celebration of Engineers' Week, which will take place nationally from February 18 through 22. The major event here in San Francisco is a banquet held on Thursday, February 21. More than 400 Bay Area engineers attend the banquet, which features good food, excellent speakers and a program that honors both eminent engineers and high school students aspiring to be engineers. In the past many of our chapter members have contributed to the success of Engineers' Week. Of special note is Bob Voelz, who has been an active member of the Bay Area Engineers' Week Committee for more than 20 years. If anyone would like to be involved in the activities, please contact me.

It was fun to help Tom White celebrate his 80th birthday in December. In addition to his being a walking history book, Tom also continues to be a strong supporter of and an active participant in both chapter and society activities. Keep it up, Tom!

A letter was received from the Cal Poly students and their coordinator thanking the Golden Gate Chapter for its hospitality at the November meeting as well as the \$1000 donation in support of HVAC student projects. A special thanks goes out to those individuals and companies that sponsored our guests and covered their dinner expenses.

Please make a special note on your calendar for the January 3, 1991, meeting which closely follows just two days after all the food, drink, merry-making and football games. It will take a special effort to get your reservations in by Monday, December 31, 1990, so Barbara Dilts can perform her magic with the Engineers' Club. For January Barb will have to find two rabbits in that hat.

Tom Reinarts

President

**NEW MEMBERS**

Please welcome the following new members to the Golden Gate Chapter:

John Mitchell	Trane Company
Bob Slakey	Slakey Brothers
Brad Gustafson	Trane Company

**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680

MAIL, FAX or PHONE NEWS TO:

FOG DISPENSER  
Christine Noll, Editor  
c/o Ted Jacob Engineering  
1763 Broadway Street  
Oakland, CA 94612-2105

Telephone (415) 763 - 4880  
FAX (415) 763 - 5099

**FOG DISPENSER**

**COPY DEADLINE**

<u>Meeting Date</u>	<u>Copy Deadline</u>
January 3, 1991	December 14, 1990
February 7, 1991	January 15, 1991
March 7, 1991	February 15, 1991
April 4, 1991	March 13, 1991
May 2, 1991	April 12, 1991
June 6, 1991	May 15, 1991

*Published monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107, Phone (415) 495 - 4552*

**1990 - 1991 Officers**

Thomas Reinarts .....	President
Barbara S. Dilts .....	President - Elect
Frances N. Scholl .....	Secretary
Steven T. Taylor .....	Treasurer

**Board of Governors**

Richard Leao	Richard Paillon
Gino Colacchia	

**EMPLOYMENT OPPORTUNITIES**

**HVAC/PLUMBING ENGINEER**

Designers and intermediate engineers with a minimum of 5 years experience in commercial, industrial &/or institutional design. Excellent salary & benefits. Send resume attention: Chief Mechanical Engineer, Syska & Hennessy, 120 Montgomery, San Francisco, CA 94104. EOE.

**EMPLOYMENT DESIRED**

**MECHANICAL ENGINEER FOR PART-TIME/CONTRACT BASIS**

Five years of design experience. Almost 10 years experience in construction from laborer foreman to estimator. Licensed engineer and C-20 Contractor with testing instruments for surveys and commissioning. I own a computer and prefer the quality of CAD projects. Design experience gained in schools, hospitals, commercial and light industrial projects. Energy analysis using DOE-2.1C. or Trakload. Versatile and always willing to learn. Leo Copper Jr. (707) 575-5661.

**1991 ENGINEER'S WEEK BANQUET**

Speaker: Dr. Chang-lin Tien, Chancellor, University of California and Professor of Mechanical Engineering

When: February 21, 1991

Where: Hyatt Regency Hotel, San Francisco, CA

For banquet tickets contact Martin Horstmeyer at 973-1919.

**EAST BAY/OAKLAND CSI! WINTER-SPRING SEMINAR SERIES**

The East Bay/Oakland chapter will again offer its two courses, "Interpreting Construction Contracts and Specifications" and "Principles and Practices of Specification Writing". Each course will be five weeks long and meet Monday evenings at the East Bay AIA offices, 499 14th Street, 2nd Floor, Oakland.

"Interpreting Construction Contracts and Specifications" will begin January 7th, and "Principles and Practices of Specification Writing" will begin February 25th.

Fee for each course is \$65.00 for CSI members, and \$80.00 for non-members. Texts for both courses are the CSI Manual of Practice and AIA A201 General Conditions. Both may be purchased from the Chapter for \$65.00.

For further information please contact Jo Lynn Mull. (415) 837-8286.

**EAST BAY CSI-7TH ANNUAL CONSTRUCTION PRODUCTS EXPOSITION**

The East Bay/Oakland, CSI (Construction Specifications Institute) will host its seventh annual Construction Products Exposition on Tuesday, February 5th, 1990, from 2:00-7:30pm, at the Oakland Convention Center located at 10th Street and Broadway, adjacent to BART, in downtown Oakland.

This year's EXPO will feature pre-show seminars and more than 100 exhibitors who will display their newest products and innovations. Seminars will begin at 2:00 pm and will feature presentations on maintaining your office master specifications, rammed earth construction, and obtaining superior tile installations. The exhibits will begin at 3:30 pm.

The entire construction industry is invited and admission to all events is free. Complementary hors d'oeuvres and door prizes will be offered.

For more information contact Mr. Ed Stuecker at (415)654-4500.

**COMING EVENTS**

Feb.	Research Promotion Night
Mar.	CFC Issues and Recovery Systems
Apr.	Local Student Night
May	Field Trip-Controlled Environment Chamber, UC Berkeley
June	Awards Night

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX  
FOR THURSDAY, JANUARY 3, 1991

TO: **BARBARA DILTS - PG&E - (415) 973-8494**

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FAX EARLY! CALL BARBARA (973-3570) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS. PLEASE CANCEL YOUR RESERVATIONS IF YOU CAN'T ATTEND THE MEETING. NO MORE GREY HAIRS FOR THE PROGRAM CHAIR!!

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

**STUDENT SPONSORSHIP**

- \*\* I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR \_\_\_\_\_ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.
  
- \*\* I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR \_\_\_\_\_ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO \_\_\_\_\_ PER MEETING, AND/OR, A TOTAL OF \_\_\_\_\_ PER YEAR.

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

**MINUTES OF THE DECEMBER MEETING  
DECEMBER 6, 1990**

1. The meeting was called to order at 7:40 pm December 6, 1990 by President Tom Reinarts.
  2. Minutes to the November meeting were approved as written. Self introductions followed.
  3. Roy Gifford is in charge of Research donations. If you need a good tax write-off for 1990, now is the time to write your check.
  4. We received a thank you letter from Richard Gistelli for our support of the Air Conditioning Club at Cal Poly, for the check for \$1000.00, and for the \$2000.00 received earlier from the Life Members.
  5. The last week in February is Engineer's Week. This is the time to encourage high school students to consider becoming engineers. Information and canned presentations are available to support us in our participation.
  6. The December ASHRAE Journal has an ad regarding an opening for two Assistant Managers in the Standards Department.
  7. Wayne Humphrey has the Tennis tournament scheduled for the first weekend in June. Put this on your calendar now. His committee is formed (and already practicing for the big event).
  8. Frank Mayhew announced that Cal Poly has a need for more students for the HVAC program. He is putting together a slide show, and would like anyone who has slides depicting any facet in our industry to please call him.
  9. The Shadow an Engineer program is going to be implemented again this year. It will be set up so that students can pick an area of HVAC that they would like to observe for a day.
  10. Our next meeting is in January. Please respond to Barbara as accurately as possible to facilitate the correct count for dinner reservations. This helps the chapter and the Engineer's club provide a better dinner.
  11. If your badge is missing, please see Eric Ensenat, our Reception Chair, and he will order accordingly.
  12. Spirit of ASHRAE Past: Tom White shared his experiences as an Engineer, beginning in 1936. Those of you who didn't stay missed a delightful talk.
  13. Spirit of ASHRAE Present: Daniel O'Brien, of Region X Education Activities Committee, explained how the chapter earns PAOE points for various activities.
  14. Spirit of ASHRAE Future: Dick Charles, treasurer of Society, shared some of the goals for ASHRAE. These include:
    - a. Getting good qualified people interested in HVAC.
    - b. Developing extension courses at universities across the country comparable to what Don Bryant has done for our area.
    - c. Development of correspondence courses to aid in training.
    - d. Encouraging student chapter participation.
    - e. Emphasis on HVAC standards.
- Remember, ASHRAE is each and every one of us. The more we participate, the better we make ASHRAE!!
15. The meeting was adjourned at 9:05 pm. The next meeting will be January 3, 1991.

Respectfully Submitted,

Fran Scholl

CHAPTER OFFICERS

TOM REINARTS PRESIDENT  
BARBARA DILTS PRESIDENT-ELECT  
FRAN SCHOLL SECRETARY  
STEVEN TAYLOR TREASURER

BOARD OF GOVERNORS

RICHARD LEAO  
RICHARD PAILLON  
GINO COLACCHIA

COMMITTEE/CHAIRPERSONS

AUDITING  
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BAEC  
CODE  
EDUCATION  
ENERGY CONSERVATION  
FOG DISPENSER  
GOLF  
GOVERNMENT AFFAIRS  
HISTORIAN  
HONOR ROLL  
MEMBERSHIP

JOHN LEWIS  
JACK KNIVETON  
TOM REINARTS  
PAUL ROBINSON  
GAIL SCHILLER  
BRAD GUSTAFSON  
CHRISTINE NOLL  
MARK LUCKES  
BOB BRAUN  
BOB PHILLIPS  
TIMOTHY PROVO  
ERIC TINGLOF

PRODUCT SHOW  
PROGRAM  
PUBLICITY  
RECEPTION  
REFRIGERATION  
RESEARCH PROMOTION  
ROSTER  
S.F. ADMIN CODE  
SCHOLARSHIP  
SEMINAR  
TENNIS

DAVE RIFKIN  
BARBARA DILTS  
ELLEN PIERCE  
ERIC ENSEAT  
LEWIS BROOKS  
ROY GIFFORD  
JIM TAYLOR  
PETE JOHNSON  
DAN REITER  
DENNIS THOMPSON  
WAYNE HUMPHREY



Golden Gate Chapter  
ASHRAE  
370 Brannan Street  
San Francisco, CA 94107



Barbara Dilts  
2425 Acton Street  
Berkeley, CA 94702



# Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXX No. 5

FEBRUARY 1991

MEETING NOTICE

DATE: THURS., FEBRUARY 7, 1991  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 SANSOME STREET  
SAN FRANCISCO, CA  
COST: \$25.00  
NOTE: PLEASE PHONE OR FAX YOUR  
DINNER RESERVATION TO  
BARBARA DILTS AT PG&E  
BY NOON ON TUESDAY AT THE  
LATEST. A FAX FORM IS  
ENCLOSED FOR YOUR  
CONVENIENCE.  
PHONE: 973-3570  
FAX: 973-8166

FEBRUARY PROGRAM

February is the start of the Research fund raising drive. Find out how some of the Research funds are used.

Dr. Joseph Klems will give a brief introduction to the activities of the Lawrence Berkeley Laboratory Window and Daylighting Group and describe a unique facility, the MoWITT, which has been developed to measure fenestration performance under realistic conditions. He will describe how this facility has been involved in ASHRAE Technical Committee 4.5 activities over the past several years and how these activities are expected to lead to a major revision of the Fenestration Chapter of the Handbook of Fundamentals.

Barbara Dilts

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### Building Management and Control Systems and Services

Meeting your total building control needs in:

- industrial facilities
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- hospitals
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- educational facilities
- commercial office buildings

Featuring the state-of-the-art DDC-based Powers System 600:

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- installation
- engineering
- service



Landis & Gyr Powers, Inc.

Landis & Gyr Powers  
14709 Catalina Street,  
San Leandro, CA 94577  
Phone: (415) 483-1000  
Fax: (415) 352-1153

Bill Schultz,  
Jack Nichols, Ernie French,  
Eric Ensenat, Bill Breyton

**PRESIDENT'S MESSAGE**



The January 1991 meeting was a great success. Seventy-five members attended, reservations were made on time and the program was outstanding. Barbara Dilts and everyone that contributed to the success of the meeting are to be congratulated--especially all of you that attended.

The theme of our February meeting is ASHRAE Research Promotion. Over the years ASHRAE has been instrumental in sponsoring and promoting research as it relates to heating, refrigeration and air-conditioning. Roy Gifford is the Golden Gate Chapter Committee Chairman and Tom White is our Regional Chairman. Both of these people have been working very hard on behalf of the chapter and the region to make this program a success. We are all benefactors of ASHRAE Research. As an added incentive for Region X, there is the Tom White Award of Excellence that is given annually to the chapter that makes the most significant contribution to the program. Let's make a special effort this year to support ASHRAE Research.

It seems like the year is just getting started and we are already thinking about electing officers for next year. The schedule of events for the elections are as follows:

**JANUARY:** Members elect a five-person nominating committee.

**FEBRUARY:** Nominating Committee presents slate of nominations to the membership.

**MARCH:** Additional nominations taken from the general membership.

**APRIL:** Election of officers and directors.

**JUNE:** New officers and directors are installed.

The Nominating Committee was elected at the January meeting. Everyone is encouraged to participate on the various committees and work toward being a chapter officer. You get a much better appreciation of ASHRAE and the rewards are much greater when you are an active participant.

Don't forget the Engineers' Week Banquet of 21 February 1991. The speaker will be Dr. Chang-Lin Tien, Chancellor of the University of California and Professor of Mechanical Engineering.

Tom Reinarts

President

**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680

**MAIL, FAX or PHONE NEWS TO:**

FOG DISPENSER  
Christine Noll, Editor  
c/o Ted Jacob Engineering  
1763 Broadway Street  
Oakland, CA 94612-2105

Telephone (415) 763 - 4880  
FAX (415) 763 - 5099

**FOG DISPENSER**

**COPY DEADLINE**

Meeting Date	Copy Deadline
February 7, 1991	January 15, 1991
March 7, 1991	February 15, 1991
April 4, 1991	March 13, 1991
May 2, 1991	April 12, 1991
June 6, 1991	May 15, 1991

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**1990 - 1991 Officers**

Thomas Reinarts .....President  
Barbara S. Dilts .....President - Elect  
Frances N. Scholl .....Secretary  
Steven T. Taylor.....Treasurer

**Board of Governors**

Richard Leao                      Richard Paillon  
Gino Colacchia

**EMPLOYMENT DESIRED**

Cal Poly December graduate, BSME/HVAC seeks interview for challenging position.

- \* COOP experience as project engineer
- \* EIT certified
- \* Varied computer experience

Please contact John Small at (408) 245-4931.

**EMPLOYMENT OPPORTUNITIES**

**SALES ENGINEER**

The local Carrier Distributor has an outstanding opportunity for a Controls System Sales Engineer. The selected individual will provide marketing and sales support for HVAC Control Systems. A BSME or BSEE and five years of successful sales experience in the commercial temperature controls industry is required.

In addition to a base salary, fringe benefits and commission program, we offer a stimulating technical environment and career growth potential. For consideration, please send your resume in confidence to:

Edward B. Ward & Co.  
337 Roebling Rd.  
So. San Francisco, CA 94080  
Attn: J.W. Lazor

**PLAN AND SPECIFICATIONS DEPARTMENT ASSISTANT MANAGER**

Position open for self-motivated individual, preferably a graduate mechanical engineer, with experience in the air conditioning field. The experience should be from both the technical and equipment side of the business.

The ideal candidate must have excellent communication skills and a desire to pursue, in the future, a career as a territory sales engineer.

Send resume in confidence to:

Edward B. Ward & Company  
337 Roebling Rd.  
So. San Francisco, CA 94080  
Attn: Richard Frenzel

**IT'S COMING! MARK YOUR CALENDARS!**

- \* The Annual Chapter Region Conference comes to sunny southern California.
- \* Hotel rates have been kept at 1989 rates.
- \* Bring those golf clubs, tennis racquets and sunglasses.
- \* CRC will be held from Tuesday, April 30th through Friday, May 3rd at the beautiful Sheraton Industry Hills.
- \* Sign up early and save.
- \* Look for upcoming details in your newsletters.
- \* Open to all members of all chapters. You do not need to be an officer, delegate or alternate to attend and participate.

Come join the fun! Support ASHRAE!!

**ATTENTION UC BERKELEY & SAN FRANCISCO STATE STUDENTS**

We are currently soliciting for applicants for the two scholarships we are offering: The Eric Thor Andresen Memorial Scholarship (\$500) and the Golden Gate Chapter Scholarship (\$500). For complete details and applications please contact Dan Reiter at Montgomery & Roberts (232-1541). Gail Brager at UC Berkeley (642-1696) and Ahmad Ganji (338-7736) at SF State will also have the forms. Applications are due by February 27th. Good Luck.

Dan Reiter  
Scholarship Committee Chair

**THE MARBLE DRAW**

For those of you that are not yet familiar with the rules of the game, here they are: Tickets are 1 for \$1.00, 6 for \$5.00, and 15 for \$10.00. Tickets will be drawn, and one person will be selected. This person gets to pick a single marble from the bag. (The game starts with nineteen black and one blue colored marble.) If the person draws the blue marble, they win the pot. Half of the money collected from the ticket sales goes into the pot, and half of the money goes to the ASHRAE Scholarship Fund. Each meeting a black marble is removed from the bag, so the odds get better with each meeting!

Next month's starting pot: \$156.00  
Odds: 5.6%  
Black Marbles Left: 18

**MINUTES OF THE JANUARY MEETING  
JANUARY 3, 1991**

The meeting was called to order at 7:25 pm January 3, 1991 by President Tom Reinarts.

2. Reservations worked well, thanks to everyone for notifying Barbara.
3. April 29 will be the Golf Tournament date. Info to follow.
4. The Tennis Tournament will be the first Friday of June.
5. Steve Taylor will be teaching the HVAC design class at the UC Berkeley extension. It starts in February. Call him if you need more information.
6. Minutes to the December meeting were approved as written. Self introductions followed.
7. The Nominating Committee was chosen as follows: Eric Tinglof, Bob Braun, Gene Valerio, Dick Glumac, Carl Jordan.  
  
Roy Gifford is Chair of Research. Next month we'll have a speaker who will tell us what research is about.
9. John Sosoka, Region X Director, announced the CRC to be held this year in LA. April 30th is Tennis and Golf. May 1 is the Technical Seminar. May 2nd and 3rd are the workshops, etc.
10. Tim Provo conducted our first in a series of Marble Games. 1/2 of the proceeds go the Research...the other 1/2 goes to the person who draws the blue marble.
11. Barbara Dilts introduced Bob Spense, who is a board certified Industrial Hygienist. The topic was Indoor Air Quality.

**Causative Agents include:**

- A. Physical
- B. Chemical Agents
- C. Microbiological Agents
- D. Inadequate Ventilation

Bob advised us to be sensitive to the needs of people involved. Limit the number of outside people involved. Implement procedures to minimize rumors. Maximize employee participation. Communicate effectively with media. Avoid early "definitive" pronouncements of Cause. No cause may ever be identified. Avoid early solutions.

12. The meeting was adjourned at 9:10 pm. The next meeting will be February 7, 1991.

Respectfully Submitted,

Fran Scholl

**NOTICE OF PUBLIC FORUM**

PG&E invites all interested parties to an open forum concerning its Commercial and Residential New Construction Incentive Programs. The programs are designed to provide financial incentives to builders and owners for exceeding the energy efficiency standards required by Title 24.

The forum will meet February 14 in the PG&E Auditorium at 77 Beale St., SF; 9:30-11:30am, Residential; 1:30-3:30pm, Commercial. For more information call (415) 973-7141.

ASHRAE GOLDEN GATE CHAPTER  
DINNER RESERVATION FAX  
FOR THURSDAY, FEBRUARY 7, 1991

TO: **BARBARA DILTS - PG&E - (415) 973-8166**

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FAX EARLY! CALL BARBARA (973-3570) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS. PLEASE CANCEL YOUR RESERVATIONS IF YOU CAN'T ATTEND THE MEETING. NO MORE GREY HAIRS FOR THE PROGRAM CHAIR!!

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

**STUDENT SPONSORSHIP**

- \*\* I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR \_\_\_\_\_ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.
  
- \*\* I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR \_\_\_\_\_ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO \_\_\_\_\_ PER MEETING, AND/OR, A TOTAL OF \_\_\_\_\_ PER YEAR.

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

CHAPTER OFFICERS

TOM REINARTS	PRESIDENT
BARBARA DILTS	PRESIDENT-ELECT
FRAN SCHOLL	SECRETARY
STEVEN TAYLOR	TREASURER

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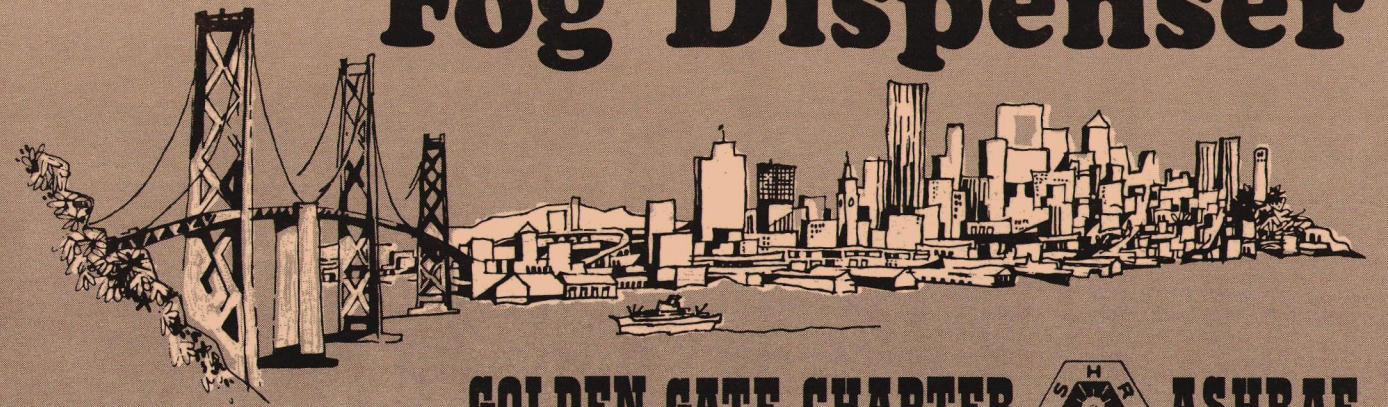
PRODUCT SHOW  
PROGRAM  
PUBLICITY  
RECEPTION  
REFRIGERATION  
RESEARCH PROMOTION  
ROSTER  
S.F. ADMIN CODE  
SCHOLARSHIP  
SEMINAR  
TENNIS

DAVE RIFKIN  
BARBARA DILTS  
ELLEN PIERCE  
ERIC ENSEAT  
LEWIS BROOKS  
ROY GIFFORD  
JIM TAYLOR  
PETE JOHNSON  
DAN REITER  
DENNIS THOMPSON  
WAYNE HUMPHREY



Golden Gate Chapter  
ASHRAE  
370 Brannan Street  
San Francisco, CA 94107

# Fog Dispenser



**GOLDEN GATE CHAPTER**  **ASHRAE**

VOLUME XXX No. 6

MARCH 1991

MEETING NOTICE

DATE: THURS., MARCH 7, 1991  
 SOCIAL HOUR: 5:30 P.M.  
 DINNER: 6:30 P.M.  
 LOCATION: ENGINEERS CLUB  
 160 SANSOME STREET  
 SAN FRANCISCO, CA  
 COST: \$25.00  
 NOTE: PLEASE PHONE OR FAX YOUR  
 DINNER RESERVATION TO  
 BARBARA DILTS AT PG&E  
 BY NOON ON TUESDAY AT THE  
 LATEST. A FAX FORM IS  
 ENCLOSED FOR YOUR  
 CONVENIENCE.  
 PHONE: 973-3570  
 FAX: 973-8166

MARCH PROGRAM

CFC's continue to be an important issue that affects us all. Our speakers this month, Ken Mozek, Sales Manager at York International Corp., and Kevin Flaharty, Service Manager at York, will present information on the current legislation involving CFC's, HFC's and HCFC's, their availability, cost, and affects on equipment. In addition, they will update us on recent legislation affecting containment and recovery and share information on equipment room requirements and equipment maintenance.

See you then. Please make reservations!

Barbara Dilts

Carl H. Jordan  
Consulting Mechanical Engineer

646 Colusa Avenue  
Berkeley, California 94707  
(415) 524-9071

Thank you for your referrals for the past two years.

**PRESIDENT'S MESSAGE**



As we celebrate Engineer's Week (February 18-22), it seems like a good time to reflect on our contributions to the engineering profession - as individuals, and through ASHRAE, as a Society.

The achievements of engineers are numerous and diverse and greatly contribute to continuing progression. HVAC engineers and ASHRAE make their impact felt on the building industry through research, facility designers, equipment manufacturers/sales forces, contractors and operators. Unfortunately, sometimes engineers remain hidden in the process and don't always receive full credit for their accomplishments. Participating in activities surrounding Engineer's Week is a fine way to realize what a difference engineers make. The profession has been good to us. We all need to be sure that we not only recognize what it has done for us, but we need to put something back for those that will follow us.

The Nominating Committee presented its slate for the 1991-1992 meeting year. The nominations are as follows:

- President - Barbara Dilts
- President-Elect - Fran Scholl
- Secretary - Rich Leao
- Treasurer - Rick Paillon
- Board Member - Gail Schiller Brager
- Board Member - Roy Gifford

In accordance with our By-Laws, additional nominations will be taken from the floor at our March General Meeting. Elections will be held in April.

Dave Rifkin and Dennis Thompson have teamed up to put on a combined technical seminar and table top equipment show. It will be held on Treasure Island, which affords easy access and parking for everyone. The day will be very productive and profitable for all of our membership as well as many of our associates. Please support Dave and Dennis in this effort.

Dan Reiter and his Scholarship Committee have gotten off to a good start. This year there will be two \$500 scholarships - one sponsored by the Chapter and the other is the Eric Andresen Memorial Scholarship.

It's time to start thinking about next year. There are committee chairs to be filled, programs to be scheduled and goals to be established. Everyone's participation is needed. Please volunteer to help out in your area of interest by speaking to your Board members - especially Barb and Fran.

**Tom Reinarts**  
President

**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680

**MAIL, FAX or PHONE NEWS TO:**

FOG DISPENSER  
Christine Noll, Editor  
c/o Ted Jacob Engineering  
1763 Broadway Street  
Oakland, CA 94612-2105

Telephone (415) 763 - 4880  
FAX (415) 763 - 5099

**FOG DISPENSER**

**COPY DEADLINE**

Meeting Date	Copy Deadline
March 7, 1991	February 15, 1991
April 4, 1991	March 13, 1991
May 2, 1991	April 12, 1991
June 6, 1991	May 15, 1991

*Published monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107, Phone (415) 495 - 4552*

**1990 - 1991 Officers**

- Thomas Reinarts .....President
- Barbara S. Dilts .....President - Elect
- Frances N. Scholl .....Secretary
- Steven T. Taylor.....Treasurer

**Board of Governors**

- Richard Leao
- Richard Paillon
- Gino Colacchia

**JOINT TABLE TOP SHOW & TECHNICAL SEMINAR**

A date has been set for the Golden Gate ASHRAE Table Top Show, which will coincide with this year's Technical Seminar. We look forward to seeing you all at the Nimitz Conference Center on Treasure Island, Thursday, April 18, 1991, from 9am to 4pm for this dual event.

Admission to the Table Top Seminar will be by ticket only and tickets are free. Engineers, contractors, architects and interested parties are welcome to attend and learn more about current products offered by local reps and sales offices. Vendors will be receiving information packets shortly. Equipment will be limited to display on a 3' x 8' table. Dave Rifkin (483-4856) can answer any questions you may have regarding the Table Top Show.

This year's seminar is on "Indoor Air Quality" and should run about two and one half hours. There will be a luncheon served for seminar attendees and a "no-host," cash bar will also be available. Any questions you have should be directed to Dennis Thompson (408-739-2880).

**EMPLOYMENT OPPORTUNITIES  
DIRECTOR OF TRAINING**

Trane Company in the Bay Area has an opening for Director of Training. Individual will be responsible for all customer training. HVAC experience along with the ability to organize functions and speak to groups is required.

This is an excellent opportunity. Salary commensurate with experience. Please send resume in confidence to:

Trane Company  
58 South Linden Avenue  
So. San Francisco, CA 94080  
Attention: Don Druyanoff  
Fax: (415) 875-9323

**CHAPTER DINNER PAYMENTS  
OTHER OPTIONS NEXT YEAR?**

Do you come to every Chapter meeting? Would you like to make your reservations and pay for all the dinners at the start of the year? Would you like a discount for doing that? We're exploring options. If you think you might be interested, please check the box on the FAX form or call Barbara. If folks are interested, we'll work on the details. Let us know your preference.

**NEW AFFILIATIONS**

Shlomo Rosenfeld recently started his own consulting engineering firm. The firm, Shlomo I. Rosenfeld & Associates will focus on indoor environment engineering. Shlomo was Syska & Hennessy's chief mechanical engineer in the San Francisco office for ten years. Four years ago he was promoted to the position of Corporate Chief of Design for Syska & Hennessy nationwide.

Shlomo currently serves on the Building Safety Board which oversees the State of California Office of Statewide Health Planning and Development. He will continue his relationship with Syska & Hennessy's offices and the San Francisco new organization as a consultant to participate during conceptual engineering design stage of selected projects. In addition he'll provide consulting and design services directly to building owners, architects and other engineers who can benefit from his wide range of experience.

**We all need a change of scenery  
every once in awhile!**

Please note our new address and phone numbers:

**Guttman & MacRitchie  
Mechanical Engineers**

631 Howard Street, Suite 500  
San Francisco, California 94105  
Telephone: 415 512-8910  
Facsimile: 415 512-8784

**1991 CRC**

The Chapter's Regional Conference will be held in the City of Industry in Southern California from April 30 (golf and tennis day) to May 3. The Technical Seminar, "In Search of Indoor Air Quality," will be May 1 followed by the Conference sessions of May 2 and 3. All Golden Gate Chapter members are invited to attend the CRC. It's an excellent opportunity to see how the larger ASHRAE organization works. I will have additional conference and hotel reservation information at the March Chapter meeting. Call if you want it sooner.

Barbara Dilts

**MINUTES OF THE FEBRUARY MEETING  
FEBRUARY 7, 1991**

1. The meeting was called to order at 7:30 pm February 7, 1991 by President Tom Reinarts.
2. Minutes to the January meeting were approved as written.
3. The Nominating Committee, consisting of Eric Tinglof, Bob Braun, Dick Glumac, Gene Valerio, Tom Reinarts, and Carl Jordan, nominated Gail Schiller-Brager and Roy Gifford to serve on the Board of Directors for next year. Nominations from the floor will be taken at the March meeting. Nominees must have a letter of acceptance in our records, and be members in good standing at Society level, as well as locally.
4. Eric Tinglof made note that many of us have not paid our dues as of yet. It is not too late to get dues paid. This month (February) is "Get a New Member" month. Check around your office and introduce fellow workers to our organization. The chapter also earns PAOE points for new members.  
  
Roy Gifford will be sending out his letter regarding research donations for this year. Consider contributions both personally and as a business.
6. Dick Charles shared a little about the New York Winter meeting. Remember ASHRAE Research is supported by individual members. We are all a part of ongoing research in our industry.
7. The recommended changes to our Bylaws and our Constitution are still being considered by Society. Because of this we are not considered delinquent.
8. Mark Luckes announced that the Golf Tournament will be a Scramble this year. There are seven foursomes signed up already. If you can't get a foursome together, but still want to play, call Mark and he will set up a group for you.
9. Gail needs speakers to help SWE (Society of Women Engineers) reach Junior High and High School students, and get them interested in Engineering as soon as possible. If you can help give her a call.

10. Barbara Dilts introduced Dr. Joseph Klems, Deputy Group Leader at LBL, to speak on Fenestration Performance in the Building System (an ASHRAE funded program).

There have been many studies in creating new and better window systems. One type of window that has been evaluated is the Low-e (low emissivity coatings). Shading coefficients as well as U-values are studied in the "MOWITT" unit. The ASHRAE Fundamentals Book will reflect many of these studies.

Shading coefficients and solar heat gain factors are some of the areas under scrutiny, along with shading system treatments.

The "Right" window can out-perform an opaque window.

11. The meeting was adjourned at 9:30 pm.

Respectfully Submitted,

Fran Scholl

**THE MARBLE DRAW**

Next month's starting pot: \$205  
Odds: 5.9%  
Black marbles left: 17

Increase Your Professional Knowledge -  
Help Your Chapter Earn PAOE Points -

Attend ASHRAE's  
Professional Development Seminars (PDS)

"Automatic Temperature Controls"  
April 9-10, 1991

"DDC for HVAC Monitoring & Control"  
April 11-12, 1991

in  
Los Angeles

For a complete program brochure and registration information contact Marietta Henry at ASHRAE Headquarters (404-636-8400).

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX  
FOR THURSDAY, MARCH 7, 1991

TO: BARBARA DILTS - PG&E - (415) 973-8166

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FAX EARLY! CALL BARBARA (973-3570) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS. PLEASE CANCEL YOUR RESERVATIONS IF YOU CAN'T ATTEND THE MEETING. NO MORE GREY HAIRS FOR THE PROGRAM CHAIR!!

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

STUDENT SPONSORSHIP

- \*\* I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR \_\_\_\_\_ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.
- \*\* I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR \_\_\_\_\_ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO \_\_\_\_\_ PER MEETING, AND/OR, A TOTAL OF \_\_\_\_\_ PER YEAR.
- \*\* \_\_\_\_\_ I WOULD BE INTERESTED IN A DISCOUNT IF I PAY FOR CHAPTER MEETING DINNERS IN ADVANCE.
- \*\* HERE'S ANOTHER IDEA \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

CHAPTER OFFICERS

TOM REINARTS	PRESIDENT
BARBARA DILTS	PRESIDENT-ELECT
FRAN SCHOLL	SECRETARY
STEVEN TAYLOR	TREASURER

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PAUL ROBINSON  
GAIL SCHILLER  
BRAD GUSTAFSON  
CHRISTINE NOLL  
MARK LUCKES  
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TENNIS

DAVE RIFKIN  
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ELLEN PIERCE  
ERIC ENSENA  
LEWIS BROOKS  
ROY GIFFORD  
JIM TAYLOR  
PETE JOHNSON  
DAN REITER  
DENNIS THOMPSON  
WAYNE HUMPHREY



Golden Gate Chapter  
ASHRAE  
370 Brannan Street  
San Francisco, CA 94107

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXX No. 7

APRIL 1991

### MEETING NOTICE

DATE: THURS., APRIL 4, 1991  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 SANSOME STREET  
SAN FRANCISCO, CA  
COST: \$25.00  
NOTE: PLEASE PHONE OR FAX YOUR DINNER RESERVATION TO BARBARA DILTS AT PG&E BY NOON ON TUESDAY AT THE LATEST. A FAX FORM IS ENCLOSED FOR YOUR CONVENIENCE.  
PHONE: 973-3570  
FAX: 973-8166

### APRIL PROGRAM

This year, Student Night will provide an opportunity for students to play a more active role in our meeting. A total of 4-6 students from San Francisco State and U.C. Berkeley will spend 5 minutes each presenting examples of their current research. The students' work represents a wide range of ASHRAE-related interests, such as heat pumps, co-generation, end-use efficiency, energy monitoring, and standards for air movement in buildings.

This is an important night for us to show our support of students. We encourage you to sign-up for sponsoring a student on the dinner reservation form.

Barbara Dilts



• Manufacturer's Representative of Quality Technical Products •  
• Established 1964 •

• 100 North Hill Drive #12 • PO Box 400 •  
Brisbane, Ca 94005  
• Phone (415) 467-8680 • Fax (415) 468-4159 •

#### BAY AREA SALES STAFF:

GERRY YAFFE, CHUCK SHANE, AL ALEXY,  
ERIC TINGLOF, DOUG HERBERT, RON YAFFE,  
JIM HARRINGTON, DEBI MAY, ARIAN SORKHABI

### FEATURING

- CHILLERS - WATER OR AIR-COOLED/ALL R22
- CUSTOM OR STANDARD AIR HANDLING UNITS
- FANS: COMMERCIAL AND INDUSTRIAL
- MAKE-UP AIR UNITS
- EVAPORATIVE COOLING; DIRECT AND INDIRECT
- SOUND CONTROL
- HUMIDIFIERS; ELECTRODE STEAM AND ATOMIZING
- INDOOR POOL ENCLOSURE DEHUMIDIFICATION
- COMPUTER ROOM A/C FLOOR AND CEILING
- VAV BOXES\*
- VAV FUME HOOD EXHAUST SYSTEMS
- VIBRATION ISOLATION\*
- STEAM HUMIDIFIER REPLACEMENT CYLINDERS\*

\*IN STOCK, BRISBANE WAREHOUSE

**PRESIDENT'S MESSAGE**



exciting tennis and golf events planned. They always bring the "ringers" out of the bushes. Both events should be a lot of fun. Don't forget the CRC. It is being held May 1 through May 3, 1991, in the City of Industry (Los Angeles). A very broad program is planned. The CRC is a good place to meet new people, exchange ideas and see ASHRAE Society in operation at the "grass roots" level.

Before the end of the chapter year in June, we need in place a chairman and vice chairman for each committee because the summer months are used to plan next year's activities. Please let one of the officers or directors know of your interests as soon as possible. There are a lot of benefits to being actively involved in your chapter.

Tom Reinarts

President

With the rapid approach of Spring and Summer, we need to turn our thoughts to the completion of this year's business and recreational activities and commence planning for the coming year.

Our committees are doing just that -- Dave Rifkin and Dennis Thompson are in the final planning stages of a joint technical seminar and table top equipment show. Combining these events should provide something for everyone and make for a very productive and educational day. Roy Gifford has one of the toughest jobs of all -- requesting donations for research promotion. It is always difficult to ask people to give -- especially when so many different organizations are asking. Most, if not all, causes are worthwhile, but few have the broad impact on the world that the ASHRAE research program does. Please be as generous as you can.

Recreational activities are always an important part of a healthy program. Wayne Humphrey and Mark Luckes have

**FOG DISPENSER EDITOR NEEDED**

Volunteer needed immediately to begin training for editor position. Volunteer will assist in preparing May and June issues of Fog Dispenser, and shall assume full responsibility for the publication of the Fall 1991-Spring 1992 Fog Dispenser.

If interested, please contact Christine Noll at Ted Jacob Engineering Group, 1763 Broadway, Oakland, CA, (415) 763-4880.

**ASHRAE HONORS TOM GILBERTSON AS NEW FELLOW**



Tom Gilbertson and President Gowan

ASHRAE elevated Thomas A. Gilbertson, P.E., to the grade of Fellow at the Society's 1991 Winter Meeting in New York, NY, January 19-23. Gilbertson, president of Thomas A. Gilbertson & Associates in Moraga, CA, is an expert in total energy systems and ice storage plants. He has earned seven U.S. patents and eight foreign patents, written articles, and worked on many projects, including Kanaapali Whaler Hotel, Stanford Research Institute, Emerald Shapery Center and Bank of America World Headquarters.

Congratulations from all of us, Tom!!

**SAN FRANCISCO BBI CREATES NEWSLETTER**

The City of San Francisco Bureau of Building Inspection under the leadership of Larry Litchfield has started to publish a bi-monthly newsletter that provides updates on new city codes and ordinances, as well as other issues.

Contact the Bureau of Building Inspection, Public Services Division, 450 McAllister Street, #101, San Francisco, CA, 94102, in order to get on their mailing list. There is also a separate mailing list for those individuals wishing to receive proposed city code/ordinance changes relative to building construction.

**EMPLOYMENT OPPORTUNITIES**

**SENIOR MECHANICAL ENGINEERS - HVAC**

- \* 5+ years experience required. California P.E. preferred.
- \* Background in commercial, high tech, and institutional facilities design.
- \* Several positions available. Contract or temporary to permanent.
- \* Interested parties please contact Steve Guerzon at (415) 341-0947 for information regarding these positions.

DSI is a well established contract engineering firm. We have been in business in the Bay Area for 11 years and have on-going relationships with a number of prominent Engineering and Manufacturing firms. For future consideration, please submit a resume to:

DSI  
177 Bovet Rd. Suite 600  
San Mateo, CA 94402

**LATEST UP-DATE ON TABLE TOP SHOW**

Save Thursday, April 18, 9am to 4:30pm! Engineers, HVAC Contractors, architects and interested persons are welcome to attend. Admission is free. Location is convenient at the Nimitz Conference Center on Treasure Island Naval Base, Bldg. 140 (plenty of free parking). The Table Top Show will run concurrently with the annual technical seminar "Indoor Air Quality". Show tickets are available from vendors, reps, or by calling Doug Herbert (467-8680) or Dave Rifkin (483-4856). If you plan to come we need to know 7 days in advance so we can accommodate base security. If you have questions on the technical seminar, contact Dennis Thompson (408-739-2880). There is a charge for the seminar, but the show is free of charge.

**THE MARBLE DRAW**

Next month's starting pot: \$249  
Odds: 6.0%  
Black marbles left: 16

DO YOU KNOW A PROSPECTIVE NEW MEMBER?  
Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680  
MAIL, FAX or PHONE NEWS TO:  
FOG DISPENSER  
Christine Noll, Editor  
c/o Ted Jacob Engineering  
1763 Broadway Street  
Oakland, CA 94612-2105  
Telephone (415) 763 - 4880  
FAX (415) 763 - 5099

FOG DISPENSER COPY DEADLINE	
Meeting Date	Copy Deadline
April 4, 1991	March 13, 1991
May 2, 1991	April 12, 1991
June 6, 1991	May 15, 1991

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Steven T. Taylor.....Treasurer  
**Board of Governors**  
Richard Leao                      Richard Paillon  
Gino Colacchia

ASHRAE GOLDEN GATE CHAPTER

**DINNER RESERVATION FAX**  
FOR THURSDAY, APRIL 4, 1991

TO: **BARBARA DILTS - PG&E - (415) 973-8166**

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
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_____	_____

FAX EARLY! CALL BARBARA (973-3570) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS. PLEASE CANCEL YOUR RESERVATIONS IF YOU CAN'T ATTEND THE MEETING.

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

**STUDENT SPONSORSHIP**

**THIS IS AN IMPORTANT NIGHT FOR US TO SHOW OUR SUPPORT OF STUDENTS. WE ENCOURAGE YOU TO SIGN-UP FOR SPONSORING A STUDENT AT THIS MEETING.**

\*\*I WOULD LIKE TO SPONSOR \_\_\_\_ STUDENTS FOR THE APRIL STUDENT NIGHT MEETING AT \$25 EACH.

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

**MINUTES OF THE MARCH MEETING  
MARCH 7, 1991**

1. The meeting was called to order at 7:30 pm March 7, 1991 by President Tom Reinarts. Self introductions followed.
2. Minutes to the February meeting were approved as written.
3. Nominations for next years officers was opened to the floor. There were no new entries, so nominations were closed. A ballot will be mailed out. They must be returned via mail or in person at the April meeting.
4. Committee Reports:
  - a. Technical Seminar/Table Top Show: The exhibitor packets are in the mail with rules and description of activities. No union problems for set up or break-down. Buffet luncheon/no host bar. See registration in this month's Fog Dispenser. Profits go to research.
  - b. The Golf Tournament is April 29. Space is available. \$100 for a foursome. Sign up now with Mark Luckes.
  - c. The tennis tournament is the first Friday in June. Details to follow.
  - d. Education Activities: Call Gail Brager or Fran Scholl if you or your office did any activities with students during Engineers Week. Gail also needs a collection of HVAC slides and outdated catalogues.
  - e. Scholarship: Dan Reiter announced that we have not gotten a good response to the two scholarships we have offered.
  - f. Government Affairs: Bob Braun asks that anyone interested in having access to a directory of Mechanical and Building inspectors/officials call him and offer suggestions.
5. Barbara Dilts introduced speaker Ken Mozek from York International, speaking on CFC issues.
  - a. CFC 11, 12, and 500 are scheduled to be eliminated. Production of these refrigerants will stop by the year 2000.
6. The meeting was adjourned at 9:05 pm.

Respectfully Submitted,

Fran Scholl

**REQUEST FOR TEACHING MATERIALS**

Gail Brager requested help in expanding her visual resources used for teaching HVAC and attracting students to the discipline. She is looking for: 1) manufacturers' catalogs, and 2) slides (copies that can be donated directly, or originals that may be borrowed, copied, and returned). For the slides in particular, Gail is especially interested in images that illustrate how different HVAC systems affect the form and layout of the building, and how they are integrated with other building systems. Examples might include location and space requirements of major equipment, distribution systems, and terminal units.

Gail hopes to collect these resources beginning the month of April, and through the summer. If you can help out, please contact Gail to make further arrangements. Phone: 642-1696, fax: 643-5571.

CHAPTER OFFICERS

TOM REINARTS	PRESIDENT
BARBARA DILTS	PRESIDENT-ELECT
FRAN SCHOLL	SECRETARY
STEVEN TAYLOR	TREASURER

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WAYNE HUMPHREY



Golden Gate Chapter  
ASHRAE  
370 Brannan Street  
San Francisco, CA 94107



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXX No. 8

MAY 1991

MEETING NOTICE

DATE: THURS., MAY 2, 1991  
FIELD TRIP: 6:30 P.M.  
LOCATION: WURSTER HALL  
UC BERKELEY  
BERKELEY, CA  
NOTE: PLEASE PHONE OR FAX YOUR MEETING & DINNER RESERVATION TO RICK PAILLON AT GUTTMAN & MACRITCHIE BY NOON ON TUESDAY AT THE LATEST. A FAX FORM IS ENCLOSED FOR YOUR CONVENIENCE.  
PHONE: 512-8910  
FAX: 512-8784

MAY PROGRAM

The Controlled Environment Chamber in Wurster Hall at UC Berkeley studies how environmental control systems affect people's comfort and productivity in the workplace. New diffuser designs, individually controllable HVAC systems, and the human response to local air distribution are some of the research areas in this experimental "office" chamber. Come see some of the ideas and equipment that may influence the offices we design, build and work in.

Parking can be a problem. Think carpool. See the enclosed map. Come early, park, and enjoy the campus until the meeting. Optional dinner afterwards at Spenger's in Berkeley. Rick Paillon is in charge this month. Call him or me with questions.

Barbara Dilts

AIRCO SYSTEMS INC

1590 ROLLINS RD - BURLINGAME - 94010 - PH 692-0232 - FAX 692-7889

JERRY NOLAN JOE BIBAT AL VALERIO BOB OLSON JIM PLAKOS  
DANTE SAPORSANTOS RENE LOPEZ TONY BULAN SHIRLEY MYERS

CARNES - AIR OUTLETS, VAV'S, FANS, VENTS, LOUVERS, HUMIDIFIERS

NAILOR - FIRE DAMPERS, SMOKE DAMPERS, FIRE RATED DIFFUSERS

PEERLESS - COMMERCIAL AND INDUSTRIAL FANS AND BLOWERS

VENTAIRE - CARBON MONOXIDE AND WELDING EXHAUST SYSTEMS

DYNASONICS - SOUND ATTENUATORS AND ACOUSTIC PANELS

SACRAMENTO, FRESNO AND SANTA BARBARA

**PRESIDENT'S MESSAGE**



Society maintains a Washington, D.C. office to keep in touch with political events on a national level. The charter of the Washington office is to "maintain the channels of communication open between national policy makers and the HVAC&R technical community." There are several HVAC/ASHRAE issues that are in the limelight. Issues such as energy, air quality and the environment, not to mention taxes and other business-related legislation. The ASHRAE "point of view" is presented by the Washington office. Any of the Golden Gate Chapter members that would like to contact the office can do so.

The Washington Office  
 ASHRAE  
 1825 K Street, N.W., Suite 215  
 Washington, D.C. 20006  
 (202) 833-1830

Don't forget the CRC -- May 1 through May 3, 1991.

Tom Reinarts  
 President

Congratulations to the new Officers and Directors that were elected at the April meeting. It is interesting to note that 50% of the elected positions are filled by women. It again confirms the foresight of the Golden Gate Chapter. The leadership has been selected from those who have worked hard and have the desire to undertake added responsibilities. They are going to need the help and support from all of the membership to continue the traditions of the Golden Gate Chapter.

By the time you receive the May issue of the FOG DISPENSER, the Technical Seminar and Table Top Equipment Show will be over. Dennis Thompson and Dave Rifkin have worked hard to make this a beneficial and successful event for our members as well as suppliers and manufacturers who are represented by some of our members and do support our chapter. The combined activity seems to work very well and is widely endorsed by everyone.

**DO YOU KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chair:  
 Eric Tinglof (415) 467 - 8680

MAIL, FAX or PHONE NEWS TO:

FOG DISPENSER  
 Christine Noll, Editor  
 c/o Ted Jacob Engineering  
 1763 Broadway Street  
 Oakland, CA 94612-2105

Telephone (415) 763 - 4880  
 FAX (415) 763 - 5099

**FOG DISPENSER**

**COPY DEADLINE**

<u>Meeting Date</u>	<u>Copy Deadline</u>
May 2, 1991	April 12, 1991
June 6, 1991	May 15, 1991

*Published monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107, Phone (415) 495 - 4552*

**1990 - 1991 Officers**

Thomas Reinarts .....President  
 Barbara S. Dilts .....President - Elect  
 Frances N. Scholl .....Secretary  
 Steven T. Taylor.....Treasurer

**Board of Governors**

Richard Leao                      Richard Paillon  
 Gino Colacchia

**EMPLOYMENT OPPORTUNITIES**

**MECHANICAL ENGINEER/RESEARCHER**

Mechanical Engineer/Researcher for R&D planning and technology assessment in HVAC, refrigeration, electric power generating equipment, and miscellaneous electric technologies for energy/technical transfer consulting firm. Excellent writing and graphic communication skills a must. MS-ME plus 3-10 years relevant experience preferred. Send resume, salary expectations, references, and writing samples to:

Rich Myhre  
 Bevilacqua Knight, Inc.  
 492 9th Street  
 Oakland, CA 94607

**EMPLOYMENT DESIRED**

Student seeking summer job. Spring '92 ME grad, 3.2 GPA, good writing skills (editor of School Engineering Department newsletter). Experience with Autocad, word processing, database, spread sheet and desk-top publishing. Self-motivated and directed, looking for challenging position this summer, can start at the end of May. Call Mark Guglielmana at 252-9211.

**NEW PRESIDENT AND CEO**

Marlin J. Whitney has been elected President and CEO of Vann Engineering Corporation, Concord based Mechanical Engineers and Contractors. The change will take place April 1 said Michael T. Cory, P.E., retiring as President after nearly 20 years at the helm of the 33 year old business. His interest has been acquired by Mr. Whitney, Hratch Krikorian, Vice President - Marketing and Lillian Dreyer, Vice President and Chief Financial Officer. Mr. Cory will continue with the firm in an engineering and marketing capacity.

**THE MARBLE DRAW**

Next month's starting pot:                      \$283  
 Odds:    6.25%  
 Black marbles left:                                      15

**MINUTES OF THE APRIL MEETING****APRIL 4, 1991**

1. The meeting was called to order at 7:30 pm April 4, 1991 by President Tom Reinarts. Self introductions followed.

Christopher Sommer - ACCO  
 Ben Sun - Flack & Kurtz  
 Rick Paillon - Guttman & MacRitchie  
 Pacific Gas & Electric  
 Eric Ensenat - Landis & Gyr Powers  
 Jon Wintermeyer - Keller & Gannon

2. Minutes to the February meeting were approved as written. Self introductions followed.

3. Committee Reports:

Education/Gail Brager: The shadow an Engineer program gave some students a chance to see how different companies function.

Roy Gifford/Research: Information is forthcoming.

Dave Rifkin/Table Top Product Show: 40 vendors will be showing their products. The security issue should be resolved by the time of the show.

Scholarship/Dan Reiter: The Golden Gate Chapter Scholarship of \$500 was awarded to Barry Jimon of the University of California, Berkeley. The Eric Thor Andreson Scholarship of \$500 was awarded to Brendan Robinson, an undergraduate at the University of California, Berkeley.

Dennis Thompson/Technical Seminar: In conjunction with the Table-Top Show. Bob Spense will be speaking on Indoor Air Quality.

Program/Gail Brager: The following students presented a brief description of their projects of interest/class studies. From UCB: Barry Jimon, Brendan Robinson, Kristin Heinemeier, David Ernest, and Anne Sprunt. From SF State: Bruce Lloyd.

The CRC is coming April 30 thru May 2, in LA. Registration forms for the Hotel and CRC attendance are available through Barbara. If there are motions that need to be presented, please give them to Barbara or Fran BEFORE the CRC.

Election: The tellers of the Ballots were Mac Parfet, Matt Goff, and Gene Valerio. There were 52 unanimous votes electing the following officers for 1991-1992 term: President-Elect, Fran Scholl; Secretary, Rich Leao; Treasurer, Richard Paillon; Senior Board Member, Gail Brager; Junior Board Member, L.L. Roy Gifford. Thomas Reinarts automatically becomes past president, and Barbara Dilts automatically becomes President.

4. The meeting was adjourned at 9:20 pm.

Respectfully Submitted,

Fran Scholl

The following companies/individuals sponsored Student Dinners:

Dan Reiter - Montgomery & Roberts  
 Glen Friedman - Engineered Air Systems  
 Tom Gilbertson - Tom Gilbertson & Assoc.  
 Brad Gustafson - Trane Company  
 Carl Jordan  
 Jack Kniveton - Norman Wright Equip. Co.  
 Jim Nemechek - Air Filter Control  
 Dart Rinefort - Glumac and Assoc.

**FOG DISPENSER EDITOR NEEDED**

Volunteer needed immediately to begin training for editor position. Volunteer will assist in preparing June issue of Fog Dispenser, and shall assume full responsibility for the publication of the Fall 1991-Spring 1992 Fog Dispenser.

If interested, please contact Christine Noll at Ted Jacob Engineering Group, 1763 Broadway, Oakland, CA, (415)763-4880.

ASHRAE GOLDEN GATE CHAPTER

**DINNER RESERVATION FAX**  
FOR THURSDAY, MAY 2, 1991

TO: **RICK PAILLON (415) 512-8784 FAX**

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

FIELD TRIP ONLY

DINNER AT SPENGER'S

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FAX EARLY! CALL RICK (512-8910) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS. PLEASE CANCEL YOUR RESERVATIONS IF YOU CAN'T ATTEND THE FIELD TRIP OR DINNER

WE NEED TO LET SPENGER'S KNOW HOW MANY ARE COMING. YOU CAN ORDER WHAT YOU WANT FROM THE MENU. DINNERS AVERAGE ABOUT \$12-\$15.

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_

CHAPTER OFFICERS

TOM REINARTS      PRESIDENT  
 BARBARA DILTS    PRESIDENT-ELECT  
 FRAN SCHOLL      SECRETARY  
 STEVEN TAYLOR    TREASURER

BOARD OF GOVERNORS

RICHARD LEAO  
 RICHARD PAILLON  
 GINO COLACCHIA

COMMITTEE/CHAIRPERSONS

AUDITING  
 AWARDS  
 BAEC  
 CODE  
 EDUCATION  
 ENERGY CONSERVATION  
 FOG DISPENSER  
 GOLF  
 GOVERNMENT AFFAIRS  
 HISTORIAN  
 HONOR ROLL  
 MEMBERSHIP

JOHN LEWIS  
 JACK KNIVETON  
 TOM REINARTS  
 PAUL ROBINSON  
 GAIL SCHILLER  
 BRAD GUSTAFSON  
 CHRISTINE NOLL  
 MARK LUCKES  
 BOB BRAUN  
 BOB PHILLIPS  
 TIMOTHY PROVO  
 ERIC TINGLOF

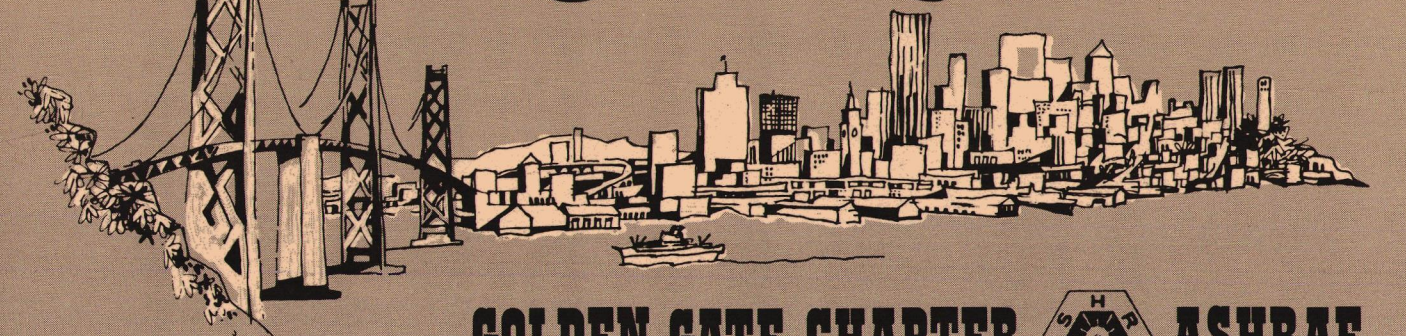
PRODUCT SHOW  
 PROGRAM  
 PUBLICITY  
 RECEPTION  
 REFRIGERATION  
 RESEARCH PROMOTION  
 ROSTER  
 S.F. ADMIN CODE  
 SCHOLARSHIP  
 SEMINAR  
 TENNIS

DAVE RIFKIN  
 BARBARA DILTS  
 ELLEN PIERCE  
 ERIC ENSENA  
 LEWIS BROOKS  
 ROY GIFFORD  
 JIM TAYLOR  
 PETE JOHNSON  
 DAN REITER  
 DENNIS THOMPSON  
 WAYNE HUMPHREY



Golden Gate Chapter  
 ASHRAE  
 370 Brannan Street  
 San Francisco, CA 94107

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXX No. 9

JUNE 1991

MEETING NOTICE

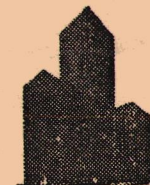
DATE: THURS., JUNE 6, 1991  
 SOCIAL HOUR: 5:30 P.M.  
 DINNER: 6:30 P.M.  
 LOCATION: ENGINEERS CLUB  
 160 SANSOME STREET  
 SAN FRANCISCO, CA  
 COST: \$25.00  
 NOTE: PLEASE PHONE OR FAX YOUR  
 DINNER RESERVATION TO BARBARA  
 DILTS AT PG&E  
 BY NOON ON TUESDAY AT THE  
 LATEST. A FAX FORM IS ENCLOSED  
 FOR YOUR CONVENIENCE.  
 PHONE: 973-2030  
 FAX: 973-8166

JUNE PROGRAM

The last meeting of our Chapter year is always special. Lots of folks have worked very hard to make this a successful year for the Golden Gate Chapter. We will honor these people and thank them for all of their contributions and accomplishments. The June meeting is also a time to recognize and thank our Past Presidents and companions. We needed their wisdom and assistance through the year to achieve what we have. Please invite your favorite companion to the meeting. The Engineers' Club is planning a special dinner AND dessert. Send/call your reservations in EARLY. Don't end up with peanut butter.

Barbara Dilts

TEL: (415) 777-5333  
 FAX: (415) 641-4413



NORMAN WRIGHT MECHANICAL EQUIPMENT CORPORATION  
 2398 Jerrold Avenue San Francisco, CA 94124

JACK KNIVETON      RICHARD LEAO  
 LARRY KENT      CELINA REAGAN      SAL GIGLIO  
 SARI ZIMMERMAN      IGOR KOGAN  
 GRACE LEE      MIKE CADOO  
 GINA NIBBI      JOYCE HERNANDEZ

Sacramento \* Fresno \* Santa Clara \* Honolulu \*  
 Reno \* Santa Barbara \* Chico

PRESIDENT'S MESSAGE



The Golden Gate Chapter of the American Society of Heating, Refrigeration and Air Conditioning Engineers has completed another successful year. The Chapter has served the needs of the membership very well -- programs, information exchange, continuing education and social relaxation. It takes a lot of people to accomplish all of the activities that are needed to make the Chapter successful. The Golden Gate Chapter has these people "In spades". There was always someone willing to accept the challenge and the responsibility that goes along with it. We have many people to thank for the success of our Chapter...THANK YOU!!

The CRC held in the City of Industry on May 1-3, 1991, was interesting and successful. Our Golden Gate delegates were Barbara Dilts and Fran Scholl -- they represented the Chapter very well. As usual, the Chapter had several motions that kept the meeting lively. In addition, several other chapter members attended and I think all of them found the meeting to be very worthwhile business-wise,

professionally and socially. I encourage all of you to attend at least one CRC -- you'll be glad you did. For any of you that would like to serve the Society on a Regional or Headquarters level, please let one of the officers or directors know and we will make those desires known to the proper people.

On the social front, Mark Luckes organized a very successful golf tournament. Twenty-six foursomes participated. Everyone had a great time. The only problem is that we have to make sure the rules of the game are understood -- that is, low score wins. It has been several years since we had a golf outing, so it was good to see it come back with such enthusiasm. Next year will be bigger and better. The memorial tennis tournament is also just around the corner. Wayne Humphrey has planned a great event. While it will be a lot of fun, it will also benefit the Eric Thor Andresen Scholarship Fund.

It has been an honor and pleasure to serve as your President this year. It has been especially rewarding to work with all of the people that so willingly give of their time to our Society. To all of you that made this year successful, whether it be by participating on a committee, serving on the Board, serving the Region and Society or by attending the meetings and programs, I want to say thank you for your support.

Planning for next year has already begun, so if you have any suggestions or offers of help, please let the new Officers and Directors know.

Tom Reinarts

President

EMPLOYMENT OPPORTUNITIES

HVAC SALESMEN

Prime Air, a growing manufacturer's representative for HVAC products, has openings for outside sales engineers to call on engineers and contractors in the South Bay Area. Please send resume to:

Prime Air  
700 So. Claremont Street #111  
San Mateo, CA 94402

NEW PRESIDENT OF MCAA

Victor Bach, long time ASHRAE and Golden Gate Chapter member, is serving this year as President of the Mechanical Contractors Association of America. ASHRAE and MCAA have a close working relationship. Vic will address the Board of Directors at the Indianapolis Meeting. Good luck, Vic!

NEW CONSULTING FIRM

Leonard A. Fisher, P.E. and Daig O'Connell, P.E., have announced the formation of their new consulting mechanical engineering firm, Fisher O'Connell Associates, Inc. The firm opened for business April 1, 1991, specializing in health care and institutional projects in the Bay Area.

Both Fisher and O'Connell have designed mechanical systems for over ten years in the Bay Area, having worked for both Gayner Engineers and Syska & Hennessy. Some of their most prestigious projects include: Moscone Center Expansion, the AIDS Research Laboratory at San Francisco General Hospital, UC Berkeley Foothill Student Housing, and the Birthing Center at Pacific Presbyterian Medical Center.

Key individuals joining Fisher and O'Connell at their 375 Fremont Street office are Victor Menezes, Chief of Plumbing and Fire Protection, and Darra Young, Business Development and Office Manager. Please contact Darra Young at (415) 777-4477 for more information.

UC BERKELEY EXTENSION COURSES

This fall, **Refrigerating Concepts** (Sept. 11-Dec. 4) and **Temperature Controls for Heating and Air Conditioning Systems** (Sept. 11-Dec. 4) will be held at the UC Extension Center, 55 Laguna St., San Francisco. The courses are sponsored by Continuing Education in Engineering, University Extension, University of California, Berkeley. For information, call (415)642-4151.

**Refrigerating Concepts** will be taught by Lewis Brooks, owner of Brooks Enterprises, Burlingame. The course will emphasize the vapor-compression cycle, including system components, capacities, and selection and sizing of equipment. Enrollment is limited. Registration is \$265.

The instructor for **Temperature Controls for Heating and Air Conditioning Systems** is Frank Mayhew, a consultant in energy conservation and temperature controls for air conditioning and refrigeration in Castro Valley. The course will provide a working knowledge of the principles involved in the selection and design of temperature controls for HVAC systems. Enrollment is limited. Registration is \$265.

THE MARBLE DRAW

Next month's starting pot: \$283  
Odds: 6.25%  
Black marbles left: 15

This month's marble draw will include a gift raffle.

Timothy Provo  
Raffle Chairman

DO YOU KNOW A PROSPECTIVE NEW MEMBER?  
Contact Membership Chair:  
Eric Tinglof (415) 467 - 8680  
MAIL, FAX or PHONE NEWS TO:  
FOG DISPENSER  
Christine Noll, Editor  
c/o Ted Jacob Engineering  
1763 Broadway Street  
Oakland, CA 94612-2105  
Telephone (415) 763 - 4880  
FAX (415) 763 - 5099

FOG DISPENSER COPY DEADLINE	
Meeting Date	Copy Deadline
June 6, 1991	May 15, 1991

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Barbara S. Dilts .....President - Elect  
Frances N. Scholl .....Secretary  
Steven T. Taylor.....Treasurer  
**Board of Governors**  
Richard Leao                      Richard Paillon  
Gino Colacchia

**REPORT ON THE ASHRAE FIELD TRIP**

A field trip to the Building Science Lab at the University of California was held in place of the May meeting. Ed Arens, the Lead Professor of the Building Science Lab, started the field trip with a short slide presentation of the various activities of his department. This was followed by a tour of three areas in the laboratory.

A research cart used in gathering field data was demonstrated. It consisted of air temperature, radiant temperature, dewpoint temperature and velocity sensors mounted at standard ASHRAE heights and a bank of electronic gear to gather, record, and manipulate data. The cart is used to gather data at precise locations that are correlated with survey data on comfort obtained from building occupants at those locations.

A controlled environmental chamber where air and radiant temperature can be closely controlled and monitored was also visited. The chamber has a false floor that allows for task-type air distribution. Individually controlled local air distribution systems were being evaluated.

The center has a wind tunnel that is used with models of buildings and their surroundings that are under study. Wind patterns and velocities at street level and natural ventilation characteristics are some of the properties that can be simulated and studied.

After the field trip several members had dinner together at Spenger's in Berkeley.

Rich Paillon

**NAME BADGES**

Eric Ensenat wants to make sure that everyone has a name badge for the October meeting. If you're new and don't have one yet or if yours has "vanished", please call Eric (415) 483-1000. P.S. Don't forget to pay your Chapter dues.

**SCHEDULED PROGRAMS FOR 1991-1992**

Oct. 3	Ammonia - The Perfect Refrigerant
Nov. 7	Clean Room Design Applications
Dec. 5	Test & Balance; Start-Up Trouble Shooting
Jan. 9	Noise Control in HVAC Systems Field Trip
Feb. 6	Not Scheduled
Mar. 5	Not Scheduled
Apr. 2	Not Scheduled
May 14	(Scheduled to Miss CRC in Sacramento)
June 4	Awards Program

If you have a program idea for a meeting not yet scheduled please call Fran Scholl at (415) 369-1880.

**IN MEMORY**

Leonard J. Brown, a long time member of the Golden Gate Chapter has passed away at the age of 72. He joined the predecessor society, ASHVE in 1948. He was a Life Member of the Society. We will miss him.

**NEW MEMBERS**

Please welcome the following new members to our Chapter:

Peter Turnbull	PG&E
Richard Shonfeld	Kaiser Eng. Livermore
Edgardo DeGuzman	ACCO
Nance Matson	
Scott Strawbridge	MCA, No. California
Russ O'Brien	MCA, No. California
William "Mac" Parfet	Honeywell

Eric Tinglof  
Membership Chairman

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX  
FOR THURSDAY, JUNE 6, 1991

TO: BARBARA DILTS - PG&E - (415) 973-8166

PLEASE MAKE \_\_\_\_\_ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
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_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FAX EARLY! CALL BARBARA (973-2030) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS. PLEASE CANCEL YOUR RESERVATIONS IF YOU CAN'T ATTEND THE MEETING.

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

SIGNATURE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ PHONE: \_\_\_\_\_