

RAFFLE NOTE

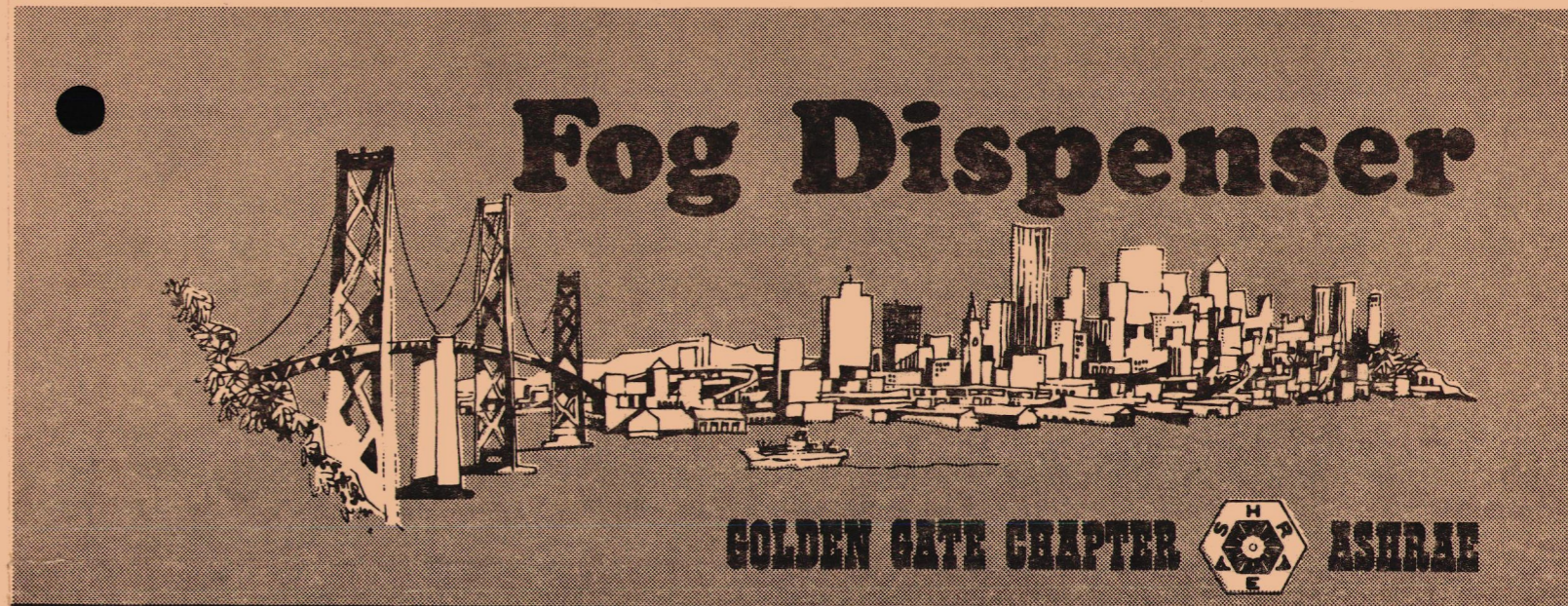
The ASHRAE Scholarship Fund received another boost from the December meeting's raffle proceeds. Tempco Equipment Company provided the prizes and nearly four times the value is now available for scholarships.

Thanks, Gerry Yaffe, for your support of the scholarship effort.

To donate prizes, contact Sheryl Almon at 974-5881.

MECHANICAL ENGINEER

The San Francisco Regional Office of CH2M Hill, Incorporated has a career opportunity for a mechanical engineer. The position requires a B.S.M.E., a California P.E., and 5-10 years experience in design of HVAC systems for institutional, commercial, and high tech. industrial facilities, preferably including clean room design. Salary commensurate with experience. Excellent fringe benefits plus an attractive East Bay marina location. An Equal Opportunity Employer. Qualified applicants, please send written response only to CH2M Hill, 2200 Powell Street, 8th Floor, Emeryville, California, 94608.



VOLUME XXIII NO. 4

JANUARY 1984

MEETING NOTICE

DATE: January 5, 1984  
 TIME: 5:30 - 6:30 Social Hour  
 6:30 Dinner/Meeting  
 LOCATION: Engineers Club  
 160 Sansome Street,  
 16th Floor  
 San Francisco, CA  
 PHONE: (415) 421-3184

PROGRAM"ENERGY CONSERVATION OPTIONS"

Steve Taylor, Energy Conservation Chairman, will discuss the results of studies he has performed comparing air economizers to water side economizers (strainer cycles and precooling coils). Jim MacDonald will discuss boiler economizers and flue gas heat recovery equipment for relatively small boilers (25 hp and above).

This promises to be a very interesting program on topics that are being looked at carefully on many projects today.

HONOR ROLL

Engineered Date Environments, Inc.  
 Representative for Liebert Power &  
 Air Conditioning

North Bay: 1341 D Galaxy Court  
 Concord, CA 94520

Phone: (415) 676-7476

South Bay: 643 Bair Island Road  
 Redwood City, CA 94065

Phone: (415) 369-1144

Herb Anton  
 Randy MacCleary  
 Sherman Brown  
 Stuart Bass

Dick Dundas  
 Steve Sabol  
 Jim Hendry

**PRESIDENT'S CORNER**



I would like to take this opportunity to thank those individuals and firms who donated dinners for the U.C. and Cal Poly students. The students and faculty genuinely appreciated our hospitality and I hope the membership enjoys having them each year.

I still have extra copies of the Cal Poly student resumes and U.C. is preparing a similar document. If you are interested, let me know.

Several meetings ago I indicated I have a supplement to the Temperature Data Book covering the L.A. Basin.

I will have them available at the next meeting or mail me an envelope and I'll send you one. (Have to keep the Chapter expenses down.)

Enclosed is a code ruling obtained by Carl Jordan at SOM. Carl will continue to publish these as they become available. If any other members obtain similar types of rulings, please let us know so we may publish them.

Bob Hussey has arranged a great golf tournament and I've got a partner, shop foreman, and accountant who think they can win. Sign up and see if you can beat us. Sign up now; it will give you an excuse to take a day off next July.

Tom White is still looking for help with the 1986 Winter meeting assignments. This is the opportunity to attend the meeting and be part of it at the same time. Get involved. You can get more out of ASHRAE if you put something in.

Hope you're having a great holiday season.

Jim Taylor

MINUTES OF LAST MEETING CONTINUED

9. Program. Drawings should be more clear especially where "typical" arrangements are used and should be readily available to suppliers early in the bid process. Allow adequate mechanical space. Choose balancing contractors carefully. Finally, the design should be practical not just theoretically correct.

10. Meeting adjourned 9:50.

ASHRAE RESEARCH PROMOTION

As co-chairmen of this promotion, we'd like to present the membership with some information of what ASHRAE Research is about and what our past performance has been.

Over the past six years, the Golden Gate Chapter has made the following contributions to ASHRAE Research:

1977-78	-	\$ 6,895.00
78-79	-	8,722.50
79-80	-	6,775.00
80-81	-	10,348.00
81-82	-	3,286.00
82-83	-	8,828.30

The goal for 82-83 is \$10,500.

The breakdown on the \$8,828.30 was:

Chapter Contribution	-	\$6,100.00
Individual Member Contributions	-	953.00
Corporation Contributions	-	1,775.30
<b>TOTAL</b>		<b>\$8,828.30</b>

The touch will come soon -- be prepared. In the meantime, more information will appear next issue.

Co-Chairmen - Jim Holden  
Bob Phillips

GOLF TOURNAMENT

Arrangements have been made to play Crow Canyon Country Club, July 9, 1984.

We will play best ball, shot gun. Start 1PM.

Cost \$75.00 - \$80.00 per player.

We need 18 foursomes in order to have the tournament.

Please make reservations by January 15, 1984.

Cost includes golf, carts, dinner and tee prizes.

I would like to see 18 offices of companies enter. Competition could then be between offices.

There will be a surplus of funds that could be earmarked for an ASHRAE project.

Let's make this an A.S.H.R.A.E. competition.

Contact Bob Hussey 786-3500 or Jim Taylor 786-1335 for reservations.

TREASURER'S REPORT

By special request ... Financial Statement, November 30, 1983. 313 members have paid chapter dues. Receipts exceed expenses:

Assets	\$6,791.14
Liabilities	395.00
Members' Equity	6,396.14

Dave Rifkin  
Treasurer

**COPY DEADLINE**

In order to meet our publication dates, we have established the following as the last possible date, that copy for the FOG DISPENSER can be in the editor's hands:

MEETING DATE	COPY DEADLINE
Jan. 5, 1984	Dec. 15, 1983
Feb. 2, 1984	Jan. 12, 1984
March 1, 1984	Feb. 9, 1984
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May 3, 1984	April 12, 1984
June 7, 1984	May 17, 1984

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**1983-84 OFFICERS**

James G. Taylor ..... President  
Kevin F. Dowling.... President-Elect  
James Nemechek..... Secretary  
Dave Rifkin ..... Treasurer

**BOARD OF DIRECTORS**

Thomas Campbell  
Dart Rinefort  
Sherman Brown

**MAIL OR PHONE NEWS TO:**

Barbara Dilts, Editor  
c/o PG&E  
30th Floor, Suite 3001  
1 Market Plaza  
San Francisco, CA 94106  
(415) 974-5881

MINUTES OF OCTOBER MEETING

October 6, 1983

Attendance: 82 Members  
26 Guests

1. The meeting called to order at 7:37 by President Taylor at the Engineers' Club. Self-introductions followed.
2. Minutes of the June meeting were approved.
3. It was reported that approximately 25 Cal Poly students were expected at the November meeting and members were asked to contribute for the students' dinners.
4. A proposal was made by Dick Friedman and passed that a specific date be set for a UCB student dinner. Don Bryant mentioned the need for UCB student chapter financial assistance.
5. President Taylor mentioned Climatic Data Manual sales were going well and that Chapter expenses for sponsorship were now paid off.
6. Dave Rifkin reported the second ASHRAE/ASPE Product Show had (75) exhibitors, free attendance, free parking and jitney service. He encouraged attendance by all levels of responsibility in engineers' offices.
7. Don Bryant encouraged participation in ASHRAE's continuing education program. They are well done with excellent notebooks (at \$25 each) provided.
8. Glen Claycomb reported the San Francisco Board of Supervisors had adopted Code similar to UBC.
9. Carl Jordan has volunteered to head a new committee of one for the purpose of receiving San Francisco code rulings and administrative bulletins. He will advise the Chapter of these.
10. It was reported that dues must be paid by November 1 if members are to be included in the Roster.
11. Honor Roll members (to sponsor Fog Dispenser) are needed for this year. Contact Gino Colacchia at University Mechanical.
12. Bob Swezey recommended that name badges be sorted by numbers assigned to each badge to ease the problem of finding individual badges. It was also suggested that there be a sign-up sheet available at each meeting for members with badge problems.
13. Kevin Dowling introduced the speaker, Mr. Brooks Semple, a noted authority on smoke control from Washington, D.C. Mr. Semple mentioned the ASHRAE design manual "Design of Smoke Control Systems for Buildings," but cautioned it doesn't cover all aspects. He had several recommendations such as:
  - a) Check smoke control system every nine months so that it's checked in all seasons in a three year interval.
  - b) Duplicate, remote electrical feeds may be more desirable than standby generators in the building.
  - c) Barriers are better control than air flow or pressure.
  - d) Multiple air injection in stairwells of high-rise buildings - - maybe even multiple injection fans every three-four floors.
  - e) Put smoke detectors in air injection fans so smoke outside of building isn't reintroduced.
  - f) Test high-rise system with at least four stairwell doors open.
14. Meeting adjourned at 9:45.

MINUTES OF LAST MEETING

December 1, 1983

Attendance: 67 Members  
24 Guests

1. President Taylor brought the meeting to order at 7:15 and self-introductions followed.
2. Seminar. Allan Moyal asked for volunteers for the one day seminar to be held 3/28/84.
3. PGandE Energy Expo. Dart Rinefort again called for 6-8 presentations for this 5/25/84 show. Actual job histories are preferred. Preliminary presentations are needed by mid-December. Approximately 4000 attendees are expected.
4. Annual Golf Day. Bob Hussey announced the 7/9/83 date. Need 18 foursomes to use the full course -- shotgun start at Crow Canyon Golf Club. The winning team will designate which ASHRAE fund will receive the profit from the tournament.
5. Cal Berkeley Student Night. Student guests introduced themselves. A list of available graduating students was distributed to prospective employers.
6. Code. Bob Voelz reported the San Francisco Board of Supervisors approved the new codes which will be in effect January 1984. No publication date was announced. New code is basically the '79 UBC with San Francisco Building Department amendments. Buildings with existing site permits can use either the new or old codes, but all disciplines involved in the building design must use the same code.
7. Badges. Please leave them in the cans on the table near the elevators.
8. Raffle. Prizes were donated by Tempco.
9. Program. An interesting panel discussion was held on the problems of designing, constructing, and operating the new, large, complex buildings of today. Panel members were Bert Bomersine of Milton Meyer, Bob Voelz of Bentley Engineers, Jim Holden of South City Mechanical, and Jack Kniveton of Norman Wright Equipment. Bert Bomersine mentioned these points: a local architect and engineer makes design easier and speeds up design process; engineers should be chosen by the owner to make them more responsive to the owner's needs; flexibility of systems is most important because of tenant changes; better coordination between base building ME and tenant ME is needed.

Bob Boelz commented that engineers should be involved early and know users' needs, get mechanical space allocations early, use realistic design time estimates, and design VAV systems carefully to avoid stuffiness. Building engineer should be on the job long before completion to learn systems; designers should spend more time in the field.

Jim Holden said that engineers should review standard specs regularly, speed up approval process, and need better coordination between trades. Each fire damper location should be shown on drawings.

Jack Kniveton commented that engineers should ask for equipment application assistance.

Continued on page 5.

- MINUTES CONTINUED -

keeping stack gas temperatures high enough to prevent condensation. He also recommended powered boilers when using heat reclaim and consideration of 2 stacks on atmospheric boilers to lower pressure drop.

15. Meeting was adjourned at 9:45 p.m.

MINUTES OF MEETING  
CODE COMMITTEE MEETING 12/6/83

Present:

Jim Breese	Tom Campbell
Glenn Claycomb	Gino Collachia
Mike Cory	Jack Kniveton
John Lewis	Bill Mah

1. Proposed UBC 1717 was discussed. Glenn Claycomb has since sent letter to Gus Degenkolb summarizing the Committee's comments.

2. It was reported that the 200 cfm requirement in the 1982 UMC section 1009 is a typographical error. The correct value is 2,000 cfm. The requirement was formerly 10,000 cfm.

3. Next Committee meeting is scheduled for Tuesday, February 7, at 2:00 p.m.

Glenn Claycomb, Chair

TREASURER'S REPORT

Financial Statement 12/31/83

Check account balance	\$10,992.41
Members' equity	\$10,992.41

Liabilities are current, recurring expenses.

Dave Rifkin, Treasurer

DINNER RESERVATIONS

Once again we request that everyone coming to the monthly meeting send in his/her dinner reservations or phone the Engineers Club ahead of time. Also, please purchase your dinner ticket on the way into the meeting. Then move to the dining room quickly after the bell is rung. This will help speed up the meeting and ensure that everyone has a good dinner on time. We had 110 people at our last meeting, but only 90 reservations. That created several problems for the Club and for some of our members.

EXCELLENCE IN ENERGY MANAGEMENT SEMINAR

"Excellence in Energy Management" will be the theme of a 3-day seminar sponsored by the Association of Professional Energy Managers and Pacific Gas and Electric Company, March 27-29 in San Francisco.

Dr. Robert J. Budnitz will head a team of energy and management experts who will address the managerial process and approach necessary to ensure energy management results. The seminar is designed for energy management executives.

For more information, contact the Association at (415) 332-8055 or write to APEM, One Market Plaza, Suite 3001, San Francisco, CA 94105

ENGINEERS WANTED

Experienced HVAC engineers and designers needed at East Bay consulting firm. Call Paul at (415) 283-4040.



VOLUME XXIII NO. 5

FEBRUARY 1984

MEETING NOTICE

DATE: February 2, 1984

TIME: 5:30 - 6:30 Social Hour  
6:30 Dinner/Meeting

LOCATION: Engineers Club  
160 Sansome Street,  
16th Floor  
San Francisco, CA

PHONE: (415) 421-3184

PROGRAM

"ELECTRICAL UPDATE"

Jim Taylor will coordinate this program with a large electrical supplier. Dan Arnett and Marlin Parks of the General Electric Company will give a presentation on motor starters and on high efficiency motors including their loaded performance.

HONOR ROLL

California Hydronics Corporation  
350 Hatch Drive  
Foster City, CA 94404

Jack A. Palmer  
Milton P. McLeod  
David Attard

Phone: (415) 574-1313

PRESIDENT'S CORNER



Our monthly board meetings are becoming more like general meetings with all the activities in progress. Don Bryant and Alan Moyal came to work out the final details of the seminar and Jim Holden presented his program for Research Promotion. We hope to have Tom White at next month's meeting for continued planning on the 1986 show. It is the contributions of time and effort by so many members which make the achievements of this chapter possible.

Somehow I was put in charge of the program for the meeting this month. Two gentlemen from General Electric and I hope to offer you everything you ever wanted to know about high efficiency motors and

motor starters. We hope to offer some insight into selecting motors for real energy savings.

The efforts of Dick Charles and his Temperature Data Book Committee continue to offer a good return on our investment. The Southern California Chapter has sent us a check for approximately \$1,500 as our share of sales.

The new format for the golf tournament seems to be agreeing with the membership. Bob Hussey reports a good signup, but there is still room for more. Call Bob for reservations now. (415) 786-3500

The Engineers Club and ASHRAE are having their annual scuffle. For the last two meeting the Club has been short of dinners. We finally got Mike Corey to a meeting and they served him a hamburger. But seriously, we have to do our part. To offer us a timely meeting, the Club must know how many dinners they are serving. Please!!!

- 1) Return your reservation cards.
- 2) Call the Club if you decide to come at the last minute.
- 3) Buy your dinner tickets as soon as you get to the Club.

With any luck the Head Waiter will still be speaking to me this month.

Jim Taylor

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 1 Market Plaza  
 San Francisco, CA 94106  
 (415) 974-5881

MINUTES OF LAST MEETING

January 5, 1984

Attendance: 70 Members  
 25 Guests

1. Meeting was called to order at 7:50 p.m. at the Engineers Club by President Jim Taylor who called for self-introductions.
2. Minutes of December meeting were approved.
3. Nominating Committee for next year's officers was announced. Members are Gene Valerio, Dick Glumac, Carl Jordan, Tom Gilbertson, and Jim Taylor. They will present the slate of candidates at a future meeting.
4. Don Dickson died during the Christmas holidays it was announced.
5. Golf Day date has been changed to 7/30/84. Eight foursomes have already signed up.
6. PGandE Energy Expo still needs 2-3 more case history presentations with documentation. Expo will be held 5/22 through 5/24.
7. Seminar. Don Bryant reminded us that this year's seminar is a one day meeting from 8:00 a.m. to 4:30 p.m. It will be held at the PGandE auditorium and lunch will be included. Fire risk management is the topic. There will be an early registration discount.
8. Financial Report for December will be delayed until the return of Treasurer Dave Rifkin.
9. San Francisco Bldg. Code Bob Voelz announced that the new code which became effective 1/1/84 is available at both the Civic Book Store and Stacey's.

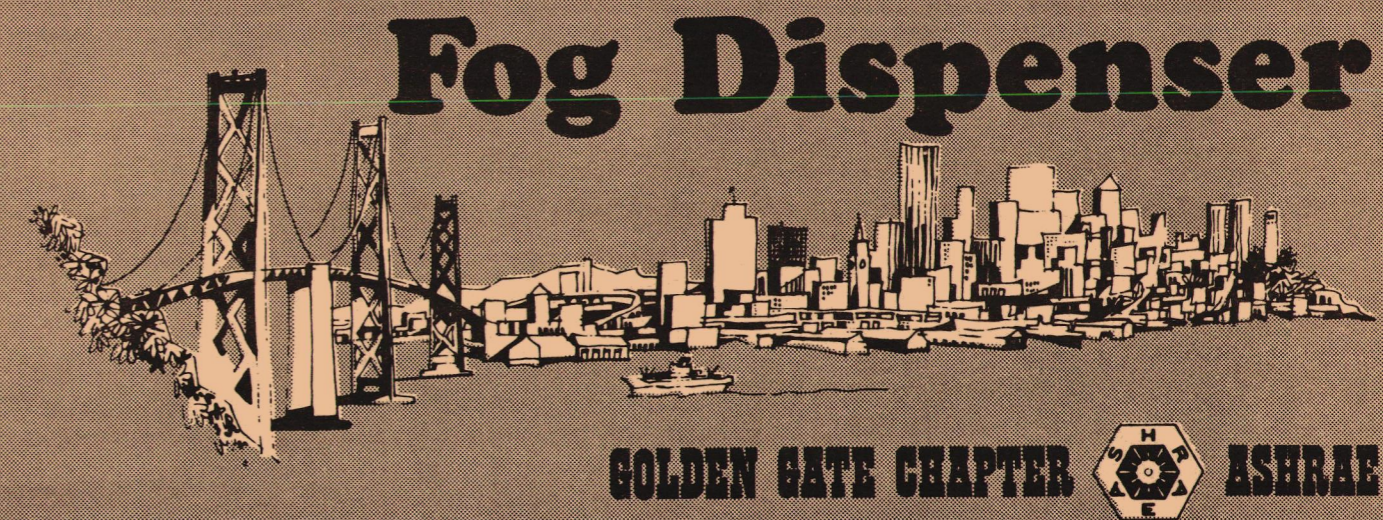
10. Region X Chairman John Harnack attended the meeting to present past president Gene Valerio the Regional Award of Merit for services performed on behalf of the Region. John also announced that Society President Perry has made this "International Year" with 20% of this year's meeting speakers coming from foreign countries.

11. Raffle was conducted by Sheryl Almon. Prizes were donated by Engineered Data Environments.

12. Economizer Cycles speaker Steve Taylor computer modeled (3) systems using a 475,000 square feet San Francisco building as the sample building. The systems were conventional air economizer using built-up, central vaneaxial systems with chiller; individual floor air handlers using fixed outside air; and chiller with strainer cycle and individual floor DX air handlers. Steve commented that existing computer programs which can handle all 3 systems are very limited. The conclusion drawn from his program was the best system was the central built-up system based on low energy usage, good smoke removal, and good ventilation. He also recommended using 4 row 14 fpi coils where possible, oversizing cooling tower for 75-78 LWT, and putting auxiliary cooling on a separate tower.

14. Boiler heat recovery Jim McDonald spoke on boiler heat recovery. He explained heat recovery from a boiler was basically limited to recovering waste heat from the exhaust gas. This is accomplished by using a reclaim coil either in the boiler vessel itself or in the exhaust stack. The reclaim coil is almost always furnished by the boiler manufacturer. He recommended

- CONTINUED ON PAGE 4 -



VOLUME XXIII NO. 6

MARCH 1984

MEETING NOTICE

DATE: March 1, 1984  
TIME: 5:30 - 6:30 Social Hour  
6:30 Dinner/Meeting  
LOCATION: Engineers Club  
160 Sansome Street,  
16th Floor  
San Francisco, CA  
PHONE: (415) 421-3184

PROGRAM

1984 San Francisco Building Code  
The 1984 edition of the San Francisco Building Code went into effect on January 1. Mr. Bob Levy, the Superintendent of Building Construction for the city, will speak on the major revisions to the Code from the 1975 edition, particularly those related to the mechanical and life safety sections. Mr. Levy has been guest speaker at some of the most popular and controversial ASHRAE meetings. This will be another very interesting program. Get your reservation cards in early and don't miss this opportunity for the latest update on the new Building Code.

HONOR ROLL

Hess, Greiner and Polland  
800 South Claremont Street  
San Mateo, CA 94402  
Phone: (415) 348-0555

Wilfred Gee	Colleen Fitch
Hank Shastany	Jackie Gainer
Ross Bianchette	Jerry Gogas
Hamid Yazdchi	Tom Lew
Nipat Boonyasnguan	

PRESIDENT'S CORNER



Every year two committees dispatch their duties with little fanfare, but their tasks are essential to the successful continuation of the Chapter. I would like to take this opportunity to personally thank Dick Glumac, Carl Jordan, Jack Palmer and Gene Valerio for serving on the Nominating Committee and John Lewis for serving on the Audit Committee. The Audit Committee continues to reaffirm that engineers, salesmen, and contractors make honest but very poor bookkeepers.

At the semiannual meeting in Atlanta, Carl Jordan was raised to the grade of Fellow. Our congratulations to Carl in joining 8 active Chapter members who have

received this distinguished award.

The seminar is closing in on us and final plans are being completed. The annual seminar serves two purposes for the Chapter. First, it offers a local educational opportunity on a current subject of interest and second, it is the major fund raising event to support our scholarship and research funds. Our one-day seminar on Smoke Control at the PGandE auditorium, March 28th, already has registrations coming in. This is a \$400 opportunity for 1/4 the cost. Sign up now.

Speaking of seminars, the Society will be back in town with their seminar series on March 8th and 9th. The topic is Air System Design and has been very well received on its last tour across the country. I had the opportunity to attend the Water System Design Seminar on its last tour and it was absolutely great. For details contact Jim Taylor (786-1335), Jack McClung (404-636-8400), or Don Bryant (584-0765).

Our next general meeting is March 1st. Please return your cards or call the Club to make your reservations. Our speaker will be Bob Levy of the San Francisco Building Department. With San Francisco's version of the UBC and UMC now in place, there should be plenty to discuss.

WANTED NOTICES

Your company can now advertise positions in the "Fog Dispenser." Just send the ad to the "Fog Dispenser" editor and donate \$25 to the Research Fund. Make checks payable to ASHRAE Golden Gate Chapter - Research Fund and send them to the Chapter Treasurer.

PROJECT ENGINEER

Mechanical project engineer, experienced in HVAC systems for large office buildings. BSME and PE preferred. Send resume to Carl H. Jordan, Skidmore, Owings and Merrill, 130 Sutter Street, San Francisco, CA 94104

SR. FACILITIES ENGINEER

Syva Company a subsidiary of Syntex Corporation needs a facilities engineer for projects involving design, specification and construction. BSME (or equivalent) required plus 5 years experience in facilities engineering with emphasis in HVAC, psychometrics, load calculations retrofit and system analysis and controls. Send resume to:

Denise Pringle  
Sr. Human Resources Administration  
Syva Company  
20400 Mariani Avenue  
Cupertino, CA 95014

DRAFTSPERSON

Draftsperson, HVAC. AA Degree. Min. 3 years experience. Salary commensurate with experience. Educational support towards advancement. Send resume to:

Fran Crisp  
Western Allied Corporation  
1180 O'Brien Drive  
Menlo Park, CA 94025  
(415) 326-0750

ENGINEER - HVAC

Design/Build Mechanical Contractor is seeking two individuals with a minimum of 3 years experience in the design of medium to large tonnage commercial HVAC systems. Person(s) must be capable of handling all concepts of the system design, be able to coordinate draftsman(s) activities, and be experienced with "Built-Up" systems! Only individuals with HVAC and/or refrigeration experience need apply. Send resume to:

Air Conditioning Company Inc.  
360 Beach Road  
Burlingame, CA 94010  
(415) 348-5811

DRAFTSMAN/DESIGNER

HVAC Draftsman/Designer for Design/Build Mechanical Contractor. We're looking for two experienced and responsible individuals. Send resume to:

Air Conditioning Company Inc.  
Attention Mr. Garcia 360 Beach Road  
Burlingame, CA 94010 (415) 348-5811

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MINUTES OF LAST MEETING

February 2, 1984

Attendance: 44 Members  
10 Guests

1. President Taylor brought meeting to order at 7:00 at the Engineers Club and self-introductions followed.

2. Nominating Committee submitted the following slate: President - Kevin Dowling. President-elect - Jim Nemechek, Secretary - Dave Rifkin, Treasurer - Dart Rinefort, Board Member - Sherman Brown, new Board Member - Gino Colacchia. A specimen ballot will be published in the March "Fog Dispenser." Additional nominations can be made from the floor at the March General Meeting before nominations are officially closed. Official ballots will be mailed during March and election will be held at the April General Meeting.

3. Golf Day remains scheduled for 7/30. Openings still available. Bob Hussey is Chairman.

4. Tennis Day schedule for 5/4 reported Jack Kniveton. More details later.

5. Seminar 3/28 is scheduled date. Brochures have been mailed. Full day including lunch. Our choice of topic, Fire and Smoke Control, is timely. Send your reservations in early.

6. Raffle was conducted by Sheryl Almon

7. Marlin Parks from G.E. spoke on various motor starter types. Typically starting current is six times normal running current. Power company may require certain starter types because of special conditions.

Part winding starter is lower cost but not very efficient regarding torque vs. amps. Auto transformer starters are more expensive and have good torque vs. amps. On small motors with internal thermal protection, simple contactors can be used in lieu of starters. Remember starters only protect motors and circuit breakers only protect wiring. Dan Arnett from G.E. talked about motors. 70-80% of most industries' power bills are electric motors. This equates to \$2,600/year or \$44,000 for 10 years for 10 HP motor (based on 6 ¢/KWH, 6,000 hrs/yr, 8% escalation). Newest motors are about 95% efficient which is an increase of 3-4% over old style motors. Initial cost of "energy efficient" motors is about 1.3 times standard motors but should save that in one year if motor is used at full load. Part load use will not save as much. Hi-efficiency motors are quieter, have higher service factor, are more reliable, and work well with variable frequency drives. On motors over 7 - 1/2 HP with 3,000 hrs/yr operation, the hi-efficiency type should be considered. PGandE offers some rebate programs. Rebate usually is equal to the cost of labor to make changeout to new motors. Both speakers urged users to get more printed information from their vendors.

8. Meeting adjourned at 9:00.

FIRE AND LIFE SAFETY SEMINAR

Golden Gate Chapter will sponsor a Fire and Life Safety Seminar, Wednesday, March 28, 1984, 8:00 a.m. - 4:30 p.m., Auditorium, PGandE Building, 245 Market Street, San Francisco. Literature describing equipment and hardware related to the seminar may be displayed. Tables will be available in the Lobby, Beale Street entrance. If you plan to display literature, please contact either Alan Moyal (415) 825-7810 or Don Bryant (415) 584-0765.

ASHRAE ENERGY AWARDS

"ASHRAE's Annual Energy Awards Program" offers innovative engineers and designers recognition and publicity for their work in cost effective, energy efficient commercial, industrial and institutional projects either for new buildings or retrofits of existing buildings. Projects must have been in successful operation for at least one year.

Applications, available from Steve Taylor at Charles and Braun Consulting Engineers, (415) 434-2720, are due for review by the Chapter Energy Committee by April 16, 1984.

SPRING TENNIS TOURNAMENT

Mark your calendar for Friday, May 4th, 1-4 p.m. We will return to the San Francisco Tennis Club for a great afternoon of tennis. A mailing will be sent out later, but if you need more information call Chairman Jack Kniveton at 777-5333.

ASHRAE TREASURER'S REPORT AS OF JANUARY 31, 1984

Checking Account	12,923.41
Liabilities (Cal Poly Fund)	395.00
Members Equity	12,528.41

Budget is progressing nicely, as planned by the board.

INTERNATIONAL CRC

May 9, 10 and 11 are the dates for the CRC in Portland, Oregon. Plans include a technical session on a major co-generation facility and a lot of special events. For more information, contact.

Gary Manchester  
American Heating, Inc.  
232 N.E. 9th Avenue  
Portland, Oregon 97232  
(503) 239-4600

SCHOLARSHIP RAFFLE

Thanks to Engineered Data Environments (Sherman Brown) and Milton Meyer (Bert Bomersine) for donating the scholarship raffle prizes for the January and February meetings.

The Golden Gate ASHRAE scholarship raffle offers light entertainment at our monthly meeting while raising money to invest in a valuable resource (future engineers).

Thanks again to Milton Meyer Company and Engineered Data Environment, Inc. for their support.

To donate prizes, contact Sheryl Almon at 974-5881.

WANTED NOTICES

Your company can now advertise positions in the "Fog Dispenser." Just send the ad to the "Fog Dispenser" editor and donate \$25 to the Research Fund. Make checks payable to ASHRAE Golden Gate Chapter - Research Fund and send them to the Chapter Treasurer.

ENGINEER, CHIEF MECHANICAL

Full service established San Francisco based A and E firm seeks CA. reg. ME with minimum of 8 years experience Work include HVAC and clean rooms, piping, controls, energy surveys, EMCS, spec., est., management of mechanical personnel and coordinate with other design departments. Resume: JK, 9 Stone Ct., San Anselmo, CA 94960

HVAC - SALES - DESIGN - ESTIMATING

San Francisco Mechanical contractor has an excellent position open for a person with experience in the design, sale and estimating of HVAC systems.

The Company is established in San Francisco and the Bay Area for over 28 years and offers numerous benefits as well as probable advancement to an officer in a growing corporation.

A minimum of 5 years experience is required. Call Charles S. Hardeman at (415) 982-3100.

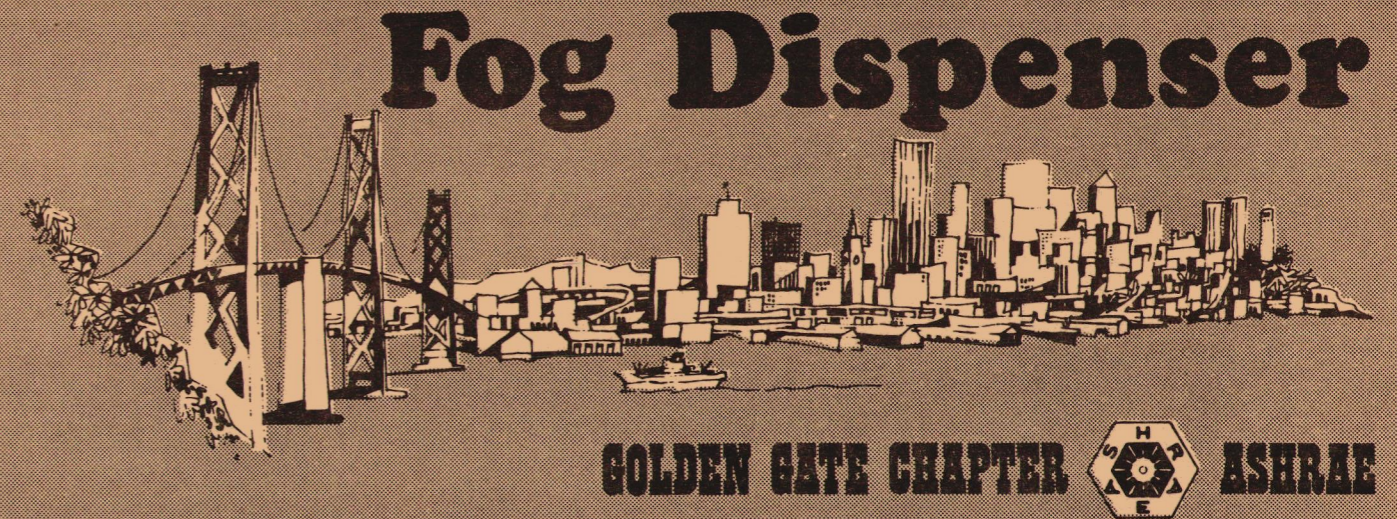
SR. DESIGNER/DRAFTER

Small Consulting Firm needs Senior Designer with broad experience in HVAC/piping design and drafting for industrial/power and transportation facilities. Mail resume to:

Fitz Consultants, Inc.  
611 Veterans Blvd., Suite 212  
Redwood City, CA 94063

PORTLAND CRC

The International CRC will be held in Portland, Oregon on May 9, 10 and 11. For more information, contact Gary Manchester  
American Heating, Inc.  
232 Northeast 9th Avenue  
Portland, Oregon 97232  
(503) 239-4600



VOLUME XXIII NO. 7

APRIL 1984

MEETING NOTICE

DATE: April 5, 1984  
TIME: 5:30 - 6:30 Social Hour  
6:30 Dinner/Meeting  
LOCATION: Engineers Club  
160 Sansome Street,  
16th Floor  
San Francisco, CA  
PHONE: (415) 421-3184

PROGRAM

"Forgotten Fundamentals of the Energy Crisis"

The Energy Conservation Committee will present this movie featuring Dr. Al Bartlett, Professor of Physics at the University of Colorado, who will examine the fundamentals of the energy crises. This film was extremely well received at the recent national ASHRAE meeting and has been shown at numerous chapter meetings since. Professor Bartlett is a dynamic speaker and will present some startling facts and predictions for the future.

HONOR ROLL

Clyde Equipment Company, Inc.  
920 Grayson Street  
Berkeley, CA 94710

Phone: (415) 845-6130

Thomas Conroy  
Glenn H. Spoerl  
Constance Spoerl  
Don Chute

PRESIDENT'S CORNER



The excitement of moving his office and shop to San Leandro was a bit too much for Jim Taylor. He cut his right hand rather badly in a machine last week and asked me to fill in for him as he can't write for a few days.

Arrangements are well in hand for this year's ASHRAE Seminar on Fire and Life Safety which is scheduled for Wednesday, March 28th at the PGandE Auditorium. This one day seminar offers a unique opportunity to gain first hand knowledge on some of the most critical aspects of HVAC, Life Safety, Smoke Control and Fire Sprinkler System Design. Time is running out; over 100 people have registered already and many more are

expected in the near future. Remember, your registration fee is used to support ASHRAE's Research and Scholarship Funds. The cost of \$105 is approximately one quarter of what a seminar of this quality normally costs. With the recent serious fires in a high rise office building and hotel in San Francisco, we urge as many members as possible to attend this year's seminar. For further details and registration forms, contact Alan Moyal at 825-7810, Don Bryant at 584-0765 or Dart Rinefort at 398-7667.

The annual field trip scheduled for Thursday, May 3rd has been finalized and is a tour of Lawrence Berkeley Laboratory which should be of great interest to many of our members. There will be a limit of 70 members for this trip, so be sure to get your reservation card back early as it will be on a first come basis. The tour will begin with an introductory talk in the auditorium at 6:30 p.m. We will then split up into three or four smaller groups and tour the campus by bus. Stops will include the Bevetron, a three story high electron microscope, a solar air conditioning installation and a facility for testing building materials. Watch the "Fog Dispenser" next month for further details.

Our next general meeting is on April 5th. The program, presented by  
- CONTINUED ON PAGE 3 -

MINUTES OF LAST MEETING

March 1, 1984

Attendance: 84 Members  
17 Guests

1. Meeting was called to order by President Taylor at San Francisco Engineers' Club at 7:25. Self-introductions followed.
2. Raffle was conducted by Sheryl Almon. PGandE donated the prices.
3. Seminar Alan Moyal encouraged attendance at the one day seminar on smoke control. At present there are about 50 registrants.
4. ASHRAE DUCT DESIGN program is in danger of being cancelled because of lack of interest reported.
5. Speaker Robert Levy from the City of San Francisco spoke on the new San Francisco building code. It's based mainly on '79 UBC and closely matches Title 24. Changes from UBC were necessary because of the city's hills, age, lot size, etc. The code high rise section uses UBC numbering system to make cross reference easier. Seismic section of code is basically '79 UBC. Golden Gate Code committee and local structural engineers had great input in the new code. New code simplifies high rise safety controls, adds smoke control. High rise section used more restrictive of UBC or Title 24 so there would be no problem meeting either. Life safety is more detailed than Title 24. For example, alarm wiring must be in 2 hour shaft, control room must be one hours room, smoke isolation must be by damper. Other changes - no more "blue lights;" double ducts are deleted but now must be in one hours shaft; 0.1 gallon per square feet now required.

Bob Levy said to expect confusion for the first year but rulings of the new code will be sent to Golden Gate Chapter. All old rulings will be eliminated within 6 months. New rulings will be numbered according to the applicable code paragraph. Bob encouraged sending in suggested changes to the National UBC Code Committee. There will be no separate mechanical plan check nor construction check. There are no annual inspections of smoke dampers. Buildings inspected only on application for permit. ASHRAE will probably be called upon to help instruct building inspectors in mechanical equipment and systems about July '84. New code affects '84 permits only.

San Francisco has recommended that State Fire Marshall rewrite State code according to UBC. Bob reminded us that his department can only interpret the code not make changes to it.

6. Meeting adjourned at 8:45.

TREASURER'S REPORT

Total Assets	\$12,166.38
Liabilities	395.00
Members' Equity - General Fund	11,771.38

- PRESIDENTS CORNER CONTINUED -

the Energy Conservation Committee, is a 40 minute film entitled "Forgotten Fundamentals of the Energy Crisis." In this film Dr. Bartlett of the University of Colorado at Boulder presents some interesting basic facts and predictions on the future of the energy crisis and its impact on the U. S. and mankind. Get well soon Jim.

Kevin Dowling

COPY DEADLINE

In order to meet our publication dates, we have established the following as the last possible date, that copy for the FOG DISPENSER can be in the editor's hands:

MEETING DATE	COPY DEADLINE
April 5, 1984	March 15, 1984
May 3, 1984	April 12, 1984
June 7, 1984	May 17, 1984

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.

1983-84 OFFICERS  
James G. Taylor ..... President  
Kevin F. Dowling .... President-Elect  
James Nemechek ..... Secretary  
Dave Rifkin ..... Treasurer

BOARD OF DIRECTORS  
Thomas Campbell  
Dart Rinefort  
Sherman Brown

MAIL OR PHONE NEWS TO:

Barbara Dilts, Editor  
c/o PG&E  
30th Floor, Suite 3001  
1 Market Plaza  
San Francisco, CA 94106  
(415) 974-5881

- CODE COMMITTEE MINUTES CONTINUED -

4. Generally agreed that pressurizing elevator shafts should not be required.

5. Generally agreed that stairwell pressurization criteria should be based on the ASHRAE smoke control design manual.

6. Agreed to invite Gus Degenkolb to a committee meeting to discuss his proposal.

7. See attached correspondence re: Degenkolb invitation and new language of 1717 now proposed as UBC Chapter 16, Smoke Management.

8. Next scheduled meeting is June 5, at 2:00 p.m., unless anyone thinks we should have one in May.

Glenn Claycomb  
Chair

#### ASHRAE RESEARCH REPORT

The ASHRAE Research Committee wishes to thank the following members and firms who have generously contributed to our Chapter's 1983-84 drive for Research Funds.

Air Filter Control, Inc.	\$50
Victor Bach	\$25
BWF Consulting Engineers	\$50
California Hydronics	\$100
Robert A. DeChene	\$25
Kevin Dowling	\$25
James Holden	\$25
Kent M. Lim	\$25
J.W. McClenahan Company	\$50
James Nemechek	\$25
Robert Phillips	\$25
Syska and Hennessy	\$100
Western Allied Corporation	\$100

Our Research Fund drive will continue for one more month.

Please help this worthy cause and mail your checks to: ASHRAE Research c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107

Jim Holden/Bob Phillips  
Co-Chair

#### ENERGY EXPO

The Great PGandE Energy Expo will be held at the Oakland Convention Center May 22, 23 and 24.

The Exposition hours are noon - 7:00 p.m. on the 22nd and 23rd; 10:00 a.m. - 3:00 p.m. on the 24th. The Golden Gate Chapter of ASHRAE will have a booth and we need volunteers to work the booth during the above hours.

General admission tickets for the Exposition will be available to ASHRAE members. For more information on the Exposition, Conference, tickets and VOLUNTEERING, call Dart Rinefort at 398-7667.

#### -WANTED NOTICES-

#### DESIGN ENGINEER

Glumac and Associates has openings for HVAC Engineers with a minimum of 3 years experience. BSME or P.E. preferred. Located in 4 Embarcadero Center. Call Debbie at 398-7667 for interview appointment.

#### SENIOR DESIGN ENGINEER

Controls/Building Management Systems. MCC Powers, a leader in installed DDC Building Management Systems, is seeking two (2) experienced Design Engineers for positions at its new Northern California Office in San Leandro. Send resume to: Richard Almini, Branch Manager MCC Powers 14709 Catalina Street, San Leandro, CA 94577



VOLUME XXIII NO. 7

MAY 1984

#### MEETING NOTICE

DATE: May 3, 1984  
TIME: 6:30 p.m. Sharp  
LOCATION: Lawrence Berkeley Laboratory

#### HONOR ROLL

Computer Conditioning Systems  
3055 Alvarado Street  
San Leandro, CA 94577  
(415) 483-1701

Dave Rifkin      Jim Hackbarth

Exclusive representatives for the EDPAC Corporation, Computer Room Air Conditioners, Telecommunications Environment Conditioners, Chillers for Computer Main Frames "Computer Rooms are our only business"

#### PROGRAM

#### LAWRENCE BERKELEY LABORATORY

This year's ASHRAE field trip will be a tour, on May 3, of the Lawrence Berkeley Laboratory including the Bevetron, Electron Microscope, Solar Air Conditioners and a Building Materials Testing Facility. The tour will begin at 6:30 p.m. sharp with an introductory talk in the auditorium. Buses will be provided for the tour of the laboratory and parking is available as indicated on the enclosed announcement. Attendance will be limited. So return the enclosed notice before Wednesday, April 25th to Kevin Dowling c/o Glumac and Associates, 4 Embarcadero Center, San Francisco, 94111 or call at 398-7667. There will be no business meeting or dinner in May.

PRESIDENT'S CORNER



It's nice to have my writing hand back in operation again. Thanks to Keven Dowling for filling in last month with the column. And speaking of fill-ins, Steve Taylor jumped in to help with the program at the March meeting.

The Smoke Seminar was a huge success! I've heard many approving comments for the day format and the material presented by our speakers. Many people help to make a successful seminar, but I must offer a special thanks to:

- Don Bryant Cochairman
Alan Moyal Cochairman
Dart Rinefort Treasurer
Pacific Gas and Electric Company

PGandE again donated the use of their auditorium and staff which helped, in no small way, to make this event successful. The seminar netted almost twice the revenue of last year's seminar series. Keven Dowling will be taking a very substantial check to the Chapter's Regional Conference in Portland for ASHRAE Research.

The CRC is scheduled for May 9, 10, and 11 in Portland. All members of the Chapter are invited to attend. If you need further information contact me right away. The program and field trips they have scheduled look great.

Kevin Dowling has arranged for us to tour the Lawrence Berkeley Lab facilities for our May field trip. THERE WILL NOT BE A MEETING AT THE ENGINEERS CLUB THIS MONTH. Please sign up promptly to allow Kevin to get an accurate count.

If you haven't sent in your ASHRAE RESEARCH donation you are behind schedule, as I am. This is the money that funds the research grants that result in the Technical Standards and ASHRAE Guides. Pony up troops and help Bob Phillips and Jim Holden meet their goal.

TREASURER'S REPORT

Total Assets \$14,342.06
Liabilities 395.00
Members' Equity 13,947.06
Dave Rifkin, Treasurer

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June 7, 1984 May 17, 1984

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c/o PG&E
30th Floor, Suite 3001
1 Market Plaza
San Francisco, CA 94106
(415) 974-5881

MINUTES OF LAST MEETING

April 5, 1984

Attendance: 60 Members
20 Guests

- 1. Meeting was called to order by President Taylor at 7:15 at the Engineers' Club. Self-introductions followed.
2. Election results were announced by Teller Committee Fran Crisp and Glenn Friedman. Elected were Jim Nemechek - President - Elect, Dave Rifkin - Secretary, Dart Rinefort - Treasurer, Gino Colacchia - New Board Member. Kevin Dowling automatically became President; Jim Taylor - Past President. Sherman Brown had previously been elected to a two year term.
3. Seminar - Alan Moyal reported a highly successful seminar on Smoke Control. There were 156 attendees. Break-even point was 85. Some extra copies of the ASHRAE Smoke Control Manual are still available for sale.
4. Field Trip is to Lawrence Berkeley Lab for several tours of solar projects and the accelerator. Details in next "Fog Dispenser." Date is May 3, 1984.
5. 1984 Energy Awards - Dick Charles announced that no entries have yet been received from Golden Gate members. Entries should be sent to Steve Taylor of the Energy Committee.
6. Tennis Tournament will be May 4, 1984, 1:00 - 4:00 p.m. at the San Francisco Tennis Club.
7. Golf Tournament date is July 30, 1984, at the Crow Canyon Golf Club.

8. Raffle was conducted by Lance Almon.

9. Program was an excellent film by Professor Al Bartlett from the University of Colorado on the energy crisis. He approached the subject from the standpoint of the available fossil fuel energy resources which are rapidly decreasing. He emphasized by using simple mathematics that even at a modest energy usage growth rate of 7% per year, the usage doubles every ten years. At this rate the known sources of petroleum will be depleted in the next century. So far we have used one half of the known petroleum available in the world. It was a thought provoking, startling talk that illustrated that we are not doing nearly enough to preserve our rapidly decreasing energy reserves.

10. Meeting adjourned at 9:10 p.m.

CODE COMMITTEE MINUTES, 4/5/84

Present:

- Jim Breese Jack Kniveton
Tom Campbell Bob Linford
Gino Colacchia John Lewis
Glenn Claycomb Bob Voelz

- 1. Discussed proposed UBC Section 1717, Smoke Management.
2. Agreed that smoke management and sprinklers serve two separate functions and that a zone of one need not coincide with the zone of the other.
3. Agreed that a definition of acceptance parameters (number of doors open, etc.) and a clear test procedure are required.

- CONTINUED ON PAGE 4 -

## ASHRAE RESEARCH PROMOTION Continued

the generous people we wish to offer our thanks. Further contributions will be listed in the next "Fog Dispenser."

JIM HOLDEN and BOB PHILLIPS  
Co-Chairman, ASHRAE Research  
Promotion

DR. BARTLETT TEXT AVAILABLE

The text of Dr. Al Bartlett's talk, "Forgotten Fundamentals of the Energy Crisis," which was presented at the Chapter's April meeting, can be obtained for the asking from our friendly Newsletter Editor.

Tom White picked up copies of the text after Dr. Bartlett's presentation in Washington, D. C., last year. Tom has now received permission from the author to reproduce the text for our members. These copies are for non-profit educational purposes only.

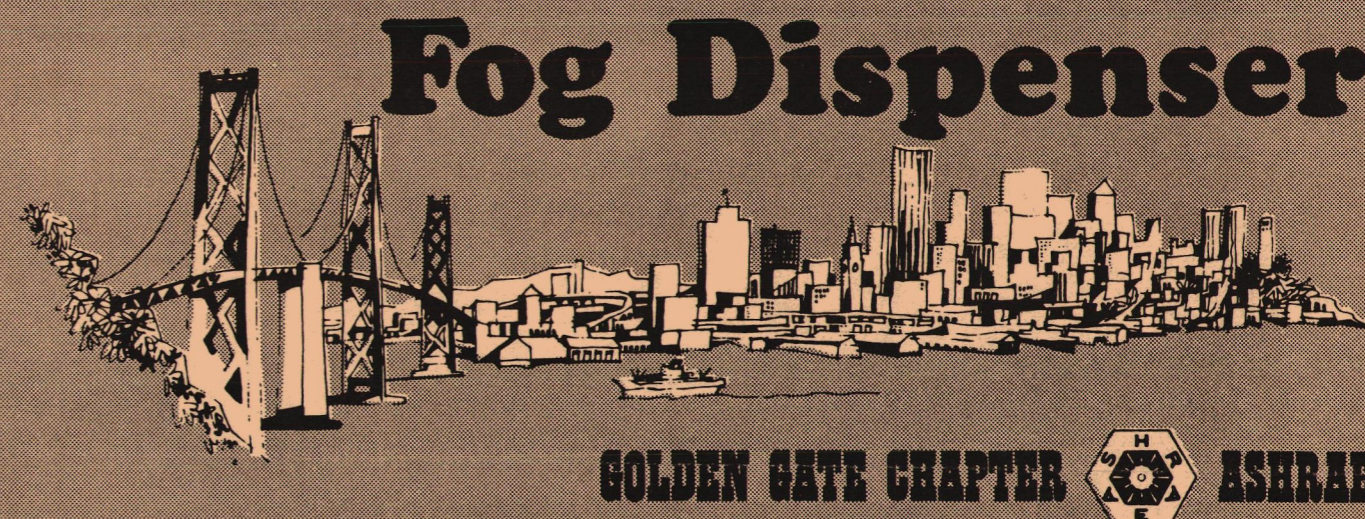
Thanks to the PGandE, we have the opportunity of enjoying the very entertaining program a second time.

WANTED NOTICES

Your company can now advertise positions in the "Fog Dispenser." Just send the ad to the "Fog Dispenser" editor and donate \$25 to the Research Fund. Make checks payable to ASHRAE Golden Gate Chapter Research Fund and send them to the Chapter Treasurer.

POSITION AVAILABLE

Drafter/Designer with experience in plumbing and HVAC piping and duct layout. For further information contact Rich Wells, Montgomery and Roberts, Consulting Engineers, 925 Kearney Street, El Cerrito (415) 524-1477.



VOLUME XXIII NO. 8

JUNE 1984

MEETING NOTICE  
DATE: June 7, 1984

TIME: 5:30 - 6:30 Social Hour  
6:30 - Dinner/Meeting

LOCATION: Engineers Club  
160 Sansome Street  
16th Floor  
San Francisco, CA

(415) 421-3184

HONOR ROLL

Vann Engineering Corporation 2427  
Vista Del Monte  
P. O. Box 5728 Concord, CA 94524

(415) 827-0220

Mike Cory  
Roy Gifford  
Marlin Whitney  
Vince Aiello

PROGRAM  
PGandE Update

June is the annual chapter corporate business meeting with the installation of officers for 1984-85, awards and presentations and our annual spouses night.

Our guest speaker will be Mr. Pete Lowenberg from PGandE who will speak on several of the PGandE programs including gas safety in the home, what to do in an earthquake and the residential conservation program. Mr. Lowenberg has a reputation as an interesting and entertaining speaker who provides practical demonstrations to prove his points. Hopefully he will not destroy the Engineers Club with his performance.

We are inviting the past presidents and their wives to be our guests for the evening. So bring your wife, husband or friend for what promises to be a very enjoyable evening and our last monthly meeting for 1983-84.

PRESIDENT'S CORNER



Enclosed is another sign-up card for those of you who misplaced the first one. Get your reservations in and we will all have an excuse to take July 30th off and play golf. Someone has to beat me for the high gross trophy.

Let me take this opportunity to thank the Chapter for the opportunity of serving as a Chapter officer. I also want to thank all the committee chairpersons, committee members, and just plain Chapter members who have donated so much of their time to make this Chapter so successful.

JIM TAYLOR

With the June Installation meeting my term as President comes to an end. It has been a good year for the Chapter. Membership is up, research donations are on target and meeting attendance has been excellent.

The June meeting is our annual Past Presidents' Night, Annual Corporate Meeting, and Honors and Awards Night. On top of that Kevin Dowling has a great speaker scheduled. Bring your wife, husband, or other and come have a good time.

The Golf Tournament sign-ups are up to twelve foursomes and climbing, but there is still plenty of room.

TREASURER'S REPORT

Total Assets	\$9,650.55
Liabilities	395.00
General Fund	9,255.55

This total is after a contribution of \$8,000 to ASHRAE Research. The check was presented to the Society at the CRC meeting in Portland on May 10.

ASHRAE RESEARCH PROMOTION

As promised earlier in the season, we are publishing all contributors to the ASHRAE Research Promotion Fund. As of our going to press date, the following contributions have been received:

Golden Gate Chapter	\$8,000.00
Air Filter Control	50.00
Victor Bach	25.00
BWF Consulting Engineers	50.00
California Hydronics	100.00
Robert A. DeChene	25.00
Dinwiddle Construction	200.00
Kevin Dowling	25.00
Eagleson Engineers	50.00
Gayner Engineers	600.00
Glumac and Associates	50.00
Hess, Greiner and Polland	100.00
James Holden	25.00
Carl Jordan	25.00
Kent Lim	25.00
Frederick Kohloss and Assoc.	100.00
R. F. MacDonald Company	35.00
J. W. McClenahan Company	150.00
Jim Nemechek	25.00
Robert Phillips	25.00
Pipe Shields, Inc.	50.00
Polycold Systems, Inc.	100.00
Rodoni Becker	100.00
Syska and Hennessy	100.00
T K and Associates Inc.	50.00
Western Allied Corporation	100.00
Sam Yamoto	100.00
Alice W. Meyer	25.00
Richard R. Hughes	25.00
Edward B. Ward and Company	100.00
J. L. Myers Company	100.00
Kewanee Boiler Corporation	50.00
<b>TOTAL</b>	<b>\$10,585.00</b>

Contributions that were received too late to be counted with last year's campaign but which are credited to this year's campaign are as follows:

Carl Jordan	25.00
Richard Shaw	40.00
Arthur Rosenfeld	10.00
Robert Voelz	50.00

Dale Missimer	50.00
Erlond Jannesson	5.00
William Chapman	25.00
Isaak Mandelbaum	25.00
Alfonso Ortega	10.00
Lyudmila Abolnikov	25.00
Dick Glumac	20.00
Fred Farmer	20.00
Mon Lum	10.00
Joseph Dorey	10.00
Richard Friedman	25.00
Jack Palmer	25.00
Gordon Follette	25.00
Richard Gee	25.00
Thomas White	75.00
Edwin Littsinger	25.00
California Hydronics	100.00
<b>TOTAL</b>	<b>625.00</b>
Grand Total Collected To Date	<u>11,210.00</u>

To date the total of \$11,210 in contributions tops any previous year in the history of the Golden Gate Chapter and the money is still rolling in.

There has been some confusion for which apologies are offered. Several members have written that they have contributed more money than they were credited with in the past five years. This is true and the reason for the confusion lies in the fact that this year the effort was split between co-chairmen Jim Holden and Bob Phillips. Both took on individual members and Jim took on companies and corporations. Jim listed contributions credited to corporations during the last five years in his pitch. Bob did not do this. As a result, some past contributions are credited to individuals rather than companies or corporations. We hope this clears up the confusion. For all

- Continue on Page 4 -

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 30th Floor, Suite 3001  
 1 Market Plaza  
 San Francisco, CA 94106  
 (415) 974-5881

7. The raffle was conducted by Sheryl Almon. Gifts were donated by Peter Hartdegen Co.

8. Speaker Pete Lowenberg from PG&E presented an entertaining and informative program centering on home energy conservation and low cost funding available for conservation measures.

9. Meeting adjourned at 9:10. The next meeting will be October.

U.C. BERKELEY EXTENSION COURSE  
(continued from page 1)

at the U.C. Extension Center, 55 Laguna St., San Francisco, and ends December 19, 1984. Instructors are Robert Braun, Don Bryant and Richard Friedman.

For further information regarding the course and enrollment procedure, please call Continuing Education in Engineering, phone (415) 642-4151, or Don Bryant, phone (415) 584-0765.

\*\*\*\*\*

MEMBERSHIP

Just a reminder: Think about inviting an HVAC industry colleague or a student to join our chapter.

RICH LEAO - MEMBERSHIP

\*\*\*\*\*

CODES

Carl Jordan, as ASHRAE'S liason with the San Francisco Bureau of Building Inspection, has provided the following information on Code Rulings made during 1984 that apply to the 1984 San Francisco Building Code:

ANNOTATIONS:

H = HVAC, P = PLUMBING, F = FIRE PROTECTION, E = ELECTRICAL, G = GENERAL.

BC-105-1 (G): APPROVAL PROCEDURE FOR ALTERNATE MATERIALS OF CONSTRUCTION.

BC-105-2 (G): APPROVED MATERIALS DESIGNATED ON PLANS AND/OR SPECS.

BC-203(a)-1 (G): VACANT BUILDINGS - CODE RULING DEFINING ABANDONMENT.

BC-302(c)-2 (G): IDENTIFICATION OF REVISIONS ON PAGES OF DRAWINGS.

BC-312-1 (G): PROCEDURES FOR ASSIGNING STREET NUMBERS.

BC-507(c)-1 (G): MEASUREMENT OF HEIGHT OF BUILDING.

BC-1210(a)-1 (E): SMOKE DETECTION AND ALARM SYSTEM AND HEAT DETECTORS.

BC-1804(b)-1 (H,P,F,E): LIVE/WORK QUARTERS.

BC-3304(g)-1 (G): EXIT CORRIDOR CONSTRUCTION REQUIREMENTS. CONCEPT OF PUBLIC AND PRIVATE CORRIDORS IN B-2 OCCUPANCIES WITHIN LIFE SAFETY BUILDINGS.

BC-3305(u)-1 (G): USE OF FIRE ESCAPES TO REDUCE EXCESSIVE TRAVEL DISTANCES.

BC-3401-1 (G): USE OF LAMINATED GLASS IN SKYLIGHTS.

BC-3802(b)-1 (F): SPRINKLER HEAD REQUIREMENTS IN GARBAGE CHUTES.

BC-4302(a)-1 (G): ANALYTICAL METHODS FOR FIREPROOFING STRUCTURAL MEMBERS.

BC-4302(a)-2 (G): ONE-HOUR PIPE COLUMNS.

BC-4303(b)-1 (G): ONE-HOUR ASSEMBLIES.

BC-4305(b)-1 (E): "SLAB PENETRATIONS" EXISTING BUILDINGS.

POSITIONS AVAILABLE

Sales Engineer - S.F. General Building & Mechanical Contractor seeks person with experience in Design, Estimating and Sales of HVAC systems. Excellent position with benefits and future growth with a diversified company involved in energy retrofit, power plants, general construction and alteration work. C.S. Hardeman, Inc. - 982-3100.

Engineer - HVAC - Design/Build Mechanical Contractor needs engineer type with 3 to 5 years experience in the design of medium to large tonnage commercial HVAC systems. Only individuals with HVAC experience need apply. Send resume to or call: Val Tatasciore, Linford Engineering Co., P.O. Box 449, Oakland, CA 94604, (415) 834-2437

Engineer - HVAC - San Jose based Design/Build Mechanical Contractor seeks experienced HVAC engineer. Projects include office buildings, clean rooms, toxic exhaust systems and other commercial industrial projects. Permanent position with young, growing company. Full benefit package included. Send resume to: Steve Murphy, ICOM Mechanical Inc., 571 North 7th St., San Jose CA 95125

Inside Sales Engineer - Person experienced in HVAC needed for estimating, applications and sales. Contact Gerry Yaffe at Tempco Equipment Co., Inc., (415) 467-8680



VOLUME XXIV NO. 1

OCTOBER 1984

MEETING NOTICE

DATE: October 4, 1984

TIME: 5:30 - 6:30 PM Social Hour/  
Pre-meeting\*  
6:30 PM - Dinner/Meeting

LOCATION: Engineers Club  
160 Sansome Street  
16th Floor  
San Francisco, CA

(415) 421-3184

\* Pre-meeting seminar: DYNAFUSER - thermally powered VAV terminal application presented by Bob Noll, patent holder of Dynafuser concept and President of Dynafuser manufacturer Progressive Air Products, Inc.

HONOR ROLL

Tempco Equipment Co., Inc.  
100 Northhill Dr., #12  
Brisbane, CA 94005  
(415) 467-8680

Gerry Yaffe  
Sherman Brown  
Chuck Shane  
Roy Skover  
Lance Almon  
Jon Hillegeist (Sacramento Office)

OCTOBER PROGRAM - TITLE 24

Welcome back! We hope to continue our past record of good programs. Our first one is a presentation on Title 24 pertaining to commercial buildings. Mr. Bruce Maeda from the Conservation Division of the California Energy Commission will be our guest speaker. We hope to see you there.

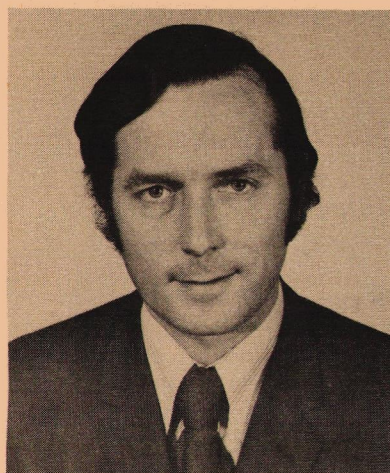
U.C. BERKELEY EXTENSION TO OFFER FALL COURSE IN HVAC&R

University of California Extension will offer a course this fall in Design Considerations in Air Conditioning and Heating Systems (X472). This course is one of the four in the HVAC&R Curriculum developed by U. C. Extension and Golden Gate Chapter. The courses do not have to be taken in sequence.

The course will include design techniques of air conditioning and heating systems. Emphasis is on the selection of basic systems, evaluation of the application and an analysis of the variable factors to meet the requirements for buildings and areas. Also, the course includes discussion of control systems for energy and operational requirements.

The course will begin on Wednesday, October 17, from 7 to 10 pm (continued on page 4)

PRESIDENT'S CORNER



and you'll be hearing a lot more about this as the time approaches. Alan Moyal and Don Bryant are working on next year's seminar and would welcome any suggestions you may have for a topic.

A new ASHRAE Chapter was opened in Stockton last month known as the Sierra Chapter. The board sent a congratulatory telegram to the new President, Mr. Alex Scheflo.

The Engineers Club has advised the board that in order to offset escalating labor and food expenses the cost of a dinner at the club for Society meetings will now be \$15.50.

Alternative locations for our meetings have been investigated in the past but none offered the facilities of the club such as central location, bar and meeting room for a comparable price. Please be sure to return your dinner reservation card or call the club if you decide to come at the last minute in order to avoid past problems.

Society will be conducting a series of Professional Development services throughout the country on various topics in October and November and you should have received an announcement by now on the details. If you attend any of these seminars be sure to let someone on the board know as the Chapter has a quota of three to fill and if any more than that attend the Chapter will receive money from Society.

Well it's time to get started on a new year of Golden Gate Chapter meetings and it promises to be a very good one. Seems like just a few weeks ago that we started off last year - how the time flies when you are having so much fun in the air conditioning business.

The board has been active during the summer and the committee chairmen are organizing their committees. I'd like to thank all of you who have volunteered to serve on the various committees and if you have not signed up for one yet please feel free to do so. The success of ASHRAE depends entirely on the efforts of each individual member such as you and me.

Tom White and his committees are busily working to organize the 1986 semi-annual meeting in San Francisco

COPY DEADLINE

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Dave Rifkin.....Secretary  
Dart Rinefort.....Treasurer

Board of Directors

Jim Taylor  
Sherman Brown  
Gino Colacchia

PRESIDENT'S CORNER, CONT.

Enclosed with this Fog Dispenser is a questionnaire on needed research in ASHRAE which Society developed. This is an excellent opportunity to influence research programs and published data in the Handbook. Please return the questionnaire to me by November 1st so I can pass it on to Society.

Finally, ASHRAE President Bob McDonald has selected "Professional Excellence - Building the Future" as his theme for this year. He asks each member to get involved and strive for excellence in every activity in ASHRAE as a means of promoting the Society and shaping its future. Please do whatever you can to achieve that goal.

I'm looking forward to seeing you all at the October 4th meeting for another successful year for the Golden Gate Chapter.

KEVIN DOWLING  
PRESIDENT

\*\*\*\*\*

TREASURER'S REPORT

Total Assets: \$12,371.31  
Total Liabilities: \$ 395.00  
Membership Equity: \$11,976.31

The Golf Tournament was profitable and the proceeds have been put into a special account with interest earmarked for scholarships.

DART RINEFORT  
TREASURER

\*\*\*\*\*

MINUTES OF LAST MEETING

June 7, 1984

Attendance: 55 Members  
35 Guests

1. Meeting called to order 7:15 at Engineers Club by President Jim Taylor who called for self-introductions. It was a pleasure to see many of the Past Presidents and their wives.

2. Jim Taylor introduced Dick Charles as the new Region X chairman.

3. Tom White announced his '86 semi-annual meeting committee chairmen:  
Jim Taylor - tours & transportation  
Carl Jordan - entertainment  
Dick Glumac - sessions chairman  
Jim Holden - reception committee  
Jack Palmer - finance

4. Don Bryant talked about the UC Extension course in HVAC. Golden Gate members Don Bryant, Bob Braun & Dick Friedman were instructors and Gene Valerio, Kim Schneider and Al Scavino were guest lecturers. Don awarded certificates to the following seven graduates:  
Lal Chand - International Engr. Co.  
Carl Lee Conrad - Fairchild Test Syst.  
Walter B. Doll - Milton Meyer  
Joseph M. Dorey - Nova Systems  
Wayne Huie - Linford Engr. Co.  
Emmanuel T. Ilarina - H.K. Ferguson  
Robert Stutz - Chin & Hensolt Engrs.

5. Certificates of appreciation for work well done this year were awarded to:

Ted Stalzer - reception  
Lucy Santos - reception  
Bill Chapman - roster  
Bruce Montgomery - scholarship  
Don Bryant - seminar  
Alan Moyal - seminar  
Jack Kniveton - tennis  
Jim Holden - research promotion  
Bob Phillips - research promotion  
John Lewis - audit  
Glen Claycomb - code  
Tom Reinarts - Engineers' joint council

Steve Taylor - energy conservation  
Gary Harbison - education  
Barbara Dilts - Fog Dispenser  
Rich Leao - membership  
Dave Rifkin - ASHRAE/ASPE show  
Bob Hussey - golf  
Tom White - historian  
Phil Williams - publicity  
Gino Colacchia - honor roll  
Sheryl Almon - raffle

6. The new board was introduced and incoming President Kevin Dowling presented President Jim Taylor with a well-deserved President's pin.

ASHRAE RESEARCH PROMOTION

(CONTINUED FROM PAGE 1)

Nevada with \$3,470.00 for 74 members or \$46.89 per member.

Per the declared intention of this committee to publish all contributors, we take this opportunity to list the final ones not noted in the June 1984 FOG DISPENSER:

5/8/84 Charles Hardeman	\$ 50
5/31/84 Montgomery & Roberts	\$100
5/31/84 Allied Air Products	\$100
6/12/84 RMR Associates	\$ 50

For the coming year, Barbara Dilts and I will be the Co-Chairs of the ASHRAE Research Promotion Committee for the Golden Gate Chapter.

JIM HOLDEN, CO-CHAIR

BUILDING CODE INFORMATION

Last month, Carl Jordan provided a list of S.F. Code rulings made during 1984 which apply to the new 1984 Code. The following information will clarify some of the rulings that were listed in the October issue:

BC-1210(a)-1 deals with smoke and fire detection in certain buildings having five or more dwelling units and six or more guest rooms.

BC-1804(b)-1 deals with the conversion of commercial and industrial buildings to joint living and work quarters for artists, artisans, etc.

BC-3802(b)-1 deals with sprinkler head requirements in garbage chutes.

BC-4305(b)-1 deals with slab penetrations by electrical and telephone conductors and conduits.

Further, since the October issue, the following new rulings have been made:

BC-5602-1: "Special Inspection for Demolition Work. Duties of the Special Inspector". The work covered here relates to architects and/or civil engineers.

BC-302(b)-2 concerns professional signatures, stamps and P.E. members.

RAFFLE

Thanks to Norman S. Wright Equipment Co. for sponsoring the Raffle prizes. Also, thanks to the members for participating in raising funds for Scholarships.

Raffle sponsors are always welcome; contact Sheryl Almon at 974-5881.

MEMBERSHIP

As always, promote ASHRAE and generate new members. Contact Rich Leao, Membership Chairman for applications (777-5333).

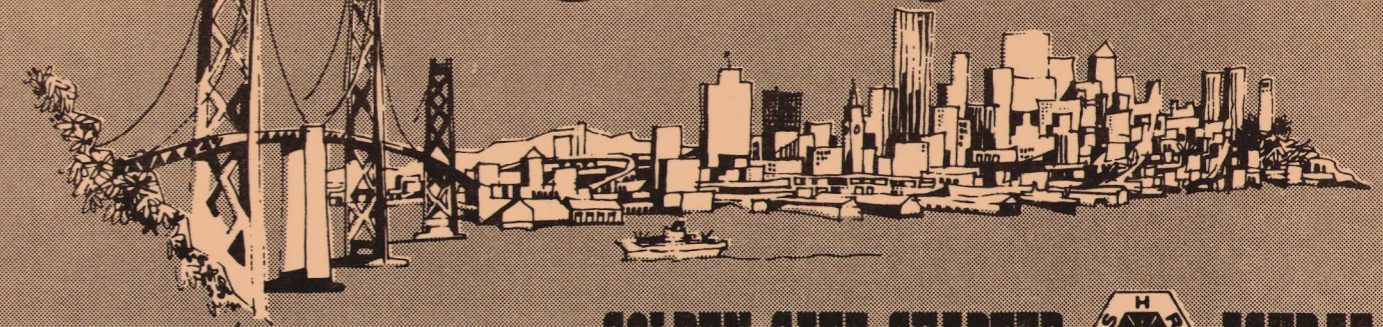
TENNIS

Is anyone interested in a winter ASHRAE tennis tournament? If so please contact Jack Kniveton (777-5333) or Lance Almon (467-8680).

POSITIONS AVAILABLE

Inside Sales Engineer - Person experienced in HVAC needed for estimating, applications and sales. Contact Gerry Yaffe at Tempco Equipment Co., Inc., (415) 467-8680

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIV NO. 2

NOVEMBER 1984

MEETING NOTICE

DATE: NOVEMBER 1, 1984

TIME: 5:30 - 6:30 PM SOCIAL HOUR  
6:30 - Dinner/Meeting

LOCATION: Engineers' Club  
160 Sansome St., 16th Floor  
S.F., CA (415) 421-3184

ANNUAL CAL POLY NIGHT

The November meeting will be our annual Cal Poly night where we host students for dinner. This has always been a worthwhile event for the chapter and it has given the students a chance to meet some of us grizzled veterans.

There will be an opportunity at the door to sponsor a student by purchasing an extra dinner ticket and giving it to a student. They, and we, would appreciate your generosity.

HONOR ROLL

ALLIED AIR PRODUCTS CO., INC.  
One Annabel Lane  
San Ramon, CA 94583  
(415) 838-7111

Brian Jerich  
Don Tarnoff  
Chuck Tarnoff

NOVEMBER PROGRAM

November's topic should be an interesting one for all of us. It is "Speed Control of Fans and Pumps using AC Inverters". The speaker will be Mr. Mike Ayers from Toshiba. It will be a good opportunity to learn more about this application. Hope to see you all there.

ASHRAE RESEARCH PROMOTION

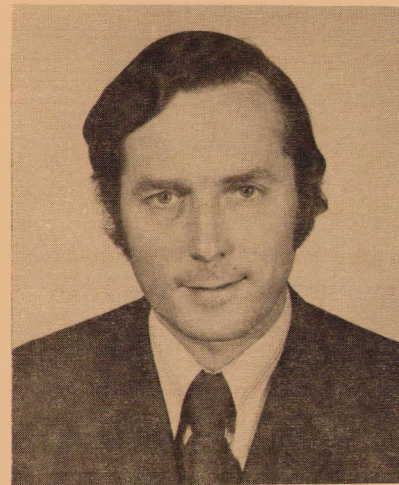
Before commencing on the 1984-85 season for ASHRAE Research, it is only fitting and proper that we conclude the last fiscal year's business by reporting the final total amount of contributions from the Golden Gate Chapter for ASHRAE Research. The final amount contributed by members, associated businesses and Chapter totaled \$11,623.00 - an all time high for Golden Gate Chapter!

Our chapter was assigned 621 members. Our goal for this year was \$10,000.00 or \$16.10 per assigned member. Our total contribution of \$11,623.00 averaged out to \$18.72 per member.

In Region X we were second to Los Angeles which contributed \$18,152.00 or \$22.38 per member. However, the highest per member contribution came from Southern

(CONTINUED ON PAGE 4)

PRESIDENT'S COLUMN



The October meeting was very well attended and was a great start to the new year. It was a pleasure to see some of our longstanding members there including Karl Guttman, Bob MacDonald and Herb Duncan who received their Life Membership certificates. Let's hope the rest of us receive one some day.

November is the meeting when we welcome the students and faculty from Cal Poly. I'd like to remind all the students (not only those from Cal Poly) of the student prizes available for papers submitted to ASHRAE. The winner will receive \$500 in cash plus travel expenses to the National ASHRAE meeting to receive the prize so it is well worth the effort to enter the competition. Gary Harbison, our Education Committee Chairman, has all the details. The board would

appreciate members sponsoring a dinner for the students at the November meeting. There will be someone at the door to collect the extra tickets for the students.

Student members should also be aware of the fact that Golden Gate Chapter pays half of the price of the dinner for any student member at any of our meetings throughout the year.

January will be membership night and the board would like every member to try to bring one potential new member to the January 3rd meeting and to encourage all local members you know to attend the meeting. Jim Nemechek has a very good program arranged which should be of interest to everyone in the air conditioning business.

Many of our members have submitted their Golden Gate Chapter dues already and the deadline is November 1st to be included in the Roster. If you have not done so already, be sure to get your dues in by November 1st so our Roster is up to date for 1984-85.

MINUTES OF LAST MEETING

October 4, 1984

Attendance: 86 members, 23 guests

1. Kevin Dowling called the general membership meeting to order at 7:30 PM. Self introductions followed.

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4/4/85	3/14/85
5/2/85	4/12/85
6/6/85	5/15/85

2. June 7 meeting minutes were approved.

3. Life member awards were given to Herb Duncan, Karl Guttman and Robert MacDonald.

4. Tom Campbell announced that the code committee was working on code changes in the UBC chapter on Smoke Management. The effort is to get the changes into good code language.

5. Rich Mayer of PGandE reported there is a District Heating and Cooling Symposium at the Ramada Inn in Wash., D.C. Nov. 19 and 20. HUD has approved a grant to study District Cooling in San Francisco.

6. Sherman Brown, Board member and pre-meeting workshop chairman invited presenters for the pre-meeting workshop. Interested members or speakers call Sherman Brown at 467-8680.

7. Tom Judson, Roster Chairman, urged all members to pay their dues in order to be included in the new Roster. Lucy Santos and Ted Stalzer are assisting with the Roster.

8. Carl Jordan, plan code ASHRAE liaison chairman, announced that if you have any questions about code rulings or administrative bulletins, call Carl or Bob Levy (at SF DPW) to see if you are affected by code ruling changes. 1984 S.F. Code adopts the 1979 UBC with certain modifications; for interpretation, call the Bldg. Dept. Old code is in effect provided site permit was issued prior to enactment of new code.

9. Dick Charles, Region X director, announced "Greetings from Headquarters, Bob McDonald, ASHRAE President and Staff". Dick also announced that a new chapter has been chartered in Stockton called "Sierra Delta Chapter"; Alex Scheflo is the

Chapter president. Golden Gate Chapter placed # 80 out of 140 chapters, missed the PACE by a few points. CRC will be held in Carefree, AZ in the Spring of 1985; Phoenix chapter will host; the dates will be May 16, 17 and 18. The winter meeting will be held in Chicago in January; this is the joint show/meeting with ARI being held at McCormick Place in the Windy City. The summer meeting will be held in Hawaii, June 23 to 26 at the Sheraton Waikiki.

Dick reported there are 10,000 students in the Society and a new student chapter was just started at the Univ. of Arizona.

10. Kevin Dowling said, "Send in your dinner reservation cards to make sure there is adequate food".

11. Sheryl Almon conducted the raffle; champagne and smoked oysters were donated by Norman S. Wright Equipment Co. The winners were Chuck Shane, Max Wolff and Jack Palmer.

12. Jim Nemechek introduced the guest speaker, Bruce Maeda of the California Energy Commission. Maeda discussed goals, program objectives, policy direction and went through an overview of standards. Questions and answers were invited. There were many sections discussed and too numerous to transcribe. Contact the CEC for standards book which will provide information as to effective dates. The residential manual is soon to be released, probably by the end of 1984.

13. Meeting adjourned at 9:18 PM.

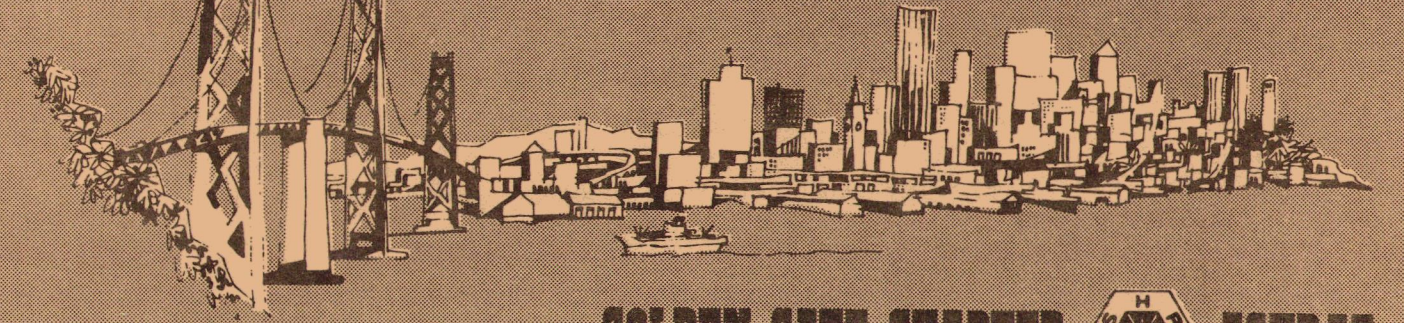
DAVE RIFKIN, SECRETARY

TREASURER'S REPORT

Total Assets: \$12,790.85  
Total Liabilities: \$ 395.00  
Equity: \$12,395.85

DART RINEFORT, TREASURER

# Fog Dispenser



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIV NO. 3

DECEMBER 1984

## MEETING NOTICE

DATE: DECEMBER 6, 1984

TIME: 5:30 - 6:30 PM SOCIAL HOUR &  
PRE-MEETING WORKSHOP  
6:30 - DINNER/MEETING

LOCATION: Engineers' Club  
160 Sansome St., 16th Floor  
S.F., CA (415) 421-3184

## PRE-MEETING WORKSHOP TOPIC

Today's energy efficient variable air volume system needs today's advanced digital control technology for optimum performance.

Explore Zone Level DDC, closed loop communicating zone microprocessor control with Staefa Control System Inc.

## HONOR ROLL

NORMAN S. WRIGHT CO.  
850 Harrison St.  
San Francisco, CA 94107  
(415) 777-5333

Jack Kniveton  
Rich Leao  
Dick Byers  
Jim Plakos

Mike Cadoo  
Wendy Ferreira  
Ed Kubein  
Tim Provo

## DECEMBER PROGRAM

Our December program will feature speakers from Dealy Renton and Associates which is one of the most respected firms in their field. They will speak on "Liability Insurance for Consulting Engineers and Contractors". In today's business climate, insurance is a necessity so this topic should be of great interest. We are looking forward to seeing you there.

## DINNER RESERVATIONS

Dinner reservations are a perennial problem for our meetings. We ask your cooperation in returning the dinner reservation cards. If you can't send in the card or if you have to cancel, please take the short time necessary to phone the Engineers' Club at (415) 421-3184 and advise them. An accurate advance dinner count helps them serve us better.

## ASHRAE Research Promotion

In the hopes of stimulating some interest in the ASHRAE Research promotion, I would like to report some facts from our last Society year.

Could you believe last year's two greatest contributors to ASHRAE Research were Carrier Corp. and \*continued on page 3.

PRESIDENT'S COLUMN



to cancel it. We broke the record last month and had 132 reservations but only 115 attended so the Chapter has to foot the bill for the extra dinners which were prepared.

The Chapter has in its possession a video tape of ASHRAE goals which were prepared by the Society for educational purposes. This is an excellent tape and Sherman Brown will show the tape at a workshop before the January meeting, which is membership night.

See you at the December 6th meeting when Nigel Renton will have some invaluable information for all of us on legal and insurance matters.

Kevin F. Dowling, President

The November meeting was very successful and it was nice to have Mr. Rod Keith and the students from Cal Poly attend on their annual field trip to the Bay Area.

Alan Moyal and the Seminar Committee are well along with plans for next year's seminar. It will be a full day seminar again similar to last year's and the topic will be "Building Code Update" including high rise life safety regulations and Title 24 non-residential building standards. This promises to be another excellent seminar and Alan will have the details shortly.

Be sure to send in your reservation cards or call the Engineers' Club if you are coming to the monthly meetings, and if you make a reservation and can't attend, be sure

MINUTES OF LAST MEETING

- 1. Meeting called to order by Kevin Dowling, self introductions of members and students followed.
2. Minutes were approved without correction.
3. Code Committee - Glen Claycomb reported on a new chapter on Smoke Management Code which will be introduced into the UBC, Members of the committee are working diligently to be included in the 1985 edition.
4. No old business.

5. Ted Stalzer announced the deadline on dues was Nov. 1 in order to be included in the roster.

6. Raffle chairperson, Sheryl Almon, conducted the raffle. Donations of salami and wine were provided by Air Filter/Control Inc. Great items won by some lucky members.

7. Jim Nemechek introduced the guest speaker, Mike Ayers, project manager for Toshiba Corp., speaking on AC inverters for HVAC equipment. He introduced the fundamentals of AC inverters as related to NEMA "B" motors and discussed the development of the devices to serve the industrial motor users with variable speed performance. Questions and answers followed the projector presentation.

8. Meeting adjourned at 9:20 PM.

ASHRAE Research Promotion, continued from page 1.

Honeywell with matching contributions of \$10,000 each. The #3 contributor was Golden Gate Chapter with a contribution of \$8,000. This is quite a feather in our cap and has given our Chapter a lot of attention.

Basically what this means is that our Chapter does a superior job of raising money through Chapter activities. Maybe the best in the Society. On the other side of this coin, however, our Chapter is not high in per member contributions. This is due to two facts. Number one, last year we were assessed 620 members which represents all the people who joined ASHRAE Society in our area although we had only 340 Chapters members at the time the roster went to press. Not many of the members of Society who are not members of our chapter contribute to ASHRAE Research. As a result, we had to divide our total contributions by 620 assigned members, which did not

give us a very high per member contribution. The second reason for low per member contributions is because we do not raise as much money through contributions as our fellow chapters. Last year we raised \$3,623 above the Chapter donation of \$8,000. Dividing this by 340 Chapter members gives us an average contribution of \$10.66 per member. This is very low by Society standards.

Hopefully this year Barbara Dilts and I will be able to shake loose a few more dollars than previous efforts netted. We ask your cooperation in this effort.

James M. Holden
Co-Chairperson

RAFFLE SPONSOR

Thanks are in owed to Air Filter/Control Inc. for providing the prizes for the November meeting's Scholarship Raffle.

Sponsors are always welcome - come on and take a chance that there will so much spare space in the Fog Dispenser that YOUR 'Thank You' column will be as prominent as this one!

Call me at 974-5881 if you are interested in sponsoring the raffle.

Sheryl Almon

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