

## ADVERTISING

**MECHANICAL ENGINEER / HVAC / PLUMBING**

Established mechanical consulting firm specializing in Hospitals, Libraries, and other challenging projects is seeking a talented engineer with 5 years of experience. If you are a high quality individual interested in working in a pleasant environment with good benefits send your resume (no calls) to Guttman & MacRitchie, 1300 Sutter St., San Francisco, CA 94109 EOE M/F

**HVAC DESIGN ENGINEER** (to work in Engineering Department), minimum five years experience, drafting skills required, computer knowledge and RE a plus. WESTERN ALLIED CORP. Call Fran Crisp, 415-326-0750

**OFFICE ASSISTENT/TEMPORARY**

Fast-paced HVAC mfg. rep's office seeks highly motivated, technically oriented person with excellent organizational, PR, phone, expediting and PC skills. Require literacy in FW2/3, DBIV or other integrated software. Prefer engr. sales/mktg. background. PETER A. HARTDEGEN CO., INC., 1475 Powell St., Emeryville, CA 94608. 415-653-7713. Ask for Mary Laird.

 **NEW AFFILIATIONS**

This is a new column to announce changes in company affiliations for Golden Gate Chapter members. You may want to note these changes in your roster copy.

Please contact Marie Hoch at 785-4800 if you'd like to have your change in affiliation noted in this column.

Carl Jordan claims he has never been first at anything so he gets to be first on this list.

**Carl H. Jordan**                      526-6299  
646 Colusa Avenue  
Berkeley, CA 94707

Carl has left SOM. He is doing some independent consulting and having a short sabbatical to assess his career direction.

**NEW ASHRAE MEMBERS**

Larry D. Wilson - S.F.State (student)  
Nenad Sark - Glumac & Assoc.  
Arian Sorkhabi - Envirodynamics  
Cecil Lankford - S.F.State (student)  
Robert Hogue - Garretson-Elmen.-Zinov  
David Fortney - Pacific Gas & Electric  
Ron Yaffe - Tempco Equipment Co.  
Doug Herbert - Tempco Equipment Co.  
Nick Pattin - ACCO  
Phil Jasionowski - Trane Company  
Grace Alexander - Engineered Air Sys.  
Christopher Sommer - ACCO

Welcome to the Golden Gate Chapter!



VOLUME XXVIII NO. 3

JANUARY 1989

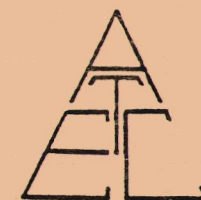
**MEETING NOTICE**

**DATE:** THURSDAY JAN. 5, 1989  
**SOCIAL HOUR:** 5:30 P.M.  
**DINNER:** 6:30 P.M. \$18.50  
**LOCATION:** ENGINEERS CLUB  
160 Sansome Street  
San Francisco, CA

**NOTE:** Reservation cards must arrive later than Tues. Jan. 3rd 1989. If your plans change, please call the Engineers Club at 421-3184 or Gino Colacchia at Kalman Mechanical at 524-8094, no later than noon of the meeting date. Our chapter must pay if you don't show up, so please call. We can't guarantee your meal without a reservation.

**JANUARY PROGRAM**

**"Tom Simonson - ENGINEERS NITE"**  
Tom will share his firm's secrets of success and unique design problems encountered in their 55 year history.



*Air Treatment Equipment Corporation*  
*manufacturers representative*

WALTON - humidifiers

PARAMETRICS - variable speed drives

\* TEMTROL - custom industrial quality air handling units

THERMO-AIRE - low temp (40 deg.) AC systems and thermal storage

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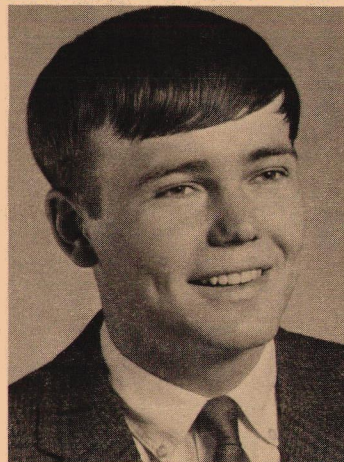
DAVID H. EISENBERG, P.E.

Office (415) 655-3990

FAX (415) 655-7966

\* in association with RMR Associates, Inc.

**PRESIDENT'S MESSAGE**



**HAPPY NEW YEAR!**

California has a new ASHRAE chapter. The Tri-County Chapter is located in Colton, California. For all of you geography buffs - Colton is in Southern California. I would like to extend my heartiest welcome to this new Chapter and wish them the best.


December's meeting was well presented. The speakers' Lew Brooks and John Hogan did an excellent job on "Basic Refrigeration Design". The attendance was up from last year and everyone was in a festive mood for the holidays. Dick Glumac and Gerry Yaffe attended. It's always a pleasure to see old familiar faces. Professor Glumac announced his work at UC Berkeley.

The January meeting should be of great interest to all you history buffs. Tom Simonson will present the San Francisco history of his firm. I invite all of you to attend what will be a memorable evening.

We expect to have scholarship funds available for local students this June, 1989. Monies have been deposited locally and the CD interest will be substantial. It will be fun to see the student enthusiasm resulting from this.

The technical seminar in April will be held at the PG&E auditorium and will be on Refrigeration. Mark your calendars for Wednesday, April 26th. Maggie Selig and Steve Guttman have been busy organizing all of the details. Our first official mailing will be sent out in January. Right, Steve?

I wish all of you a Happy Holiday Season and a prosperous New Year.

 **Sherman Brown, President**

**KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chairman:  
Dan Vasquez - 408/288-9551

Mail or Phone News to:  
Marie Hoch, Editor  
FOG DISPENSER  
Air Filter Sales & Service  
20671 Corsair Boulevard  
Hayward, CA 94545  
(415) 785-4800  
FAX (415) 785-4804

**COPY DEADLINE**

Meeting Date	Copy Deadline
February 2, 1989	January 17, 1989
March 2, 1989	February 16, 1989
April 6, 1989	March 22, 1989
May 4, 1989	April 19, 1989
June 1, 1989	May 17, 1989

Published Monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107—Phone 495-4552  
1988-1989 OFFICERS

Sherman Brown.....President  
Gino Colacchia....President-Elect  
Tom Reinarts.....Secretary  
Barbara Dilts.....Treasurer

BOARD OF GOVERNORS  
Frances Crisp Steve Taylor  
Dart Rinefort

MINUTES OF THE DECEMBER MEETING

December 1, 1988  
Attendance: 70 Members, 14 Guests

- The December General Chapter Meeting was called to order by President Brown at 7:35 p.m. Self-introductions were made.
- The Minutes of the November meeting were reviewed and approved.
- Our campaign for the Endowment is in full swing. Let Frank Mayhew know if you have sent your money directly to Cal Poly.
- Tom White presented a certificate to President Brown for the Chapter's 50th Anniversary.
- Sherman Brown promises a new picture in the FOG DISPENSER for the new year.
- Dan Vasquez reports that 98 members have renewed. There are many delinquent members who have not paid their dues.
- The roster is in for printing.
- December raffle prizes were donated by Charles & Braun, Peter Hardegan Co. and Fran Crisp.
- Our December program was presented by Mr. Lewis Brooks of Brooks Enterprises and Mr. John Hogan of Sporlan Valve. The topic was "A Basic Refrigeration Design."
- January's meeting will focus on "Tom Simonson--Engineers Nite." We will cover the history of his company in the Bay Area and it should be a good meeting.
- A "question/answer" period followed the program, and the meeting was adjourned at 9:25 p.m.

by Fran Crisp

**DECEMBER RAFFLE** ticket sales produced an incredible \$101 in support of the Chapter's Scholarship fund.

Prizes were donated by the following companies and individuals:

- \* Charles and Braun
- \* Fran Crisp
- \* Peter Hartdegen Company

Thank you for your efforts!  
by Eric Tinglof

**TITLE 24 SEMINAR**

Our Chapter has postponed the Title 24 seminar to January 25, 1989. It will be held at the PG&E building in San Francisco. The cost is \$60 for ASHRAE members. The price includes a new copy of the Nonresidential Design Manual and Standards. Since 50% of the information in these manuals has been revised, the seminar should be very enlightening to all. For more information, call Tom McKewan at (415) 398-7667.

by Tom McKewan

**ENGINEERS CLUB MEMBERSHIP**

ASHRAE members interested in joining the Engineers Club of San Francisco are invited to contact Kerry Parker, Membership Director, at 421-3184. Mr. Parker has written our Chapter that, "While membership is open through sponsorship only, I am available to assist any member of your organization in attaining the necessary sponsorship in order to join the Club. Many people are curious about fees and procedures, and I can therefore provide that information as well as answer other questions about membership."

**RAFFLE TICKET SALES** continued to gain momentum in January by adding an additional \$86 to the scholarship fund.

My apologies to the following companies who generously donated prizes but were not given formal recognition at the meeting. They are:

- \*Air Filter Sales & Service
- \*Aronovsky & Associates
- \*Keller & Gannon

Thanks for your continued support!  
by Eric Tinglof

#### CODE COMMITTEE ANNOUNCEMENT

"ASHRAE members should be aware that the City of San Francisco has started their review process for their 1988 Building and Mechanical Codes. Both proposed documents are amended versions of the Uniform Codes. To receive your copy of the proposed documents contact:

City and County of San Francisco  
Bureau of Building Inspection  
450 McAllister Street, Room 202  
San Francisco, CA 94102  
(415) 558-3051

The deadline for receiving comments on these first drafts has been extended until April 15, 1989. The Code Committee will be having a meeting in February to review these documents and develop a Chapter position. Your comments can be mailed directly to the City or incorporated in the Chapter position.

by Paul A. Robinson  
Chairman, Code Committee

#### EAST BAY CONSTRUCTION PRODUCT EXPO

The East Bay/Oakland Construction Specifications Institute will host its fifth annual Construction Products Exposition on Tuesday, Feb. 7, from 2:00-7:30 p.m., at the Oakland Convention Center's West Exhibition Hall, located at 10th Street and Broadway, adjacent to BART, in downtown Oakland.

More than 100 exhibitors are represented. Admission is free. Contact Ed Stuecker, 324-4692 for details.

#### EMPLOYMENT OPPORTUNITIES

##### HVAC/PLUMBING DESIGNER

Young and rapidly growing mechanic consulting firm specializing in hospitals, laboratories and electronic facilities is seeking a designer with a minimum of five years experience. Send your resume (no calls) to Ted Jacob Engineering Group, Inc., 585 Mandana Blvd., Suite 10, Oakland, CA 94610

##### HVAC SALES ENGINEER

Progressive Manufacturer's Representative looking for a Mechanical Engineer with technical sales experience. Contact Ken Horsfall at Engineered Data Environments (415) 426-0150.

#### NEW AFFILIATIONS

Gino Colacchia has joined the firm of Allen Heating and Sheet Metal, 31 Industrial Way, Greenbrae, CA. 94904, Ph. 415-924-2425, Fax 924-5925. Gino will be responsible for expansion of the firm's Commercial Division throughout the Bay Area.

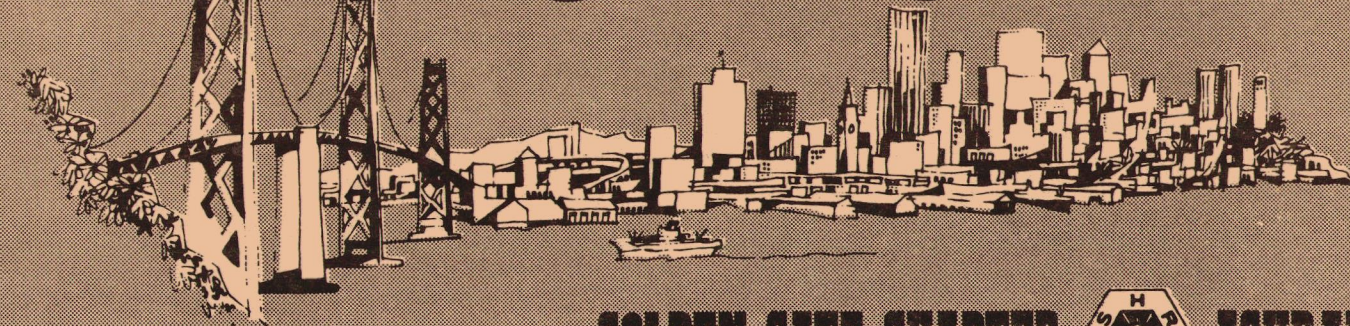
#### PROMOTIONS

Gayner Engineers is pleased to announce the appointment of Grant Wong as president. He has been with the firm for 23 years. Gayner Engineers also elected Nick Mironov, Eric Darnton, Carl Crandall and Silvan Peterhans as vice presidents. Duane Hanson becomes president emeritus and will remain active in the company. In 1989, Gayner Engineers celebrates its 48th year of service.

#### CAL POLY FOUNDATION

Frank Mayhew has been working hard, raising funds to endow a chair at Cal Poly. If you would like to help or contribute money, please call him at 589-8313.

# Fog Dispenser



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XXVIII No. 5

FEBRUARY 1989

#### MEETING NOTICE

DATE: Thurs. Feb. 2nd, 1989  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 Sansome Street  
San Francisco, CA

COST: \$18.50, \$9.25 students  
NOTE: We must receive your reservation card no later than Tues. Jan 31. We cannot guarantee your meal without a reservation. If your plans change, please call the Engineers Club at 421-3184 or Gino Colacchia at Allen Heating and Sheet Metal at 924-2425, no later than noon of the meeting date. Our Chapter must pay if you don't show up for dinner, so please call!

#### FEBRUARY PROGRAM/STUDENT NIGHT

GAIL SCHILLER, PH.D., Assistant Professor, Building Science, Dept. of Architecture, UC Berkeley, will present:

"A Look at Thermal Comfort in Ten San Francisco Bay Area Office Buildings"

#### HONOR ROLL

DMG  
NORTH INC.

#### MANUFACTURERS' REPRESENTATIVE

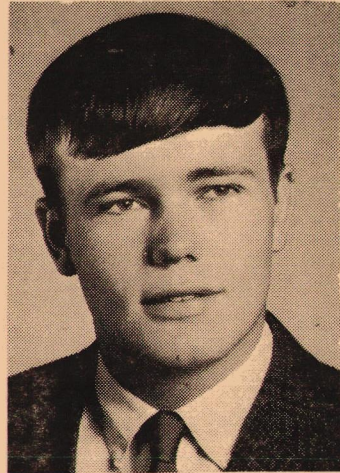
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TOM GRAHAM - BOB METTE - STEVE NEMEC

## PRESIDENT'S MESSAGE



If anyone is interested, the Chapter is in need of a Chairman for the San Francisco Code Committee. Please see the announcement on the back page of the Fog Dispenser concerning the need to review the proposed amendments to the San Francisco Uniform Code. Please call me at 348-0555 to offer your help.

I would like to recognize in my column Clyde Wilson-Reid.

Born November 16, 1903  
Died January 6, 1989

Clyde was an active and committed member of the Shepherd of the Hills Community and the greater Berkeley community. He gave much of his time in service to these communities. Clyde and his family--wife, Frances, and daughter Ronda--were charter members of the Shephard of the Hills Community where Clyde gave faithful witness to his Lord and Savior, Christ Jesus.

Clyde also served his community as a member of Aames Shrine, the Rotary Club, in which he served as its president, and the Masonic Lodge. Clyde was the founder and former owner of Clyde Equipment Company, a member of ASHRAE and former member of Mira Vista Country Club.

The youngest of four brothers, Clyde was born in Melbourne, Australia. He was the beloved husband of Frances Wilson-Reid, loving father of Ronda Bachtell of Sparks, Nevada, grandfather of Stacy Bachtell, brother of IVa Cochrane of Melbourne, Australia, uncle of Diane Burrafato and John Rising of San Francisco, and uncle to numerous nieces and nephews in Australia and Mallorca.

His enthusiasm and presence will be missed. God bless.

**Sherman Brown, President**

February is student night. With the continued hard work of Education Chairman Gary Harbison, our student involvement has increased every year. Thanks to Gary for a job well done!

We encourage all students to become involved. Our Chapter is very active and can offer each student a continuous source of education.

Steve Guttman and Maggie Selig have been very active preparing for the one day Technical Seminar on April 19th. We reviewed the schedule of activities at our January Board meeting and this year's Refrigeration Seminar should stand out as one of the best. I encourage all members to attend and also to help out if required. Our Chapter members have been very supportive this past year and the Board thanks each of you.

Dan Reiter, Scholarship Chairman; Dr. Gail Schiller-UC Berkeley Student Chapter and Gary Harbison recently met to review the 1989 Scholarship. The criteria for this award and the amount of monies available will be unveiled later. The Board is excited to see our Chapter "kick off" the scholarship program. This will encourage our continued growth.

All members who brought guests to our December meeting will be rewarded with a free bottle of wine by Dan Vasquez.

## MINUTES OF THE JANUARY MEETING

January 5, 1989

Attendance: 78 Members, 16 Guests

1. The January General Chapter Meeting was called to order by President Brown at 7:30 p.m.

2. Minutes of the December meeting were reviewed and approved followed by self-introductions.

3. The winners of bottles of wine for bringing new members to the last meeting were Brad Gustafson, Eric Tinglof, Gerry Yaffe, Dart Rinefort and Maggie Selig. Thanks to all.

4. The following announcements were made:

a. Sherman Brown is STILL promising a new picture for the FOG DISPENSER.

b. Carl Jordan spoke recently to the San Jose ASHRAE Chapter on the Pacific Bell Project.

c. The Winter Meeting of ASHRAE will be in Chicago from January 28 thru February 1 Stay Warm!

d. Tom White announced that Hank Mouw is now a new Life Member of ASHRAE. Congratulations, Hank! Thanks, Tom.

e. Tom Higash passed away on December 29. He is survived by his wife, Fusa, and their two children, Glen and Patricia. Condolences may be sent to the family at 1918 Bishop Road, Belmont, CA 94002.

f. The Constitution and By-Laws Committee is working hard.

g. Tom McKewan reminded us to register now for the Title 24 Seminar presented by the Chapter Energy and Technical Affairs Committee on January 25. Attendees will receive the new Title 24 Design Manual.

h. Steve Guttman announced the Spring Technical Seminar on Refrigeration Systems. The April 19 seminar will include a variety of speakers and workshops.

i. Engineers' Week is February 19 through 25. Eric Johnson will coordinate publicity.

j. Gary Harbison announced the Spring courses offered through U.C. Extension. Frank Mayhew's "Temperature Controls for HVAC" begins February 7 at Prospect High School in Saratoga. Steve Taylor's "Heating and Air Conditioning System Design" begins February 6 in San Francisco at 55 Laguna St. Call U.C. Extension (642-4111) for more information.

k. The Cal Poly ASHRAE Chair Endowment is now approaching \$10,000 in pledges and donations. Contact Frank Mayhew if you would like to contribute.

5. Sherman Brown awarded a 50 Year Member Certificate to Tom White. Tom also accepted the certificate for Oliver Johnson. Congratulations to both and thanks for your years of service.

6. Karl Guttman introduced our very special speaker for the evening, Tom Simonson. Tom shared the history of his firm G. M. and T. R. Simonson, which was founded by his father in the 1920's. He has worked on many challenging projects and shared some of the wisdom he has gained over the years. "This field is so interesting because it is so primitive." There is much opportunity for creative approaches to problems. "Systems will not work if the operators do not like them." Startup is a very important phase of any job. "For any job there are three attributes: quantity, quality and price. The owner can pick any two." Tom plans to continue working as a legal consultant and expert witness.

7. Gail Schiller of U.C. Berkeley will be next month's speaker. She will discuss the field study published in the October issue of the ASHRAE JOURNAL.

8. The meeting was adjourned at 9:10 p.m.

AMERICAN SOCIETY OF HEATING, REFRIGERATING  
AND AIR-CONDITIONING ENGINEERS, INC.

GOLDEN GATE CHAPTER

PRESIDENT

Sherman Brown - Prime Air  
700 South Claremont, Suite 111  
San Mateo, CA 94402  
(415) 348-0555

PRESIDENT-ELECT

Gino Colacchia - Allen Heating  
31 Industrial Way  
Greenbrae, CA 94904  
(415) 924-2425

SECRETARY

Thomas M. Reinarts - Keller & Gannon  
1453 Mission Street  
San Francisco, CA 94103  
(415) 621-1199

TREASURER

Barbara S. Dilts - PG&E  
1170 Market Street, Sixth Floor  
San Francisco, CA 94102  
(415) 972-2277

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P. O. Box 5196  
San Mateo, CA 94402  
(415) 326-0750

W. Dart Rinefort - Glumac & Associates  
Four Embarcadero Center, Suite 220  
San Francisco, CA 94111  
(415) 398-7667

Steven T. Taylor - Linford Engineering  
P. O. Box 449  
Oakland, CA 94604  
(415) 834-2430

NEWSLETTER

Marie Hoch - Air Filter Sales & Service  
20671 Corsair Boulevard  
Hayward, CA 94545  
(415) 785-4800

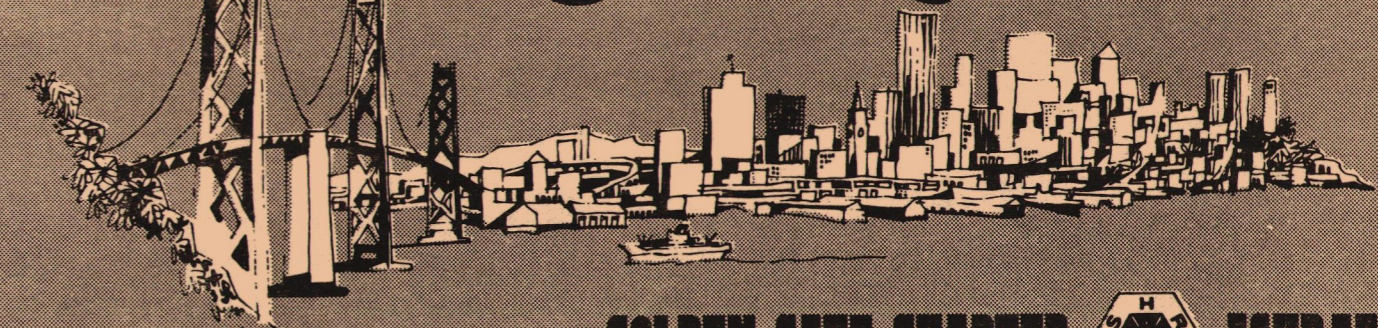
REGIONAL CHAIRMAN

Cy Hanson  
956 Willow Street  
Reno, Nevada 89502  
(702) 329-6455

HEADQUARTERS

1791 Tullie Circle, N.E., Atlanta, GA 30329  
(404) 636-8400

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXVIII No. 6

MARCH 1989

**MEETING NOTICE**

**DATE:** Thurs. March 2, 1989  
**SOCIAL HOUR:** 5:30 P.M.  
**DINNER:** 6:30 P.M.  
**LOCATION:** ENGINEERS CLUB  
160 Sansome Street  
San Francisco, CA

**NOTE:** We must receive your reservation card no later than Tuesday Feb. 28th. We cannot guarantee your meal without a reservation. If your plans change, please call the Engineers Club at 421-3184 or Gino Colacchia at Allen Heating & Sheet Metal at 924-2425 no later than noon of the meeting date. Our Chapter must pay if you don't show up for dinner, so please call!

**MARCH PROGRAM**

DICK CHARLES, P.E. of CHARLES & BRAUN, will present a review of the ChloroFluoro-Carbon (CFC) Ozone problem, and discuss the impact on our industry and the world.



**PRIME AIR, INC.**

Your "PRIME" Contact for HVAC Equipment

700 So. Claremont St • Suite 111  
San Mateo, CA 94402



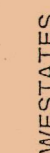
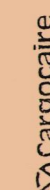
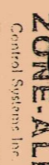
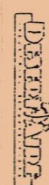
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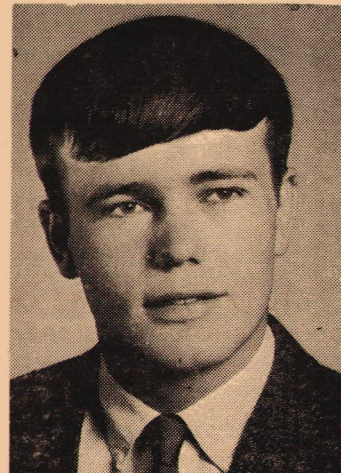
REPRESENTED BY:

Wilfred W. Gee, President  
Hank Shastany, Sales Engr.  
Jerry Gogas, Sales Rep.  
Blake Blakely, Sales Engr.  
Sherman Brown, Sales Engr.  
Glen Leggoe, Sales Rep.  
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Tom Lew, Sales Rep.

Timothy E. Provo, Sales Rep.  
Gordon Cerrudo, Sales Rep.  
Stacy D. Francis, Inside Sales  
Colleen Dutra, Accounting  
Gloria Glenn, Accounting  
Sonia Williams, Secretary  
Gina Nibbi, Secretary



**PRESIDENT'S MESSAGE**



The February meeting was a great success with Student Night and Professor Gail Schiller did an excellent presentation. Gail's activities have been instrumental in activating the Student Chapter. Thanks, Gail.

The continued work of Dan Reiter, Scholarship Chairman and Gary Harbison, Education Chairman, will reap fruit when we award our first scholarship this June. Keep your eyes and ears open for their progress.

Tom McKewan did a fantastic job as Chairman of the Title 24 Seminar! All proceeds go to ASHRAE Research.

Eric Tingloff is doing a bang up job as Chairman of Reception. All of our members have been very generous with gifts this year, to help Eric.

Hard working Steve Taylor is our new San Francisco Code Committee Chairman. With all of Steve's other responsibilities, we are delighted to have him assume this important position.

Steve Guttman and Maggie Selic Co-Chair this year's Technical Seminar which is in full swing. It is scheduled for April 19th at the PG&E Auditorium. This year's topic is Refrigeration. To help reduce costs, the seminar committee is asking for donations. Please help Ben Sun with a donation if he calls.

Jim Taylor, Past President, gave the 1989 - 1990 Roster to the printers this week. Thanks, Jim, for graciously volunteering for this difficult job.

ASHRAE Research Chairman Bob Hooker is shifting into high gear to head up our annual drive. Regional director Tom Gilbertson and Marie Hoch will be assisting Bob. Let's make this year's drive the best ever.

We all wish Bob Justus a quick recovery from his recent illness.

CRC this year is in Las Vegas and scheduled for May 4,5, and 6th

**My thanks to all members for all your efforts.**

**Sherman Brown, President**

**STANFORD UNIVERSITY TOUR**

The San Jose Chapter of the American Society of Plumbing Engineers (ASPE) is hosting a tour of the mechanical systems of the Center for Molecular and Genetic Medicine, at Stanford University. This is a newly completed, \$172 million dollar laboratory facility. The tour takes place on Thursday, March 23, at 6:00 P.M. For more information, contact Dennis Leung at (415) 723-3792.

**FOG DISPENSER ADVERTISING & RATES**

It costs only \$25 to place an ad in the Fog Dispenser. To place an ad, just mail or fax your typed copy to:

Marie Hoch  
Air Filter Sales & Service  
20671 Corsair Blvd.  
Hayward, CA 94545  
FAX # (415) 785-4804  
Phone: (415) 785-4800

Please mail your checks to Marie Hoch at the above address or send them to Barbara Dilts. The deadline for the April Fog Dispenser is March 22nd.

**NEW AFFILIATIONS**

Carl H. Jordan has announced the opening of his new practice as a Consulting Mechanical Engineer at 646 Colusa Avenue, Berkeley, CA 94707, phone (415) 524-9071. He will provide consultation to building owners, architects, contractors and other consulting engineers.

**EMPLOYMENT OPPORTUNITIES**

**POSITION SOUGHT**

Experienced Inside/Outside HVAC salesman. Desires inside position in the S.F. area. Joel Frey (415) 387-9970

**MECHANICAL AND ELECTRICAL ENGINEERS**

Progressive Consulting Engineering Firm in San Francisco is seeking mechanical and electrical engineers with a strong background in energy efficiency. Work includes field investigations of all types of facilities, identification and analysis of energy saving projects, conceptual design, and report preparation. Five years experience and professional registration preferred. Excellent benefits and working environment. Send resumes to PO Box 3413, San Francisco, CA 94119. EOE.

**SALES/PROJECT ENGINEER**

A leading East Bay Design/Build Service Contractor is looking for an experienced sales engineer with a proven track record. Engineering degree desirable. Salary, bonus, car, benefits.

Send resume: Linford Comapny, P.O. Box 449, Oakland, CA 94604  
Attn: Sales Manager

KNOW A PROSPECTIVE NEW MEMBER?  
Contact Membership Chairman:  
Dan Vasquez - 408/288-9551  
Mail or Phone News to:  
Marie Hoch, Editor  
FOG DISPENSER  
Air Filter Sales & Service  
20671 Corsair Boulevard  
Hayward, CA 94545  
(415) 785-4800  
FAX (415) 785-4804

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Tom Reinarts.....Secretary  
Barbara Dilts.....Treasurer  
BOARD OF GOVERNORS  
Frances Crisp Steve Taylor  
Dart Rinefort

(February Minutes Continued)

9. The meeting adjourned at 9 p.m.

THOMAS M. REINARTS  
Secretary

### FEBRUARY RAFFLE DONATIONS

February Meeting Raffle Prizes were donated by the following companies:

- \* Glumac And Associates
- \* Ted Jacobs Engineering Group
- \* Air Treatment Equip. Corp.

These prizes generated \$83 worth of raffle ticket sales at this meeting.

Thank you,

ERIC TINGLOF  
RAFFLE CHAIRMAN

### ADVERTISEMENT

#### ABB PARAMETRICS FACTORY TRAINING SESSIONS IN BAY AREA FOR VARIABLE SPEED DRIVES

Troubleshooting- March 8&9-\$150  
HVAC Applications- March 10,AM  
only- \$50

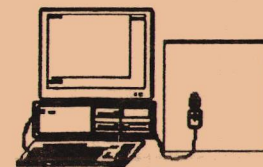
Location: Embassy Suites Hotel,  
Burlingame

Troubleshooting class: Recommended for start-up technicians, facility maintenance staff, mechanics, service personnel, and individuals desiring specific knowledge of how PWM drives operate.

HVAC Applications: Recommended for engineers, design build contractors, service sales engineers, control systems sales engineers, and facilities engineers.

Please call DAVID H. EISENBERG at (415) 655-3990 for more information.

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**E** Bay Area Engineering Societies  
**S** Committee for Manpower Training, Inc  
**C** 832 Mission Street, 3rd Floor,  
**M** San Francisco, CA. 94103  
**T** Phone: (415)543-3383

MINUTES OF THE FEBRUARY MEETING

FEBRUARY 2, 1989

ATTENDANCE: 86 MEMBERS, 15 GUESTS

1. The February General Chapter meeting was called to order by President Brown at 7:25 p.m.

2. The Minutes of the January meeting were reviewed and approved with one correction. In Item 4e the spelling of Tom Higashioka was corrected. Self introductions followed.

3. The following announcements were made:

a. Tom McKewan was congratulated for organizing a very successful Title 24 Seminar.

b. Dan Reiter reported on the Scholarship Committee activities. A request for contributions was given to each member present. A \$500 Scholarship will be awarded in 1989.

c. Frank Mayhew reported on the Cal Poly Endowment for A/C education. SMACNA has pledged \$100,000 over a five-year period. Frank also reported on the schedule for his controls class and a new organization for Cal Poly A/C graduates.

d. Tom White reported the following:

\* Dick Charles has been nominated for a second term as a Society V. P.

\* The National Convention held in San Francisco in 1986 still holds the record for most registered attendees.

e. Steve Taylor has volunteered to serve as the San Francisco Code Committee Chairman. Thanks, Steve.

f. The first meeting of the U.C. Berkeley Student Chapter will be held on Thursday, February 9 at LaVal's Pizza Parlor, Berkeley. For information, call Gary Harbison.

4. The Engineers' Club is becoming more and more strict with the requirements to confirm the number of attendees at the

meetings. Gino Colacchia requested the support of all members in getting reservations in. Calling the Engineers' Club on the day of the meeting is all right.

5. The annual Golden Gate Chapter Seminar will be held on Wednesday, April 19. Steve Guttman reported that the planning is well under way and an outstanding slate of presenters is lined up. The seminar will deal with all areas of refrigeration systems.

6. President Brown announced the passing of Clyde Wilson-Reid, Sam Yamoto and Robert Tuck. A few moments of silence were observed in their honor.

7. Eric Tinglof conducted the monthly raffle. The proceeds of the raffle go to the Chapter Scholarship Fund.

8. Gino Colacchia introduced our speaker, Gail Schiller, Ph.D. Gail is an Assistant Professor, Building Science Department of Architecture, U.C. Berkeley. She is also an active member of ASHRAE. Gail's topic for her presentation was, "a look at thermal comfort in ten San Francisco Bay Area office buildings."

UCB is very active in the study of thermal comfort in buildings both in theoretical and practical aspects. The projects, methods and results of one of the on-going programs were discussed. The ten buildings studied were in two climate zones--coastal and inland.

It was found that the two aspects most often complained about in an office environment are temperature and air circulation. The study has demonstrated that it is very difficult, if not impossible, to satisfy all people. There are variables such as amount of clothing worn, etc. that cannot be controlled. The level of satisfaction with the office environment is less than most authorities thought. A lively question-and-answer period followed Gail's very interesting, informative presentation.

EMPLOYMENT OPPORTUNITY

TECHNOLOGY ASSESSMENT ENGINEER

DeLima Associates, a consulting firm located in the San Francisco Bay Area is seeking experienced Engineers for its Technology Assessment Division. These positions involve the evaluation of advanced HVAC technologies such as dual fuel heat pumps, ice storage systems and desiccant cooling systems under various utility rate scenarios. DeLima Associates currently uses the DOE-2 Hourly Building Load Analysis Program and several proprietary equipment analysis programs on IBM compatible microcomputers and Macintosh computers. Candidates must have at least a Bachelors degree in engineering (Advanced degree preferred,) and a minimum of 2 years experience in an A/E firm with a working knowledge of the design and cost estimation of mechanical systems in commercial buildings. Cogenerator and ice storage design experience is preferred. The candidate must have prepared feasibility studies and have excellent data gathering and excellent written and verbal communication skills. Full time person is preferred but part time employment will be considered. Send resume and cover letter describing your suitability for this position to: Elizabeth Rockefeller-MacArthur, Position 89-2, DeLima Associates, 4340 Redwood Highway, Suite 222, San Rafael CA 94903

NEW AFFILIATIONS

Anyone wishing to announce a change in employment, address, phone or whatever may do so at no charge by sending their announcement to:

Marie Hoch, Editor  
 Fog Dispenser  
 Air Filter Sales & Service  
 20671 Corsair Boulevard  
 Hayward, CA 94545  
 FAX# 415-785-4804  
 Phone: 415-785-4800



VOLUME XXVIII No. 7

APRIL 1989

MEETING NOTICE

DATE: Thurs. April 6, 1989  
 SOCIAL HOUR: 5:30 P.M.  
 DINNER: 6:30 P.M.  
 LOCATION: ENGINEERS CLUB  
 160 Sansome Street  
 San Francisco, CA

APRIL PROGRAM

JIM PARSANO, with the CARRIER CORP. will present an overview of the new A.R.I. STANDARDS.

NOTE: Reservations will be accepted by phone up to NOON Wednesday, April 5th. Please call the Engineers Club directly for all phone reservations, 415-421-3184. We must now guarantee our dinner reservations 48 hours prior to our meeting. Thank you.

KNOW A PROSPECTIVE NEW MEMBER?

Contact Membership Chairman:  
 Dan Vasquez - 408/288-9551

Mail or Phone News to:  
 Marie Hoch, Editor  
 FOG DISPENSER  
 Air Filter Sales & Service  
 20671 Corsair Boulevard  
 Hayward, CA 94545  
 (415) 785-4800  
 FAX (415) 785-4804

COPY DEADLINE

Meeting Date	Copy Deadline
April 6, 1989	March 22, 1989
May 4, 1989	April 19, 1989
June 1, 1989	May 17, 1989

Published Monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107—Phone 495-4552 1988-1989 OFFICERS

Sherman Brown.....President  
 Gino Colacchia....President-Elect  
 Tom Reinarts.....Secretary  
 Barbara Dilts.....Treasurer

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 Frances Crisp Steve Taylor  
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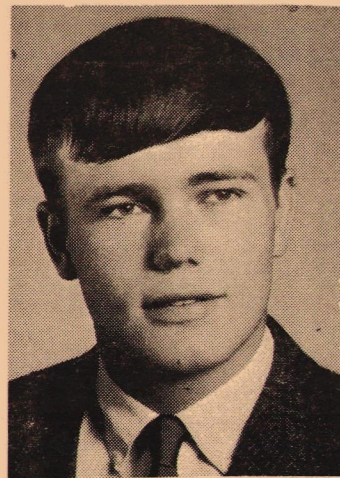


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## PRESIDENT'S MESSAGE



Dick Charles did an excellent presentation on the CFC issue and was able to answer several tough questions from the members. Thanks Dick, for a job well done.

It was a pleasure to see our Regional Director, Cy Hanson at our monthly meeting. Cy has been very active this year and we welcome every opportunity to have him visit our Chapter.

"ASHRAE Research" helps our industry respond to current needs such as Indoor Air Quality, Energy Conservation, and Environmental Protection. It attracts individuals with imagination, vision, and leadership to our membership, giving them an opportunity to participate in improving the quality of life. ASHRAE Research keeps technology on the leading edge for the benefit of humanity.

Individuals and companies whose livelihood comes from the HVAC and Refrigeration industry are asked this time of year to contribute to our local Research drive. Please assist Bob Hooker and his committee when asked for a contribution. An end of the year contribution is an investment in your future. ASHRAE's 100th anniversary is in 1994! Let's all plan to celebrate progress.

Our Golf Chairman, Jim Nemechek, has surveyed most of our local members and there appears to be very limited interest this year. What happened to all our hackers, duffers and slicers? Please let either Jim or myself know if there is an

interest. We will need at least 50 people to break even. Bill Schultz; are you ready to play?

Thanks, members for all your support at the monthly meetings and enjoy the Springtime in the Bay Area.

Sherman Brown, President

430 Last Wagon Drive  
Sedona, Az. 86336  
February 24, 1989

Dear Sherman,

Your recognition of my friend, Clyde Wilson Reid, in the February Fog Dispenser, was my first knowledge of his death. Having known Clyde for 30 years I'd like to add a few comments to your excellent column.

Clyde was a marvelous sales engineer. He had intimate knowledge of his product, and always provided prompt, reliable and friendly service to us as consulting engineers.

Clyde's Australian accent and his sense of humor were among his many attributes and charm. His humor made professional contact a pleasure rather than a mere job. Socially he was the life of the party.

For many years Clyde and I golfed together on a semi-monthly basis, and this escape from the job stresses, plus the camaraderie were one of the pleasures of those years. He was one of the best friends and colleagues I have ever had. He will be sorely missed.

Sincerely,

*Gus Gendler (MH)*

Gus Gendler  
Past President - 1965-66  
Sedona, Arizona

## MAY FIELD TRIP TO GENENTECH

Next month's meeting will be a field trip to Genentech Laboratories in South San Francisco. We will have dinner at a local restaurant after the trip. We are planning to van pool from Oakland and San Francisco. The May issue of the Fog Dispenser will include additional information. Contact Steve Taylor or Gino Colacchia for more information, or to help. They will coordinate the field trip.

## MARCH RAFFLE

March Ticket Sales brought in an additional \$95 for the scholarship fund, bringing the '88-'89 total to \$542 thus far. Special thanks to the following companies who donated prizes:

- \* GAYNER ENGINEERS
- \* GUTTMAN & MACRITCHIE
- \* TK & ASSOCIATES

Keep buying those tickets! By the way, your fly is open. April Fools.

Eric Tinglof

## TREASURER'S REPORT

You've heard about the excellent Title 24 Seminar that Tom McKewan and his committee presented. In addition, the Seminar provided over \$1300 to our Chapter treasury. Thanks again, for a great job.

## CARL JORDAN WINS AWARD

Congratulations to Carl Jordan on winning second place in the 1989 Energy Awards in Category 1: New Commercial, Institutional or Public Assembly Buildings for his design of the system at the Pacific Bell Administrative Complex in San Ramon. He accepted the award at the winter meeting in Chicago.

**IN MEMORIA**

Dan Vandament, Consulting Engineer, passed away on February 27, 1989 in Eugene, OR. Dan was a life member and will be missed by all.

Chuck Tarnoff, longtime ASHRAE member, died unexpectedly on February 20, 1989. He is survived by his wife Jean and four children, Steve, Jeff, Nancy and Don.

Chuck arrived in the bay area from Chicago in 1970. He founded Allied Air Products and was an outstanding vendor in his area. He worked on some of the largest projects in the city and was consistently a sales leader.

Personally, he was well liked and respected by all. He was recently retired and in good health.

MINUTES OF THE MARCH MEETING

MARCH 2, 1989

ATTENDANCE: 93

1. The March General Chapter meeting was called to order by President Sherman Brown at 7:20 p.m.

2. Minutes of the February meeting were reviewed and approved as written. Self-introductions were made.

3. President Brown announced that he would appoint a Nominating Committee to be introduced at the next meeting.

4. Dan Rieter reported that a \$500 Scholarship will be awarded to a college student and requested donations.

5. Gino Colacchia reports that the Engineers' Club has apologized for the poor quality of the meal at our last meeting.

6. A few moments of silence were observed in memory of the late Chuck Tarnoff and Dan Vandemant.

7. Cy Hanson, Regional Vice President, brought greetings from the Society and stressed the international nature of the organization.

- Fourteen chapters in Region 10.
- Riverside - New Chapter - December, 1988.
- Dick Charles renominated for Vice President-at-Large.

8. Sherman Brown announced the CRC Meeting in Las Vegas scheduled for May 4 - 6. Handouts were passed around to the membership.

9. Eric Tingloff conducted the monthly raffle.

10. Don Bryant distributed certificates of completion to students that finished extension courses.

11. Gino introduced the speaker for our meeting, Richard Charles, P.E., of Charles & Braun. The topic was "Indoor Air Quality and CFC Ozone Layer Depletion." A slide presentation was made

emphasizing the technical challenge we face. This presentation was prepared by Society Headquarters and widely distributed. Dick discussed a pact, the Montreal Protocol, entered into by the U.S., Canada and 30 other countries to tackle this problem.

12. Questions on the ASHRAE presentation followed.

a. CFC's are not hazardous to people; however, they are to the environment.

b. Discussed hearing with the Congressional Committee in which ASHRAE participated.

c. There are 30 new bills in the State of California dealing with the use and handling of various CFC's.

13. A lively Q&A session followed.

14. The meeting was adjourned at 9:10 p.m.

Respectfully submitted,

THOMAS M. REINARTS  
Secretary

ASHRAE GOLDEN GATE CHAPTER FIELD TRIP

Subject: A Design-Build HVAC System for Genentech Buena Vista Laboratory

Address: Buena Vista Business Center  
1400 Grandview Drive  
South San Francisco, CA

Time & Date: 6:30 pm - 7:30 pm, Thursday, May 4, 1989

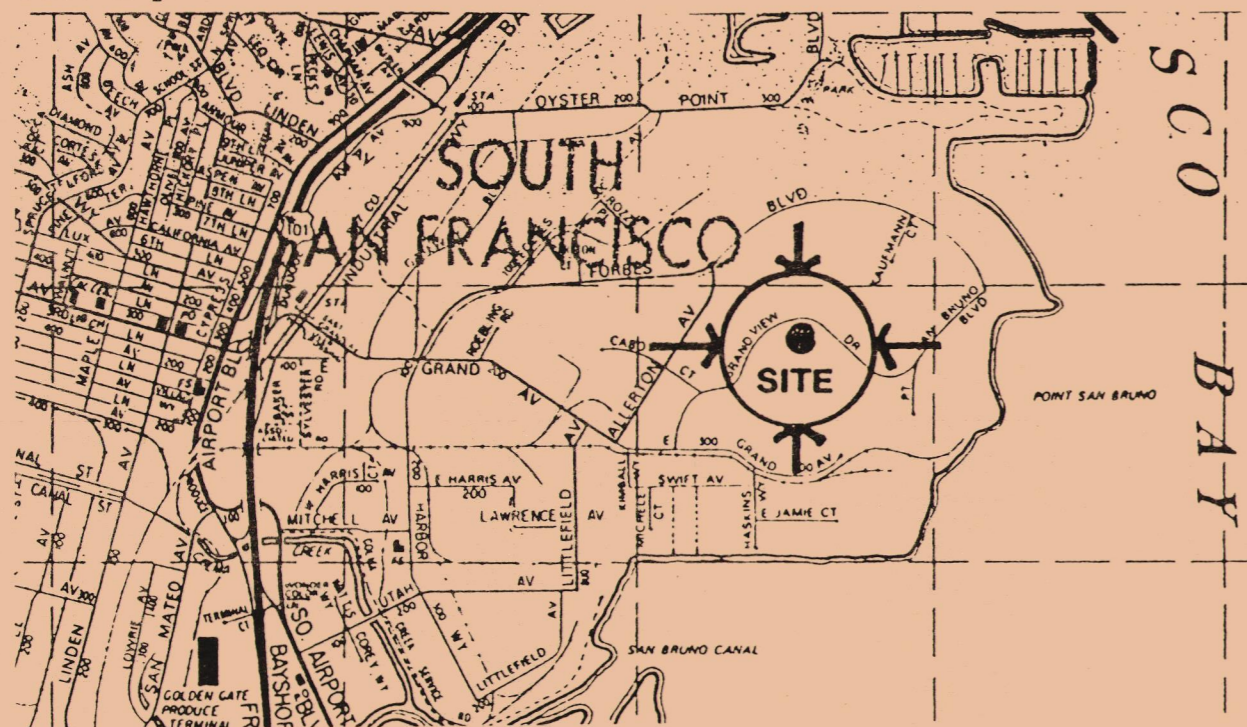
Transportation: Carpools leave from the following two locations:  
1) Emeryville Holiday Inn parking lot at 5:30 pm.  
2) Engineer's Club Lobby at 6:00 pm.

Or, take your own transportation and arrive at jobsite by 6:30 pm.

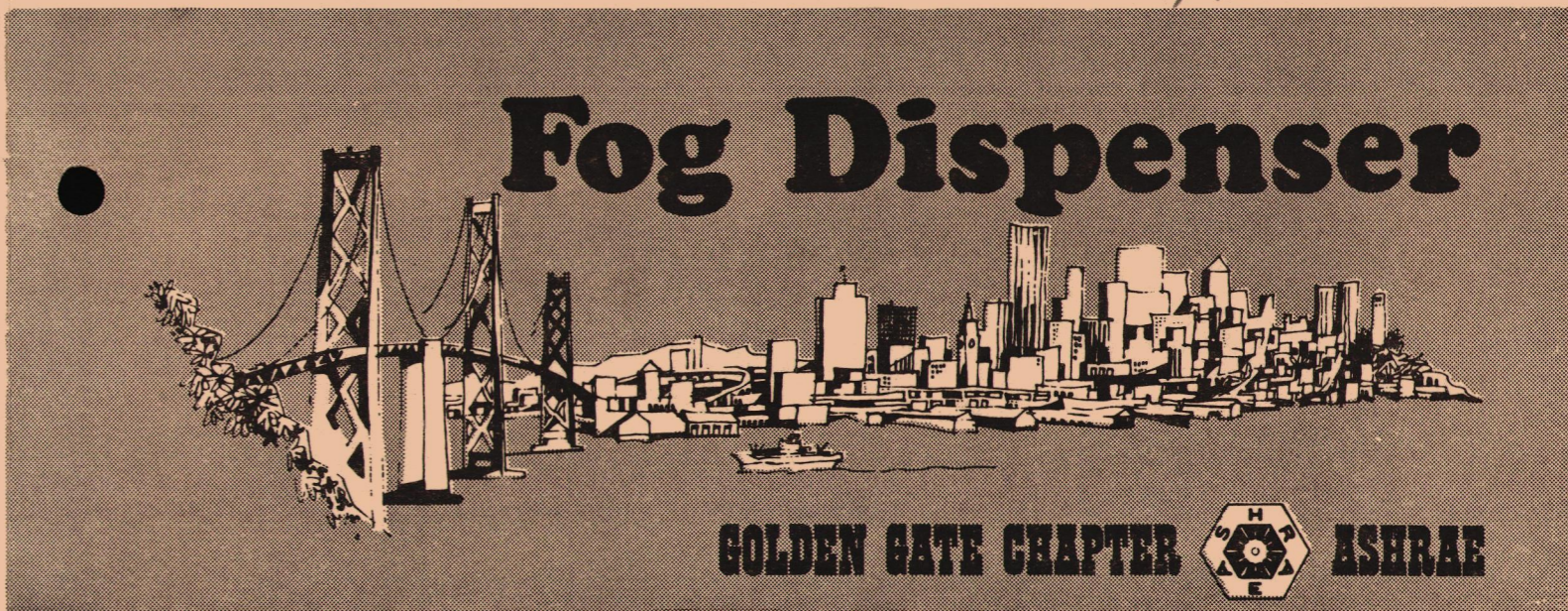
Dinner: Basque Cultural Center  
599 Railroad Avenue  
South San Francisco, CA  
(8:00 pm - 10:00 pm, open menu)

RSVP (by 5/2/89): Chip Eskildsen, Linford Engineering (834-2430), for confirmation of attendance on field trip and for desire to join a car pool.  
Jerry Yaffee, Tempco Equipment Co. (467-8680), for confirmation of dinner reservations.

Site Map:



FILE -



VOLUME XXVIII No. 8

MAY 1989

MEETING NOTICE

MAY PROGRAM

DATE: Thursday May 4, 1989  
TOUR: 6:30 P.M.  
LOCATION: Genentech Laboratories  
South San Francisco, CA  
DINNER: 8:00 P.M.  
LOCATION: South San Francisco, CA

The tour of Genentech's Buena Vista Laboratory includes:

- \* Mechanical catwalk for access to constant and variable volume boxes
- \* Custom Penthouse Rooftop unit installed on ground level, complete with evaporative condenser section with screw compressors
- \* Constant volume lab zones and variable volume office zones served by a single air handler

RESERVATIONS NEEDED BY MAY 2ND,

TOUR: Chip Eskildsen, Linford Engineering, 834-2430

DINNER: Jerry Yaffee, Tempco Equipment Co., 467-8680

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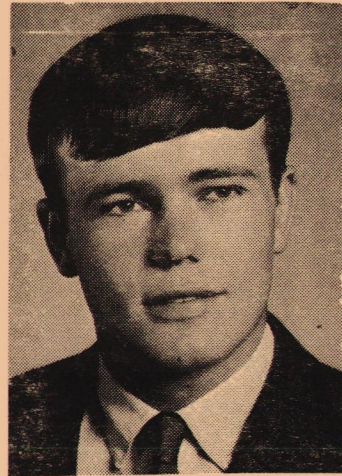
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| ANGELO DOMINGUEZ | JOHN CHIANG    | FRED E. JACOB     | FRED TRANT   |
| IRENEO TABASA    | SAM JACOB      | OLIVER PANGILINAN | MARC MALLARY |
| THUAN DONG       | LILY CHIU      | CHRISTINE HERRAN  | JOAN MCEVOY  |

**PRESIDENT'S MESSAGE**



Special Note: After the field trip we will review the slate of ASHRAE officers for 1989-1990. It is important that member input is received to accept the nominations.

The CRC trip to Las Vegas is on schedule. Tom Reinarts and Gino Colacchia are prepared to represent the Golden Gate Chapter. If any member has something to say at CRC and can't go, please contact Gino or Tom.

Please note the CRC schedule reprinted on this page.

**Sherman Brown, President**

The field trip to Genentech in South San Francisco promises to be very educational. I would like to thank all of you who helped to coordinate this event. Thanks, Gerry Yaffe, for coordinating the dinner at the Basque restaurant.

**ASHRAE REGION X CRC and Advanced Technical Seminar**

Day	Date	Event	Times
Wednesday	May 3	DDC VAV Box Technical Seminar	12:30pm - 5:00pm
Thursday	May 4	DDC VAV Box Technical Seminar	8:30am - 11:30am
Thursday	May 4	CRC Registration	8:00am - 1:00pm
			3:00pm - 6:30pm
Thursday	May 4	Golf Tournament	9:00am - 10:30am
			12:30pm - 2:00pm
Thursday	May 4	Orientation Meeting	5:30pm - 6:30pm
Thursday	May 4	Welcoming Reception	6:30pm - 8:30pm
Friday	May 5	Delegate/Alternate Breakfast I	7:00am - 8:30pm
Friday	May 5	Inner Circle Breakfast I	7:00am - 8:30pm
Friday	May 5	General Session I	8:45am - 12:00noon
Friday	May 5	Gaming Seminar	9:00am - 10:30am
Friday	May 5	Presidents Lunch & Awards	12:00noon - 2:00pm
Friday	May 5	Energy Workshop	2:30pm - 5:30pm
Friday	May 5	Membership Workshop	2:30pm - 5:30pm
Saturday	May 6	Delegate/Alternate Breakfast II	7:00am - 8:30am
Saturday	May 6	Inner Circle Breakfast II	7:00am - 8:30am
Saturday	May 6	Chapter Operations Workshop	8:30am - 11:30am
Saturday	May 6	Refrigeration Workshop	8:30am - 10:30am
		Refrigeration Tour	10:30am - 1:00pm
Saturday	May 6	Education Workshop	8:30am - 11:30am
Saturday	May 6	Inner Circle Breakfast II	12:00noon - 1:15pm
Saturday	May 6	General Session II	1:30pm - 4:30pm

**KNOW A PROSPECTIVE NEW MEMBER?**

Contact Membership Chairman:  
Dan Vasquez - 408/288-9551

Mail or Phone News to:  
Marie Hoch, Editor  
FOG DISPENSER  
Air Filter Sales & Service  
20671 Corsair Boulevard  
Hayward, CA 94545  
(415) 785-4800  
FAX (415) 785-4804

**COPY DEADLINE**

Meeting Date      Copy Deadline

June 1, 1989      May 17, 1989

Published Monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107—Phone 495-4552  
1988-1989 OFFICERS

Sherman Brown.....President  
Gino Colacchia....President-Elect  
Tom Reinarts.....Secretary  
Barbara Dilts.....Treasurer

BOARD OF GOVERNORS  
Frances Crisp                      Steve Taylor  
Dart Rinefort

**APRIL RAFFLE CREDITS**

The following individuals and companies were kind enough to sponsor the April Raffle Prize, a night at the Napa Valley Lodge Resort:

- Dan Vasquez
- Laws & Associates
- Design Engineering Assoc.
- JYA Consulting Engineers
- RMR Associates

Thank you!

by Eric Tinglof

**SCHOLARSHIP/WORKSHOP FUND THANKS**

I would like to thank the following companys and individuals for their donations in this '88-'89 year:

**SCHOLARSHIP FUND:**

JOHNSON-EMERSON ASSOC-RICHARD EMERSON  
YORK INTERNATIONAL- GREG BOYLE  
EUGENE VALERIO  
ALICE MEYER

**WORKSHOP FUND:**

EUGENE VALERIO  
JIM NEMECHEK

I would like to say a special thanks to Alice Meyer for her generous donation in memory of Dan Vandement. I think this is a wonderful way to remember someone. I hope other members may make these kind of respectful donations in the future.

**THANKS**

Dan REITER

**SPOUSAL NITE**

Spousal Nite? Yes, the June meeting has been officially named "Spousal Nite". This is supposed to be a "safe term." The June meeting will feature an awards ceremony.

**NEW AFFILIATIONS**

**Dorel Anghel**, formerly of Guttman & MacRitchie, is now employed by:  
**Ajmani & Associates**  
1700 Ygnacio Valley Road  
Walnut Creek, CA 94598  
Phone: 944-4822 Fax: 944-4905

**Mark M. Hydeman** is now employed by:  
**Glumac & Associates, Inc.**  
275 Battery Street, Suite 220  
San Francisco, CA 94111  
398-7667, Fax 398-0596

**Robert Main, P.E.**, has returned from Los Angeles to join:  
**Larkin & Associates**  
6950 Burnett Street, Suite C  
Sebastopol, CA 95472  
707-823-1010

**Michael Southworth**, of Larkin & Associates, has obtained his Mechanical Engineering License. Congratulations!

**EMPLOYMENT OPPORTUNITY**

HVAC/PLUMBING DESIGNER-DRAFTER  
FULL TIME, SALARY + BENEFITS INCL  
ACEC HEALTH PLAN. CONTACT RICH WELLS  
MONTGOMERY & ROBERTS (415) 232-1541  
EL CERRITO

**ENERGY MANAGEMENT CONTROL SYSTEMS**

Two British Columbia ASHRAE Chapters are co-sponsoring a HIGH PERFORMANCE ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) USER GROUP MEETING on June 29 1989 in Vancouver, B.C., immediately following the ASHRAE Society Meeting For a copy of their flyer and the meeting agenda, contact Marie Hoch at Air Filter Sales (415) 785-4800.

## ASHRAE RESEARCH NEEDS YOUR HELP

Every year Golden Gate Chapter helps Society raise money for research. This year we were able to hear directly about some of the research being funded. Dr. Gail Schiller discussed the research she and her group at Lawrence Berkeley Labs are doing on determining the components of building comfort. Those of you who could come to the meeting know it was one of the more interesting programs of the year.

Also, every year you receive a letter from the Chapter Research Committee asking for a contribution to ASHRAE Research.

THIS IS IT!

Please help your Chapter and our Society with a donation to ASHRAE Research.

Make checks payable to Golden Gate Chapter ASHRAE Research

Mail them to: Golden Gate Chapter ASHRAE  
370 Brannan Street  
San Francisco, CA 94107

DON'T DELAY! SEND IN YOUR CONTRIBUTION NOW!

Then, please pass copies of this flyer on to the folk in your organization who may wish to make a corporate donation.

As you can tell, we're running late this year and need to act rather quickly. Some of you have already sent in donations or included them with your dues last fall. Thanks very much for your generosity.

THE RESEARCH COMMITTEE

MINUTES OF THE APRIL MEETING

1. The April General Chapter meeting was called to order by President Sherman Brown.

2. Minutes of the March meeting were reviewed and approved as written. Self-introductions were made.

3. The Nominating Committee appointed by President Brown is as follows:

Carl Jordan	Dart Rinefort
Jim Nemechek	Bob Voelz
Dave Rifkin	

4. Gail Schiller discussed the new U.C. Berkeley Student Chapter and thanked ASHRAE members for their support. Active programs are planned for the future.

5. Tom McKewan of the Energy & Technical Affairs Committee reported on the City of San Francisco's Energy Conservation ordinance. An upgrade is required when \$50,000 or more is being spent. A certified inspector must investigate and submit a report. Effective date is July 2, 1989.

6. Frank Mayhew reported that response to the Cal Poly pledge forms included in the FOG DISPENSER was disappointing and stressed that we must get behind the program. Current pledges amount to \$15,000.

7. President Brown has information packets for the CRC to be held in Las Vegas. Anyone wanting this information should contact Sherman.

8. ASHRAE Research needs a Chairman; all interested parties should contact Sherman Brown.

9. Tom White reported that ASHRAE will celebrate its 100th Birthday in 1994. The Society meeting will be held in Orlando, Florida. Tom suggested that the chapter convey a message to CRC that the \$92,000 budget for a party seems somewhat extravagant and should be re-evaluated. Tom also recommended that we request that ASHRAE Society publish its Board Meeting notes.

10. Gino reported on CRC and requested that anyone wanting to make a motion should submit it to Gino or Tom Reinarts.

11. Our May meeting will be a field trip to Genentech Labs in South San Francisco. Van pools are available from the Holiday Inn, Emeryville; and the Engineers' Club.

12. Steve Guttman reported on the upcoming seminar on Wednesday, April 19.

13. The monthly raffle was conducted.

14. James Parsnow, Product Manager, with United Technologies was our speaker. ARI 550-88, the testing standard for centrifugal and screw chillers, was discussed as well as the evolution of the Standard as it went through several revisions. ASHRAE will issue a directory listing manufacturers' chillers that comply with the Standard.

Questions and answers followed.

15. The meeting was adjourned.

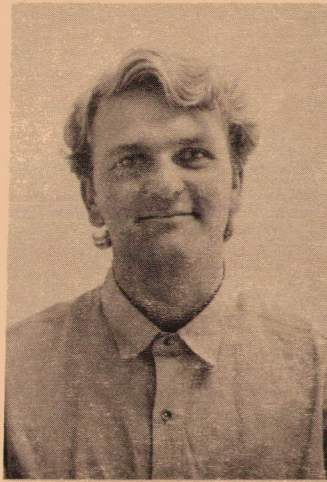
Respectfully  
Submitted,

THOMAS M. REINARTS  
Secretary

April 6, 1989  
Attendance: 69

**COMMITTEE CHAIRPERSONS**

We need volunteers for our Chapter Committees. Please contact Gino Colacchia if you are able to support the Chairperson or Chair a Committee. We would like to confirm all Committee Chairpersons by June 15th.

**FINALLY.....**

Yes, finally we are going to present the first GOLDEN GATE SCHOLARSHIP at this June meeting. There were four applicants from U.C. Berkeley and one from S.F. State. The choice was difficult because all fo the applicants were well qualified, but one student was selected as the best. This student is Marc Fountain (pictured above), a graduate student at U.C. Berkeley, President of the ASHRAE Student Chapter at U.C. Berkeley and Research Assistant on the Field Measurements of Existing Thermal Environments in Office Buildings project for ASHRAE. Congratulations Marc!

Thanks to the applicants for their efforts. Thanks to Gail Schiller and Ahmad Ganji for their help in getting the students involved. Thanks to Carl Jordan, Gary Harbinson, Don Bryant, and Dart Rinefort for serving on the selection committee. Thanks to all members and companies that made donations to the fund. All of these people made this GOLDEN GATE CHAPTER SCHOLARSHIP possible. Thank

you.

Again, congratualtions Marc!

Dan Reiter  
Scholarship Committ

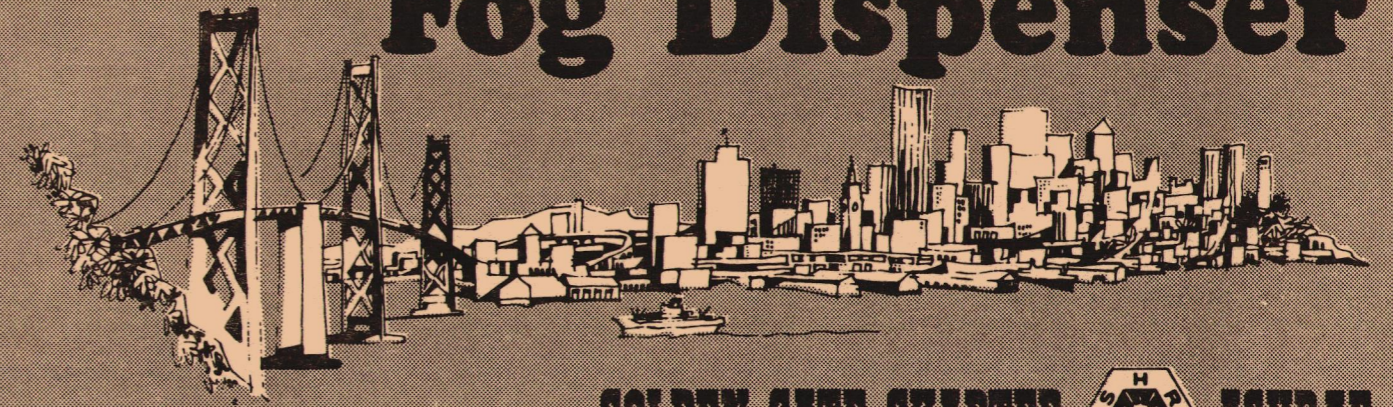
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SALARY: Open  
HVAC/Sheet Metal Contractor  
Specializing in hospitals, office buildings, schools. Mechanical engineering, drafting and estimating skills required. Computer knowledge a plus.

Send resume to:

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P.O. BOX 882282  
SAN FRANCISCO, CA 94188

# Fog Dispenser



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XXVIII No. 9

JUNE 1989

**MEETING NOTICE**

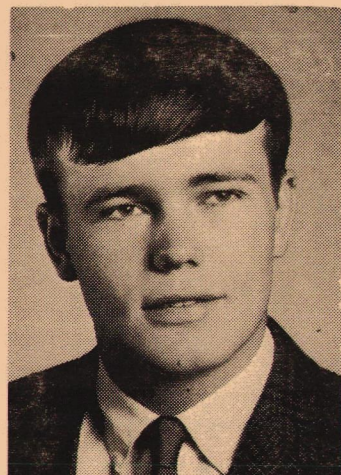
DATE: THURS. JUNE 1, 1989  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 Sansome Street  
San Francisco, CA

**JUNE PROGRAM**

AWARDS CEREMONY AND INSTALLATION OF OFFICERS. INVITE YOUR SPECIAL GUEST. WE WILL ENJOY THE FELLOWSHIP OF ONE ANOTHER. PLAN TO ARRIVE EARLY.

NOTE: Reservations will be accepted by phone up to **NOON Wednesday**, May 31. Please call the Engineers Club directly for all phone reservations, 415-421-3184. Give your name and guests name for phone or card reservations.

PRESIDENT'S MESSAGE



One of my most memorable events this year was to see the progress of our Scholarship program. A scholarship will be announced by the committee at the June meeting.

We had a successful CRC meeting in Las Vegas this past month. Gino Colacchia gave the board a full report at our May 9th meeting. Please see Gino if you require additional details. Also, Tom Reinarts attended the meeting and is available for information.

Congratulations to Rich Leao on being elected to the ASHRAE Golden Gate Board. Rich will bring some excellent leadership skills to our local chapter.

The Technical Seminar in April was a huge success and the financial results are now in. Thank you, Steve Guttman and Maggie Selig, for a job well done. From all indications this year's seminar was the best ever.

All Committee Chairpeople are encouraged to submit a report on this year's activities and progress. The report will assist Gino and his Committee people for the 1989-90 Chapter year. Please call me if you have questions.

Thanks again for a memorable year and the rewards of serving as your president.

Sherman Brown, President

The June meeting will conclude this year's general meetings. It has been a pleasure serving all of you and adding a little humor to the meeting podium.

We will be having Spouse's Nite in June and all of you are encouraged to bring your spouse.

Special awards will be handed out to 'key' committee chairpeople and certificates of appreciation for special efforts. Again, I would like to thank all of you Committee chairpeople for the excellent support you gave me to make my job easier.

During Dart Rinefort's Presidency, our chapter was awarded a Presidential Award of Excellence which will be recognized at the June meeting. Also, Dart still has a few temperature data books available to anyone interested.

I ask for all members to contribute to ASHRAE Research. Contributions can be forwarded to our Treasurer, Barbara Dilts. All monies are used for research to help advance our Society. Thank you for your help.

MINUTES OF THE MAY MEETING

MAY 4, 1989

1. The May General Chapter Meeting was called to order by President Sherman Brown.

2. The meeting program was a field trip to the new laboratory facility at Genentech in South San Francisco.

3. President Brown presented the report of the Chapter Nominating Committee. The nominations are as follows:

- President-Elect . . . Thomas M. Reinarts
Secretary . . . . . Barbara S. Dilts
Treasurer . . . . . Frances N. Crisp
Board of Governors. . Richard F. Leao

4. Our current President-Elect, Gino Colacchia, will automatically become President. President Brown will serve as Past-President and member of the Board of Governors. Steve Taylor will serve the second year of his two-year term on the Board of Governors.

5. President Brown opened the meeting for additional nominations from the floor. There being no further nominations, it was moved, seconded and passed that nominations be closed. A ballot will be mailed to each member qualified to vote.

6. The meeting was adjourned at 9:20 p.m.

Respectfully submitted,

Thomas M. Reinarts
Secretary

KNOW A PROSPECTIVE NEW MEMBER?
Contact Membership Chairman:
Dan Vasquez - 408/288-9551
Mail or Phone News to:
Marie Hoch, Editor
FOG DISPENSER
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FAX (415) 785-4804

Published Monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107—Phone 495-4552
1988-1989 OFFICERS
Sherman Brown.....President
Gino Colacchia....President-Elect
Tom Reinarts.....Secretary
Barbara Dilts.....Treasurer
BOARD OF GOVERNORS
Frances Crisp Steve Taylor
Dart Rinefort

## PROGRAM INFORMATION

The November meeting was a great success. The 118 in attendance is the largest number we've had at a meeting in a long time. That's the good news! The bad news is that by Tuesday noon when we had to make a guaranteed commitment to the Engineers' Club, we had 90 reservations. We had 27 late reservations, 17 "no-shows" and 18 members that showed up without reservations. I have to take my hat off to the club for accommodating everyone. Hopefully, you all enjoyed the meal and the dessert. We do not want to discourage anyone from coming to the meetings; however, your cooperation is essential. Our goal for December is 130 members and guests. Please keep us advised regarding your plans as they develop or change.

## IN RECOGNITION OF BOB JUSTUS

On November 10, Bob Justus died of heart failure. For those of you who did not have the pleasure to know him, Bob printed and mailed this Fog Dispenser, and handled other important Chapter business for over twenty years. His company, Duplicating Associates, answers our phone and receives our mail.

Bob was an incredibly hard working and caring individual. He was dedicated to his business and to providing service to many groups including Lighthouse for the Blind, Food First, American Cancer Society, Alanon, etc.

In June of 1988 our Chapter presented Bob with a special award of appreciation. In the last year, ill health forced him to retire to spend more time with his wife, Suzanne, his children and his grandchildren. Those of us who worked with Bob will remember him fondly.

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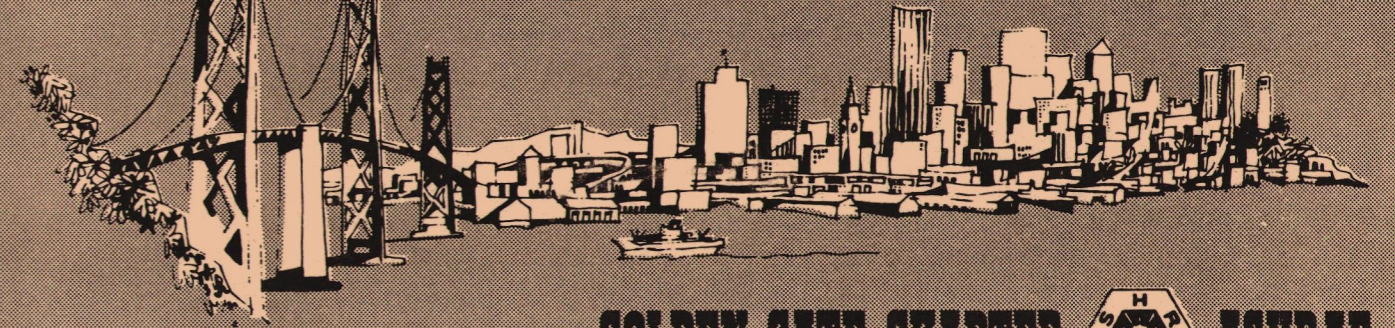
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# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIX No. 3

DECEMBER 1989

## MEETING NOTICE

DATE: Thursday, Dec. 7, 1989  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS' CLUB  
160 Sansome Street  
COST: \$25.00 (includes dessert)  
NOTE: PLEASE phone or fax your dinner reservation to Keller & Gannon by NOON ON TUESDAY at the latest. A fax form is enclosed.  
TELEPHONE: 621-1199  
FAX: 864-3681

## DECEMBER PROGRAM

December is "Membership Night." Everyone is encouraged to introduce associates to ASHRAE and the Golden Gate Chapter.

The program topic is refrigeration principles in thermal energy storage systems. Our speaker is Dave Knebel, General Manager the Paul Mueller Co. Dave serves on two society technical committees dealing with energy calculations and thermal energy storage. He will address system efficiencies, the various system types and the design considerations that are important to system selection.

## HONOR ROLL

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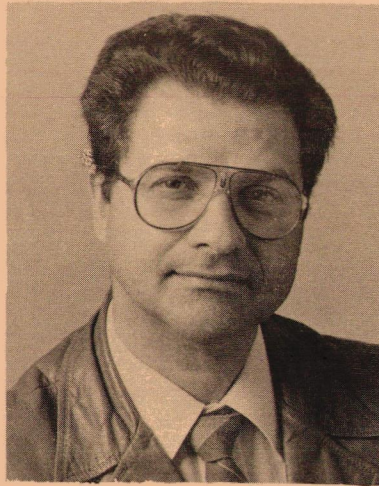
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PRESIDENT'S MESSAGE



Our November meeting was a great success. We had the largest turnout of Cal Poly and U.C., Berkeley students I can remember. A special thank you to the sponsors who made it possible to have all students attend as their guests. Our education chairperson, Gail Schiller, is developing a system to organize sponsors of students' tickets. We would like to have a pool of sponsors so that we can invite students to attend more often.

The December meeting is Membership Night. Our chairman of membership is Eric Tingloff. Eric has requested help with this year's membership drive. Please make yourself available. Our local dues are \$25.00, regular membership, \$10.00 student membership. Bring a new member to the December meeting and become eligible for a special raffle drawing.

We are pleased to announce that Ben Sun has volunteered to be our seminar chairman. The seminar will be held in April. Call Ben and give him your ideas and let him know how you can help. The seminar is one of

our key sources of income to the chapter.

Our board meetings are held on the Tuesday following the chapter meetings. You are invited to give input to any board member. The meetings are held in the offices of Keller and Gannon at 5:30 p.m. Please let me know if you would like to attend.

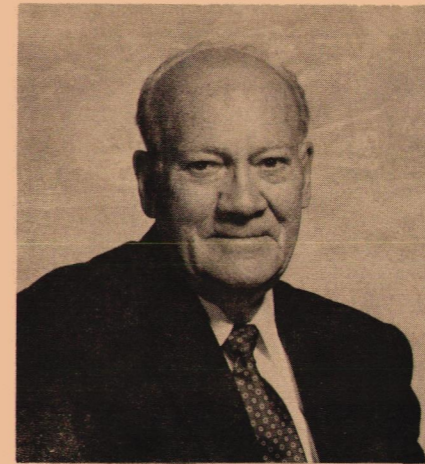
We have printed a draft copy of our proposed by-laws in this Fog Dispenser. The society has requested that we amend our by-laws to be consistent with the society. The by-law committee includes Sherman Brown, Tom White, Bob Voelz, Carl Jordan, Dick Friedman, and Jim Nemechek. Thank you for your hard work and for volunteering your time. All members please review the by-laws. Last year's roster lists our current by-laws for your comparison. We will vote to amend the by-laws during our January meeting.

Remember, December is membership night. Ask a friend to become a member, and invite them to attend our meeting.

Gino Colacchia
President



DON BRYANT HONORED BY UC BERKELEY EXTENSION



Don Bryant Sr., an ASHRAE Fellow and emeritus faculty member of the City College of SF, has received UC Berkeley Extension's Honored Instructor Award for his teaching and curriculum development in continuing education.

Noting the Bryant's "long and dedicated career spans more than 40 years," the award citation stated: "His contributions to the teaching of the science and technology of engineering read like a chronicle of the profession's concerns and growth from the postwar training era through the development of nuclear energy to the age of energy conservation."

Bryant began teaching for UC Extension as an instructor of engineering design in 1946. In the 1950's he taught the first in a series of courses in heating, ventilation, air conditioning and refrigeration developed to meet the needs of the mechanical engineering profession. These courses later formed the basis of Extension's HVAC-R Program, a curriculum that is professionally recognized by a certificate from the Golden Gate Chapter of ASHRAE.

Now 80, Bryant continues to serve as the curriculum coordinator and advisor for Extension's HVAC-R program. He was recently appointed an ASHRAE Scholarship Fund Trustee in recognition of his service to the profession.

The following is a list of students in the HVAC-R program who received Certificates of Accomplishment from our Chapter this past June. This list was provided by Don Bryant.

Michael R. Bangs 10 semester units
3 COM
Facilities Engineer

Surinder S. Brar 8 semester units
ESI Engineering
Mechanical Engineer

John W. Card 12 semester units
YEI Engineering
Mechanical Engineer

Peter C. Govea 10 semester units
City of Palo Alto Utilities Dept.
Commercial/Industrial Program Coord.

Marc J. Mallary 12 semester units
Kaiser Permanente
Draftsman

Barbara Quivey 10 semester units
Laurence Livermore Labs
Mechanical Engineer

Stephen K. Whitcomb 10 semester units
Comm Air
Asst. Chief Stationary Engineer

MEMBERSHIP NIGHT

A reminder that December is membership month. Bring in a new member by the December meeting and you will be eligible for raffle prizes.

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

- Lisa Holmes, JBM Associates
Suzanne Frew, Brown & Caldwell
James Harrington, Tempco Equip. Co.
Art Estorco, Raychem
J. Larry Nelson, Hewlett Packard
Robert Kahn, PG&E
Debra May, Tempco Equip. Co.
Jim Hussey, Bay Point Control
Minh Van Pham, Johnson Controls
Neal Van Fossan, RMR/Flame Air
James MacDonald, R.F. MacDonald Co.

Thanks, Eric Tingloff



KNOW A PROSPECTIVE NEW MEMBER?
Contact Membership Chair:
Eric Tingloff - (415)467-8680
Mail or Phone News to:
Marie Hoch, Editor
Fog Dispenser
c/o Air Filter Sales & Service
20671 Corsair Boulevard
Hayward, CA 94545
(415)785-4800 Telephone
(415)785-4804 FAX

Table with 2 columns: Meeting Date, Copy Deadline. Rows include dates from December 1989 to June 1990.

Published monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107 - Phone: (415)495-4552.
1989-1990 Officers
Gino Colacchia.....President
Thomas Reinarts.....President-Elect
Barbara Dilts.....Secretary
Frances Crisp.....Treasurer
Board of Governors
Steve Taylor Richard Leao
Sherman Brown

MINUTES OF THE NOVEMBER MEETING  
NOVEMBER 2, 1989

1. The November General Chapter meeting was called to order by President Gino Colacchia.
2. Self-introductions were followed by approval of the Minutes of the October meeting. We were joined tonight by 18 students from Cal Poly and U.C. Berkeley.
3. The Bylaws Committee has finished its work. The proposed Chapter Bylaws will be printed in the next Fog Dispenser. The Chapter will vote on them at the January meeting.
4. Many thanks to Jack Kniveton who has agreed to chair the Tennis Committee. Start practicing now! We still need a chair for the Golf Committee. Ben Sun hadn't said yes at the time of the meeting. He has since agreed to chair the Technical Seminar Committee. Call Ben and volunteer to help.
5. The Professional Development Seminar scheduled for Oct. 24-25 will be rescheduled.
6. Frank Mayhew announced that the Faculty Committee at Cal Poly has voted to dissolve the Engineering Technology Dept. This Dept. has made many contributions to our profession. Fax your concerns now to Peter Y. Lee, Dean of the School of Engineering, Cal Poly, San Luis Obispo, 93407, Fax: (805) 756-1279.
7. CRC will be in Hawaii in May. Barbara Dilts has forms for hotel reservations.
8. Membership Chair Eric Tinglof announced that the December meeting is Membership Night. We'll have a raffle open to all who upgrade membership or sign up a new member. Call Eric if you would like to join his committee or if you'd like applications - 467-8680.
9. The Roster is ready to go to press, but Jim Taylor will accept last minute inclusions after the meeting.
10. The Raffle had an Earthquake theme this time.
11. Bob Rogers from Cal Poly thanked the Chapter for hosting the Cal Poly students and commented on the recent changes for the Engineering Technology Department at Cal Poly.
12. Rich Leao was moderator for the panel discussion "Successfully Designing and Constructing a Complex Building." Michael Hearn, an architect with MBT, Associates, emphasized the importance of assembling a good team, including the design engineer, very early.  
  
Rich Paillon, consulting engineer with Guttman & MacRitchie, discussed the three phases for a project: schematic, design development and construction document. He emphasized responsibilities at each phase.  
  
Dick DeBrine of Western Allied Corp. detailed the varied roles a design-build contractor may play. They may handle some projects from the determination of owner needs to final inspection of the building or handle a more limited piece of a project.  
  
Jim Lynn of Marielich Mechanical discussed the role of the contractor. He emphasized that the contractor needs to be part of the team especially on issues such as budget, scheduling and warranties.  
  
The question and answer period was lively and informative.
13. The meeting adjourned at 9:40.

Respectfully submitted,

Barbara S. Dilts



## GOLDEN GATE CHAPTER COMING EVENTS

- NOVEMBER 2 CAL POLY STUDENT NIGHT  
Round Table Discussion -  
Design Builder, Engineer,  
Contractor & Architect
- DECEMBER 7 MEMBERSHIP NIGHT  
"Determining the  
Efficiency of Thermal  
Energy Storage Systems"
- JANUARY 4 "Ten Points of Effective  
Negotiating"
- FEBRUARY 1 RESEARCH PROMOTION NIGHT  
"CADD Applications for  
Engineers & Building  
Owners"
- MARCH 1 Nominations from Chapter  
for Chapter Officers,  
"Codes"
- APRIL 5 LOCAL STUDENT NIGHT,  
Scholarship Award  
Presented, New Chapter  
Officers Announced.  
Topic: open  
16 Motions to be presented  
at CRC due from Chapter  
\* Chapter Technical Seminar  
\* Chapter Golf Tournament
- MAY 3 Chapter Field Trip  
16-18 1990 CRC in Honolulu  
\* Chapter Tennis Tournament
- JUNE 7 Awards Night  
Installation of Officers

\* Date to be determined

## EMPLOYMENT OPPORTUNITIES

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## PROGRAM INFORMATION

The October meeting at the Engineers' Club seemed to go very well. The food was outstanding, the service was good and the attendance was fantastic. After the initial shock of the \$25.00 cost, everyone seemed to enjoy the meeting, the program and the companionship. There was much debate, both public and private, as to the merits of the Engineers' Club verses alternate locations. While the "straw vote" indicated a desire to relocate, that desire was split between the East Bay, South Bay and even some for the North Bay.

Your Board considered all of your input very carefully, along with the logistics of the various alternatives, and has decided that it is in the best interest of the Golden Gate Chapter to follow tradition and stay at the Engineers' Club. We will be working very closely with the club management to ensure quality food and good service.

Faxing reservations worked quite well last month. You should all be congratulated for getting your reservations in promptly. There are still a few people that we need to work on. Please make every effort to get your reservation in no later than noon on the Tuesday before the meeting. Thanks in advance for your cooperation. Call of Fax Keller & Gannon: Fax - 864-3681 Telephone - 621-1199

by Tom Reinarts

## HOW TIMES HAVE CHANGED

On December 7, 1937 (not 1941), the Chapter had a meeting in the Engineering Bldg. at U.C. Berkeley. Dinner was held at Drake's on Bancroft in Berkeley. The dinner with Roast Beef as an entree was 85¢. For a more elaborate meal, one could have a small steak at \$1.00.

By September 21, 1945, ASRE had a meeting at the Engineers Club at 206 Sansome St. (across the street from the present location) at \$1.75 per plate. The program related to refrigeration in the Wine Industry.

On June 12, 1979, we were advised that effective August 1st, meals would be \$9.25 at our present location.

BRING BACK THE GOOD OLD DAYS!  
by Tom White



VOLUME XXIX No. 2

NOVEMBER 1989

## MEETING NOTICE

DATE: Thursday Nov. 2, 1989  
SOCIAL HOUR: 5:30 P.M.  
DINNER: 6:30 P.M.  
LOCATION: ENGINEERS CLUB  
160 Sansome Street  
San Francisco, CA  
COST: \$25.00 (includes dessert)

Note: Please phone or fax your dinner reservation to Tom Reinarts at Keller & Gannon by noon on Tuesday at the latest. A fax form is enclosed for your convenience.

## NOVEMBER PROGRAM

November is Cal Poly student night. The program will be a round table discussion about the various methods of designing and constructing a building. The panel will consist of an architect, a design/build contractor, and a large mechanical contractor and a consulting mechanical engineer. The discussion should be a lively exchange of ideas, opinions and philosophies both new and old. Please plan on attending. Please plan on sponsoring a student at the meeting.

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PRESIDENT'S MESSAGE



Cal Poly is in the process of replacing the retiring Professor, Rod Keif. They have asked that we publish a copy of their flyer advertising the faculty position available. See attached. So, here's your chance to go south, beat the high cost of living, and help train the next generation.

Congratulations to Robert H. Braun, who was elevated to the grade of Fellow. Bob will receive his award at the Society's winter meeting in Atlanta.

Please let the board know of members that should be nominated for Fellow. We have until 12-1-89 to submit nominations. Currently, we are nominating Thomas A. Gilbertson for Fellow.

The By-law Committee includes Sherman Brown as chairman, Bob Voelz, Tom White, Jim Nemechek, Carl Jordan, and Dick Friedman. They will then issue copies to all Golden Gate members for 1989/90 with the December Fog Dispenser. The chapter will vote on acceptance during our January 4, 1990 meeting.

We are in need of a chairperson for the Seminar and for Golf and Tennis Committees. Please volunteer your talents. Thanks to Bob Phillips who will become our Chapter Historian.

Gino Colacchia, President

We covered many important items during our October business meeting. I apologize for the amount of time we used. Your help is requested to minimize the time spent during the business meeting.

Our programs are off to a great start. Tom Reinarts' program on legal issues was very timely. Unfortunately we all face legal liabilities in the industry. Mr. James Castles and Mr. Richard Fike presented excellent advice regarding litigation vs. arbitration.

Please save the chapter calendar published in the Fog Dispenser and invite your guests to attend our meetings. The calendar will allow you to schedule your ASHRAE activities.

Our November meeting will include the students from Cal Poly. We would request you to help sponsor a student dinner. Please let Tom Reinarts know if you can help offset the meal cost.

KNOW A PROSPECTIVE NEW MEMBER? Contact Membership Chair: Eric Tinglof - (415)467-8680

Mail or Phone News to:

Marie Hoch, Editor Fog Dispenser c/o Air Filter Sales & Service 20671 Corsair Boulevard Hayward, CA 94545 (415)785-4800 Telephone (415)785-4804 FAX

Fog Dispenser

COPY DEADLINE

Table with Meeting Date and Copy Deadline columns. Meeting Date: November 2, 1989, December 7, 1989, January 4, 1990, February 1, 1990, March 1, 1990, April 5, 1990, May 3, 1990, June 7, 1990. Copy Deadline: October 13, 1989, November 15, 1989, December 15, 1989, January 15, 1990, February 9, 1990, March 14, 1990, April 13, 1990, May 16, 1990.

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

MINUTES OF THE OCTOBER MEETING October 5, 1989

- 1. The October General Chapter meeting was called to order by President Gino Colacchia. 2. Self-introductions were followed by approval of the Minutes of the June meeting. 3. Outstanding members were recognized: Gail Schiller won the Ralph G. Nevins Award, Marc Fountain won the Homer Addams Award, Carl Jordan has an article in the recent ASHRAE Journal, and Bob Braun will become a Fellow of the Society in January. Congratulations to all of you! 4. The revised Chapter bylaws will be sent out in the November Fog Dispenser for membership approval at the December Chapter meeting. 5. Frank Mayhew announced that the Cal Poly Endowment now has \$11,000 in the bank and \$13,000 in pledges. 6. Jim Taylor will print members' business cards in the Roster in return for donations: \$30 for a single card, \$50 for a half page, \$90 for a full page. Deadline is October 25. 7. The ASHRAE Professional Development Seminar will be held in San Francisco on October 24-25. 8. Tom Reinarts announced the new policy of the Engineers' Club. To get lower prices we would have to leave San Francisco. A lively discussion followed. The Board will decide where the next meeting will be. 9. Gino asked all Committee Chairs to recruit 2 or more committee members. Let's make the work easier for all and involve more in the fun of committee work. Please volunteer! Also, Maggie Selig moved away so we need a chair for the Seminar Committee. 10. Jack Palmer is doing well after a recent operation.

- 11. Steve Taylor announced a hearing on Oct. 17 on the UBC-UMC amendments. If adopted they will be effective 1/1/90. 12. Gail Schiller is looking for volunteers in design, sales, management, and contracting for the "Shadow an Engineer" program. Call Gail or Glen Friedman. 13. Eric Tinglof has membership applications. Give one to a friend. 14. After many years of outstanding service, Tom White is retiring as Chapter Historian. Bob Phillips will take over the task and the many boxes. 15. Raffle prizes were donated by Norman Wright Equipment Co., Heublein Corp., and Prime Air. 16. James P. Castles and Richard D. Fike of Gordon and Rees discussed litigation versus arbitration and alternative dispute resolution. While arbitration is generally quicker and less expensive, appeals are allowed and compromise is common. Litigation allows discovery, is governed by rules of evidence and can be appealed. A wide variety of combinations of litigation and arbitration can be included in contracts. Alternative Disputer Resolution can also be included in the contract. Common forms include: a) minitrials use a neutral advisor to hear positions, present an opinion and facilitate settlements; b) mediation uses a mediator to negotiate settlements; c) in fact finding parties agree to issues, presentation of evidence and appeals. A special master, judge protem or magistrate then conducts proceedings. 17. The meeting adjourned at 9:35-- without dessert.

Respectfully submitted,

Barbara S. Dilts

**U.C. BERKELEY STUDENT CHAPTER:  
General Announcement of Activities**

Professor Gail Schiller reports plans for an active semester. The kick-off meeting is on Oct. 3rd, and Gary Harbison has generously offered to be the featured speaker and to buy pizza and beer for the students afterwards. Gary Harbison will speak about the benefits of being an ASHRAE student member, followed by "The Unwritten Rules of Engineering-How to Succeed in the Workplace". The Chapter will continue to hold meetings with featured speakers once a month, on the Tuesday evening prior to the Golden Gate Chapter meeting. The Student Chapter will also be hosting two tours this semester. The first will be of the Monterey Bay Aquarium, including a behind-the-scenes look at the HVAC system. Although not yet confirmed, this tour is tentatively planned for either Saturday Oct. 7 or 14. We also hope to tour the co-generation plant on campus. For information, or offers to host tours of interest to the ASHRAE Student Chapter, please contact Gail Schiller, at 642-1696.

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Professional Development Seminar (PDS)**

**"Simplified Energy  
Calculations"**

**October 24-25, 1989**

in

**San Francisco**

For a complete program brochure and registration information, contact Robin Campbell at ASHRAE Headquarters (404-636-8400).

**U.C. Berkeley Student Chapter:  
Shadow-an-Engineer Program**

The U.C. Berkeley Student Chapter is starting an exciting new program this semester, the Shadow-an-Engineer Program. This will be a unique opportunity for students, on a one-to-one basis, to learn about the daily activities of engineers in the "real world". Engineers who volunteer for this program will also benefit by experiencing the satisfaction of being a mentor for an afternoon, and in some cases these students may become candidates for future job openings. Each student enrolled in the program will be assigned to an engineer that best matches his or her stated interests. The student will then follow, or "shadow", that engineer for an agreed upon period of time (a couple of hours, half a day, or a full day), and get a first hand view of the daily activities involved with the engineer's job.

The Shadow-an-Engineer Program will be jointly coordinated by Gail Schiller, as academic liaison, and Glenn Friedman, as industry liaison. For general information, or for student enrollment, please contact Gail Schiller at 642-1696. To volunteer as a participating engineer, please contact Glenn Friedman at 234-9322. Volunteers should provide Glenn with the following information: name, telephone number, address, brief job description (e.g., design, sales, management, contractor, etc.), and preferred days of week or times of day.



VOLUME XXIX No. 1

OCTOBER 1989

**Meeting Notice**

**Date:** Thursday Oct. 5, 1989  
**Social Hour:** 5:30 P.M.  
**Dinner:** 6:30 P.M.  
**Location:** Engineers Club  
160 Sansome Street  
San Francisco, CA

**Note:** Reservations must be made by Monday, October 2nd. This is due to changes in policy by the Engineers Club which are explained on the Program Schedule. Please phone or fax your reservation to Keller & Gannon. Their phone # is 621-1199. Their fax # is 864-3681. A fax reservation form is enclosed for your convenience. Thank you!

**October Program**

The program for October will deal with the legal issues that are becoming more commonplace in all our businesses.

Douglas Harvey, with the law firm of Gordon & Rees, will discuss some of these issues. Mr. Harvey was an engineer employed by an A/E firm before entering the legal field. Mr. Harvey's specialty is A/E and contractor litigation.

HONOR ROLL

**KENT M. LIM & COMPANY, INC.**  
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**KENT M. LIM**

**PEGGY FORCELLINI**

**PHIL HARRIS**

**MARTHA KRAFT**

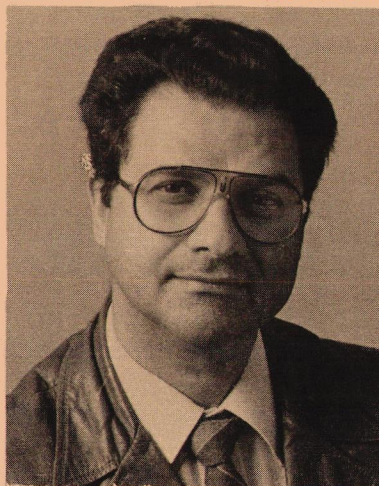
**JIM BROWN**

**SHIRLEY LIM**

1260 Egbert Avenue  
San Francisco, CA 94124

(415) 822-1232  
FAX (415) 822-6437

PRESIDENT'S MESSAGE



Welcome to the Golden Gate Chapter of ASHRAE for the 1989/90 year! Your board has worked throughout the summer months organizing the chapter's activities for the coming year. We have many new volunteers serving as committee chairpeople, as well as seasoned veterans. Together we will serve with you to make this year a success.

We have printed a listing of the committee chairpeople and their board liason. Keep this list handy and share your ideas with the chairperson. We would request that you contact the committee leaders and volunteer your support.

This year we are anticipating 350 Golden Gate Chapter members. The Society has assigned 778 members to the Golden Gate Chapter. This will make our chapter the second largest in Region 10. Last year our average meeting attendance was 92 people. Currently, we have 23 committee chairs and 7 board members making 30 volunteers directly active in leadership roles, however, we need your support

to accomplish our goals.

The By-law Committee set up last year by Sherman Brown, has prepared a draft of our revised by-laws which must be voted upon by our membership. A 2/3 favorable vote is required to adopt any amendments. Our by-laws were last amended on November 2, 1978, and they are now inconsistent with our current society by-laws and require amending. We will mail copies of the draft to our membership in October for review, with voting on the amendments at the November meeting.

Would you believe Tom White is ready to retire?!? Tom has asked for someone to take over his duties as our chapter historian, and has agreed to work with a new volunteer, teaching that person the historical "ropes" and giving his 55 years of ASHRAE expertise. Please take up this challenge at the October meeting.

Donald C. Bryant, Sr., received the "Honored Instructor Award" from U.C., Berkeley Extension, for his 40 years of dedicated service. We are proud to have Don as a Golden Gate member and ASHRAE fellow-member. Congratulations, Don!

We are sorry to announce the death of Dwight A. Coddington, a former ASHRAE member, who passed away on July 21, 1989.

Gino Colacchia, President

PROGRAM INFORMATION

The Program Committee has been working hard to schedule a series of presentations that will appeal to a broad range of members. In addition to technical programs, we have scheduled some speakers and topics that deal with some of the non-technical aspects of our businesses. Hopefully, you will get out to the meetings and take advantage of these programs--encourage your office to come and bring a friend/associate.

We have recently received a letter from the Engineers' Club that outlines its policy for hosting evening dinner meetings; and to say the least, changes are dramatic--very restrictive and costly. The price this year will be \$25.00 per person. In addition, we must commit to a fixed number of reservations 48 hours in advance. There is essentially no flexibility in changing that number. We must pay for the number guaranteed with only an additional 5% of meals over that number available.

We need your support to make this work. Please make your reservation 72 hours in advance by phoning or faxing it in to Keller & Gannon at (phone) 621-1199 or (fax) 864-3681. This is really important.

Needless to say, the alternatives are being examined and will be discussed at the October General Meeting.

COMING EVENTS

DATE	TOPIC
October 5, 1989	"Engineer, Contractor, Product Liability"
November 2, 1989	CAL POLY STUDENT NIGHT, "Determining the Efficiency of Thermal Energy Storage Systems"
December 7, 1989	MEMBERSHIP NIGHT, Panel Discussion: "Design Builder, Engineer, Contractor, Architect"
January 4, 1989	"Ten Points of Effective Negotiating"
February 1, 1990	RESEARCH PROMOTION NIGHT, "CADD Applications for Engineers & Building Owners"
March 1, 1990	"Codes"
April 5, 1990	LOCAL STUDENT NIGHT, OPEN
May 3, 1990	FIELD TRIP
June 7, 1990	AWARDS NIGHT - INSTALLATION OF OFFICERS

KNOW A PROSPECTIVE NEW MEMBER?  
 Contact Membership Chair:  
 Eric Tinglof - (415)467-8680

Mail or Phone News to:

Marie Hoch, Editor  
 Fog Dispenser  
 c/o Air Filter Sales & Service  
 20671 Corsair Boulevard  
 Hayward, CA 94545  
 (415)785-4800 Telephone  
 (415)785-4804 FAX

Meeting Date	Copy Deadline
November 2, 1989	October 13, 1989
December 7, 1989	November 15, 1989
January 4, 1990	December 15, 1989
February 1, 1990	January 15, 1990
March 1, 1990	February 9, 1990
April 5, 1990	March 14, 1990
May 3, 1990	April 13, 1990
June 7, 1990	May 16, 1990

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1989-1990 Officers

Gino Colacchia.....President  
 Thomas Reinarts.....President-Elect  
 Barbara Dilts.....Secretary  
 Frances Crisp.....Treasurer

Board of Governors  
 Steve Taylor Richard Leao  
 Sherman Brown

MINUTES OF THE JUNE MEETING

JUNE 1, 1989

1. The General Meeting was called to order by President Brown at 8:05 p.m.
2. Self-introductions followed.
3. Minutes of May meeting were approved as written.
4. This month's raffle featured gift certificates at three outstanding San Francisco restaurants.
5. Election results, with 135 ballots having been returned, are as follows:
 

President Elect,	Tom Reinarts	-	133
Secretary,	Barbara Dilts	-	133
Treasurer,	Fran Crisp	-	133
Board Member,	Rich Leao	-	130
6. The first Golden Gate Chapter Scholarship was awarded to Marc Fountain, a graduate student at U.C. Berkeley. Dan Reiter, Chair of the Scholarship Committee, presented the \$500 award. A plaque will be inscribed with Marc's name and will hang at the Engineers' Club.
7. Don Bryant has received the Honored Instructor Award from U.C. Berkeley Extension.
8. Sherman Brown presented certificates and plaques to this year's committee chairs and thanked them for outstanding work over the past year.
9. Hank Mouw is now a Life Member of ASHRAE. Tom White presented the certificate.
10. The Giant Gavel was passed to our new President, Gino Colacchia.
11. The meeting was adjourned at 8:40 p.m.

Respectfully submitted,

Thomas M. Reinarts

DEADLINE FOR 1989-90 ROSTER LISTINGS

Would you like to be included in this year's roster? Have you paid this year's Chapter dues? Send in your Chapter dues by **October 1** and have **your name** included in the new Roster!

If you didn't receive an invoice, please call Eric Tinglof at 467-8680 for an invoice and roster application.

Employment Advertising

**Mechanical Designer, HVAC.** Busy Consulting Engineering firm has immediate opening for key, permanent position. Minimum four years recent experience. Call for interview. Penry & Associates, Inc. 631-0290

**Sales Engineer.** United McGill Corp, a national engineering, manufacturing and construction company, is seeking Sales Engineers for our Hayward and Stockton locations.

These individuals will sell sheet metal duct and fittings directly to HVAC contractors and industrial engineers. The products are made in the Company's Stockton plant.

The ideal candidates will possess a BSME degree, excellent communication skills, and a desire to pursue a career in technical sales.

United McGill offers a competitive salary, benefits and a sales incentive program. For consideration, please forward your resume and salary requirements to United McGill Corp., Dept. 088, P.O. Box 7, Groveport, OH 43125. Equal Opportunity Employer

**Oregon ASHRAE has 50th Anniversary,** and has invited our Chapter to attend their celebration on October 5, 1989. Please call Marie Hoch, Air Filter Sales, at 785-4800 for a copy of their flyer on this event. Preregistration is required.

## AWARDS IN VANCOUVER

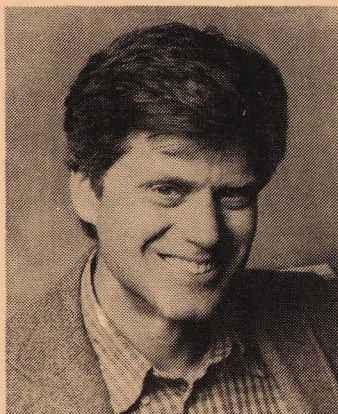
The Golden Gate Chapter is proud of the ASHRAE researchers across the bay. And those of us that were at the Annual Meeting in Vancouver were proud to see a number of them get awards for their projects.



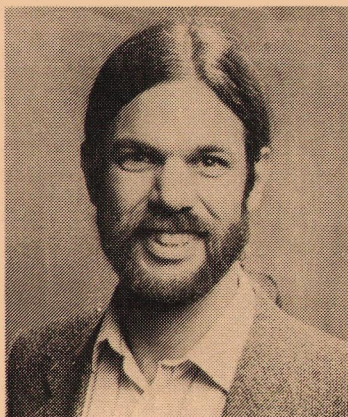
**Gail Ellen Schiller, Ph.D.**  
*Ralph G. Nevins Award*

Gail Schiller, an assistant professor in the Dept. of Architecture at Cal, won the Ralph G. Nevins Award for her work on "A Field Study of Thermal Environments and Comfort in Office Buildings."

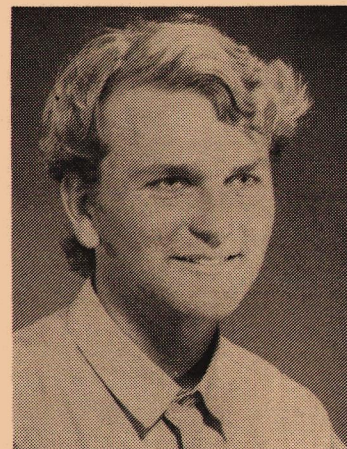
For the same project, Gail also won the 1988 ASHRAE Paper Award along with co-authors Ed Arens, assistant professor; Fred Bauman, associate professor; Marc Fountain, graduate student; Charles Benton, associate professor; and Tammy Doherty.



**Edward A. Arens, Ph.D.**

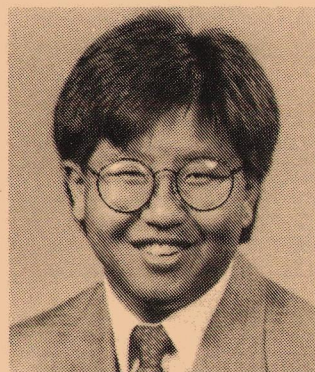


**Fred S. Bauman, P.E.**



**Marc E. Fountain**  
*Homer Addams Award*

Marc Fountain, a graduate student at Cal, won the Homer Addams Award for his work on the above mentioned project. This award is given for outstanding research by a graduate student.



**Joseph Hiroshi Eto**



**Cecile Meyer, P.E.**

Joe Eto, a staff scientist at Lawrence Berkeley Lab, won the Willis Carrier Award for his symposium paper, "HVAC Costs of Increased Fresh Air Ventilation Rates in Office Buildings." This award recognizes outstanding work by one under the age of 32.

For the same paper Joe, along with Cecile Meyer, also won the Crosby Field Award for co-authoring the year's best ASHRAE Technical Paper.

by Carl Jordan

Thanks to Tom White also.