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 Richard Paillon President-Elect
 Gail Brager Secretary
 Roy Gifford Treasurer

BOARD OF GOVERNORS

Barbara Dilts
 Daniel Reiter
 Dennis Thompson

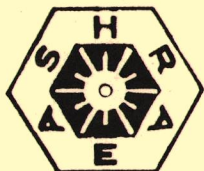
COMMITTEES AND CHAIRPERSONS

ATTENDANCE
 AUDITING
 AWARDS
 BAEC
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 EDUCATION
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 FOG DISPENSER
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 Mark Hydeman
 Rachel Murray
 Mark Luckes
 Robert Braun
 Robert Phillips
 Tim Provo

MARBLES GAME
 MEMBERSHIP
 PRODUCT SHOW
 PROGRAM
 PUBLICITY
 RECEPTION
 REFRIGERATION
 RESEARCH PROMOTION
 ROSTER
 SF ADMIN. CODE
 SCHOLARSHIP
 SEMINAR
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Tim Provo
 Michael Rubio
 Brad Gustafson
 Richard Paillon
 Ellen Pierce
 Sal Giglio
 Lewis Brooks
 Ben Sun
 Jim Taylor
 Pete Johnson
 Debi May
 Ernie French
 Said Nazeri



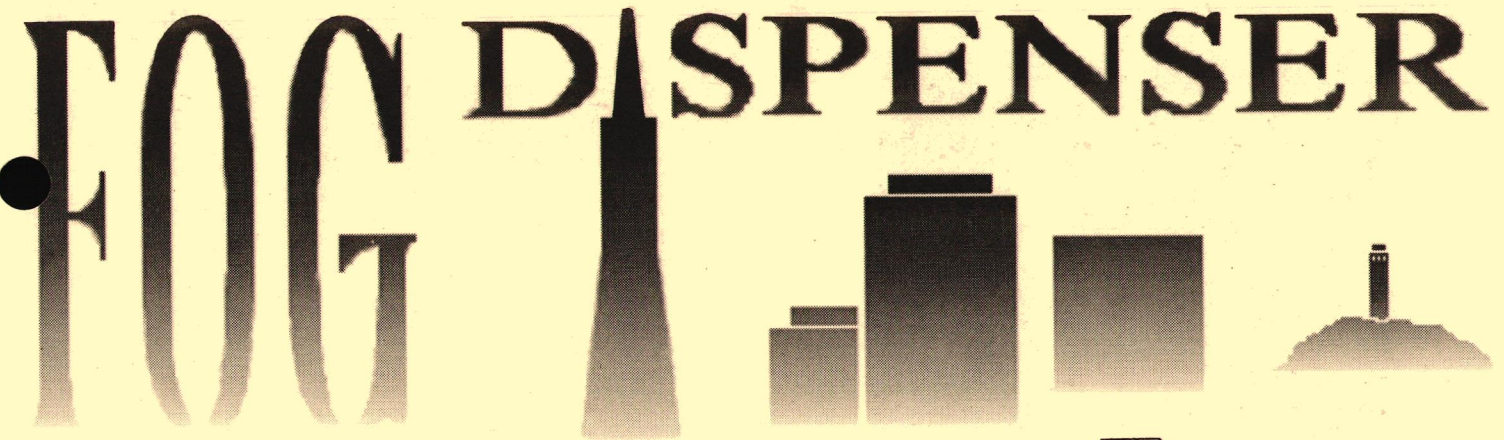
Golden Gate Chapter
 ASHRAE
 370 Brannan Street
 San Francisco, CA 94107



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CHARLES & BRAUN

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



Golden Gate Chapter



ASHRAE

VOLUME XXXII • NUMBER 3

DECEMBER 1992

MEETING NOTICE

DATE: Thursday, December 3, 1992
 SOCIAL HOUR: 5:30 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 Richard Paillon by noon on Tuesday. A fax form is enclosed for your convenience.
 PHONE: (415) 512-9771
 FAX: (415) 512-8940

DECEMBER PROGRAM

PROGRAM: Accomplishments of the Environmental Defense Fund in Electrical Demand Side Management
 SPEAKER: Eric Thompson of the Environmental Defense Fund

For the last two years, Mr. Thompson has worked on EDF's energy program and, more specifically, on its electrical utility macro-economic computer model. Prior to working for EDF, he worked in the residential solar industry.

The Environmental Defense Fund's work addresses the problems of global warming, pollution resulting from electrical power generation, and other environmental issues. Mr. Thompson will tell how EDF's work has influenced energy policies and building codes.

DECEMBER HONOR ROLL

MANUFACTURER'S REPRESENTATIVE

For

Conservation 2561 Westberry Drive
Mechanical Santa Rosa, CA 95403
Systems Inc. Phone and FAX 707-528-4016

- Air-to-Air Heat Exchangers and Factory Packaged Heat Recovery Systems
- Indirect/Direct Evaporative Cooling Components and Package Equipment
- Ammonia, Air Cooled, Factory Packaged Water Chillers, 30-130 Tons

C. Mike Scofield, Owner



PRESIDENT'S MESSAGE

What a tremendous turnout we had for our October meeting. We had 105 people in attendance for Student Night (including 24 students). The Pacific Energy Technical Center did a superb job on the catered food for our dinner. I would like to take this opportunity to thank Brad Gustafson of the Pacific Energy Center for being such a gracious host.

It was great to have students from 3 schools present, San Francisco State University, U.C. Berkeley, and Cal Poly. A nice welcome back to Mike Scofield of Conservation Mechanical Systems who has become a Golden Gate ASHRAE member once again.

The Board and I would like to say *thank you* to the generous donors for sponsoring the student dinners.

Mary Ann Piette, our speaker from Lawrence Berkeley Laboratory shared some very interesting results from her analysis of energy use in commercial buildings. These results definitely spurred a lot of interest based on the questions that followed.

Please be prepared to take that special phone call when our Research Promotion Chair, Ben Sun, calls regarding ASHRAE research donations.

Mike Rubio, our Membership Chair, is off to a very good start signing up new members. Let's see if we can keep the momentum going. Please invite an associate or associates to our next Chapter meeting. Remember, it will be at the Engineers Club.

Richard Leao

THE MARBLE DRAW

Next Month's Starting Pot \$306.00+
 Odds 16.67%
 Black Marbles Remaining 5



SCHOLARSHIPS AVAILABLE

This year the Golden Gate Chapter will be offering two scholarships again: The Eric Thor Andresen Memorial Scholarship for \$500 and the Golden Gate Chapter Scholarship for \$750. Both are available to San Francisco State and UC Berkeley students. For more information and an application, contact: Debi May, Scholarship Chair, at (415) 467-8680; Gail Brager, UC Berkeley, at (510) 642-1692; or Ahmad Ganji, San Francisco State at (415) 338-7736. Any donations from Golden Gate Chapter members will be appreciated. Send your donations to: Debi May, Tempco Equipment Co., P.O. Box 400, Brisbane, CA 94005. Make checks payable to Golden Gate ASHRAE.

NEW GOLDEN GATE CHAPTER MEMBERS

Please welcome the following members to our Chapter:

- Wayne Humphrey ATS Automation — Washington
- Angelo Dominguez Ted Jacob Engineering Group

CAREER OPPORTUNITIES FAIR

The Educational Activities Committee believes that one of the very best ways to promote HVAC&R to students is to demonstrate the variety of companies and career opportunities which are available within the industry. During ASHRAE's Winter meeting in Chicago, the committee will host a Career Opportunities Fair for students.

This event is scheduled for Sunday, January 24, 1993 from 2:00 p.m. to 4:00 p.m. at the Palmer House Hotel in Chicago. During this program, industry representatives will have the opportunity to talk with students about the type of career options open to new graduates. This event will help the industry become aware of the type of courses and training that students are receiving and students will learn which courses and skills are important to the industry.

Whether you represent a small consulting firm, a large manufacturing company, a utility or virtually any other company which is involved in some aspect of HVAC&R, the Educational Activities Committee invites you to participate in this important event.

There is no charge for booth space, but you must register in advance. To register or for more information, please contact Anne Forbes at ASHRAE Headquarters, 1791 Tullie Circle, Atlanta, GA 30329, (404) 636-8400, FAX (404) 321-5478.

STUDENT SPONSOR APPRECIATION

We'd like to extend our gratitude to the following individuals and companies who sponsored students at our November Chapter meeting. (We also apologize, in advance, for any omissions or errors):

- | | |
|--------------------|--------------------------------|
| Kyle Blocker | Engineered Air Systems |
| Lewis Brooks | Brooks Enterprises |
| Robert Brose | The Brose Company |
| Barbara Dilts | Pacific Gas & Electric Co. |
| Richard Frenzel | Edward B. Ward & Co. |
| Roy Gifford | Stolte Inc. |
| Karl Guttman | Guttman & MacRitchie |
| Gary Harbison | G.L. Harbison Company |
| Mark Hydeman | Charles Eley Associates |
| Carl Jordan | Consulting Mechanical Engineer |
| Glenn Leggoe | Landis & Gyr Powers |
| Kent Lim | Kent M. Lim & Company |
| David Lintott | Foster Engineering |
| Eric Morey | Necomb Anderson Associates |
| Charlie Nadig | Pacific Gas & Electric Co. |
| Jim Nemechek | Air Filter Control |
| Bob Polizzi | California Hydronics Corp. |
| Dan Reiter | Montgomery & Roberts |
| Walt Schneider | Schneider/Associates |
| Angie Simon | Western Allied Corp. |
| Christopher Sommer | ACCO |
| Ben Sun | Flack + Kurtz |
| Dennis Thompson | Pacific Coast Trane Controls |
| Jon Wintermeyer | Keller & Gannon |

DO YOU KNOW A PROSPECTIVE NEW MEMBER?

Contact *Membership Chair*:
 Michael Rubio (415) 777-5333
 (415) 641-4413 FAX

MAIL, FAX or PHONE NEWS TO:

FOG DISPENSER
 Rachel Murray, *Editor*
 Charles M. Salter Associates, Inc.
 130 Sutter Street, Suite 500
 San Francisco, CA 94104

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

FOG DISPENSER DEADLINES

Meeting Dates	Copy Deadlines
January 7, 1993	December 16, 1992
February 4, 1993	January 18, 1993
March 4, 1993	February 15, 1993
April 1, 1993	March 15, 1993
May 6, 1993	April 19, 1993
June 3, 1993	May 17, 1993

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

1992 — 1993 Officers

- Richard Leao *President*
- Richard Paillon *President-Elect*
- Gail Brager *Secretary*
- Roy Gifford *Treasurer*

Board of Governors

- Barbara Dilts Daniel Reiter
- Dennis Thompson

ASHRAE GOLDEN GATE CHAPTER

**DINNER RESERVATION FAX FOR
THURSDAY, DECEMBER 3, 1992**

Please send Fax by **noon** on **TUESDAY, December 1**

TO: RICHARD PAILLON, Randall Lamb Associates
FAX NO.: (415) 512-8940

Phone: (415) 512-9771

Please call if you have any last minute changes in plans.

Please cancel your reservation(s) if you cannot attend the meeting.

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

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

FAX EARLY!

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

SIGNATURE: _____

COMPANY: _____ PHONE: _____

MINUTES OF THE MEETING November 5, 1992

1. The meeting was called to order at 7:30 p.m.
2. Self-introductions were made. We had a total of 105 people, including a record participation of 24 students from Cal Poly, U.C. Berkeley and S.F. State.
3. The October meeting minutes were approved.
4. Rich Leao thanked all the people who sponsored students for Students Night. He also thanked Gail Brager, Barbara Dilts, Dan Reiter, and Dennis Thompson for their efforts in making phone calls and recruiting the sponsors.
5. Rich Leao and Tom White were at the Sacramento Chapter meeting last night, in recognition of the Sacramento Chapter's 40-year anniversary.
6. Rich reported that Tom White counted 10 past presidents at our last Chapter meeting.
7. Ben Sun is our new Research Promotion Committee Chair. He announced that our Chapter goal for this year is \$32,000, and warned us all that he'll be calling us soon.
8. Tom White reported on the status of our request to ASHRAE to host the 1998 Winter Meeting in San Francisco. ARI still favors Anaheim, while ASHRAE's preference seems to be leaning towards San Francisco. We'll hear the final decision in January.
9. The new Roster will be coming out soon. If you haven't already, please pay your dues to ensure your spot in the Roster.
10. Mike Rubio is our new Membership Chair. Please see him if you want to join.
11. Dan Reiter announced that this year's Scholarship will be announced in the next *Fog Dispenser*. Applications are due in February. He encouraged students to begin thinking now about their essays if they want to apply.
12. Gail Brager announced that the Golden Gate Chapter has instituted a new program to support students. We will offer a Student Travel Grant to sponsor one student per year to attend the ASHRAE Winter Meeting and Exposition. Applications are due November 20 to attend the January '93 meeting in Chicago.
13. Rod Keif, retired from the Cal Poly HVAC program, thanked the ASHRAE Golden Gate Chapter for its support and reported on the extent to which the State budget cuts have hurt the Cal Poly HVAC program. The president of the Cal Poly ASHRAE Student Chapter then presented an ASHRAE/Cal Poly golf shirt to Rich Leao.
14. The marble draw generated a record \$202 in donations tonight. The pot was \$306 but a black marble was drawn. No winner tonight! Next month, the pot increases and the odds improve.

BERKELEY'S RETROFIT ORDINANCE

The City of Berkeley has prepared a draft Commercial Energy Conservation Ordinance (CECO). This ordinance, modeled after the ordinance recently put into effect in San Francisco, will require commercial buildings to receive energy conservation retrofits whenever they are sold or undergo substantial remodeling. CECO will address lighting, service water heating, refrigeration, swimming pools, and HVAC measures such as:

- installation of economizer cycle
- repair of major leaks in ducts and pipes
- insulation of pipes and ducts
- cleaning and tuning of chillers, boilers and furnaces
- temperature reset and timed controls on chiller and boilers
- repair of inoperable thermostats and dampers

The draft ordinance is now available. Given their expertise in this area, ASHRAE members are encouraged to review the draft. Many of you may be involved in providing future auditing or retrofit services. To obtain a copy, or for information on scheduled hearings, contact Stephanie Lopez with the City of Berkeley Energy Office: (510) 644-6309.

EQUIPMENT DONATIONS NEEDED

Our Chapter is continually looking for ways to support educational programs and this year we would like to assist Ahmad Ganji's students at S.F. State. If you have surplus equipment (i.e., used, returned or discontinued models, etc.), S.F. State can put it to good use! Examples of equipment needed for their program include: data acquisition instrumentation (thermocouples, hot wire anemometer, dataloggers, etc.), heat exchangers, humidification/dehumidification equipment, heat pumps, fan systems, diffuser flow hoods and much more! For information about specific needs and arrangements, please call Ahmad Ganji directly at (415) 338-7736.

HONOR ROLL

The *Fog Dispenser* needs you! You can sign up for the Honor Roll for the 1992-93 year. Your donation of \$100 helps to pay for the publication of our monthly newsletter.

Thanks to a request from one of our members, the Board has decided on a consistent format for the Honor Roll to include your name, address, phone and fax numbers, key people, company logo, and a one-line description of your business (optional). Call Tim Provo soon for the month of your choice at (415) 579-5522.

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

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXII • NUMBER 2

NOVEMBER 1992

MEETING NOTICE

DATE: Thursday, November 5, 1992
TOUR OF PACIFIC ENERGY CENTER: 5:00 p.m.
SOCIAL HOUR: 5:30 p.m.
BUFFET DINNER: 6:30 p.m.
LOCATION: PG&E's Pacific Energy Center
 851 Howard Street
 San Francisco, CA
COST: \$25.00
NOTE: Please phone or fax your dinner reservation to Richard Paillon by noon on **Monday**. Please indicate if you can sponsor one or more student dinners. A fax form is enclosed for your convenience.
PHONE: (415) 512-9771
FAX: (415) 512-8940

NOVEMBER PROGRAM

November's meeting is the first of two student nights this year. We expect 15 or more students from U.C. Berkeley and 15 from Cal Poly. We encourage all our members to sponsor a student for dinner. This is a golden opportunity to encourage students to join our industry. There will be a tour of the Pacific Energy Center before dinner for all who are interested.

PROGRAM: The Energy Edge Project, 30 Percent Beyond the Energy Code
SPEAKER: Mary Ann Piette, M.S.M.E., Staff Scientist, Lawrence Berkeley Laboratory

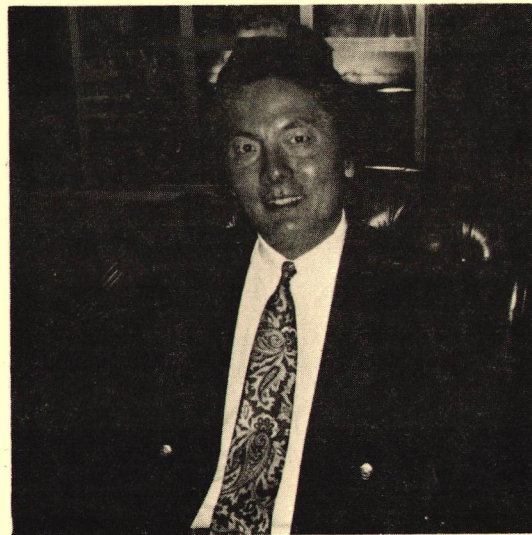
Mary Ann specializes in the analysis of energy use in commercial buildings. The objective of the Energy Edge Project, sponsored by the Bonneville Power Administration, is to implement conservation measures during the design of commercial buildings to achieve energy consumption 30 percent below the State code (the State code is more restrictive than ASHRAE 90A-1980). Mary Ann will share the results from 28 new buildings built under this program.

NOVEMBER HONOR ROLL

Charles M Salter Associates Inc

Acoustics and Audio/Visual System Design Consultants

- Noise Reduction of HVAC Equipment
- Vibration Isolation
- Outdoor Noise Ordinance Compliance
- New Construction
- Tenant Improvement
- Remedial



PRESIDENT'S MESSAGE

The first meeting is now behind us. It was very encouraging to see a lot of new faces at this meeting. Mike Rubio, our new membership chair, was able to sign on several new members. Keep it going, Mike! Bill Thornburg of Chartmasters gave us some good tips about effective visual and audio presentations which I am sure that we all can use.

A reminder that our November meeting is Research/Student Night and it will be held at the "Pacific Energy Center" (and not at the Engineer's Club).

We are anticipating a large student turnout and need your support to sponsor anywhere from 1 to 3 students for this important evening. Gail Brager, Dennis Thompson and Past President Barbara Dilts will be calling you for your sponsorship.

Once again, I would like to encourage our members to become involved in one of our many committees. Please contact a committee chair (listed on the back page of the *Fog Dispenser*) or any of your Board members for information.

The Board and I are looking forward to seeing you at the Pacific Energy Center.

Richard Leao

EQUIPMENT DONATIONS NEEDED

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THE MARBLE DRAW

Next Month's Starting Pot	\$205.00+
Odds	14.29%
Black Marbles Remaining	6

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NEW GOLDEN GATE CHAPTER MEMBERS

Please welcome the following members to our Chapter:

- Mike Scofield Conservation Mechanical Systems
- Robert O. Phillips Otech Engineering
- Damin Estes Morrison Knudsen Company

MINUTES OF THE MEETING

October 1, 1992

1. President Richard Leao called the meeting to order at 7:30 p.m. Self-introductions followed.
2. Minutes of the June '92 meeting were approved, following a correction of a typographical error: Barbara Dilts was awarded a diamond "pin," not a "pen."
3. The Chapter observed a moment of silence for the passing away of members John Brose and Max Wolfe.
4. In recognition of the October meeting as Membership Night, our new Membership Chair, Mike Rubio, was introduced. Members were encouraged to bring colleagues to the meetings and to see Mike for membership applications.
5. Rich noted that we have many new Committee Chairs this year and volunteers are greatly needed to help out. Golden Gate committees are a great way to get more involved with the HVAC industry and to be of service. Interested members were encouraged to contact Rich during the meeting break or give him a call at (415) 777-5333.
6. Tom White was recognized and applauded for all his efforts to encourage ASHRAE/ARI to hold the 1998 Winter Meeting in San Francisco. The decision will be made at the Chicago Winter Meeting in January 1993.
7. Rachel Murray received compliments and applause for her dedication to the new format of our *Fog Dispenser*. Credit was also given to her colleague at Charles Salter Associates, Raul Viceral, for his excellent artistic contribution to the new masthead.
8. The winner of the Tennis Tournament was Peter Dollinger, from the San Jose Chapter.
9. Kristin Heinemeier made an announcement about Berkeley's new Commercial Energy Conservation Ordinance. Kristin invited ASHRAE members interested in reviewing a draft of the ordinance to contact her during the break or to call Stephanie Lopez with the City of Berkeley Energy Office at (510) 644-6309.
10. Richard announced that ASHRAE's Professional Development Seminar will be held Nov. 17-20 in Phoenix. For more information, contact our Seminar Committee Chair Ernie French.
11. Program: Bill Thornburg of Chartmasters gave us some excellent tips for planning and preparing visual presentation material. He addressed organization and layout, color and font style, and balance of written and spoken information.
12. The meeting was adjourned at 8:50 p.m.

MODERN TRAINING FACILITY

The Trane Company — San Francisco Bay Area Sales District, with its new location in Sunnyvale, now has a modern training facility. With that, we are making customer training available to the valued clients of the Trane Company. Among the 1992 offerings will be:

Available Courses	Dates
TRACE 600 Program (CDS)	Nov. 4-5
Customer Direct Service (CDS) Network	Nov. 6
VariTrac/Tracker — Design	Nov. 11
VariTrac/Tracker — Start-up & Troubleshooting	Nov. 11
Large VAV Rooftop Maintenance	Nov. 19-20
Indoor Air Quality Ideas/Solutions	Nov.
Refrigerant Transition & Recovery Certification	Dec.
High Pressure Service (Value-Added Cert.)	Dec.
Low Pressure Service (Value-Added Cert.)	Dec.

For more information, FAX requests to Pacific Coast Training Company, David Fiala, Director of Training, at (408) 481-3666. Also, please feel free to suggest future course offerings and provide an estimate of how many from your firm would attend your desired prospective course(s).

BERKELEY'S RETROFIT ORDINANCE

The City of Berkeley has prepared a draft Commercial Energy Conservation Ordinance (CECO). This ordinance will require commercial buildings to receive energy conservation retrofits whenever they are sold or undergo substantial remodeling. CECO will address lighting, service water heating, refrigeration, swimming pools and HVAC.

The draft ordinance is now available. ASHRAE members are encouraged to review the draft. To obtain a copy, or for information on scheduled hearings, contact Stephanie Lopez, City of Berkeley Energy Office, at (510) 644-6309.

EMPLOYMENT OPPORTUNITIES

Sales, Outside: Good opportunity with well-established HVAC Company. Positions available in Air Distribution and Mechanical Sales. Some sales experience in HVAC preferred for Air Distribution. Minimum 3 years HVAC sales experience required for Mechanical Sales. Degree also preferred. Benefits. Applicants should send resume to: ASHRAE AD, c/o Prime Air, Inc., 21363 Cabot Blvd., Hayward, CA 94545.

Design Engineer: San Francisco consulting engineers seeking an HVAC design engineer with 2-3 years experience. EIT preferred. No telephone calls please. Send resume to: Personnel Director, Flack + Kurtz Consulting Engineers, 343 Sansome Street #450, San Francisco, CA 94104-1309.

DO YOU KNOW A PROSPECTIVE NEW MEMBER?

Contact Membership Chair:
Michael Rubio (415) 777-5333
(415) 641-4413 FAX

MAIL, FAX or PHONE NEWS TO:

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

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Dennis Thompson

ASHRAE GOLDEN GATE CHAPTER

**DINNER RESERVATION FAX FOR
THURSDAY, NOVEMBER 5, 1992**

Please send Fax by **noon** on MONDAY, November 2

TO: RICHARD PAILLON, Randall Lamb Associates
FAX NO.: (415) 512-8940

Phone: (415) 512-9771

Please call if you have any last minute changes in plans.

Please cancel your reservation(s) if you cannot attend the meeting.

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

_____	_____
_____	_____
_____	_____
_____	_____

STUDENT SPONSORSHIP

*Remember - November meeting is student night
Please show your support!*

YES, I would like to provide students with the opportunity to attend our meetings.

I would like to support students for the current meeting.

I am willing to sponsor _____ student(s) at \$20 each, if any are interested in attending.

FAX EARLY!

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

SIGNATURE: _____

COMPANY: _____ PHONE: _____

FAX ACTIVITIES REPORT

If you have provided educational talks, classes, seminars, legislative testimony, liaisons with government officers, or technical reports on any ASHRAE-related topic, please fill in the appropriate information below. We are also interested in learning about any energy or technical awards you have received and appointments to government advisory boards, councils or committees. This should facilitate accurate record keeping by chairpersons for reports, points and publicity.

NAME _____

SUBJECT/PROJECT _____

PRESENTATION _____

LOCATION _____

AWARD _____

APPOINTMENTS _____

COMMENTS _____

PLEASE RETURN THIS FORM VIA FAX TO:

ELLEN PIERCE * KELLER & GANNON * (415) 621-1199
FAX NUMBER: (415) 864-3681

ASHRAE GOLDEN GATE CHAPTER 1992-1993

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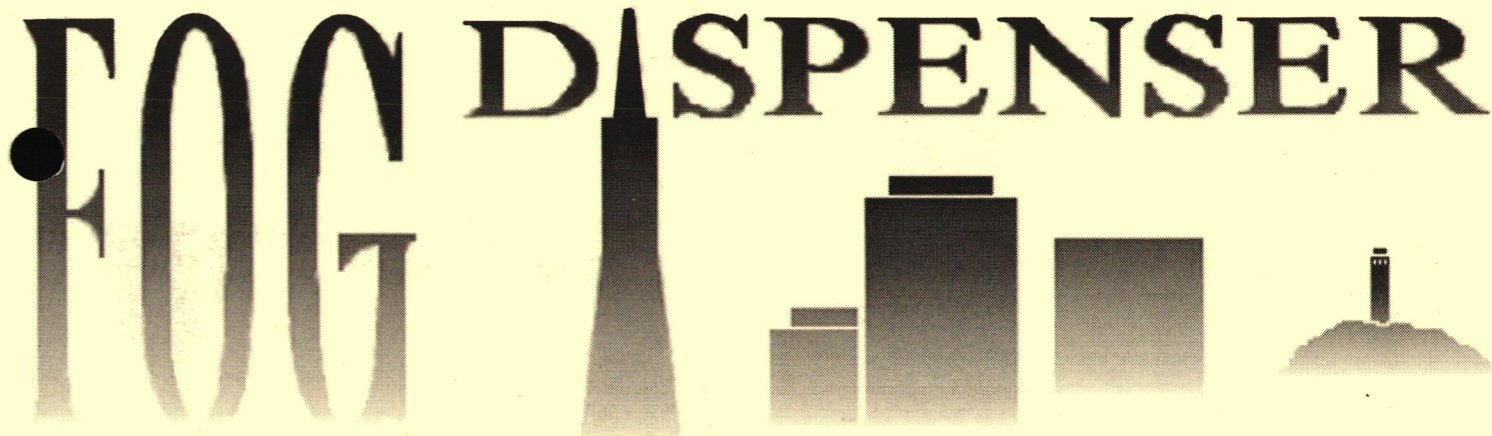
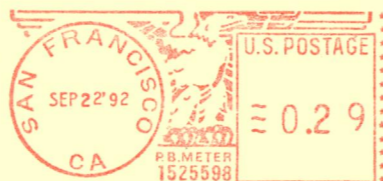


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VOLUME XXXII • NUMBER 1

OCTOBER 1992

MEETING NOTICE

OCTOBER PROGRAM

DATE: Thursday, October 1, 1992
 SOCIAL HOUR: 5:30 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 Richard Paillon by noon on Tuesday. A fax form is enclosed for your convenience.
 PHONE: (415) 512-9771
 FAX: (415) 512-8940

PROGRAM: Present for Success
 SPEAKER: Bill Thornburg of Chartmasters, San Francisco.

Mr. Thornburg has worked in the business communications industry for 25 years. We will learn how to plan and produce desktop presentations that employ slides, overhead transparencies, and color prints.

His presentation has been warmly received by firms in our industry and should have information valuable to our whole membership.

Our first meeting is "Membership Night." Please bring a friend, colleague, or business associate who could be interested in joining our Chapter of ASHRAE.

THE MARBLE DRAW

Next Month's Starting Pot	\$163.00+
Odds	12.5%
Black Marbles Remaining	7

OCTOBER HONOR ROLL



NORMAN WRIGHT
 MECHANICAL EQUIPMENT CORP.

RICH LEAO JACK KNIVETON SAL GIGLIO MIKE RUBIO
 MIKE CADOO LARRY KENT ROBERT GHOUKASSI



PRESIDENT'S MESSAGE

Believe it or not, October is here already and yes, our children are back to school once again. Barbara Dilts did a super job last year and all of us on the Board will do our best to carry forward her endless enthusiasm and hard work ethic.

Rick Paillon, our President-Elect, has a very interesting program planned for our October meeting. Please be sure to call or fax your reservations in before noon on Tuesday.

Our first meeting of the year is also Membership Night. We encourage you to invite a friend or an associate to join us. Mike Rubio, our new membership chair, will be glad to sign on any new members.

With new Board members Dennis Thompson and Dan Reiter, the Board of Governors has been meeting through the summer to prepare for the year ahead.

Now is a great time to become involved with an ASHRAE committee. Please contact a committee chair or call any of our Board members for information. You will be contributing to our Chapter, and I think you will find it to be a good learning experience while at the same time you will have fun at it.

We would like to extend our best wishes to Dick Charles, the Society President for this coming year, and to acknowledge his excellent inaugural address which was highlighted in the August issue of the *ASHRAE Journal*.

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

Richard Leao

MARBLE DRAW... NEW RULES

We have had many requests for a minimum of 1 winner per year, so here we go! We will start with 7:1 odds using 7 black marbles and 1 blue marble. This will result in a minimum probability of winning of 12.5%. The Starting Pot after each winner will be \$50. Remember, donations go to the Scholarship Fund!

HONOR ROLL

The *Fog Dispenser* needs you! You can sign up for the Honor Roll for the 92-93 year. Your donation of \$100 helps pay for the publication of our monthly newsletter.

Thanks to a request from one of our members, the Board has decided on a consistent format for the Honor Roll to include your company name, address, phone and fax numbers, key people, company logo, and a one-line description of your business (optional). Call Tim Provo soon for the month of your choice at (415) 579-5522.

DO YOU KNOW A PROSPECTIVE NEW MEMBER?

Contact Membership Chair:
Michael Rubio (415) 777-5333
(415) 641-4413 FAX

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
October 1, 1992	September 14, 1992
November 5, 1992	October 16, 1992
December 3, 1992	November 16, 1992
January 7, 1993	December 16, 1992
February 4, 1993	January 18, 1993
March 4, 1993	February 15, 1993
April 1, 1993	March 15, 1993
May 6, 1993	April 19, 1993
June 3, 1993	May 17, 1993

Please send all newsletter input to me, either by mail or by FAX, so that it is received on or before the above copy deadlines. Please call me if you have any questions.

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

1992 - 1993 Officers

President Richard Leao
President - Elect Richard Paillon
Secretary Gail Brager
Treasurer Roy Gifford

Board of Governors

Daniel Reiter Dennis Thompson
Barbara Ditts

BERKELEY'S RETROFIT ORDINANCE

The City of Berkeley has prepared a draft Commercial Energy Conservation Ordinance (CECO). This ordinance, modeled after the ordinance recently put into effect in San Francisco, will require commercial buildings to receive energy conservation retrofits whenever they are sold or undergo substantial remodeling. CECO will address lighting, service water heating, refrigeration, swimming pools, and HVAC measures such as:

- installation of economizer cycle
- repair of major leaks in ducts and pipes
- insulation of pipes and ducts
- cleaning and tuning of chillers, boilers and furnaces
- temperature reset and time clock controls on chiller and boilers
- repair of inoperable thermostats and dampers

The draft ordinance is now available. Given their expertise in this area, ASHRAE members are encouraged to review the draft. Many of you may be involved in providing future auditing or retrofit services. To obtain a copy, or for information on scheduled hearings, contact Stephanie Lopez with the City of Berkeley Energy Office: (510) 644-6309.

UC BERKELEY EXTENSION

UC Berkeley Extension and the Golden Gate Chapter of ASHRAE have developed a four-course curriculum intended to provide the basic background in HVAC principles and applications required for work with HVAC systems.

"Air Conditioning and Heating Psychrometry," the first course in the HVAC-R series, will be held 12 Tuesday evenings from September 22 to December 8, 7-9:30 p.m., Pacific Energy Center, HVAC Room, 851 Howard St., San Francisco. The instructor for the class will be Robert H. Braun, P.E., and Fellow of ASHRAE. For further information or to register, call (510) 642-4151.

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

Attend ASHRAE's
Professional Development Seminars (PDS)

"Automatic Temperature Controls"
November 17-18, 1992

"DDC for HVAC Monitoring & Control"
November 19-20, 1992

In
Phoenix

For a complete program brochure and registration information contact Marietta Henry at ASHRAE Headquarters (404) 636-8400, Fax (404) 321-5478.

TENNIS ROUND ROBIN

The winner of the ASHRAE tennis round robin was Peter Dallinger of the San Jose Chapter.

ASHRAE GOLF

The 1992 ASHRAE Golf Tournament was held on May 27 at the Franklin Canyon Golf Course. Seventeen teams competed in this scramble for fun and prizes.

Once again, first place went to RMR/Flame Air Inc. with a winning score of 61. Congratulations to Herb Duncan, Bill Paterson, Fred McCracken and Jerry Stater! Second place was awarded to the Aronowski and Associates team. Third place was taken by the Air Filter Control team.

Next year's tournament will be held in April. Don't miss the fun and excitement!

ASHRAE RESEARCH PROMOTION

Roy Gifford sends his personal thanks to everyone who contributed to the very successful ASHRAE Research promotion during the 1991/92 year. Our Chapter was number 8 in the nation in total contributions with a total of \$25,880. We were number 4 in the nation in number of contributors with a total of 187. We were at 154.2% of our goal at the end of the fiscal year. Your generosity is greatly appreciated and will pay future dividends. The research done today will result in practical answers to present and future problems.

IN MEMORY

John Brose passed away in his home on Sunday, September 6. Those of us that knew him and worked with him know of his honest efforts and the contributions that he made to our industry. His wishes were to ensure the best quality of life for all whom he worked with and cared for. He will be sorely missed, yet his memory will live on in all of us.

Max William Wolff, a retired engineer and past member of ASHRAE, died in his home on June 8. He was 68 and had been a resident of San Rafael for nearly 60 of those years. He received his training in engineering from the University of San Francisco. From 1943-46 he served as a corporal in the Air Force and was stationed in India for a time. Early in his career he worked as a mechanical engineer and later was employed as an air conditioning and heating estimator. His last job was with Delucchi Sheet Metal Company. His hobbies ranged from fishing and golfing to personal computers.

ASHRAE GOLDEN GATE CHAPTER

**DINNER RESERVATION FAX FOR
THURSDAY, OCTOBER 1, 1992**

Please send Fax by **noon** on TUESDAY, September 29

TO: RICHARD PAILLON, Randall Lamb Associates
FAX NO.: (415) 512-8940

Phone: (415) 512-9771

Please call if you have any last minute changes in plans.

Please cancel your reservation(s) if you cannot attend the meeting.

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

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

FAX EARLY!

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

SIGNATURE: _____

COMPANY: _____ PHONE: _____

MINUTES OF THE MEETING

June 4, 1992

The meeting was called to order at 7:40 p.m. and self-introductions followed.

1. **CRC report:** Rich Leao reported that the CRC Meeting in Sacramento went extremely well and that the host chapter did an excellent job in that the meetings and the social activities ran smoothly.
2. Rick Paillon brought up the possibility of new sites for our monthly Chapter dinner meetings. The Pacific Energy Center was proposed as an alternate site and the members in attendance were asked for their comments. A straw vote was taken based on three different scenarios. The Board will take up further discussion on this issue during the summer sessions.
3. Roy Gifford announced that ASHRAE Research raised approximately \$25,900. He encouraged all those that had not sent in their pledges to do so as soon as possible.
4. Winners of the golf tournament were announced.
5. Tom White brought forth a motion to officially invite Society to hold the 1998 ASHRAE/ARI Winter Society Meeting in San Francisco. This motion was carried by the membership in attendance.
6. Barbara Dilts passed out the Chapter Awards to the committee chairs and thanked all of them for their tremendous help during the past year.
7. Barbara Dilts passed on the gavel to Rich Leao, the incoming Chapter President. Rich thanked Barbara for her wonderful leadership and hard work as our Chapter President. The membership gave Barbara a standing ovation.

Tom Reinarts presented Barbara with a plaque and a diamond pen and once again thanked her for doing a tremendous job.
8. Dick Charles, our incoming Society President, shared with us his inaugural acceptance speech, which he will be presenting at the Baltimore meeting.
9. The meeting was adjourned at 9:30 p.m.

NEXT MONTH:

- November 5: The Energy Edge Project:
30% Beyond the Energy Code

1993 CRC IN RIVERSIDE

Mark your calendars now for CRC 1993, April 28-May 1, in Riverside, California.

Wednesday: Sporting Events.

Thursday: All-day seminar and Table Tops exhibit.

Friday and Saturday: Business Meetings and Workshops.

A variety of special social events are also planned. Since this will be the first meeting with our new chapters from the Far East (Singapore, Malaysia, Hong Kong, Taiwan and India), the CRC is being developed around an international theme.

The CRC will be held in the Sheraton Riverside hotel and the adjacent Raincross Square Convention Center. It is being sponsored by the Tri-County Chapter and co-sponsored by the Orange Empire, San Diego and Southern California Chapters.

Riverside is located about 50 miles east of Los Angeles near the Ontario International Airport and is less than an hour from many area points of interest, including beaches, Disneyland and Knott's Berry Farm.

GOLDEN GATE CHAPTER VIES FOR 1998 HOST POSITION

At the June meeting, the Chapter passed a motion to invite the Society to hold the Winter Meeting and ASHRAE/ARI Joint Exposition in San Francisco in January 1998. At the ASHRAE/ARI Joint Exposition Committee meeting in Baltimore, Tom White appeared before the committee to extend the invitation. The San Francisco Convention and Visitors Bureau cooperated by mailing our invitation with literature to each of the committee members.

ARI is deciding between the locations of Anaheim and San Francisco. All exhibitors are being canvassed for their preference. It might help to have our Chapter members who either work for or represent exhibitors express their preference to have it in San Francisco.

GOLDEN RIBBON FOR HISTORY

The history of the Golden Gate Chapter of ASHRAE is in the July ASHRAE *Insights*. Bob Phillips, Chapter Historian, received the Golden Ribbon for History. Now we'll have another Golden Ribbon to add to our banner!

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 9

JUNE 1992

MEETING NOTICE

DATE: Thursday, June 4, 1992
 SOCIAL HOUR: 5:30 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 Gail Brager by noon on Tuesday. A fax form is enclosed for your convenience.
 PHONE: (510) 642-1696
 FAX: (510) 643-5571

JUNE PROGRAM

Our June meeting is the final one of our Chapter year. Our meeting theme will be "This Year and Next." This is the time when we recognize and thank so many of our members who have contributed to our Chapter's successes this year. Our new Chapter President, Rich Leao, will be installed and our new Society President, Dick Charles, will tell us about his theme for next year, "Sharing Resources Globally." We will also be honoring our past Chapter Presidents and our companions who have provided many of us with the necessary support that is not always visible to all. Please encourage your companion to join us for this meeting. This should be a fun evening, so get your reservations in early.

REMINDER: The 1992 ASHRAE Technical Seminar & Product Show will be held on June 2. Since we will all need to comply with the new "Title 24" requirements, this is an important seminar. It's not too late to register! A registration form is enclosed for your convenience.



PRIME AIR, INC.

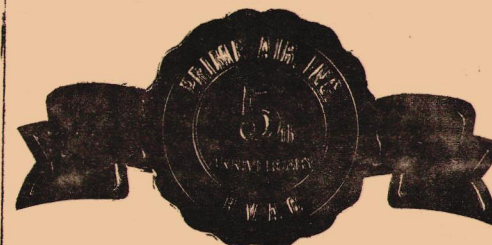
Your "PRIME" Contact for HVAC Equipment

*These items stock available in Hayward.

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 Pottorff
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 Pure Steam



21363 Cabot Blvd. • Hayward, CA 94545 • (510) 732-3400 • Fax (510) 732-3414



The Golf and Tennis Tournaments, and the Technical Seminar an Product Show are coming soon. Don't miss any of them.

In addition, a number of our members have been recognized for their achievements and contributions both to ASHRAE and to the community. New Life Members of ASHRAE are James L. Breese, Robert Voelz, Walter Schneider and John Rudy. Dick Charles, who will shortly become our Society President, was named a Fellow of the Society at the Winter Meeting. Our Chapter was also honored when Tom Reinarts received the Tau Beta Pi Eminent Engineer Award for 1992. Finally, at the recent CRC, Golden Gate nominated Gene Valerio for the ASHRAE Distinguished Service Award. You have set a high standard for us all through your achievements, dedication and enthusiasm.

Two additional groups of people deserve special thanks and recognition. Golden Gate is lucky to have a dedicated and active group of Past Presidents. They have set the example of excellence in the past and continue to be generous with their wisdom, knowledge, experience and encouragement. I hope I can contribute as much when I join you.

Finally, our Chapter Board of Governors have worked very hard this year on all the routine, but necessary, Chapter functions. In addition, they have stepped in and assumed unexpected responsibilities when Fran Scholl and Dennis Heller moved during the year. The long hours they have contributed may not be visible to many, but they were absolutely essential to the success of the Chapter and much appreciated.

It's been a pleasure and honor to work with all of you. If our members enjoyed the Chapter activities and found our programs valuable, the credit and thanks belongs to all who have contributed. THANK YOU! I've had a lot of fun.

Barbara S. Dilts

It's hard to believe that this is the last Fog Dispenser of the year. The Golden Gate Chapter has had a very successful year and I hope many of you have enjoyed it as much as I have. Golden Gate is especially fortunate to have so many active and involved members who have led projects, created new activities, participated in and supported meetings and events, and performed all the behind-the-scenes tasks that keep the Chapter going.

This year we held two very well-attended student nights thanks to Debra May and Gail Brager. Dan Reiter's Scholarship Committee presented two scholarships. Due to the generosity of our members, the Golden Gate Scholarship fund increased to \$750. Mark Hydeman and the Energy and Technical Affairs Committee revived the Pre-Meeting Seminar to packed rooms. Roy Gifford took over for Dennis Heller to make the Research Campaign one of the most successful ever. Fran Scholl planned two field trips which, because of the efforts of Rachel Murray and Mark Hydeman, were very successful. At May's field trip, members donated to the Andresen Scholarship (\$130), the Golden Gate Scholarship (\$530), Cal Poly Workshop (\$605), and the ASHRAE Research (\$600), bringing the total donations for the evening to \$1865. Thank you all for your generosity.

HONOR ROLL

We are scheduling Honor Roll for next 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 (415) 579-5522.

THE MARBLE DRAW

Next month's starting pot: \$127.00+
Odds: 5.26%
Black marbles remaining: 18

EMPLOYMENT OPPORTUNITIES

Bentley Engineering Company: Seeking top energy professionals to join its energy services division of the San Francisco office. Candidates should be energetic, have strong verbal and written communication skills, and good computer abilities. Two positions are available for Mechanical Engineers with practical knowledge of applying energy efficiency improvements to HVAC systems and controls. Design experience a plus. Positions for an Applications Engineer and a Project Manager are available, both offering excellent growth potential and the ability to actively participate in the success of the division. All inquiries will be kept completely confidential. Please send resumes to:

Bentley Engineering Company
180 Howard Street
San Francisco, CA 94105

Energy Investment, Inc.: Leading consulting/engineering and project development company that specializes in utility demand-side management and facility-level energy conservation is experiencing explosive growth. As we build our California and Western States Regional Office, we are seeking:

Regional Director of Operations
Regional Director of Business Development
Project Managers
Engineers

Applicants for any position must have relevant experience in energy/utility DSM industry. Directors should have strong managerial experience and entrepreneurial skills. The engineering positions require BSEE or BSME and strong background in energy consulting/engineering analysis. If you are a skilled and motivated professional who wants to join a leader, send your resume with salary history to:

Marilyn Tromer
Energy Investment, Inc.
286 Congress Street
Boston, MA 02210-1097

Honeywell's Home and Building Control: Organization currently has an excellent management opportunity available at its San Francisco Branch. Individual will be required to make key contributions in financial analysis and control, plus computer systems process management administration for a successful field operation generating approximately \$15 million in annual revenue.

The position reports to our Branch General Manager and is responsible for providing financial analysis, counsel and control (including forecasting bad debts and guarantee analysis, cost analysis and contract review). Additional responsibilities include management and administration of the automated computer system and network.

Qualifications include a degree (Finance, Business Administration or Economics) plus 5 - 7 years of financial management (construction industry experience desired) and sound knowledge of networked computer systems. Strong supervisory experience and interpersonal skills are a must.

We offer a highly competitive compensation and benefits package. For immediate consideration, send resume with salary requirements to:

Honeywell, Inc.
Home and Building Control
Honeywell Plaza MN27-6114
P. O. Box 524
Minneapolis, MN 55440-0524
Attn: A. Green (ASHRAE)

Equal Opportunity Employer M/F/H/V
Drug Screening is a Condition of Employment

Edward B. Ward & Company: Seeking a qualified Sales Engineer with a minimum of five years outside sales experience to assume responsibility for an established three million dollar territory. Excellent compensation program. Please forward resume and salary history to:

Edward B. Ward & Company
337 Roebing Road
South San Francisco, CA 94080
Attn: J. W. Lazor
FAX: (415) 873-6829

DO YOU KNOW A PROSPECTIVE NEW MEMBER?
FOG DISPENSER DEADLINES
Meeting Dates Copy Deadlines
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
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. DiltsPresident
Frances N. SchollPresident - Elect
Richard LeaoSecretary
Richard PailonTreasurer
Board of Governors
Gail Brager Roy Gifford
Tom Reinarts

REMINDER!!! ASHRAE GOLDEN GATE CHAPTER

presents

1992 Technical Seminar "Title 24" & Product Show

DATE: June 2, 1992 PLACE: PG&E's Pacific Energy Center 851 Howard Street (between 4th and 5th Streets), San Francisco

The Center is located two blocks south of the Powell Street BART Station and parking is available across the street.

SEMINAR PROGRAM SCHEDULE:

- 8:30-9:00 AM Registration
9:00-9:30 Compliance and Approaches: Introduction to the Changes in the Standards: Scope, Application, Mandatory Measures, Prescriptive Measures, Performance Computer Programs
9:30-10:15 Envelope Compliance: Mandatory Measures, Envelope Component Method, Overall Envelope Method
10:15-10:30 Coffee Break
10:30-12:00 HVAC Compliance: Mandatory Measures, Appliance Efficiencies, Prescriptive Method
12:00-1:00 PM Lunch
1:00-2:30 Special HVAC Topics: New Ventilation Requirements, New HVAC Control Requirements, Custom Budget Performance Approach, New Compliance Forms, Plans and Field Checking
2:30-2:45 Coffee Break
2:45-3:30 HVAC Topics: New Compliance Forms, Plans and Field Checking
3:30-4:00 Lighting Compliance
4:00-4:30 PG&E Rebate Program

The seminar will cover changes to the Title 24 Non-Residential Building Energy Standards that will become effective this July. Differences between the current (July 1988) and the new standards will be emphasized.

Full Day Seminar Fee: \$185.00 per person \$175.00 per person (for two or more from same company)

Price includes: Standards Manual, Compliance Form, Handouts, Breakfast Rolls, Lunch.

PRODUCT SHOW

8:00-5:00 Table Top Product Show featuring HVAC products and demonstrations.

Admission is free. For more information, call Jim MacDonald, Product Show Chairperson, at (415) 574-0110.

DETACH HERE

ASHRAE 1992 Technical Seminar & Product Show

Name(s):

Firm:

Phone: Number of people:

Total Registration Fee Enclosed: \$

Make check payable to ASHRAE and mail with this form to: Marie Madden c/o Western Plumbing & Heating Co., Inc. 600 Treat Avenue San Francisco, CA 94110

MINUTES OF THE MEETING

May 14, 1992

- 1. The May meeting was a field trip to the PG&E Pacific Energy Center. Nearly 100 people attended.
2. PG&E's Jim Chace presented a brief seminar on energy efficient lighting sources and demonstrated the capabilities of the Center's Lighting Classroom.
3. Chris Benton, U.C. Berkeley, demonstrated the use of the heliodyne, micro-camera imaging system and computer software that he has assembled for the use of daylighting studies. Chris also demonstrated the use of physical models in the Daylight Study Lab.
4. PG&E's Brad Gustafson demonstrated the HVAC Classroom's mock-up capabilities using an infrared videographic imaging system to visualize diffuser airflow. Brad also demonstrated the Center's Energy Management System.
5. Dinner was donated by PG&E. Thanks!
6. President Barbara Dilts called a brief meeting to order at 8:00 p.m. She reminded us that the Tennis Memorial Tournament will be held on June 5.
7. Mark Hydeman and Jim MacDonald reminded us that the 1992 Technical Seminar on "Title 24" & Product Show will be held on June 2.
8. Mark Luckes announced that the 1992 ASHRAE Golf Tournament will be held on Friday, May 29. He asked those interested in participating to get their reservations in quickly.
9. Jim Nemechek announced that Gene Valerio will be retiring from Air Filter/Control. Gene will be missed by all.
10. Brad Gustafson announced that he will be the primary contact for ASHRAE members that would like to use the Center. Members are encouraged to bring colleagues or clients to the Center and to work with Brad in developing demonstrations. He asked all ASHRAE members to respond to the survey provided. The survey will help PG&E develop seminars, library resources and demonstrations that best serve our needs. Brad can be reached at (415) 972-5238.

REMINDER: Please get dinner reservations in early for yourself and your companion to Gail Brager for the June meeting.

ROSTER CHANGES

Thanks to the suggestion from one of our members, we are publishing some changes to the 1991-1992 ROSTER. Hopefully, most of the changes were sent in and are included here. If not, let us know and we'll get it right in the fall. Please note the following changes in your copy of the ROSTER:

Bob Braun is both a Life Member and a Fellow of the Society.

Cooper, Leo, Jr. Climate Mechanical 301 Tesconi Circle, Santa Rosa 95401 (707) 575-5661 Home: (707) 526-9436

Duncan, Herb RMR/Flame Air, Inc. 466 Harbor Blvd., Belmont 94002 (415) 591-2755

Gustafson, Brad Pacific Gas & Electric Company 831 Howard St., San Francisco 94103 (415) 972-5238

Larkin, Paul Larkin & Associates P.O. Box 2339, 6950 Burnett St. (707) 823-1010 Sebastopol 95472 FAX: (707) 823-9363 Home: 510A Furlong Rd., Sebastopol 95472 (707) 823-8950

May, Debra Tempco Equipment Company (415) 467-8680

Mihaescu, Constantin (Edda) Bechtel Corp. (415) 768-1234 50 Beale St., San Francisco 94111 or (510) 881-8704 FAX: (510) 874-7440

Mihaescu, Edda (Constantin) Guttman & MacRitchie 631 Howard St., Ste. 500., San Francisco 94105 (415) 512-8910 FAX: (415) 512-8784

Palazzolo, Angela A. Home: 4029 Aspen Pl., Oakland 94602 (510) 482-2274

Roach, Robert RMR/Flame Air, Inc. 466 Harbor Blvd., Belmont 94002 (415) 591-2755

Zigas, Arthur L. (Irma) LM Arthur L. Zigas & Associates 150 Post St., Ste. 140, San Francisco 94108 (415) 433-3567 FAX: (415) 399-1846

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX
For Thursday, June 4, 1992

Please send Fax by noon on Tuesday, June 2

FAX TO: Gail Brager - U.C. Berkeley
FAX: (510) 643-5571

Ph: (510) 642-1696
Call if you have any last minute changes in plans.
Please cancel your reservations if you can't attend the meeting.

FROM: _____
(Important - Please fill in your fax number)

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

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

SIGNATURE: _____

COMPANY: _____ PHONE: _____

1991-92 ASHRAE RESEARCH PROMOTION CAMPAIGN

This year's ASHRAE Research Campaign was remarkably successful. Many thanks to all of you who have been very generous with your time and your contributions. The following people and companies deserve special recognition:

Individual Honor Toll - Contribution of \$75 or more

- | | |
|--------------------|---------------------|
| Edward A. Arens | Glenn Leggoe |
| Ronald Arthur | Robert G. Linford |
| Gail Brager | Frank Mayhew |
| Lewis Brooks | Dale Joe Missimer |
| Craig Brown | Hendrik J. Mouw |
| Richard A. Charles | James L. Myers |
| Meng-Hsiu Chen | Francis J. Offerman |
| John C. Cross | Richard Paillon |
| Barbara Dilts | Jack A. Palmer |
| Dick Fujioka | Thomas Reinarts |
| L. L. Roy Gifford | Robert M. Roach |
| Thomas Gilbertson | Albert V. Scavino |
| Norman Heathorn | Fran Scholl |
| Dennis L. Heller | Thomas Staton |
| James R. Hussey | Richard Stone |
| Carl H. Jordan | Ben Sun |
| John D. Kniveton | G. Robert Voelz |
| Rich Leao | |

Corporate Honor Roll - Contribution of \$125 or more

- Ajmani & Associates, Inc.
- The Brose Company
- DMG North
- Flack + Kurtz
- Thomas Gilbertson Associates
- The Peter A. Hartdegen Company
- Ted Jacob Engineering Group
- Linford Air & Refrigeration Company
- R. F. MacDonald Company
- Mechanical Contractors Assoc. of No. California
- Newcomb Anderson Associates
- Pacific Gas & Electric Company
- Polycold Systems, Inc.
- Edward B. Ward & Company

ASHRAE GOLDEN GATE CHAPTER 1991-1992

CHAPTER OFFICERS

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

BOARD OF GOVERNORS

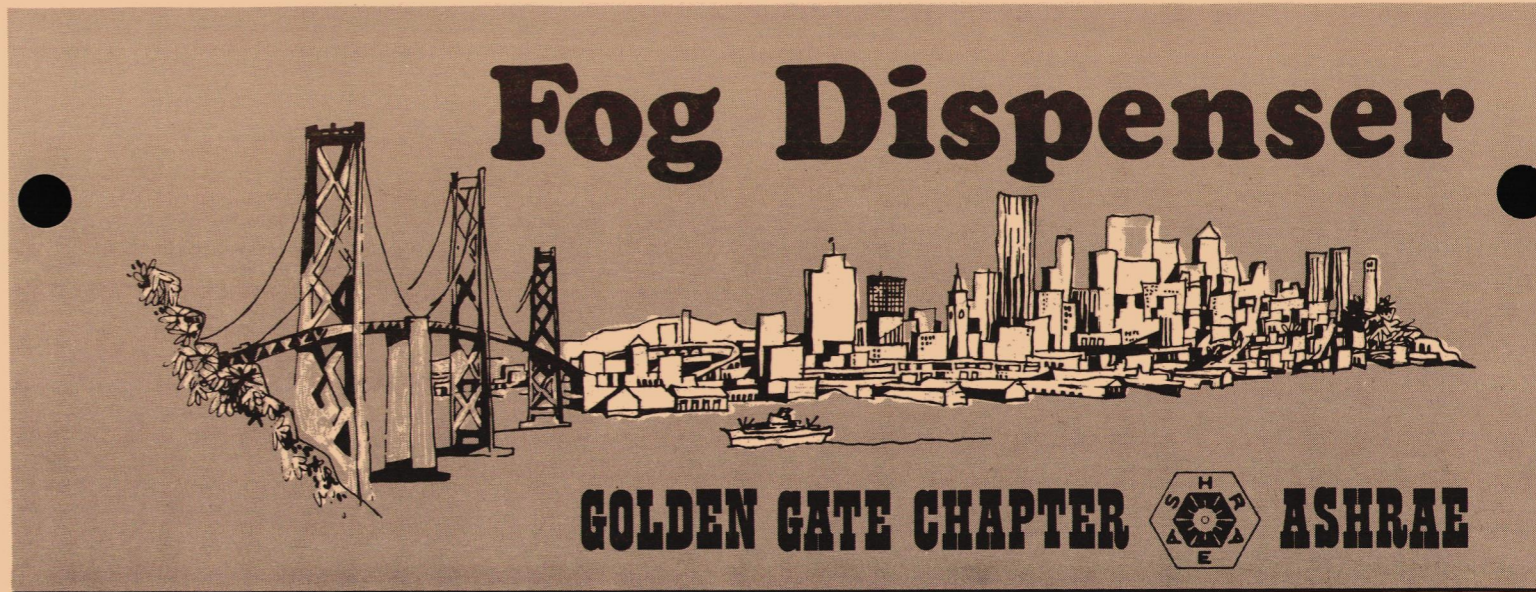
Gail Brager
 Roy Gifford
 Tom Reinarts

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



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXXI • NUMBER 8

MAY 1992

MEETING NOTICE

DATE: Thursday, May 14, 1992
 SOCIAL: 5:30 p.m.
 TOUR: Promptly at 6:00 p.m.
 DINNER: 7:00 p.m.
 LOCATION: PG&E's Pacific Energy Center
 851 Howard Street
 San Francisco, CA

COST: \$25.00 Donation (Kindly Requested)

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

PHONE: (415) 957-1977
 FAX: (415) 957-1381

MAY PROGRAM

PG&E's Pacific Energy Center Field Trip

This tour of PG&E's Pacific Energy Center has been designed specifically for our ASHRAE chapter to inform our members of the Center's available resources and to clarify how we can access them. This tour will feature: demonstrations (mock-ups) in the HVAC classroom and environmental rooms; a tour of the Center's mechanical equipment rooms and ice storage facility; descriptions of the document, tool, and software libraries; demonstration of the Center's DDC control system; and, a brief seminar on energy efficient lighting.

Although the dinner/tour is free, all participants are encouraged to donate to one of ASHRAE's many worthy causes. Representatives from Research Promotion, Scholarship and Cal Poly funds will be on hand to help you part with your money.

Mark Hydeman



TEMPCO Equipment Company, Inc.

Manufacturer's Representative of Quality Technical Products

Commercial & Industrial HVAC Systems Since 1964

◆ 100 North Hill Drive #12 ◆ P.O. Box 400 ◆ Brisbane, CA 94005 ◆ Phone 415/467-8680 ◆ Fax 415/467-4159 ◆

§ FEATURING §

- › Chillers - Water or Air-Cooled/R22 Screw Compressor Systems/Low Energy Air Handling Units: Custom or Standard Computer Room Air Conditioning: Floor and Ceiling Mount, Remote and Self-Contained Condensing
- › Humidifiers: Electrode Steam and Atomizing
- › Dehumidification Systems
- › VAV Boxes: Electronic and Pneumatic*
- › VAV Fume Hood Control Systems
- › Fans: Prop, Wall, Roof, Centrifugal, Axial
- › Evaporative Cooling: Direct and Indirect
- › Sound Control: Floating Floors/Sound Traps/Plenums

✧ AAON ✧ AIRFLOW ✧ DUNHAM-BUSH ✧ COOK ✧ KINETICS NOISE CONTROL ✧
 ✧ NORTEC ✧ METAL* AIRE ✧ DESERT-AIRE ✧ and more



of that \$25 (or more) to one of the projects our Chapter supports:

- Cal Poly Workshop
- Golden Gate Chapter Scholarship Fund
- Eric Thor Andresen Scholarship Fund
- ASHRAE Research

Even if this is not a good year for contributions, we hope to see you for the field trip. Many of our Chapter members have been involved in the creation of the Center. Come see the results of their work. Be sure to let Mark know that you will be attending.

While you have your calendars open, here are some additional events you won't want to miss:

- May 29: Annual Golf Tournament
- June 2: Title 24 Seminar and Product Show
- June 5: Eric Thor Andresen Memorial Tennis Tournament

You will gain a lot of information, have a great time and support our scholarship, workshop and research efforts. Bring several friends.

Finally, I would like to congratulate our newly elected Officers and Board Members. As you can see just from all the events mentioned above, you will be serving a very alive and dedicated Chapter.

Barbara Dilts

ROSTER CORRECTIONS

Did we list an old phone number or address in the ROSTER? Thanks to the suggestion of one of our members, we will try something new this year. Mail, FAX, or call in changes to:

Barbara Dilts
Pacific Gas & Electric Co.
123 Mission Street, Rm. 2763
San Francisco, CA 94106
Phone: (415) 973-2030
Fax: (415) 973-8166

Changes received by May 18 will be published in the June issue of the *Fog Dispenser*.

Our April meeting was one of the most successful Student Nights ever. Twenty students from U.C. Berkeley and San Francisco State joined us. I hope you all were able to meet many of them.

Congratulations to our two scholarship winners - Janti Sommer from San Francisco State and Jintung Su from Berkeley. We hope to see you often in the future. We owe thanks to Dan Reiter and the Scholarship Committee for the difficult task of selecting among highly qualified applicants. Thanks also to Gail Brager, the students who presented an interesting and challenging program, and to all of the Chapter members and companies who sponsored students for the dinner.

Since the CRC in Sacramento is the first week of May, our field trip will be May 14 (the SECOND Thursday). Mark Hydeman and the Energy and Technical Affairs Committee has arranged a "behind the scenes" tour of the Pacific Energy Center with information that you didn't get if you came to the Open House in December. Since PG&E will sponsor the dinner that night, we have the chance to try something new. Since many of you have already budgeted \$25 for the ASHRAE meeting in May, we'd like you to consider contributing some or all

ANNOUNCEMENT

PRIME AIR, INC. ANNOUNCES THEIR FIFTH ANNIVERSARY!

They are having an **Open House** to thank all their loyal customers. It will be held on Wednesday, May 13 from 4:00 to 8:00 p.m. at their new offices in Hayward. Seminars and Representatives from over 10 Major Manufacturers will be present. There will be lots of food, entertainment and door prizes!! R.S.V.P. by phone or fax! Their new address is:

Prime Air, Inc.
21363 Cabot Blvd.
Hayward, CA
Phone: (510) 732-3400
FAX: (510) 732-3414

CRC SEMINAR: IAO & CFC'S

The Sacramento Valley Chapter of ASHRAE and the Sacramento Municipal Utility District (SMUD) are sponsoring a day long seminar on two of the hottest issues of the decade: INDOOR AIR QUALITY & CHLOROFLUOROCARBONS (CFC's).

H. E. "Barney" Burroughs, an indoor air quality consultant and former ASHRAE society president will discuss building system designs that minimize IAQ complaints and energy consumption. Bill Landman of the TRANE Company, a recognized authority on CFC issues, will discuss the implications of CFC regulations on the HVAC industry.

The seminar will be held from 8 a.m. to 4 p.m., on May 7, 1992, at the Capitol Plaza Holiday Inn, 300 J Street, Sacramento, in conjunction with ASHRAE's Region Ten Chapter Regional Conference (CRC). The cost is \$95 for late registration and \$25 for students (with proof of registration of at least 6 units). Lunch will be provided. For more info, call Keith Roberts at (916) 732-6632.

NEW GOLDEN GATE CHAPTER MEMBERS

Please welcome the following members to our Chapter:

- Jon Bernard Air Conditioning Co., Inc.
- Eric Morey Newcomb Anderson Associates

HONOR ROLL

We are scheduling Honor Roll for next 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 (415) 579-5522.

THE MARBLE DRAW

Next month's starting pot: \$127.00+
Odds: 5.26%
Black marbles remaining: 18

EMPLOYMENT OPPORTUNITY

Sales Person: An Established Manufacturer's Representative is seeking a Sales Person with experience in Hydronics, particularly pump and boiler applications in specification and sales area. Submit confidential response to:

Clyde Equipment Company, Inc.
P.O.Box 2358
Berkeley, CA 94702

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
May 14, 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
APRIL 2, 1992

FUTURE PROGRAM

June 4: Awards Program & Spouse Night

REMINDER: Please get dinner reservations in **early** to Mark Hydeman for the May Field Trip.

1. President Barbara Dilts called the meeting to order at 7:30 p.m. Self-introductions followed.
2. Minutes of March 5, 1992 meeting were approved.
3. Frank Mayhew announced election results:

President	Rich Leao
President-Elect	Richard Paillon
Secretary	Gail Brager
Treasurer	Roy Gifford
Board (1 Yr Term)	Dennis Thompson
Board (2 Yr Term)	Dan Reiter
4. Roy Gifford, Research Chair, announced that \$6,749 was pledged prior to the Phone-a-thon, \$10,160 was pledged during two days of Phone-a-thon. Hence, a grand total of \$16,909 was raised.
5. The CRC will be held in Sacramento on May 6 - 9. Barbara encouraged us to attend.
6. Mark Hydeman announced the May field trip to the PG&E Pacific Energy Center on May 14, the second Thursday of May. Dan Reiter also extended an invitation to students.
7. Marie Madden, Seminar Chair, announced that the Seminar on Title 24 will be held Tuesday, June 2, at PG&E's Pacific Energy Center. Registration information will be provided in the next *Fog Dispenser*.
8. Scholarship presentations were made by Dan Reiter, Scholarship Chair. The recipient of this year's Eric Thor Andresen Memorial Scholarship is Jintung Su, U.C. Berkeley. The recipient of this year's Golden Gate Chapter Scholarship is Janti Sommer, SFSU.
9. Gail Brager announced that tonight's turnout of students was a record. She thanked everyone who sponsored students for Student Night.
10. The students from U.C. Berkeley and S. F. State held an interesting and informative session on their current research and class projects.
11. The meeting was adjourned at 9:22 p.m.
12. Reminder: The May meeting is a field trip to the PG&E Pacific Energy Center.

ASHRAE RESEARCH PROMOTION CAMPAIGN

Thanks to all who are contributing to 1992-92 ASHRAE research. The following folks deserve special recognition. Watch this list grow in the next months! Add your or your company's name.

Individual Honor Toll - Contribution of \$75 or more

Harjinder Ajmani	Edward Arens
Ronald Arthur	Gail Brager
Lewis Brooks	Craig Brown
Richard Charles	Meng-Hsiu Chen
John Cross	Barbara Dilts
Dick H. Fujioka	Thomas Gilbertson
L. L. Roy Gifford	Norman Heathorn
Thomas Graham	James Hussey
Dennis Heller	John D. Kniveton
Carl Jordan	Glenn Leggoe
Rich Leao	Frank Mayhew
Robert Linford	Hendrik Mouw
Dale Missimer	Francis J. Offerman
James Myers	Jack Palmer
Richard Paillon	Robert Roach
Thomas Reinarts	Fran Scholl
Albert Scavino	Richard Stone
Thomas Staton	G. Robert Voelz
Ben Sun	

Corporate Honor Roll - Contribution of \$125 or more

Ajmani & Associates, Inc.
The Brose Company
DMG North
Flack + Kurtz
Thomas Gilbertson Associates
The Peter A. Hartdegen Company
Ted Jacob Engineering Group
Linford Air & Refrigeration Company
R. F. MacDonald Company
Mechanical Contractors Assoc. of No. California
Newcomb Anderson Associates
Pacific Gas & Electric Company
Polycold Systems, Inc.
Edward B. Ward & Company

To contribute to ASHRAE Research, send your check, payable to ASHRAE Research, to Golden Gate Chapter, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107.

ASHRAE GOLDEN GATE CHAPTER 1991-1992

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 Fran Scholl PRESIDENT-ELECT
 Richard Leao SECRETARY
 Richard Paillon TREASURER

BOARD OF GOVERNORS

Gail Brager
 Roy Gifford
 Tom Reinarts

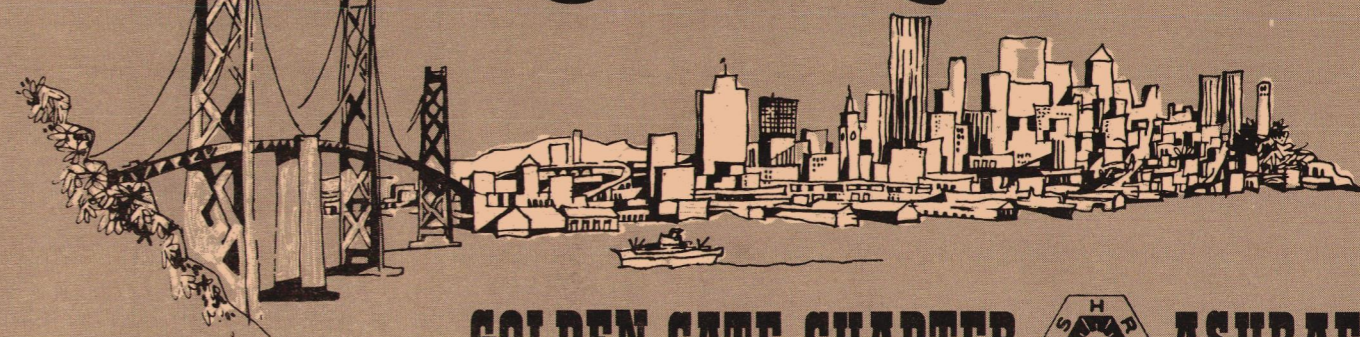
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CRC ACTION	Fran Scholl	REFRIGERATION	Lewis Brooks
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FOG DISPENSER	Rachel Murray	SF ADMIN. CODE	Pete Johnson
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HISTORIAN	Bob Phillips	TENNIS	Wayne Humphrey
HONOR ROLL	Tim Provo		



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

Fog Dispenser



GOLDEN GATE CHAPTER  **ASHRAE**

VOLUME XXXI • NUMBER 7

APRIL 1992

MEETING NOTICE

DATE: Thursday, April 2, 1992
 SOCIAL HOUR: 5:30 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 Gail Brager by noon on Tuesday. A fax form is enclosed for your convenience.

PHONE: (510) 642-1696
 FAX: (510) 643-5571

APRIL PROGRAM

PROGRAM: Student Night
 SPEAKERS: Students from San Francisco State and U.C. Berkeley

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 each spend 5 minutes presenting examples of their current research, class project, or work experience. The presentations represent a wide range of ASHRAE-related interests including HVAC design, a case study approach to learning about HVAC, and the roles of architects and engineers in the HVAC design process.

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

Gail Brager

Air Conditioning Co., Inc.



1700 Industrial Road
 San Carlos, CA 94070
 Phone: (415) 594-0182
 Fax: (415) 594-4915

Robert Hammond / Branch Manager

DESIGN / BUILD HVAC CONTRACTOR
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- Built up direct expansion systems
- DDC control systems
- Life safety design and controls
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GLENDALE ○ SAN CARLOS ○ SAN DIEGO ○ SACRAMENTO ○ SEATTLE



thanks to Roy and Ginny Gifford, Tom Gilbertson, Bob Brose, Frank Mayhew, and Tom Reinarts (who also let us use his offices and phones). The people we talked to were most generous and encouraging. If we didn't reach you, please join us in supporting ASHRAE research. We'd be delighted to add your or your company's name to the Research Honor Roll; contributions of any amount are welcomed and appreciated.

Spring is a very active time for our Chapter. The annual Golf and Tennis Tournaments are being planned now. If you would like to help with plans, call Mark Luckes about golf and Wayne Humphrey about tennis. Otherwise, keep practicing--these events are a lot of fun.

Our annual Seminar and our Product Show will both be held on June 2 at PG&E's Pacific Energy Center. The Seminar will be on new Title 24 requirements. Talk with Jim MacDonald or Marie Madden if you would like to help.

Finally, this year's Chapters Regional Conference will be held on Thursday, May 7, in Sacramento. On Friday and Saturday, the Business Meetings are open to all and provide a great chance to see how Chapters function and influence Society. CRC is a very good place to learn about ASHRAE and to meet others from our region. For more information, see page 3.

See you at Local Student Night.

Barbara Dilts

WINNER!! WINNER!!

Golden Gate Chapter has had its first winner in the infamous marble draw game. Robert Spence, MS, CIH, President of Robert Spence and Associates of Portola Valley, won \$572. Congratulations, Robert.

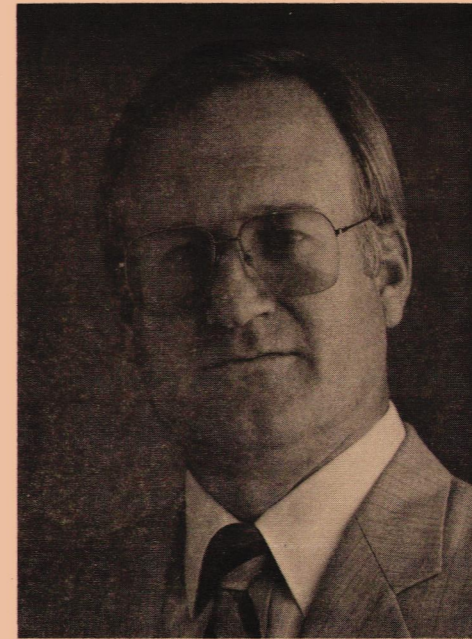
A new game will begin with the following statistics:

Jackpot: \$100.00+
Odds: 5%
Black marbles remaining: 19

Last month, we had lots of guests as well as some members we hadn't seen for a long time. One member said he hadn't been to a meeting for about 20 years! It was great to see all of you folks. Come again . . . soon!

The April meeting is one of our very special meetings. Local Student Night gives us a chance to meet some of the San Francisco State and U. C. Berkeley students who may become our colleagues very soon. Dan Reiter and the Scholarship Committee will be presenting the Golden Gate Chapter Scholarship and the Eric Thor Andresen Memorial Scholarship. Thanks to your support and donations, the Chapter Scholarship has been increased to \$750 this year. For our program, Gail Brager has invited several students to present their projects. We also need sponsors for the students. When you make your reservations, let Gail know if you will be able to buy dinner for a student.

The generosity and support of the Golden Gate members is also evident in our ASHRAE Research Campaign. The Research phonathon was quite successful and a lot more fun than we expected. We received pledges for over \$5,000. This included \$2,000 from Board members and the Brose Company, which matched a portion of the Board contribution. Many



1992 BAY AREA EMINENT ENGINEER

The California Alpha Chapter of Tau Beta Pi, the national engineering honor society, has acknowledged Thomas M. Reinarts' distinctive achievements in the field of professional engineering by naming him 1992 Bay Area Eminent Engineer at the Engineers' Week Banquet in February.

Mr. Reinarts, past President of the Golden Gate Chapter of ASHRAE, is President and Chief Executive Officer of Keller & Gannon, an engineering/architectural firm located in San Francisco. Recognized internationally for his contributions to the engineering profession, his work has taken him throughout the United States and to countries in Europe, Africa, Asia and the Pacific Rim. He helped establish early national energy conservation standards in compliance with President Carter's executive order through Energy Engineering Analysis Programs and Energy Monitoring & Control Systems. More recently he has been involved in the planning and designing of high-energy physics research facilities such as the Advanced Light Source at U.C. Berkeley; Superconducting Super Collider, Waxahachie, Texas; Synchrotron Radiation Source, Argonne National Laboratory; and Pohang Light Source, Pohang, Korea.

The deep satisfaction he has attained through engineering achievements and career gains has prompted him to focus his energies on the development and proliferation of scholarship programs sponsored by the Society of American Military Engineers and the San Francisco Bay Area Engineering Council assisting Bay Area students who aspire to careers in engineering and science.

SCHOLARSHIPS AWARDED

I am happy to announce that we will award our two scholarships at the April meeting. The choice was difficult, as usual, because all of the applicants were well qualified. Janti Sommer was selected to receive the \$750 Golden Gate Chapter Scholarship. Janti is graduating this Spring from San Francisco State University with a B.S. in Mechanical Engineering where she is involved in other societies such as Society of Women Engineers, ASME, and Engineering Society of SFSU. She also has been working part-time at ACCO.

Jinntung Su was selected to receive the \$500 Eric Thor Andresen Memorial Scholarship. Jinntung is graduating in May with a B.S. in Mechanical Engineering, from U.C. Berkeley. After graduation, he will pursue a Masters degree at Stanford. He has received several honors, including Regents' Scholar from U.C. Berkeley and California Alumni Association Scholarship.

Please help me congratulate the recipients at the meeting. I would also like to thank all the applicants for their efforts.

Dan Reiter

EMPLOYMENT OPPORTUNITIES

Mechanical Engineer: An established mechanical and electrical consulting engineering firm is seeking a CA registered mechanical engineer. Minimum 10 years U.S. experience in HVAC, plumbing and fire protection design for commercial and institutional projects. Must be capable of assuming full responsibility for Mechanical Department. Partnership possible for qualified person. Submit confidential response to BWF Consulting Engineers, 510 Myrtle Avenue, Suite 100, South San Francisco, CA 94080, Attn: Mr. Robert Giles.

HVAC Engineer: P.E. preferred, needed for PG&E's new Pacific Energy Center in San Francisco. Duties include developing energy efficiency seminars and classes, tracking advanced technology products and designs, and directing consulting to the HVAC/Architectural community. For more information, please contact Jim Chace, Technical Coordinator, at (415) 973-8576.

SEEKING EMPLOYMENT

Designer/Draftsperson: Employment sought by Designer/Draftsperson with over 20 years experience in the design of HVAC, Plumbing and Piping systems. Have worked for Morrison-Knudsen, Kennedy/Jenks and Foster Engineering. For more information, please contact Eivor Gustafson at (415) 931-0844.

<p>DO YOU KNOW A PROSPECTIVE NEW MEMBER?</p> <p>Contact <i>Membership Chair</i>: Eric Tinglof (415) 467 - 8680</p> <p>MAIL, FAX or PHONE NEWS TO:</p> <p>FOG DISPENSER Rachel Murray, <i>Editor</i> 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>FOG DISPENSER DEADLINES</p> <table border="1"> <thead> <tr> <th>Meeting Dates</th> <th>Copy Deadlines</th> </tr> </thead> <tbody> <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	April 2, 1992	March 18, 1992	May 14, 1992	April 22, 1992	June 4, 1992	May 22, 1992	<p><i>Published monthly</i>, 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>1991 - 1992 Officers Barbara S. Dilts <i>President</i> Frances N. Scholl <i>President - Elect</i> Richard Leao <i>Secretary</i> Richard Paillon <i>Treasurer</i></p> <p>Board of Governors Gail Brager Roy Gifford Tom Reinarts</p>
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MINUTES OF THE MEETING
MARCH 5, 1992

1. President Barbara Dilts called the meeting to order at 7:30 p.m. Self-introductions followed.
 2. Minutes of the February 6, 1992, meeting were approved.
 3. Tom Reinarts, Keller & Gannon, and Dr. David Hodges, Dean of the College of Engineering at U.C. Berkeley, have been jointly awarded the Tau Beta Pi Eminent Engineer Award. This is quite an honor. Congratulations, Tom.
 4. Fran Scholl and her husband, Paul, will be moving to Nashville, Tennessee, on April 1. Barbara presented Fran with a plaque on behalf of the Board and Chapter in appreciation of all her work and support for the Chapter. We'll miss you, Fran.
 5. The following nominations were presented to the Chapter by David Eisenberg of the Nominating Committee:

President	Rich Leao
President-Elect	Richard Paillon
Secretary	Gail Brager
Treasurer	Roy Gifford
Board (1 Yr Term)	Dennis Thompson
Board (2 Yr Term)	Dan Reiter
- Barbara Dilts will become the Past President. Nominations were closed. Ballots will be mailed prior to the next meeting.
6. The annual Seminar and Product Show will be held in May at the Pacific Energy Center.
 7. Roy Gifford announced the start of the Research Promotion Campaign and asked for volunteers for the phonathon on March 11 and 12.
 8. Mark Luckes is planning the annual Golf Tournament. Call Mark at (415) 550-2087 if you want to offer your help.
 9. The CRC will be held in Sacramento this May. Barbara has registration forms available.
 10. Robert Spence WON the Marble Game!
 11. Our speakers for the evening were Bill deBois Blanc from the Bay Area Air Quality Management District and Tom Judson of Webster Engineering. They discussed NO_x flue gas emissions and the effects changes in air quality regulations may have on equipment design and specification.
 12. The meeting was adjourned at 9:20 p.m.

REMINDER: Please get dinner reservations in early to Gail Brager for the April meeting.

PLAN AHEAD FOR MAY FIELD TRIP

PROGRAM: Field Trip to PG&E's Pacific Energy Center.

DATE: Thursday, May 14, 1992

SOCIAL "HOUR:": 5:30 p.m.

TOUR: 6:00 p.m.

DINNER: 7:30 p.m.

The Energy & Technical Activities Committee has arranged a tour of PG&E's Pacific Energy Center which will include demonstrations in the HVAC classroom, environmental test rooms and lighting classroom. Participants will be shown the mechanical systems of the Center, including the ice-storage facility. PG&E will explain how the Center can be used by ASHRAE members and their clients. Examples include demonstrations of diffusers and terminal devices, available space for technology displays and side by side comparisons of space temperature and humidity conditions. The resources of the Center's library of tools, books and software will be described. Look for the registration form in the next *Fog Dispenser*. For more information, call Mark Hydeman at (415) 957-1977.

CRC SEMINAR: IAO & CFC'S

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June 4: Awards Program & Spouse Night

ASHRAE RESEARCH PROMOTION CAMPAIGN

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Dennis Heller
James Hussey
Carl Jordan
Rich Leao
Frank Mayhew
Dale Missimer
Hendrik Mouw
James Myers
Richard Paillon
Jack Palmer
Thomas Reinarts
Robert Roach
Albert Scavino
Fran Scholl
Thomas Staton

Corporate Honor Roll - Contribution of \$125 or more

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Thomas Gilbertson Associates
The Peter A. Hartdegen Company
Ted Jacob Engineering Group
Mechanical Contractors Assoc. of No. California
Newcomb Anderson Associates
Pacific Gas & Electric Company
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To contribute to ASHRAE Research, send your check, payable to ASHRAE Research, to Golden Gate Chapter, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107.

ASHRAE GOLDEN GATE CHAPTER 1991-1992

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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
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HISTORIAN	Bob Phillips	TENNIS	Wayne Humphrey
HONOR ROLL	Tim Provo		

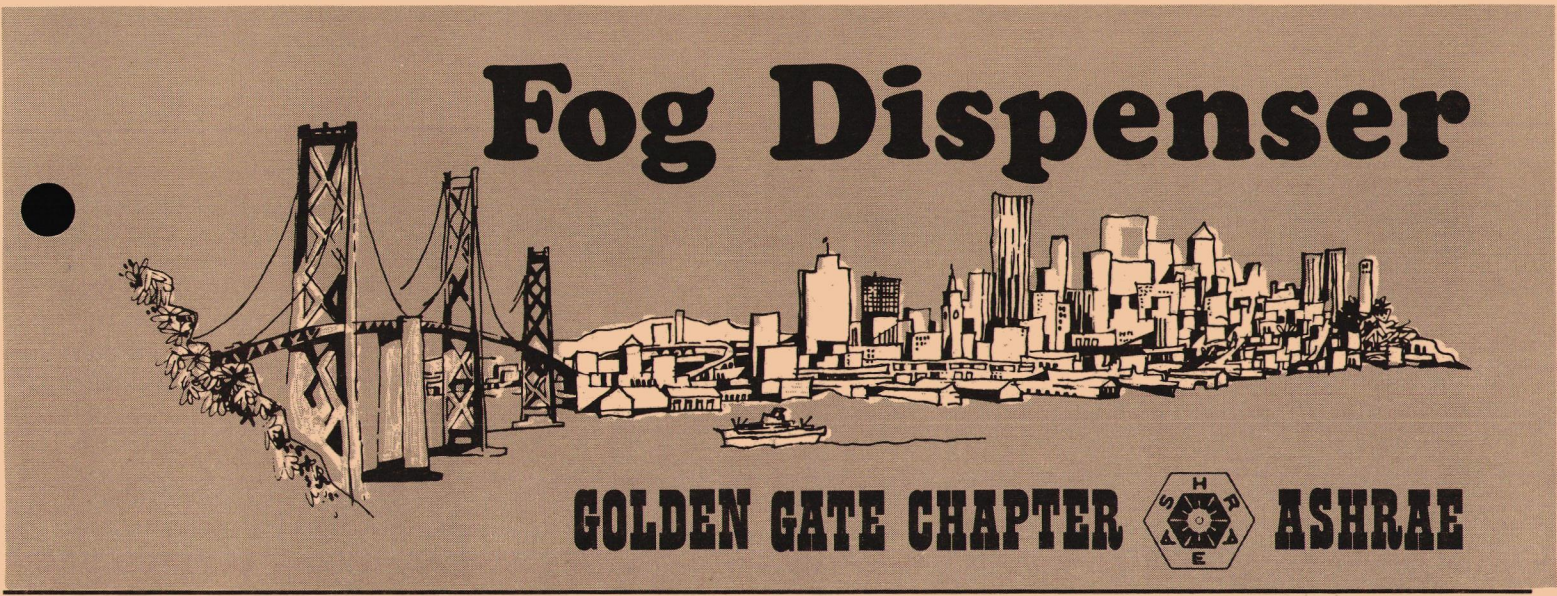


Golden Gate Chapter
 ASHRAE
 370 Brannan Street
 San Francisco, CA 94107



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

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Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXXI • NUMBER 5

FEBRUARY 1992

MEETING NOTICE

DATE: Thursday, February 6, 1992
 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

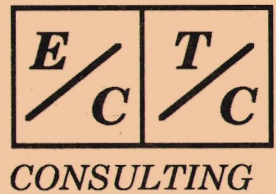
FEBRUARY PROGRAM

PROGRAM: "Dynamic Fire Dampers"
 SPEAKER: Carl Treaster
 Mr. Treaster will discuss the latest (Fourth) Edition of the UL 555 Test Standard for fire dampers and its impact on HVAC system design. He will also present a short video which illustrates the improved dependability of the dynamic fire dampers that are currently available as a result of this new test standard.

Fran Scholl

PRE-MEETING TECHNICAL SEMINAR

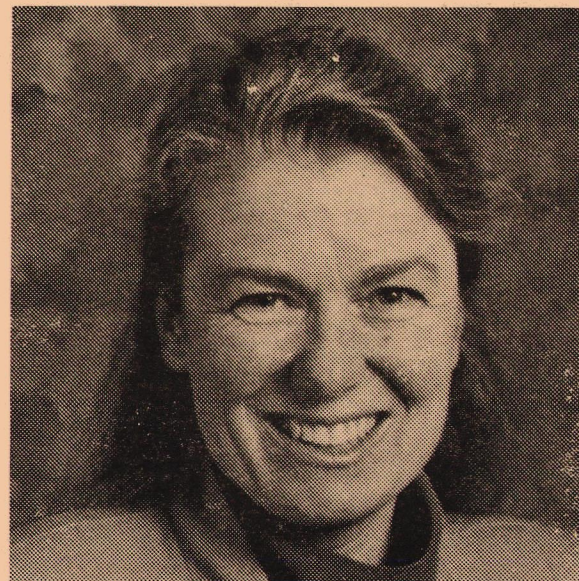
PROGRAM: "Legal Issues of Interest to Engineers"
 (For more information, see page 2.)
 SPEAKERS: John Makin, Esq. & Patricia Perkins, Esq.
 Cooper, White & Cooper



FRANK W. MAYHEW
 5864 Coldwater Drive
 Castro Valley, CA 94552

Ph./Fax: (510) 537-9381

Energy Conservation and Temperature Controls
 For Air Conditioning and Refrigeration



Many THANK YOU'S to Fran Scholl, Rachel Murray and all the folks at Charles M. Salter Associates for last month's field trip! A number of people have said how much they enjoyed it.

The Winter Meeting in Anaheim is also now history. If you attended, I hope you learned a lot, contributed your expertise and energy, attended to your responsibilities, visited with friends from far away, and enjoyed it all. If you've never attended a Society meeting, talk with some of the folks who have. You may want to attend the next one.

Our February Chapter meeting will be the kickoff for the annual ASHRAE Research Campaign. Our Chapter raises money each year for several specific campaigns. Each is designed to enhance our profession. In October, you met Dr. Gistelli and some of his Cal Poly students some of whom benefit from the Golden Gate Student Workshop program. In April, we will be presenting two scholarships directly to students. Through these and other educational efforts, we hope to influence students to become our future colleagues. ASHRAE Research sponsors a wide variety of presentations which expand the science of our profession. The same research can also become part of

the next revision of the ASHRAE Handbooks which we may use every day.

This year, thanks to the initiative of Tom Gilbertson and the enthusiasm of Dennis Heller, our Research Chair, Golden Gate has been selected by Society for the pilot of a special effort to assist large chapters. Mike Hart, who has led successful campaigns in his Austin chapter for his region and at Society level, has already visited Dennis and the Board to share his ideas and help us with plans. In addition, Rudy Calvo, our Regional Chair for ASHRAE Research, will be joining us for this kickoff. Look around your own offices. Has the ASHRAE Research of the past helped you? We hope to have enough volunteers so that this campaign will be almost as much fun as the tennis tournament that benefits the Eric Thor Andresen Scholarship fund.

Speaking of scholarships . . . Dan Reiter is accepting applications for the two scholarships (\$500 and \$750) to be presented at the April meeting. Have your favorite students applied? The deadline is February 19. Call Dan for more information or to get an application at (510) 232-1541.

Don't forget. Mark Hydeman and the Energy and Technical Affairs Committee have planned another seminar at 5:45 p.m. They've invited several lawyers to talk about issues that concern Mechanical Engineers. Come early for the best seats.

See you then.

Barbara Dilts

PRE-MEETING SEMINAR (cont. from page 1)

SPEAKERS: John Makin, Esq. & Patricia Perkins, Esq. Cooper, White & Cooper

DETAILS: New issues and legal interpretations of the Mechanics Lien and Statute of Limitations as they apply to the construction industry will be presented. Presentation begins at 5:45 p.m. in the library of the Engineers Club (lower level, next to the bar).

MINUTES OF THE MEETING
JANUARY 9, 1992

1. The Chapter meeting called to order at 7:35 p.m. by President Barbara Dilts.
2. This month's meeting was held during a field trip at the offices of Charles M. Salter Associates, Inc.
3. The Chapter members nominated and elected the following members to the Nominating Committee:

Barbara Dilts
David Eisenberg
Carl Jordan
Jack Kniveton
Gene Valerio
4. The Chapter meeting was adjourned at 7:45 p.m.

REMINDER: Please get your dinner reservations in early for our February meeting.

FUTURE PROGRAMS:

- March: R. F. MacDonald "NO_x Requirements and Available Technologies for Fuel Fired Equipment."
- April: Student Program
- May: Field Trip to PG&E's *Pacific Energy Center*
- June: Awards Program & Spouse Night

LAST CHANCE FOR '92 SCHOLARSHIPS

Our chapter is 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!

EIT REVIEW COURSE

San Francisco State University is offering an evening review course for the Engineer-in-Training (EIT) exam. The class will meet on Mondays and Wednesdays, from 7:00 to 9:45 pm, beginning February 19 through April 1. Students taking the course will earn 3 CEU credits. For further information, contact Dr. Ganji at (415) 338-7736.

ANNOUNCEMENT

R. F. MacDonald Co., in Foster City, is pleased to announce the addition of Dale Yager to their staff. Dale brings sixteen years of experience with him to his new position as a Sales Engineer. Please call (415) 574-0110 for more information.

THE MARBLE DRAW

Next month's starting pot: \$493.00+
Odds: 8.33%
Black marbles remaining: 11

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.

<p>DO YOU KNOW A PROSPECTIVE NEW MEMBER?</p> <p>Contact <i>Membership Chair:</i> Eric Tinglof (415) 467 - 8680</p> <p>MAIL, FAX or PHONE NEWS TO:</p> <p>FOG DISPENSER Rachel Murray, <i>Editor</i> 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>FOG DISPENSER DEADLINES</p> <table border="1"> <thead> <tr> <th>Meeting Dates</th> <th>Copy Deadlines</th> </tr> </thead> <tbody> <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	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><i>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</i></p> <p>1991 - 1992 Officers Barbara S. Dilts <i>President</i> Frances N. Scholl <i>President - Elect</i> Richard Leao <i>Secretary</i> Richard Paillon <i>Treasurer</i></p> <p>Board of Governors Gail Brager Roy Gifford Tom Reinarts</p>
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ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX
FOR THURSDAY, FEBRUARY 6, 1992

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

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

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

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: _____

COMPANY: _____ PHONE: _____

FAX ACTIVITIES REPORT

TO: Golden Gate ASHRAE Members

If you have provided educational talks, classes, seminars, legislative testimony, liaisons with government officers or technical reports on any ASHRAE-related topic, please fill in the appropriate information below. We are also interested in your listing any energy or technical awards you have received and appointments to government advisory boards, councils or committees. This should facilitate accurate record keeping by chairpersons for reports, points and publicity.

NAME _____

SUBJECT/PROJECT _____

PRESENTATION _____

LOCATION _____

AWARD _____

APPOINTMENTS _____

COMMENTS _____

PLEASE RETURN THIS FORM VIA FAX TO:

ELLEN PIERCE * KELLER & GANNON * (415) 621-1199
FAX NUMBER: (415) 864-3681

ASHRAE GOLDEN GATE CHAPTER 1991-1992

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

2030



Fog Dispenser
GOLDEN GATE CHAPTER  **ASHRAE**

VOLUME XXXI • NUMBER 4

JANUARY 1992

MEETING NOTICE

DATE: Thursday, January 9, 1992
 SOCIAL TIME: 5:30 p.m.
 PROGRAM TIMES: 6:00 p.m., 6:45 p.m., & 7:45 p.m.
 LOCATION: Charles M. Salter Associates, Inc.
 130 Sutter Street, Suite 500
 San Francisco, CA 94104
 (415) 397-0442
 COST: \$25.00
 NOTE: Please phone or fax your dinner reservation to Rachel Murray by noon on Tuesday. A fax form is enclosed for your convenience.
 PHONE: (415) 397-0442, Ext. 229
 FAX: (415) 397-0454

JANUARY PROGRAM

PROGRAM: "Fundamentals of Acoustics for Design Professionals"
 SPEAKER: Rachel Murray, P.E.
 Charles M. Salter Associates, Inc.

Rachel will discuss some of the fundamentals of acoustics that pertain to HVAC system design. The latest "Sound and Vibration Control" chapter from the 1991 ASHRAE Handbook will be summarized and the issue of NC versus RC curves will be discussed. Various NC levels and other acoustic phenomena will be demonstrated in CSA's Presentation Studio.

CSA's Presentation Studio is a sound-isolated room with a computer-controlled audio/visual system. Since the CSA Presentation Studio can accommodate up to fifteen people at a time, the program will be given at the three times shown to the left.



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- PROGRESSIVE AIR • VAV Diffusers
- MAGIC AIRE • DX and Chilled Water Fan Coils and Coils
- DELTA FLO • Electric Heaters
- TOSHIBA • Mini Split Systems
- HERRMIDIFIER • Humidification Systems



experience some of the other professional activities of ASHRAE.

If you're looking for ASHRAE activities closer to home, the new year offers many:

- Make sure your favorite student has an application for one of the two scholarships that our Chapter offers. Call Dan Reiter for more information (510) 232-1541.
- Dennis Heller is looking for lots of volunteers to do a little work each for ASHRAE Research. Call Dennis for details at 589-8313.
- The Spring Seminar and the Product Show Committees have started planning. They'd be glad to hear your ideas. Call Marie Madden at 647-0696 or Jim MacDonald at 574-0110.
- And don't forget to keep your tennis and golf games in top shape. The big tournaments are only months away.

A happy and busy New Year to all. See you at the January meeting.

Barbara Dilts

HAPPY NEW YEAR TO ALL OF YOU! I hope you and your families had a delightful and relaxing holiday season. The new year always seems like the time for new beginnings even though my desk is covered with stuff from last year. The Golden Gate Chapter will also have some new programs in 1992 as well as many that we enjoy too much to change.

For starters, Fran has scheduled two field trips this year. Our January 9th (the second Thursday of the month) meeting will be at Charles M. Salter Associates. Rachel Murray is even arranging a catered dinner (at the usual price). She has also arranged to include a SHORT business meeting at 7:30 p.m. At that time, we will elect the Nominating Committee who will nominate our officers and board members for next year. I hope to see all of you on January 9th.

The ASHRAE Winter Meeting is in Anaheim this year starting January 25. That's a lot closer and warmer than New York so I hope a number of you will be able to attend. Also, consider attending the Professional Development Seminar on Energy Efficient Buildings and Standard 90.2 on January 23-24. The two annual Society meetings are excellent opportunities to

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

**Attend ASHRAE's
Professional Development Seminar (PDS)**

**"Energy Efficient Buildings:
Complying With Standard 90.1"
January 23-24, 1992**

**in
Anaheim**

For a complete program brochure and registration information contact **Marietta Henry at ASHRAE Headquarters (404-636-8400, Fax 404-321-5478)**

The above Professional Development Seminar will be held right before the Winter Meeting. This is an excellent opportunity to learn about Standard 90.1, compliance procedures and computer programs that facilitate design (you can even bring your own computer).

Barbara Dilts

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!

SEMINAR MANUALS

Seminar Manuals are available from the CRC Technical Seminar "In Search of Indoor Air Quality." For those of you who missed this excellent seminar last May at the CRC, you may be wondering just what went on there! Due to popular demand, the Southern California Chapter is making about 20 seminar manuals available for a minimum donation of \$35 each, on a first come first served basis. Enclosed is an outline of the session events for your reference. As you can see, the featured speakers are well established experts in their field. If you want a solid and current update on the Indoor Air Quality issue, reserve your manual now before they are all gone.

Call Craig Hofferber at (714) 837-7641 to reserve your manual now. Your confirmed order must be accompanied by your generous donation in the form of personal check, company check, or money order.

We hope you can take this opportunity to efficiently upgrade your IAQ knowledge today!

WANTED - HEAVY ARTILLERY!

The ASHRAE Annual Meeting is coming up fast! In January, the Orange Empire Chapter is hosting this gala event which attracts worldwide recognition. This is the first time in a long time that ASHRAE has held an annual meeting in Southern California, and we need your help! You can perform duties such as Technical Session Monitoring, Registration Assistance, Tour Coordination, or Logistics Support for the various host committees. Most of the duties enable you to enroll in the technical sessions free of charge. The more help we can get, the less everyone will have to work and the meeting will be made fun and impressive to ASHRAE and ARI members worldwide.

Won't you please offer to donate a small amount of your time to help make this event a success? Please call Mike Dillon, General Chairman, at (213) 422-2205 and offer your assistance to him. We need your support to make this meeting a resounding and memorable success!!

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.

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
January 9, 1992	December 20, 1991
February 6, 1992	January 22, 1992
March 5, 1992	February 19, 1992
April 2, 1992	March 18, 1992
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June 4, 1992	May 22, 1992

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- Frances N. Scholl *President - Elect*
- Richard Leao *Secretary*
- Richard Paillon *Treasurer*

Board of Governors

- Gail Brager
- Roy Gifford
- Tom Reinarts

MINUTES OF THE MEETING
DECEMBER 5, 1991

1. The meeting called to order at 7:30 p.m. by President Barbara Dilts. She welcomed John Sasoka to our meeting. John is the Region Chairperson. Self-introductions followed.
2. Minutes of the November 7, 1991 meeting were approved with corrections noted by Frank Mayhew.
3. John Sasoka, Region Chair, spoke about the research promotion report which highlighted the Golden Gate Chapter in many categories. CRC is slated for May 19, 1992, in Sacramento. John reminded Chapter members about the society meeting coming up in January in Anaheim. He encouraged those attending to go to the workshops as well as to the show itself. He advised that the joint meeting with Region 11 every five years is being tentatively set up. 1995 is the next joint meeting which will be held in Hawaii with Region 11.
4. Tom White reminded the chapter that PG&E donated \$10,000 to go towards ASHRAE research.
5. Barbara Dilts read a letter from Cal Poly students thanking our chapter for the sponsorship of meals.
6. Dan Reiter noted that two scholarships will be awarded next year. He encourages donations to both scholarship funds.
7. Barbara Dilts announced the PG&E Pacific Energy Center Grand Opening was set for Friday, December 6, from 9 a.m. to 8 p.m. Barbara encouraged everybody to go to the opening.
8. A reminder that the next meeting will be on January 9, the second Thursday, and it will be a field trip to the offices of Charles Salter Associates, located at 130 Sutter Street, 5th Floor.
9. Fran Scholl introduced our guest speaker, Bill Edwards who gave us an interesting and informative talk on testing, adjusting, and balancing of HVAC systems.
10. The meeting was adjourned at 9:25 p.m.

REMINDER: Please get dinner reservations in early for January field trip.

FUTURE PROGRAMS:

- | | |
|-------------|--|
| February 6: | Fire Dampers, New Code Issues |
| March 5: | New NO _x Requirements and Available Technologies for Fuel-Fired Equipment |
| April 2: | Student Program |
| May 14: | Field Trip, PG&E's Pacific Energy Center |
| June 4: | Awards Program & Spouse Night |

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX
FOR THURSDAY, JANUARY 9, 1992
(the **second** Thursday of 1992)

FAX TO: RACHEL MURRAY, CHARLES M. SALTER ASSOCIATES, INC.
(415) 397-0454

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

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

FAX EARLY! Call Rachel at (415) 397-0442, Ext. 229, if you have questions or any last minute changes in plans. **Please** cancel your reservation if you cannot attend the meeting. For your reference, a map has been enclosed in the newsletter to indicate the location of the offices of Charles M. Salter Associates.

PLEASE MAKE CHECKS PAYABLE TO "**ASHRAE**"

SIGNATURE: _____
COMPANY: _____ PHONE: _____