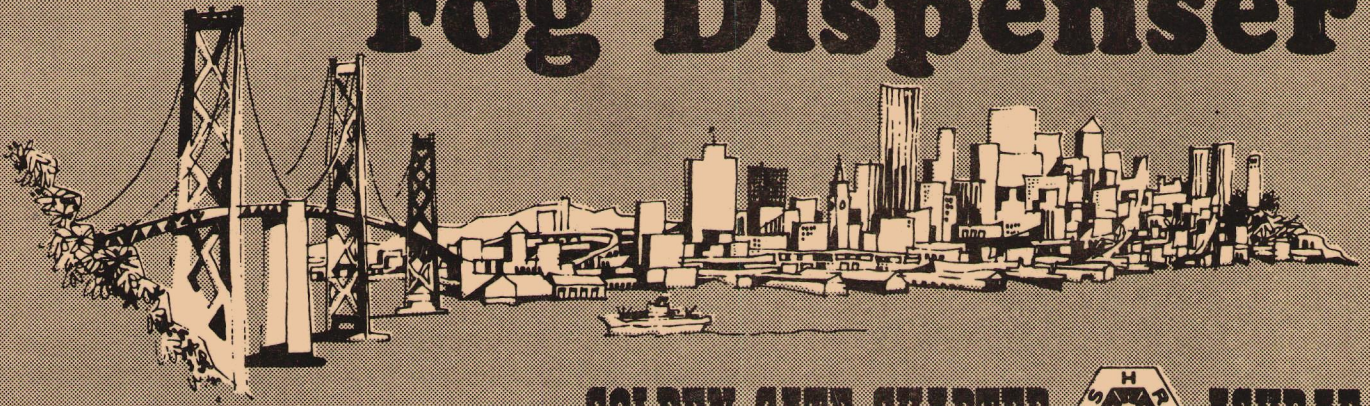


# Fog Dispenser



GOLDEN GATE CHAPTER  ASERAE

VOLUME XXI NO. 7

JUNE 1982

## MEETING NOTICE

DATE: JUNE 3, 1982  
TIME: 5:30 - 6:30 Social Hour  
6:30 - Dinner / Meeting  
LOCATION: ENGINEERS CLUB  
180 Sansome, 16th Flr  
San Francisco

## PROGRAM

"Annual Past Presidents' & Spouses' Night"

Bring your spouse and have an enjoyable evening at our annual end-of-the-year program...

Our guest speaker for the evening will be Mr. David Schwoegler, coordinator of PG & E's Speakers' Bureau. The topic of his presentation will be "Challenge of Change".

## HONOR ROLL

HESS, GREINER & POLLAND  
800 South Claremont St.  
San Mateo, CA 94402  
Phone: (415) 348-0555

Manager - Wilfred Gee

Sales Engineers- Robert Roach  
Hank Shastany  
Ross Bianchette

Inside Sales- Tom Lew  
Jerry Gogas  
Nipat Boonyasnguan  
Kevin Joe

PRESIDENT'S COLUMN

Over 200 members and guests were escorted thru the Moscone Convention Center on May 6th on an ASHRAE guided tour thru the courtesy of Mr. Joseph McNamara, Chief Engineer for the Center, and his staff. We are greatly indebted to the City and to Mr. McNamara for handling such an unexpectedly large group after normal working hours and with the security problems associated with exhibitors in the process of cleaning up following an earlier show.

We have received notification that Golden Gate Chapter member Warren Blazier has been awarded ASHRAE's "Crosby Field Award" for the best paper presented before a Technical Session or Symposium and as the best paper published by the Society in 1981. The title of the paper was "Revised Noise Criteria for Design and Rating of HVAC Systems". In addition, Mr. Blazier's other paper entitled "Noise Rating of Variable Air Volume Terminal Devices" was also among the top 4 for 1981.

It was the concensus of the Board of Directors at their April 5th Board meeting to propose Golden Gate Chapter members Carl Jordan, Richard Charles and Eugene Valerio to become "Fellows" in the Society.

Although it is several years in the future, the Board has asked Thomas White and Eugene Valerio to become chairman and vice-chairman, respectively, of the 1986 Society semi-annual meeting planned for San Francisco.

Inasmuch as my term of office as Chapter President will end shortly, I wish to take this opportunity to give my thanks to those many very generous fellow members who so kindly offered to serve on Chapter Committees this past year, plus all others who have pitched in to help our many annual chapter events. Thank you all very much!

Bob Phillips  
President

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NOTICE

Effective May 1, 1982, minimum dinner price will be \$12.25.

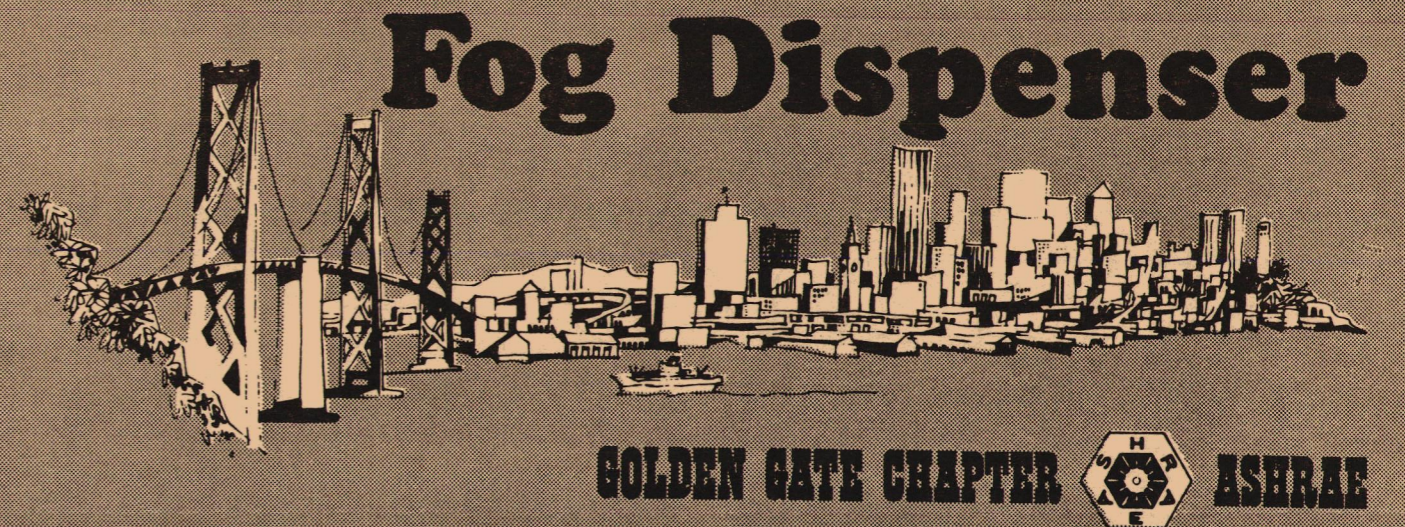
Recent Contract signing with the Hotel & Restaurant Employees Union, stipulates that 75¢ gratuity on each meal served be given directly to the employee. This necessary increase is strictly for the employee and will not reflect in the Club revenues at all.

Dinner at this new price will still include: Salad, Entree with Vegetable, Dessert, Bread & Butter and choice of Beverage.

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DON'T PASS UP YOUR LAST CHANCE... bring a donation for the Scholarship fund to the June meeting.

**HAPPY  
HOLIDAYS**



VOLUME XXI NO. 3

JANUARY 1982

MEETING NOTICE

PROGRAM

DATE: January 7, 1982  
TIME: 5:30 - 6:30 Social Hour  
6:30 Dinner / Meeting  
LOCATION: Engineers Club  
180 Sansome St., 16th Floor  
San Francisco

"THE USE OF MICRO-COMPUTERS IN HVAC DESIGN AND ENGINEERING". John Staples, Marketing Systems Development Manager of Carrier Air Conditioning Company, will give us an update on micro-computers and how they impact our business.

John promises to begin with fundamentals and tell us what a micro-computer is, its' capabilities, and how it operates. We'll hear how to program it to produce duct design, load estimating and cost analysis.

HONOR ROLL

ENGINEERED DATA ENVIRONMENTS, INC.  
1341-D Galaxy Court  
Concord, Ca 94520  
Phone: (415) 676-7476

Steven F. Sabol, PE  
Randall C. Mac Cleary, PE  
Dave Lichtenhan  
Frank Beering  
Al Polak

PRESIDENT'S COLUMN

Our Roster Committee chairman, Kamal Moinzadah, has just completed assembling and updating our 1982 roster which is now in the process of being published. This year our chapter's bylaws will be included in the roster as was done last in 1975.

Richard Gee, co-chairman of our Membership Committee, has been looking into the manner in which we bring new members into our chapter from the heating, refrigerating and air conditioning profession. Richard's conclusion is that there are many steps which need to be taken if we are to truly represent the industry.

Unfortunately, there are many society members in the Bay Area who we haven't contacted to invite to join us for our monthly dinner-meetings. Perhaps you may know of some members whom we can invite to join us. Richard has found that there are many professionals in the teaching, sales, building management, and construction fields that we could try to introduce to our chapter in addition to those of us in engineering. Another area in which we need to improve is that of inviting young engineers, new citizens, and minorities to join us.

Dick Gee, with his committee, will be trying to help us bring some of these future leaders in our profession into our active chapter. Won't you lend a hand?

Bob Phillips  
President

MINUTES OF LAST MEETING

December 3, 1981  
Attendance: 75 Members  
27 Guests

- The meeting was called to order by President Robert Phillips at the San Francisco Engineers Club at 7:28. Self introduction of members and guests followed.
- The minutes of the November 5, 1981 meeting were approved as published in the December Fog Dispenser.
- Don Bryant relayed a request to the chapter for questions for the National Professionals Exam. The preparers of the test pay \$50 for each question used.
- Grant Bentley reported on the upcoming seminar scheduled for March 16, 23, 30, and April 6. The seminar will be held at the PG & E auditorium. Topics for the four sessions will be: a) Economizers; Wet and Dry b) Variable Air Volume Systems; Design and Service c) Seismic d) Life Cycle Costing and Value Engineering.
- Past President Richard Charles announced that it has been preliminarily reported that of the 5 categories in the National Energy Award Program, Region X has won 3 first places. The local firm of Syska & Hennessy, Inc. received one of the firsts. Dick also reported a scheduled publication date of April 1 for the Temperature Data Book.
- Pete Filios announced the golf tournament is scheduled for April 16. The tennis committee was requested to find another date this year.

...continued p.3...

- NOTICE -

Continuing Education in Engineering, U.C. Berkeley Extension, will offer the following course:

Design Consideration in Air Conditioning and Heating Systems; X472 (2) Mechanical Engineering

Emphasis on selection of basic systems, evaluation of the application and analysis of the variable factors to meet requirements for buildings or areas, selection of components, energy requirements, and control systems.

FACULTY

D.C. Bryant, Sr., M.S., Emeritus Faculty, Engineering Department, City College of San Francisco, and ASHRAE Fellow; Robert Braun, B.S.M.E., Vice President Charles & Braun Consulting Engineers, San Francisco; Richard Friedman, B.M.E, President Engineered Air Systems, Inc., Richmond, and ASHRAE Fellow.

8 sessions; Feb. 1 to Apr. 5, Monday 7 - 8:30 PM, Richardson Hall, UC Extension Center, 55 Laguna St. (off Market), San Francisco. \$100 (edp 303222)

This course is one in a series of four in Air Conditioning, Heating and Refrigeration. On successful completion of the series a Certificate of Accomplishment may be earned, from the Golden Gate Chapter, ASHRAE, to acknowledge your professional development through continuing education.

For further information call either UC Extension (415) 642-4151 or D.C. Bryant, Sr. (415) 584-0765.

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- I T E M - I T E M - I T E M - I T E M -

Antony Kovic, of Glumac & Associates, has notified us that a printing error occurred in the new (1981) ASHRAE FUNDAMENTALS...

Table 11A, pp. 26.19 - 26.20, Chap. 26 should be titled "MAXIMUM" Solar Heat Gain Factor BTU / H·SQ.FT. For Sunlit Windows, not "MINIMUM" Solar Heat...

Thanks are in order for Antony!

MINUTES FROM LAST MEETING

...continued...

7. Past President Tom White requested that the June meeting be changed to be Past Presidents' and Wives' Night, with an appropriate speaker. The program chairman indicated he would take this up with the Board. The June meeting is the official business meeting of the Corporation.

8. The meeting was recessed until 8:09 when Dick Hughes conducted the raffle.

9. President Elect Tom Campbell introduced the speakers for the evening: Past President Carl Jordan spoke on the Title 24 Energy Budget permit process as it relates to San Francisco; Past President Tom Gilbertson gave an update to his waterside economizer project in Seattle; Frank Mayhew brought sample energy profiles for a Macy's store and showed how the building engineer had been able to reduce his electrical usage by monitoring the demands; Past President Tom Simonson offered some insights into the intent of the committee which drafted Title 24. The intention that the document be a building standard has been modified by the enforcing authorities into making it an occupancy and usage standard. Tom then went on to describe the 4 million gallon chilled water storage facility at Stanford and the application of an airside economizer to the Stanford computer facility.

10. Following a question and answer session, the meeting was adjourned by Tom Campbell at 9:49 PM.

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BELIEVE IT OR NOT...

...the McLellan Micromotor was developed in 1960 and was rated at one-millionth horsepower. The motor weighed 250 micrograms and had 13 parts assembled under a 40-power microscope. The inventor, William H. McLellan, felt at the time that his device was good for powering flea circus carousels, but the availability of such technology allows one to indulge in some flights of fancy...

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
Dec. 3, 1981	Nov. 11, 1981
Jan. 7, 1982	Dec. 11, 1981
Feb. 4, 1982	Jan. 13, 1982
March 4, 1982	Feb. 10, 1982
April 1, 1982	March 10, 1982
May—Social	April 14, 1982
June 3, 1982	May 12, 1982

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Thomas Campbell .. President-Elect  
James Taylor..... Secretary  
Kevin Dowling..... Treasurer

BOARD OF DIRECTORS

James Nemechek  
David Rifkin  
James Holden

MAIL OR PHONE NEWS TO:

Rich Wells, Editor  
925 Kearny Street  
El Cerrito, CA 94530  
(415) 524-1477



VOLUME XXI NO. 4

FEBRUARY 1982

MEETING NOTICE

DATE: February 5, 1982

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

LOCATION: ENGINEERS CLUB  
16th Floor  
180 Sansome St.  
San Francisco

PROGRAM

"WILL SOLAR SYSTEMS REPLACE MECHANICAL HEATING & COOLING SYSTEMS?"

You will enjoy the discussion by Mr. Tom Javits, of the Golden Gate Energy Center, and our own Mr. G.L. Gendler at the February meeting.

Tom will describe the plans to retrofit twelve WW II barracks at Fort Cronkhite with various active and passive solar systems and monitor their performance.

Gus, who has a keen interest in solar energy, will introduce Tom and will lead the discussion after the presentation.

**HONOR ROLL**

CLYDE EQUIPMENT CO., INC.  
920 Grayson St.  
Berkeley, Ca. 94710  
Phone: (415) 845-6130

Clyde Wilson-Reid  
Tom Conroy  
Richard Lope

PRESIDENT'S COLUMN

Mark down Wednesday, March 10th, on your calendar to come and visit the Product Show to be held at Fort Mason's Pier #3 in San Francisco. No charge for admission! Hours will be Noon to 9 PM.

This show is being jointly sponsored by the San Francisco chapter of the American Society of Plumbing Engineers and our Golden Gate Chapter of ASHRAE. Our prime interest is to raise funds for the ASHRAE Research Fund and for donations made annually to educational organizations such as the Cal Poly Workship program. Dave Rifkin, Bob Roach, and Jim VanBuskirk are heading up our committee and are busy working with ASPE's committee in making arrangements, soliciting exhibitors, and working out the details.

The exhibit area will be 15,000 - 20,000 square feet of floor space. Parking is plentiful, and free. Best of all, from the exhibitors' standpoint, is the fact that there are no craft unions involved which has created problems at local product shows in the past.

Many of us spend our time in the office using manufacturer's catalogs which depict, with varying degree of detail, their products. However, what an eye-opener it is many times to move into the real world and get a close look at what we've been specifying in the air conditioning, heating, refrigeration, ventilation, piping and plumbing fields.

This is a hands-on type show which can be very beneficial to all members.

Bob Phillips - President

MINUTES OF LAST MEETING

January 7, 1982
Attendance: 81 Members
30 Guests

- 1. The meeting was called to order by President Bob Phillips at 7:30 PM at the San Francisco Engineers Club. Self introduction followed.
2. Dave Rifkin reported on the ASHRAE/ASPE Table Top Show scheduled for March 10, 1982. The committee is requesting that vendors planning to participate have their applications in by January 29th.
3. Sherman Brown, Research Promotion Chairman, outlined his program for the spring. Members and companies were encouraged to support the project as well as they did last year.
4. Dick Hughes conducted the raffle for the Cal Poly scholarship fund following the break.
5. Tom Campbell introduced the speaker for the evening. Mr. John Staple of Carrier Syracuse N.Y. presented a talk on the application of microcomputers to the HVAC industry. Following a question and answer period, the meeting was adjourned at 9:10 p.m.

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- I T E M - I T E M - I T E M - I T E M -

Dick Glumac was appointed to the Board of Examiners of the City and County of San Francisco. He will be replacing Gus Gendler who is retiring from his post as Mechanical Engineer on the Board.

IT'S A FACT...

...that the first commercially successful mechanical refrigeration and air conditioning system in the world was designed and installed by Dr. John Gorris, of Appalachicola, Florida, in 1844? With his own equipment, Dr. Gorris made ice packs for yellow fever patients being treated in his hospital and air-cooled their rooms. He is rightfully named the "father" of commercial mechanical refrigeration and air conditioning.

\*\*\*\*\*

DON'T FORGET YOUR CONTRIBUTION TO THE WORKSHIP FUND THIS YEAR.

\*\*\*\*\*

- NOTICE -

ASPE/ASHRAE PRODUCT SHOW will be held on Wednesday, March 10th, noon to 9 p.m., at Fort Mason, pier 3, San Francisco.

Reserve that date. Manufacturers and representatives will be displaying equipment and related products and services of interest to the industry at one convenient location. Mark your calendar. Make up a car-pool. Attend!

Food and beverage service will be available for a nominal cost but admission is FREE, including parking. Invitations and maps will be in the mail to serve as reminders. DON'T MISS THIS LOCAL EVENT.

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COPY DEADLINE

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Table with 2 columns: Meeting date, Copy deadline. Rows include Jan 7, 1982 (Dec 11, 1981), Feb 4, 1982 (Jan 13, 1982), March 4, 1982 (Feb 10, 1982), April 1, 1982 (March 10, 1982), May-Social (April 14, 1982), June 3, 1982 (May 12, 1982).

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Rich Wells, Editor
925 Kearny Street
El Cerrito, CA 94530
(415) 524-1477

GOLDEN GATE CHAPTER

A.S.H.R.A.E. TENNIS TOURNAMENT

- WHEN - Friday, April 30, 1982
- WHERE - San Francisco Tennis Club, Fifth and Brannan Streets, San Francisco (777-9000)
- TIME - 1 P.M. to 4 P.M. (Lunch facilities are available at the club if you come early. Please be ready to play at 1 P.M. Guest lockers are available.)
- COST - \$25.00 per person. We will have eight indoor courts which should provide plenty of play time for everybody. Balls will be provided. There will be certificates for the top player in each class.

LEVELS OF COMPETITION

The club pro will be in charge of assigning players to groups. Please indicate below which group you think you should join.

-----  
MAIL THIS PORTION

Return by April 23rd with check.

Make check payable to: GOLDEN GATE ASHRAE

MAIL TO: Jack Kniveton, Tennis Chairman  
c/o Norman S. Wright Equipment Co.  
850 Harrison Street  
San Francisco, CA 94107

PHONE: 777-5333

NAME \_\_\_\_\_

COMPANY \_\_\_\_\_

PHONE \_\_\_\_\_

PLAYING LEVEL: \_\_\_\_\_ Advanced  
\_\_\_\_\_ Intermediate



VOLUME XXI NO. 5

MARCH 1982

MEETING NOTICE

PROGRAM

DATE: MARCH 4, 1982

TIME: 5:30-6:30 p.m. Social Hour  
6:30- Dinner / Meeting

LOCATION: ENGINEERS CLUB  
180 Sansome St.  
16th Floor  
San Francisco

"WHAT IS RS-232? or HOW DO I TALK TO A COMPUTER?"

Mr. Bud Townsend, of B & B Electric, Oakland, Mr. Ross Patterson, of Mollard Marketing, Santa Clara, and Mr. Jim Taylor, of TK & Associates, Inc., Hayward, will present a discussion of the various data transmission methods in use today and their application. Serial, BCD, parallel and IEEE interfacing will be covered. In addition, Mr. Townsend will demonstrate how minicomputers and programmable machine controllers may be used to create very powerful control packages and data gathering units.

HONOR ROLL

TEMPCO EQUIPMENT COMPANY, INC.  
100 North Hill Dr., Unit 12  
Brisbane, CA 94005  
Phone: (415) 467-8680

Gerry Yaffe  
Sherm Brown  
Roy Skover  
and a new arrival to our staff,  
Chuck Shane

PRESIDENT'S COLUMN

Make plans to visit the joint ASPE-ASHRAE Product Show at Fort Mason's Pier #3 in San Francisco from Noon to 9 PM on Wednesday March 10th. Our committee (Dave Rifkin, Bob Roach & Jim VanBuskirk) have been working diligently with ASPE's committee (ASHRAE members John Lento & Bob Wistort together with Harry Rose) to make this event one of the season's high points. There will be over 80 exhibitors covering every facet of the heating, ventilating refrigerating, air conditioning and plumbing fields. Don't miss this interesting event!

Grant Bentley and Phil Russo, co-chairmen of our 1982 Technical Development Seminar, have been working since last August putting together a four-evening program (March 16, 23, 30 & April 6) which will provide difficult to find material most desired by professionals in our fields.

Now that the energy crunch is a well established fact of life, many engineers, manufacturers, building managers, and contractors have had a chance to sort out the workable ideas from the wild unrealistic schemes. This seminar will allow us to learn some of the hard earned facts from leaders in the field.

Past chapter presidents Richard Friedman and Thomas Gilbertson will be the first evening's speakers. Dick Friedman, President of Engineered Air Systems, a Richmond design/build contractor, is continuously faced with the real-life situation in which his designs must satisfactorily perform (in order for him to stay in business). Tom Gilbertson, on the other hand, is a principal

of L & H AIRCO sales firm, whose reputation rides on the performance of his equipment. Both of these well known Bay Area engineers are well qualified to pass on lessons they've learned with respect to economizer systems. Dick Friedman will discuss "air-side economizers" and Tom Gilbertson will discuss "wet-side economizers".

The second evening's (March 23) program will look at the currently popular variable air volume systems. As many engineers can attest, there are many pit-falls and designs to be wary of in these systems. We are fortunate that our committee has been able to induce Mike English, of Automatic Controls, Dick Mitchell, of CIRCO, and Bill Patterson, of East Bay Air Conditioning, to pass on to us some of their experience and guidance in designing, constructing, and operating successful VAV systems.

The third evening's (March 30) program will address building response to seismic forces. Paul Oliphant, principal of Acoustical Consultants Inc., has taken up from where his well known dad left off. Those who have heard Paul speak will agree that this evening's program will be one of the high points of our seminar. His talk can be expected to be very informative and scientific. The second speaker for this evening's program will be announced shortly.

The fourth evening's (April 6) program will give us a hard and practical look at how to judge the worth of any proposed project including energy conservation schemes. Our ...continued p.3...

INSTITUTE OF NOISE CONTROL ENGINEERING (INCE) INTERNATIONAL CONFERENCE AND SEMINAR ON NOISE CONTROL ENGINEERING...

"INTER-NOISE 82"

Noise problems? For those of us who would like to keep out of trouble with noise from the mechanical equipment here is the opportunity to brush up on fundamentals and obtain some good advice. Mark your calendar for:

"INTER-NOISE 82"

Eleventh International Conference on Noise Control Engineering. Sponsored by the International Institute of Noise Control Engineering. May 13-15 at the Jack Tar Hotel, San Francisco

For additional information contact: INTER-NOISE 82 Conference Secretariat, P.O. Box 3469 Arlington Branch Poughkeepsie, NY 12603 USA Phone: (914) 462-6719

Dick Glumac will keep us posted and may provide entry forms at a later date.

Some of the topics will be:

- Criteria for noise and vibration from building systems and equipment.
- Three day seminar on "Techniques of Noise Control".
- New techniques in noise control.
- OSHA regulations

Golden Gate Chapter member Richard Gee recently made the following inquiry regarding the 1979 ASHRAE Equipment Volume:

"With reference to the above volume in Chapter 31, entitled "Motors and Motor Protection", refer to Page 31.2, second paragraph under the section named "Codes and Standards". It is not always true that the National Electrical Code is found in Volume 5 of the National Fire Protection Code. The volume number for the NEC occasionally varies in the yearly editions. To be correct or proper, the statement should be "The National Electrical Code is included in The National Fire Protection Codes and Standards as NFPA Standard No. 70, and which.....etc."

Please notify me of your comment whether this is an oversight or not. Thank you for your attention."

The reply Richard received was as follows:

"Your point about the wording on page 31.2 (Chapter 8 of the 1979 Equipment Handbook) regarding the National Electric Code is well taken. A book which will remain a current reference for four years should be positive that references will also remain constant. Thank you for bringing the subject to my attention.

Sincerely yours, Samuel H. Rosenberg Handbook Editor"

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PRESIDENT'S COLUMN

...continued...

speakers will include Erland Persson, Manager of the Energy Division of Kennedy/Jenks Engineers, Jim Malinowski, of the Pacific Gas & Electric Company, to give us the utility company's perspective, and Jose Alvarez whose position with Bank of America will allow him to present the hard financial facts of life.

For the \$40 contribution to ASHRAE Technical Seminar I think you'll agree we should have one of our most popular seminar programs of all times. See you there!

Bob Phillips  
President

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SPRING TENNIS TOURNAMENT

Mark your calendars for Friday, April 30, 1 to 4 PM. We will return to the San Francisco Tennis Club for an afternoon of social and competitive tennis using their indoor courts. A mailing will go out soon but in the mean time contact Jack Kniveton, 777-5333, for further information.

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**MEMBERS PLEASE NOTE!!!**

Prizes for the February meeting's raffle for the Scholarship Fund were donated by E.C. Braun Company. Their generous contribution is greatly appreciated by the Golden Gate Chapter and will hopefully be an incentive for future contributions by other firms to promote this most worthwhile function of our organization.

Thanks again E.C. Braun Company.

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ATTENTION ALL DUFFERS...

Don't forget the upcoming ASHRAE Golf Tourney to be held at California Golf & Country Club in So. San Francisco on April 23rd...

More details next month.

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MINUTES OF LAST MEETING

February 4, 1982

Attendance: 83 Members  
21 Guests

1. Meeting was called to order by President Robert Phillips at the Engineers Club, San Francisco at 7:40 p.m. Self introductions followed.
2. Meeting of January 7, 1982 minutes were approved as published in the Fog Dispenser.
3. Grant Bentley reported on the Technical Seminar. The speakers were announced.
4. Dave Rifkin reported on the ASPE/ASHRAE Product Show. The announcements are being sent out.
5. Jack Kniveton reported on the April tennis tournament.
6. Carl Jordan discussed the San Francisco Building Code and interpretation of the fire department control panel. Carl invited members to attend a meeting on March 7, 1982, before the Board of Code Examiners on review of the administrative requirements for these panels.
7. Dick Charles reported on the Houston ASHRAE meeting. Region X won 3 of 5 first place awards for energy conservation projects. Dick wants to have projects for all 5 categories to present at the Region X CRC meeting in Tucson.
8. President Bob Phillips presented a plaque to Roy Anderson for his work with the Education Committee during the 1980-81 year. Roy thanked all the members who supported the various educational functions during the year.
9. Dick Glumac questioned the progress of action on the 1986 National Meeting in San Francisco. It was reported that a board member had held a meeting with Tom White prior to the general meeting and all necessary actions have been taken. After the break, Dick Hughes conducted the scholarship raffle.

...continued p.4...

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MINUTES OF LAST MEETING

...continued...

10. Tom Campbell introduced the speakers for the evening. After an initial introduction by Gus Gendler, Mr. Tom Javits, of the Golden Gate Energy Center, outlined the solar energy plans for Fort Cronkhite in Sausalito.

11. The meeting was adjourned at 9:45 p.m.

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TREASURER'S REPORT

ASSETS: \$3373.75  
LIABILITIES: (0)  
MEMBERS' EQUITY: \$3373.75

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--I T E M - - I T E M - - I T E M - -

Want a way to increase the Chapter Scholarship Fund and see that more financial aid goes to our local college and university students? Donate a "special" gift for the raffle; something that you and your wife, or friend, would enjoy receiving: dinner at a fine restaurant, theater tickets, etc. Your personal gift or a gift from your firm for the Scholarship Fund will be tax deductible and all donations for raffle tickets will be direct contributions to the fund.

Contact Dick Hughes or Jody at 391-6579 and your gift will be gratefully received and picked up if necessary.

\*\*\*\*\*

FOR ALL YOU HISTORY BUFFS...

bet you didn't know that David Boyle built and operated the first commercially successful ammonia mechanical refrigeration plant at Jefferson, Texas, in 1873. Working without knowledge of Linde's work in Germany he outdistanced the German inventor by a year.

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LET'S NOT HIDE OUR (ENERGY) LIGHT UNDER A BUSHEL ...

ASHRAE is emphasizing the energy awards program to:

- Recognize outstanding achievement by ASHRAE members and to encourage their participation in the implementation of energy efficient measures.
- Help disseminate information on various techniques that can be used to save energy
- Focus international attention on the work of ASHRAE in finding solutions to energy problems.

In addition, entrants will gain publicity for themselves. Last year three firms in Region X, including Syska & Hennessy in San Francisco, were first place winners.

There are five categories:

1. Institutional/Commercial - New
2. Institutional/Commercial - Existing
3. Industrial - New Facilities
4. Industrial - Exist. Facilities/Processes
5. Altrnative or Renewable Energy Use

The major requirement is that the project must be in successful operation for at least one year at the time of entry.

There are many worthy projects among members of Golden gate Chapter and our goal is to have one entrant in each category.

In judging, energy efficiency receives the greatest weight, with breadth of application, use of renewable resources, and cost effectiveness of retrofit projects receiving the next greatest weight. The application is not difficult to prepare and most of the information required is probably available from the design calculations.

Anyone interested can contact Doug Daniels at 937-9010, Bob Braun or Dick Charles at 434-2720. Let's not hide our light under a bushel - put in your entry now.

\*\*\*\*\*

Murphy's Second Law of Evolving System Dynamics

---

Left to themselves, things always go from bad to worse !!!

DON'T LEAVE THE WORKSHOP TO ITSELF - CONTRIBUTE GENEROUSLY

Enclosed please find my contribution to the GOLDEN GATE ASHRAE WORKSHOP  
in the amount of \$ \_\_\_\_\_

Check # \_\_\_\_\_ Date \_\_\_\_\_  
 Cash  
 Other \_\_\_\_\_

NAME: \_\_\_\_\_

AFFILIATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

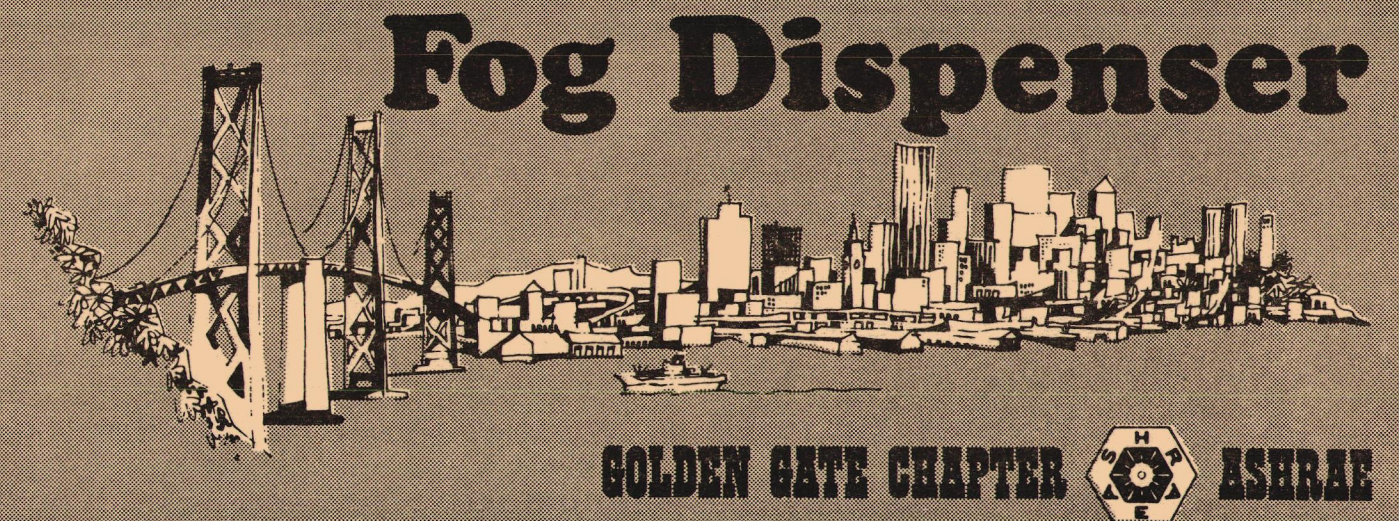
PHONE: \_\_\_\_\_

Personal Contribution  
 Company Contribution

RECEIPTS WILL BE FORWARDED FOR ALL CONTRIBUTIONS MAILED TO:

BRUCE MONTGOMERY  
c/o Montgomery & Roberts  
925 Kearney St.  
El Cerrito, CA 94530

Scholarship Committee Chairman



VOLUME XXI NO. 6

APRIL 1982

MEETING NOTICE

PROGRAM

DATE: April 1, 1982

TIME: 5:30-6:30 p.m. Social Hour  
6:30- Dinner / Meeting

LOCATION: ENGINEERS CLUB  
180 Sansome St.  
16th Floor  
San Francisco

"Air to Air Energy Recovery: Heat  
Wheels, Heat Pipes, Plate Heat Ex-  
changers and Coil Run Around".  
Exciting cost-effective aspects and  
proven technical designs that have been  
used in industry and commercial  
installations.

Nick Des Champs, PhD, PE, President and  
Founder of Des Champs Laboratories,  
East Hanover, N.J., holds 13 patents  
for energy conservation equipment, is  
co-author of the book Energy Recovery  
Equipment, has ten years plus as a  
college professor -- he promises to  
hold your attention.

HONOR ROLL

McLAUGHLIN ASSOCIATES  
575 Middlefield Rd., Suite F  
Palo Alto, CA 94301  
Phone: (415) 326-9115

Chuck McLaughlin  
Peter McLaughlin  
Jim Plakos  
Dan Barrango  
Julie Stoneburner  
Lillian Garner  
Barbara Stewart

PRESIDENT'S COLUMN

Our Product Show committee: David Rifkin, Robert Roach and James Van Buskirk, together with ASPE committeemen Kenneth Hill, Harry Rose, John Lento and Robert Wistort are to be congratulated for putting together a show having 90 exhibitors and drawing over 1000 visitors. It is hoped that this product show at Fort Mason's Pier 3 on March 10th will prove to have been beneficial to the many cooperative exhibitors who joined in to make this show such a big success.

Coming up on May 6th to 9th in Tuscon, Arizona is Region X chapters' Regional Committee (CRC) annual conference. This is an annual conference in which ASHRAE chapters get together to discuss chapter programs, make suggestions for Society policies, propose Society committee members, put forth candidates for Society Honors and Awards (Fellow, Distinguished Service). In addition, our chapter is well represented by Eugene Valerio representing Region X on the Society's Nominating committee, and Richard Charles who has distinguished himself as Region X's Energy co-chairman. Representing the Golden Gate Chapter at the Tuscon CRC meeting this year will be President-Elect Thomas Campbell assisted by Chapter Secretary James Taylor.

According to Chapter By-Laws, we must vote for Chapter Officers for 1982-83 before the April 1st General Meeting. So please fill out and mail in the ballot in the enclosed envelope. (Send Dinner-Meeting reservation postcards in separately).

Bob Phillips  
President.

\*\*\*\*\*

---NOTICE---

Don't forget the Spring Tennis Tournament on Friday, April 30th, 1 to 4 PM at the San Francisco Tennis Club on their indoor courts. Contact Jack Kniveton, 777-5333, for further information.

\*\*\*\*\*

--GOLF - GOLF - GOLF--

Mark your calendars for the upcoming ASHRAE Golf Tourney at the California Golf & Country Club in So. San Francisco on April 23rd.

\*\*\*\*\*

MINUTES OF LAST MEETING

March 4, 1982  
Attendance: 56 Members  
10 Guests

- 1. The meeting was called to order by President Robert Phillips at the San Francisco Engineers Club at 7:35 P.M. Self introductions followed.
2. The minutes of the February 4, 1982 meeting were approved as published in the Fog Dispenser.
3. Past President Dick Glumac presented the report of the nominating committee for 1982-83.

President Tom Campbell
President Elect Jim Taylor
Secretary Kevin Dowling
Treasurer Jim Nemechek
Board Member Dave Rifkin
Board Member Dart Rinefort

There being no nominations from the floor this slate of officers will be voted on by written ballot before the April meeting.

- 4. Glen Claycomb of the Solar Energy Committee requested members to submit reports on residential solar heating experience they may have. The committee hopes to prepare a report for the membership.
5. Bob Braun requested entries for the Energy Conservation Awards.
6. Past President Dick Charles presented President Robert Phillips with the Presidential Award of Excellence for 1981-82. Since the Chapter has won the award for the past 5 years a special silver award was presented.

7. Past President Tom White reported the Society now has a representative in Washington, Jim Cox. Tom reviewed past legislative efforts by the Society. Due to rescheduling the 1986 National show in San Francisco will be held January 19-23.

8. Past President Carl Jordan gave a further update on the San Francisco Code requirement for blue fan status lights. In the future only Red & Green lights will be required on the Firemen's fan status panel.

9. Bob Braun pointed out to the membership 37 people from the Golden Gate Chapter serve in national ASHRAE positions.

10. Dick Hughes conducted the raffle followed by Tom Campbell presenting the evening's speakers. Mr. Ross Patterson of Mollard Marketing and Bud Townsend of B & B Electric presented a discussion of computer data interfacing techniques and the application of programable controllers.

11. The meeting was adjourned at 9:30.

\*\*\*\*\*

ASHRAE CODE COMMITTEE REVIEW

February 25, 1982

The ASHRAE Code Committee, in its meeting dated February 25th, reviewed and discussed the subject of status indication display of air handling fans at firemen's control stations in high-rise buildings. The following explanation was recommended unanimously for possible adoption:

Green and red lights shall be provided to indicate "on" and "off" conditions respectively for the fans. On/Off indication sensing may be by air flow or differential pressure switches which detect actual flow of air by the fans; or by any other approved methods.

Exception: Air handling fans that circulate air within a single floor and are not part of smoke control system.

\*\*\*\*\*

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 1, 1982 March 10, 1982
May-Social April 14, 1982
June 3, 1982 May 12, 1982

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

1981-82 OFFICERS

Robert Phillips ..... President
Thomas Campbell . . . President-Elect
James Taylor ..... Secretary
Kevin Dowling ..... Treasurer

BOARD OF DIRECTORS

James Nemechek
David Rifkin
James Holden

MAIL OR PHONE NEWS TO:

Rich Wells, Editor
925 Kearny Street
El Cerrito, CA 94530
(415) 524-1477

NEWS OF MEMBERS...

...cont'd...  
 Zulfi Cumali - Energy Calculations  
 Tom White - Government Affairs/Nominating  
 Bill Chapman - International Activities/  
 Control Theory & Applications  
 Dick Hughes - Program/Metric (ExO)  
 Warren Blazier - Sound & Vibration Control  
 Tom Campbell - Load Calc Data & Procedures  
 John Lewis - Control Theory & Applications  
 Dick Stone - Fuels & Combustion/Stand Pro-  
 jects 106P

Golden Gate Chapter applauds these thirteen members for their efforts !

\*\*\*\*\*

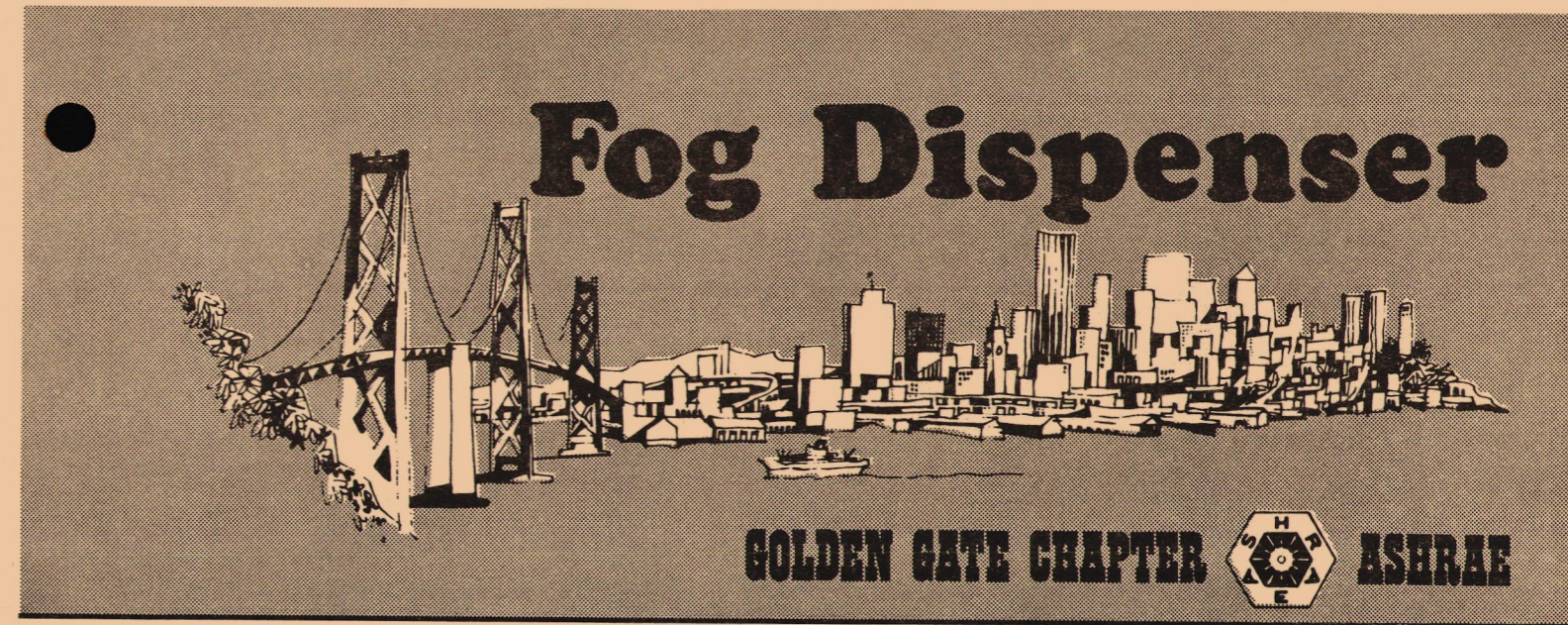
NOTICE - - NOTICE

Donations to the Student Scholarship Fund from the monthly raffle this fiscal year have reached over \$320 to date.

Our many thanks to those members and guests who cheerfully and gladly donate a dollar or more each meeting.

We wish you all could win our prizes, but fate chooses the lucky ones. However, we feel that every donor is a "winner" by encouraging young students to continue their interest in our industry through financial support.  
 Dick Hughes/Mike Lynch  
 Co-chairmen, Raffle Comm.

\*\*\*\*\*



VOLUME XXI NO. 7

MAY 1982

MEETING NOTICE

PROGRAM

DATE: May 6, 1982  
 TIME: 6:15 p.m.  
 LOCATION: MOSCONE CENTER  
 Main Entrance  
 747 Howard Street  
 San Francisco

FIELD TRIP - MOSCONE CENTER TOUR

An exceptional opportunity for all members to have a close look at San Francisco's new Moscone Center and what makes it tick.

DINNER: On your own, either before or after the tour.

R.S.V.P.: Send enclosed card to Bob Phillips. We need an accurate head count so we can plan to have enough guides.

HONOR ROLL

T.E.I.  
 Complete Test and Balance  
 Air and Hydronic Systems  
 Member AABC

Phil Raglen  
 San Leandro (415) 895-2288  
 Sacramento (916) 372-0413  
 Reno (702) 322-2020

"The Board of Governors submits the following proposal to the membership for their consideration:

CHANGES TO THE BY-LAWS

3.3 The officers named in 3.2 with the exception of the President and the Past-President, shall be elected annually. The Board of Governors shall be installed, and thereupon take office by June 30 of each year, to serve until their successors are installed.

5.6 (new)  
 (renumber 5.6 and 5.7 to 5.7 and 5.8 respectively)  
 The Past-President. Upon completion of his term, the outgoing president shall automatically be designated the Past-President and shall continue as a member of the Board of Governors for a term of one year.

Reason: The provisions of Article 5.3 regarding the President-elect makes his assumption of the office of President automatic so that he does not have to stand for election to that office. The designation of the Past-President is also automatic. The proposed revisions to the by-laws will eliminate a technical contradiction in the present Article 3.3.

This proposal will be submitted to a vote of the members present at the June 3, 1982, meeting."

PRESIDENT'S COLUMN

Our May 6th field trip through San Francisco's George R. Moscone Center at 747 Howard Street can be expected to be one of the chapter's most interesting field trips.

The Moscone Center's main exhibit hall area boasts 275,000 square feet of unobstructed floor area with an occupant load of up to 16,490 people. The other five exhibit areas, having a total floor area of 17,410 square feet, can accommodate another 6,060 people. Included is the "Ballroom" which can handle 3,298 dinner guests served from the Center's own kitchen.

The Center also has 31 individual meeting rooms of from 60 to 600 person capacity. The lobby entrance is situated adjacent to Howard Street opening into an atrium, 60 feet in height.

We will be indebted to Hayakawa Associates, mechanical engineers for the Center, together with the Center's management personnel for our guided tour.

This field trip is too good to miss. See you there!

On another subject, we have become aware of some contradictions in our recently published Chapter bylaws relative to elections. The enclosed proposed "Changes to the By-laws" is

suggested by the Board of Governors to correct this shortcoming. Please mail in the enclosed post-card and state your approval (or disapproval).

Bob Phillips  
President

\*\*\*\*\*

INFORMATION PLEASE

The Solar Energy Committee believes that solar energy has been around long enough for some broad design, installation and operating guidelines to be developed. In spite of reams of reports and proposed designs which have been published, this kind of information does not seem to be generally known. The Committee would like to poll members to find out if anyone has installed a solar heating system in his or her own house, or whether anyone has firsthand experience with an operating system. We would like to arrange a presentation for the Chapter on practical solar knowledge. We think everyone would benefit by hearing about actual problems and solutions. Please contact Glenn Claycomb if you have experience you would like to share with the Chapter.

\*\*\*\*\*

DON'T FORGET YOUR CONTRIBUTION TO THE WORKSHIP FUND THIS YEAR.

\*\*\*\*\*

MINUTES OF LAST MEETING

April 1, 1982  
Attendance: 58 Members  
16 Guests

1. The meeting was called to order by President Elect Tom Campbell at 7:39 PM. Self introduction followed.

2. Minutes of February and March meetings were approved as published in the Fog Dispenser.

3. Jack Kniveton asked for participants for the Tennis Tournament. Entry fee is \$25.

4. Tom Campbell reported on the Golf Tournament. Pete Filios may be contacted for applications and the fee is \$50.

5. Frank Mayhew, Glen Friedman, and Hank Mouw acted as the Tellers Committee. The results of the election were:

James Taylor	President Elect	117
Kevin Dowling	Secretary	116
James Nemechek	Treasurer	116
Dart Rinefort	Board Member	114
Bob Phillips	Past President	94

6. Tom White reported on members of Golden Gate ASHRAE who are on national committees.

7. Don Bryant announced a National ASHRAE sponsored seminar in San Francisco to be held May 26 and 27th.

8. Dave Rifkin reported on the ASHRAE/ASPE Product Show. All expenses have been paid. The show met its budget.

9. Past President Carl Jordan introduced the Engineers Club staff who have served us so well through the years. Between Marion, Zane, and Kac, they represent 48 years of service of Golden Gate ASHRAE.

10. Motion by Carl Jordan that Board member James Nemechek be fined \$25 for commercial promotion of Cambridge Air Filter during the meeting. (Note:

Mr. Nemechek has tendered his check to the Treasurer).

11. Tom Campbell announced the field trip to the Moscone Center will be May 6th, starting at 6:15 PM. Details will be forthcoming with the Fog Dispenser.

12. The Region X Chapters Regional Conference will be held in Tuscon, Arizona, May 5, 6, and 7th. All members are invited to attend.

13. Tom Campbell is conducting a review of the bylaws to compare them with the national model for bylaws.

14. Following a break, Mike Lynch conducted the raffle.

15. Tom Campbell introduced the speaker, Mr. Dick Des Champs, of Des Champs Laboratories. Mr. Des Champs presented a very informative talk on various forms of Air to Air Heat Exchangers.

16. The meeting was adjourned at 9:15 PM.

\*\*\*\*\*

NEWS OF MEMBERS...

E.C. Braun Company was pleased to announce that Mr. MICHAEL P. LYNCH has been appointed President. Formerly Vice President and Assistant Manager of Braun, Mr. Lynch brings fifteen years experience in the mechanical construction industry to his new position.

.....  
Following are the names of Golden Gate Chapter members who are actively participating on Society Committees:

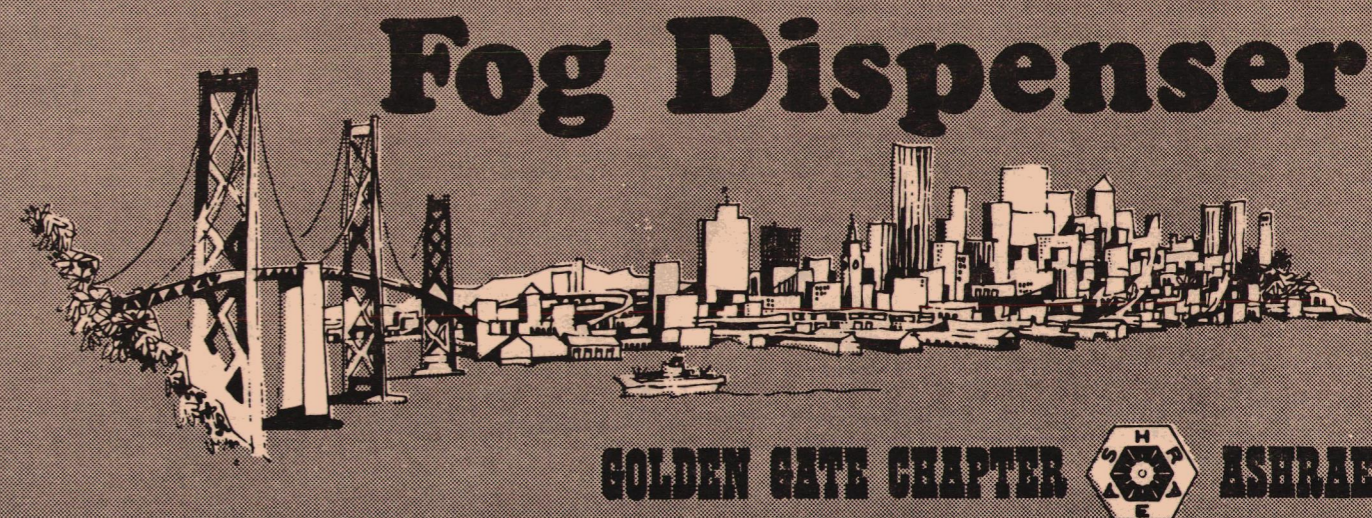
- Don Bryant - Education/Health & Safety
- Dick Charles - Energy Management
- Gene Valerio - Nominating/Particulate Air Contaminants & Removal
- Bob Braun - Fuels & Combustion/Use of Waste Products for Energy
- Tom Gilbertson - Cooling Towers & Evap Condensers

PROGRAMS FOR 1982-1983

At this time 7 of the 9 programs for this year have been selected.

October 7, 1982	PROPOSED - NONRESIDENTIAL ENERGY STANDARDS. MR. RICHARD CHARLES
November 4, 1982	SOUND AND VIBRATION - CORRECTION OF PROBLEMS IN EXISTING BUILDINGS. MR. ROGER MAINERI
December 2, 1982	SMACNA - DUCT DESIGN STANDARDS MR. JOHN STRATTEN
January 6, 1983	CLIMATE DATA MANUAL REGION X MR. WILLIAM HOLLIDAY
February 3, 1983	ENERGY CONSERVATION PROJECT PRESENTATION MR. DOUG DANIELS
March 3, 1983	- OPEN -
April 7, 1983	- OPEN -
May 5, 1983	- OPEN -
June 2, 1983	ANNUAL CORPORATE MEETING - PAST PRESIDENTS' NIGHT - WIVES' NIGHT - BAY AREA AIR QUALITY CONTROL DISTRICT MR. PAUL BRAND

As you can see there are still two meetings and the field trip undecided. The programs we have scheduled are all of a technical nature. Some alternate suggestions might be in the political, city or state planning, or legal areas. Please let the officers know what you would like to hear.



VOLUME XXII NO. 1

OCTOBER 1982

MEETING NOTICEPROGRAM

DATE: OCTOBER 7, 1982

"Proposed--Nonresidential Energy Standards"

TIME: 5:30-6:30 Social Hour  
6:30 Dinner/MeetingLOCATION: ENGINEERS CLUB  
180 Sansome, 16th Fl.  
San Francisco

Mr. Richard Charles, a member of the advisory committee to the Energy Commission, will discuss the new regulations as they are now proposed.

This is your chance to review these new rules and make comments on how they might be revised.

HONOR ROLL

LEIGHTON STONE CORP.  
790 Tennessee Street  
San Francisco, CA 94107

Phone: (415) 285-3600

Sherwood Hanger  
Jeff Bickell  
Art Wilson  
Pete Tidmarsh  
Larry Marsh  
Don Buck  
Sieg Cabral

PRESIDENT'S CORNER

Here we go again--kicking off a new year of Golden Gate Chapter meetings. Your Board has been meeting throughout the summer, trying to get things organized so that this year will be beneficial to all of you.

This leads to several questions. Why do you belong to ASHRAE or, better yet, why do you belong to the Golden Gate Chapter? Why do you (or, don't you) attend meetings? Is it the opportunity to renew friendships? To rub elbows with the rest of our industry? Do you attend because of the technical programs? We would like to know what turns you on. Drop us a note or catch us at the meeting. It's your Chapter; your participation makes it tick.

That leads to another thought. Participation by the members is what makes ASHRAE a great Society. All of the key operations are supported by members who voluntarily contribute their time to serve on the various committees. There are over 300 members on the National Standing Committees, not mention the thousands who serve on the more than 90 technical committees and task groups. Are you a member of one of these committees?

Our chapter has 24 active committees. Out of nearly 300 Chapter members, we had fewer than 50 who offered to serve on one of these committees. If you weren't one, it's still not too late. You'll benefit and the Chapter and Society will benefit from your participation. Some of the committees are already involved in their 1982-83 programs. Look for their reports here and in future issues of the Fog Dispenser.

Let us know what you want! Come to the meetings! Get involved! Help your Chapter grow!

Tom Campbell  
President

\* \* \* \* \*

SOLAR COMMITTEE

The Solar Committee, under the chairmanship of Pat Geis, will meet the last Thursday of each month at 4 PM at the offices of Marion, Cerbatos, and Tomasi, 2015 Steiner St., San Francisco. Individuals interested in being involved with Solar Code, cost effectiveness, standards, storage systems and life expectancy, please call Pat (415) 383-6686.

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

1982-83 OFFICERS  
Thomas C. Campbell President  
James G. Taylor President-Elect  
Kevin F. Dowling Secretary  
James G. Nemechek Treasurer

BOARD OF DIRECTORS  
David Rifkin  
Robert Phillips  
Dart W. Rinefort

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
Oct. 7, 1982	Sept. 16, 1982
Nov. 4, 1982	Oct. 14, 1982
Dec. 2, 1982	Nov. 11, 1982
Jan. 6, 1983	Dec. 16, 1982
Feb. 3, 1983	Jan. 13, 1983
Mar. 3, 1983	Feb. 10, 1983
Apr. 7, 1983	Mar. 7, 1983
May 5, 1983	Apr. 14, 1983
June 2, 1983	May 12, 1983

CODE COMMITTEE - continued -

of a joint SFFD-BBI bulletin to clarify the code.

8. F. Lew will put the agreements reached into code language and forward a copy to the Code Committee for review.

\* \* \* \* \*  
The next committee meeting will be scheduled after F. Lew's document is received.

ENERGY CONSERVATION COMMITTEE

The Energy Conservation Committee comprised of Doug Daniels, Bob Braun (Co-Chairman), Steve Taylor and Allan Wicks were active last year and provided input to the Energy Commission by means of a paper, authored by Steve Taylor, on the development of New Energy Standards for New Residential Buildings. The Golden Gate Chapter's recommendations, particularly on the simplified calculation methods, were very well received and made a significant contribution to the development of the new energy standards.

The Energy Committee was also active in soliciting entrants to the Energy Awards Program of National ASHRAE and, while the results were disappointing last year, the Committee urges every one who has an eligible building to enter it in this year's competition.

The Committee established a close liason with the local AIA Chapter through its input to the Energy Commission. Joint seminars on Energy Conservation are being considered with the AIA in the future.

ROSTER INFORMATION REMINDER

We need Roster information and your Chapter dues of \$18 by Nov. 1. National dues are also due by Nov. 4. Please complete the roster information form and mail it with a check for \$18 payable to Golden Gate Chapter/ASHRAE to:

Golden Gate Chapter/ASHRAE  
c/o Duplicating Associates  
370 Brannon Street  
San Francisco, CA. 94107

Don't forget to include your home and business addresses and telephone numbers.

\* \* \* \* \*

CLIMATIC DATA FOR REGION X

The efforts of Bill Holliday, Loren Crow, Dick Charles and all the Committee members are complete and published. The new temperature Data Manuals are ready for immediate delivery. Get yours now.

Sale

At the October 7th and November 4th meetings the Manual will be available to Golden Gate Chapter members only for the reduced rate of \$11.00 plus tax, or \$11.72. This offer is for one copy per member, please. All others must pay the full cost of \$17.50 plus tax, or \$18.64.

\* \* \* \* \*

CAL POLY STUDENTS AT NOVEMBER MEETING

We are expecting 30-35 students from Cal Poly to attend our November Chapter meeting. Now we need sponsors for the students for dinner. Don't miss this opportunity to meet and talk with these future engineers. Contact Jim Nemechek for details.

CODE COMMITTEE MEETING 8/26/82MINUTES OF MEETING

## Present:

H. Ajmani	H. Yazdchi
G. Claycomb	T. Campbell
G. Collachia	R. Levy - BBI
M. Cory	F. Lew - BBI
D. Glumac	J. Medina - SFFD
R. Voelz	E. Philip - BBI

1. R. Levy and F. Lew said that the BBI generally will accept the Code Committee's recommendations concerning section 1807 of the SFBC and the adoption of the UBC and UMC. The BBI plans to adopt the 1979 UBC and UMC with a separately published book of amendments as early as late October. A comparison of the 1982 and 1979 version of the UBC and UMC will then take place, followed by adoption of the 1982 versions. The 1982 UMC section on atriums will be adopted when the 1979 versions are adopted. A discussion of particular points followed, and the following consensus was reached:

2. Smoke control in low rise buildings (less than 75 ft.):

- a. Smoke dampers will not be required.
- b. Buildings less than 75 ft. but 5 stories or more:

1) Central HVAC system:

- a) Fan Control at SFFD panel in lobby.
- b) Smoke detectors at entrance to return air shaft.
- c) Activation of these detectors to put system into smoke purge mode.

2) Modular system (e.g. heat pump):

- a) No control of individual units at SFFD panel.
- b) No smoke ventilation requirements.

c) Smoke detectors located in each ceiling plenum area, and area served per individual detector not to exceed 2500 sq. ft.

d) Activation of any of these detectors to shut down all fans on that floor.

3) The foregoing will not apply to occupancies A-1, A-2 A-2.1, E and I.

4) In occupancy R-1 with a separate corridor HVAC system, smoke detector required in corridor to shut down that system.

3. Code Ruling 68-28, item 6, will continue to apply.

4. The activation of any smoke detector in a building will cause the HVAC system to go into its purge mode.

5. The language will not be changed requiring activation of smoke detector located downstream of the filter bank to cause the shut down of the supply air. Provisions for alternate intake air will not be required.

6. The committee's recommendations regarding small transfer fans of 500 cfm and 10% were accepted. Secondary fans on a floor will be interlocked to shut down if any smoke detector on the floor is activated; separate controls and indicating lights will not be required.

7. The SFFD will conduct in-house meetings regarding their requirements for standardized control panels. The new code will contain only general language regarding this subject. An ad hoc committee will be formed of SFFD, BBI, and Code Committee members to assist in the creation

MINUTES OF LAST MEETING

June 3, 1982

Attendance: 36 Members  
25 Guests

1. The meeting was called to order by President Bob Phillips at 7:18 at the San Francisco Engineers Club. Self introduction of members and guests followed.

2. The meeting minutes of the April 1, 1982 General Meeting were approved as published in the May Fog Dispenser. The field trip to the Moscone Center was held in lieu of a meeting in May.

3. Past President Jack Kniveton reported on the tennis tournament. good time was had by all attending. A suggestion was made to have the ladies included in next year's event.

4. Bob Braun asked for entries for the ASHRAE Energy Conservation awards. To date none have been filed.

5. Past President Dick Charles reported on the Temperature Data Book. The book is scheduled for publication in July.

6. President Phillips presented a bylaw change for the Golden Gate Chapter. Currently the President Elect and Past President must stand for election. The change will eliminate this requirement. A motion was made, seconded and passed to accept the bylaw change.

7. Past President Jim Holden presented awards to the many committee chairmen in appreciation of their efforts through the 1981-82 year.

8. President Phillips introduced the New Slate of Officers for 1981-82.

President	Tom Campbell
Past President	Bob Phillips
President Elect	Jim Taylor
Secretary	Kevin Dowling
Treasurer	Jim Nemechek
Board of Directors	Dave Rifkin
Board of Directors	Dart Rinefort

9. After a short intermission, the raffle was held and President Tom Campbell introduced the evening's speaker, Mr. David Schwoegler of PGandE. Mr. Schwoegler is the coordinator of the Speakers Bureau. The topic of "Resistance to Change" was very well presented and well received. The meeting A was adjourned at 9:30 p.m.

\* \* \* \* \*

ASHRAE PROFESSIONAL DEVELOPMENT SERIES BEGINS

These seminars are "designed to increase the technical knowledge of the registrants and to provide information and tools which can be put to immediate use on current projects." The first seminar, "Air System Design and Retrofit for Energy/Cost Effectiveness," will be presented Oct. 14-15 in Atlanta, October 21-22 in Dallas, and October 28-29 in Los Angeles. Watch for more details.

\* \* \* \* \*

INFLATION STRIKES AGAIN

Beginning with the October meeting, the minimum dinner price will be \$13.50.

Dinner at this new price will still include: salad, entree with vegetable, dessert and a choice of beverage.

ASHRAE RESEARCH CONTRIBUTORS

The following individuals have contributed to ASHRAE research in 1982. Thanks to all of you for your assistance.

A.H Amoreux  
Alex Brown  
Robert Carter  
William Chapman  
Dick Charles  
Ward Clark  
William Felzer  
Richard Friedman  
Richard Gee  
John Geis  
Robert Giles

Dick Glumac  
Mak Goto  
Charles Hardeman  
Oliver Johnson  
Carl Jordan  
Leslie King  
Kent Lim  
Alice Meyer  
Dale Missimer  
Jim Nemechek  
Richard Paillon

Jack Palmer  
Bob Phillips  
Wayne Place  
Ed Popp  
Charles Quan  
E. C. Sanford  
Richard Shaw  
Gene Valerio  
Bob Voelz  
Tom White  
Hamid Yazdchi

RAFFLE REPORT

The raffle helps to support the Golden Gate Chapter ASHRAE Scholarship Fund while adding to our enjoyment of the monthly dinner meeting festivities.

Raffle proceeds to the Scholarship Fund are greatly increased when members and/or their companies donate raffle prizes. Thanks to the Sam P. Wallace Co. and Mike Lynch for the donation of the excellent raffle prizes awarded at October meeting. University Mechanical, through Gino Colacchia, has volunteered to donate raffle prizes at the November meeting.

Typically, three raffle prizes with an approximate value of \$24 to \$30 are awarded at dinner meetings.

While recent prizes have been liquor, other items such as dinner tickets, cash, and items of personal interest have been awarded in the past and are also appropriate. If you and/or your firm would like to donate raffle prizes for an upcoming meeting (only 7 more opportunities this meeting year!), please contact Tom Judson at (415) 932-4201.

Thanks for your support of the Chapter Scholarship Fund Raffle!  
\* \* \* \* \*  
SPONORS NEEDED FOR NOVEMBER MEETING

We still need sponsors for the 30-35 Cal Poly students who will be attending our November Chapter meeting. Don't miss your chances to meet these future engineers. Contact Jim Nemechek for details, 367-8310



MEETING NOTICE

DATE: November 4, 1982  
TIME: 5:30 - 6:30 Social Hour  
6:30 Dinner/Meeting  
LOCATION: ENGINEERS CLUB  
180 Sansome Street  
16th Floor  
San Francisco

PROGRAM

"Sound and Vibration - Correction of Problems in Existing Buildings"

Mr. Roger Maineri, a local acoustical consultant, will present a program consisting of projects on correcting problems in existing structures.

The evening promises to be very educational, so bring your questions.

HONOR ROLL

California Hydronics Corp.  
350 Hatch Drive  
Foster City, CA 94404

Jack A. Palmer  
Milton P. McLeod  
David Attard

Phone: (415) 574-1313

PRESIDENT'S CORNER

The October meeting was a howling success. We had 176 members and guests. It's been a long time since we even came close to that number. Shows what a good program will do! Hope we were able to sign up all those guests as new members.

Of course, for every action there seems to be a reaction. (Somebody's law of something or other.) We love the big attendance and want to keep it up, but it puts a heck of a strain on the Engineers Club when we don't let them know in advance. Won't you please send in your postcards, or at least phone the club (415) 421-3184.

A few words about the Presidential Award of Excellence (PAOE). Some of you may have never heard of it. That's understandable, as our Chapter has never put much emphasis on winning the PAOE. Perhaps you may have noticed those red patches affixed to our ASHRAE banner. They are recognition of the years we won the PAOE. We actually did it without even trying.

I probably wouldn't be talking about PAOE now except we missed out last year by four (4) lousy points out of a goal of 1,500 points. If we had done only one thing differently we would have gotten a new "patch" (without even trying). This year it will take a minimum of 1,900 points. Sounds big, but it's not so tough.

We can earn as many as 600 points by increasing the ASHRAE membership from this area, or by advancement of our present members. If you're eligible, apply for advancement. It's easy. Chapter meeting attendance is another approach. We're already ahead of our 1981/82 average of 94.

And then there's Education. We get points for student members, chapter sponsored student awards, Technical Seminars, career guidance, etc. If any of you are involved, let Jim Taylor know.

Energy Management - we didn't have one entry for the "Award Program" last year. Surely, you have some jobs in operation for a year or more which can qualify.

Technical Activities (650 points max.) - For such things as Legislative input, appointments to Gov't. Advisory Boards (CEC is one), memberships on Tech. Committees, etc. Be sure to let us know if you're on any ASHRAE committee. Another consideration is CRC attendance. Plan to attend.

Lastly, Research Promotion. You'll hear more about this later, but your individual contribution plus whatever our Chapter can give, really counts.

Let's keep our attendance up. Jim Taylor has another good program. See you November 4th.

**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
Oct. 7, 1982	Sept. 16, 1982
Nov. 4, 1982	Oct. 14, 1982
Dec. 2, 1982	Nov. 11, 1982
Jan. 6, 1983	Dec. 16, 1982
Feb. 3, 1983	Jan. 13, 1983
Mar. 3, 1983	Feb. 10, 1983
Apr. 7, 1983	Mar. 7, 1983
May 5, 1983	Apr. 14, 1983
June 2, 1983	May 12, 1983

**MAIL OR PHONE NEWS TO:**

Barbara Dilts, Editor  
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James G. Nemechek Treasurer  
  
BOARD OF DIRECTORS  
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ASHRAE CHAPTER MEMBERS CAN BENEFIT FROM ACES

ATLANTA -- ACES, ASHRAE Continuing Education Studies, is a self-assessment program for ASHRAE members and other HVAC&R professionals to evaluate how up-to-date their knowledge is of the technology they practice. The program consists of three individual study modules:

- \* Refrigerating Equipment covers condensers, evaporators, metering devices, accessories, absorption, heat pumps, and compressors.
- \* Fluid-Handling Equipment covers pumps, fans, and testing, adjusting and balancing.
- \* Systems covers air conditioning and heating ventilation, refrigeration and heat recovery.

Included in each module are a bibliography of suggested readings and a self-assessment test. The modules were developed by a committee of industry specialists who worked with the Educational Testing Service (ETS), a nationally recognized testing agency. This committee selected the subjects, developed bibliographies and tests, and prepared the questions and answers used in the self-assessment tests. In the future, other modules will be developed.

As part of the continuing education process, resource materials, whether they are part of the bibliography or not, may be used to answer questions. Approximately four to six weeks after ETS receives the test portion of the module, participants will receive a report indicating their

total score and diagnostic information for the exam's subsections.

ASHRAE will offer 2.0 Continuing Education Units for successfully finishing the examination portion, as well as a certificate of completion suitable for framing.

The cost will be \$25.00 (U.S.) per module for ASHRAE members. For non-members, the registration fee will be \$40.00 (U.S.) for one module; \$70.00 (U.S.) when registering for two modules at one time; and \$100.00 (U.S.) if registering for three at the same time.

For additional information, contact ASHRAE ACES program, 1791 Tullie Circle, N.E., Atlanta, GA 30329. Phone: (404) 636-8400, ext. 215.

In addition to ACES, ASHRAE education programs include professional development seminars, student branches at some 50 universities and colleges, and a student paper competition. \* \* \*

ROSTER REMINDER

The November meeting is the last chance to pay your Chapter dues of \$18 and to submit information for the Roster. National dues are also due at this time. Please complete the Roster information form and mail it with a check for \$18 payable to Golden Gate Chapter/ASHRAE to:

Golden Gate Chapter/ASHRAE  
c/o Duplicating Associates  
370 Brannan Street  
San Francisco, CA 94107

Don't forget to include your home and business addresses and business addresses and telephone numbers.

MINUTES OF LAST MEETING

October 7, 1982

Attendance: 154 Members  
22 Guests

1. The meeting was called to order by President Thomas Campbell at the San Francisco Engineers Club at 7:55 p.m. Self introductions of members and guests followed.

2. The minutes of the June 3 meeting were approved as published in the October Fog Dispenser.

3. President Campbell announced National ASHRAE life memberships for Irving Alger and Thomas Douglass and presented plaques to both men.

4. President Campbell announced that Don Delaney passed away last weekend and that donations may be sent to the American Cancer Society or Oral School for the Deaf in San Mateo, which was a favorite charity of the Delaneys.

5. Jim Taylor announced the Temperature Data Book was available at the door for \$11.50/copy to members; 100 copies have already been sold and only 100 more are available at this price. Checks should be made payable to Southern California Chapter of ASHRAE for \$11.72 w/tax and may be mailed to J. Taylor.

6. President Campbell introduced Barbara Dilts, Editor of Fog Dispenser and announced that she should be contacted for putting items in The Fog Dispenser.

7. President Campbell introduced Rich Leao Co-Chairman of membership committee. Rich Leao said anyone with problems concerning Fog Dispenser or membership should contact him.

8. Jim Nemechek announced next month we'll have Cal Poly students at the meeting. Jim requested sponsors for the students to pay for their dinners. He should be contacted at Air Filter/Control by anyone willing to sponsor a student.

9. President Campbell announced the Code Committee is active and will be receiving a response from the City soon on recommendations for S.F. Building Code revisions. Tom announced Glenn Claycomb is chairman of the committee.

10. A lady member proposed that the terms "husband" and "wife" be deleted in favor of "spouse" in the Roster. President Campbell directed the chairman of the roster committee, Bill Chapman, to make this change.

11. Glenn Claycomb announced the Solar Energy Committee meeting will be held on the last Thursday of the month at 4 p.m. at Marion, Cerbatos & Tomasi.

12. Don Bryant announced the commencement of ASHRAE's Continuing Education Studies (ACES). ACES is a modular home self-study course and will be available soon after Nov. 1st.

13. Gino Colacchia requested firms contact him for listing on the Honor Roll at \$50.00 per month.

14. The meeting was adjourned until 8:45 p.m. when Tom Judson the raffle committee chairman conducted the raffle. Sam P. Wallace Co. donated the gifts for the evening.

15. President elect Jim Taylor introduced the speakers for the evening on revisions to Title 24 Energy Conservation Regulations.

MINUTES - continued -

- a) Dick Charles, Energy Conservation Vice Chairman for Region X, said that the California Energy Commission is revising the non-residential energy conservation regulations. ASHRAE is represented on the professional advisory group to the C. E. C. by Dick and on the technical advisory group by Karl Guttman.
- b) John Schade who is C.E.C. project technical director for the revisions gave an overview of the procedures which are being followed.
- c) G. William Pennington who is C. E. C. office and program manager identified specific changes under consideration.
- d) Mickey Horn who is C. E. C. prime technical manager described how the C. E. C. selects new calculation methods for compliance with the regulations.

16. Following a question and answer session the meeting was adjourned by Jim Taylor at 10:18 p.m.

\* \* \* \* \*

SALE - CLIMATIC DATA MANUALS,  
REGION X

The new temperature Data Manuals will be on sale at the November 4th Chapter meeting. Golden Gate Chapter members may purchase them for the reduced price of \$11.00 plus tax, or \$11.72. One copy per member, please. Other people may purchase them for the full cost of \$17.50 plus tax, or \$18.64. Bring your checks made out to Southern CAL. ASHRAE.

PAST PRESIDENT DIES

Don Delaney, past President of the Golden Gate Chapter (1962-63), died on October 3, 1982. He had been President of and served on the Board of Directors for the G.J. Yamas Company, Inc. in South San Francisco. He is survived by his wife, Rose, his mother, two daughters, two sons and five grandchildren. Don Delaney was 58 years old. The funeral was October 6, 1982.

SOLAR COMMITTEE

The Solar Committee has begun their regularly scheduled meetings. Along with their regular business, the Committee plans some short educational presentations during their meetings; mini tours for Committee members and a few others are also planned. Some of these tours will be planned for Saturdays. In March, the Solar Committee will present a panel discussion of 3 or 4 solar topics at the regular Golden Gate Chapter meeting. The Solar Committee will meet the last Thursday of each month at 4 p.m. in the offices of Marion, Cerbatos, and Tomasi, 2015 Steiner Street, San Francisco. Contact Lona Taylor for more informations, 921-2302.

HELP THE ENGINEERS CLUB

We did it to them again! The Engineers Club received 64 reservation cards for last month's meeting. We told them on the Tuesday prior to expect over 100 dinners. 154 members and 22 guests showed up for dinner!

Return Reservation Cards, or Call  
the Club. @ 421-3184 the day of  
the meeting!!!

PRESIDENT'S CORNER - CONTINUED -

9.8 Large Building Air-Conditioning Applications

## SECTION 10.0-REFRIGERATION SYSTEMS

- 10.1 Custom Engineered Refrigeration Systems
- 10.2 Automatic Icemaking Plants and Skating Rinks
- 10.3 Refrigerant Piping
- 10.4 Ultra-Low Temperature Systems and Cryogenics
- 10.5 Refrigerated Distribution and Storage Facilities
- 10.6 Transport Refrigeration
- 10.7 Commercial Food Display and Storage Equipment

## SECTION 11.0-REFRIGERATED FOOD TECHNOLOGY AND PROCESSING

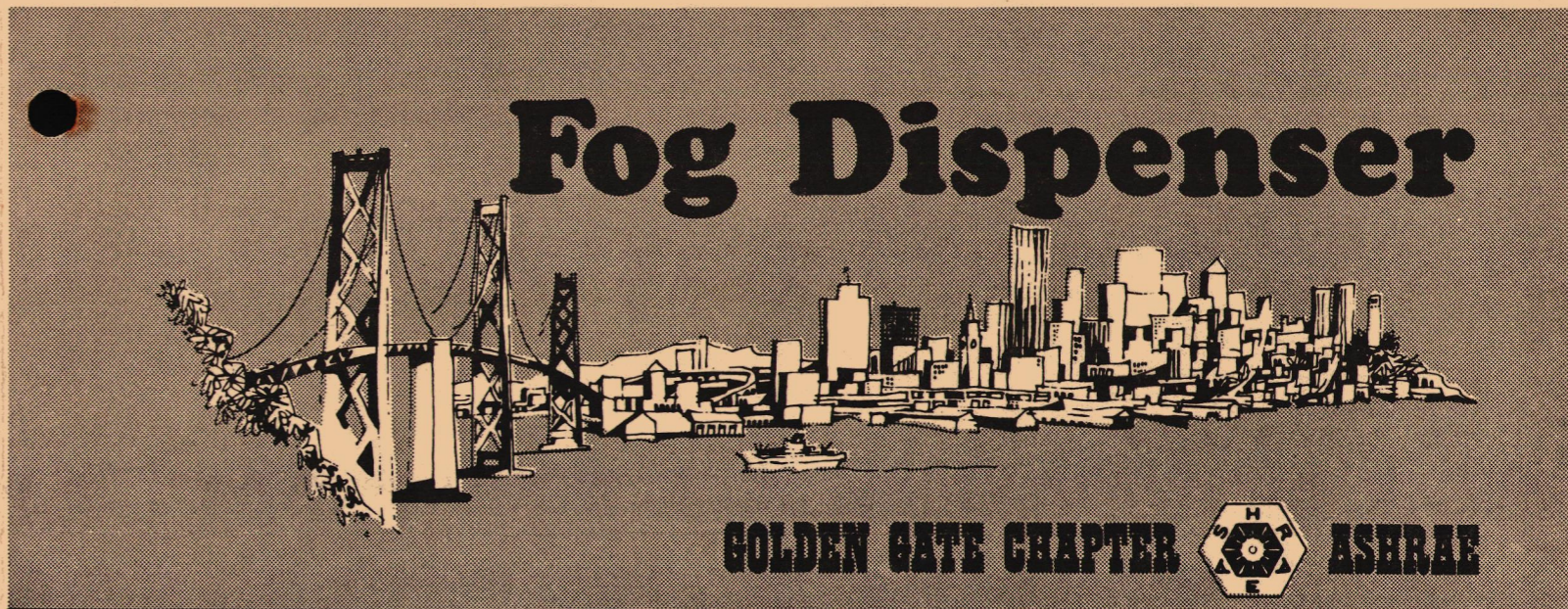
- 11.1 Meat, Fish and Poultry Products
- 11.2 (OPEN)
- 11.3 Dairy Products
- 11.4 (OPEN)
- 11.5 Fruits, Vegetables and Other Products
- 11.6 Prepared Food Products
- 11.7 Fermentation Products
- 11.8 (OPEN)
- 11.9 Thermal Properties of Food

Prospective members should submit a "biographical data form" (available from Headquarters) to the Director of Technology. Selections are made by the Committee Chairmen, usually for a three year term. Most committees require active participation at the two or more meetings they hold each year; although, some permit "corresponding" memberships for those who cannot make every meeting.

Be sure to let us know if you are on a committee as your participation earns the Chapter points toward the PAOE. As of October 31, we have 510 points toward our goal of 1900.

DINNER RESERVATIONS

Thank you for returning your dinner reservation card for the November meeting. A total of 144 reservations were made and 147 dinners were served. The Club had extra staff and the evening went very smoothly. Please remember: Return your reservation cards or call the club!!!!!! Buy your dinner ticket before going upstairs!!!!



VOLUME XXII NO. 3

DECEMBER 1982

MEETING NOTICE

DATE: December 2, 1982  
 TIME: 5:30 - 6:30 Social Hour  
 6:30 Dinner/Meeting  
 LOCATION: ENGINEERS CLUB  
 160 Sansome Street  
 16th Floor  
 San Francisco

PROGRAM

"SMACMA - Duct Construction Standards"

Mr. John Straton from the SMACMA National Headquarters will present the new Duct Construction Manuals that have been adopted by the Uniform Building Code. These standards place more responsibility on the designers to specify exactly what they want, but considerable economic savings can be the result.

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## PRESIDENT'S CORNER



Another great turnout for the November meeting. Besides a large number of new faces, it was a pleasure to see some of our older members who haven't been around for a year or two. Welcome to all of you!

President-elect Jim Taylor deserves most of the credit for the increased attendance because of the very interesting programs he has arranged. He has another for you in December. Be sure not to miss it.

In our October newsletter we mentioned that the voluntary participation by the members on local and national committees is what makes ASHRAE tick. The Society has a very small paid staff. ASHRAE's accomplishments are the result of the thousands of man-hours contributed by the membership.

The backbone of the Society's

technical strength lies in the activities of the Technical Committees (TC's), Task Groups (TG's) and Technical Resource Groups (TRG's). Technical Committees are standing committees made up of people of recognized proficiency in a specific field of interest. TG's are similar but are formed to deal with specific problems and are usually disbanded when their chores are completed.

There are approximately 90 of these committees on the following list. Surely, one of these should be of interest to you.

## ASHRAE TECHNICAL COMMITTEES, TASK GROUPS AND TECHNICAL RESOURCE GROUPS

## SECTION 1.0-FUNDAMENTALS AND GENERAL

- 1.1 Thermodynamics and Psychrometrics
- 1.2 Instruments and Measurements
- 1.3 Heat Transfer and Fluid Flow
- 1.4 Control Theory and Application
- 1.5 Computer Applications
- 1.6 (OPEN)
- 1.7 Maintenance, Maintainability and Reliability
- 1.8 Owning and Operating Costs
- 1.9 Electrical Systems
- TG Dynamic Response

## SECTION 2.0-ENVIRONMENTAL QUALITY

- 2.1 Physiology and Human Environment
- 2.2 Plant and Animal Environment
- 2.3 Gaseous Air Contaminants and Gas Contaminant Removal Equipment

(continued - page 5)

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(415) 974-5881

## PRESIDENT'S CORNER - CONTINUED -

- 2.4 Particulate Air Contaminants and Particulate Contaminant Removal Equipment
- 2.5 Air Flow Around Buildings
- 2.6 Sound and Vibration Control
- TG Health and Safety
- TG Halocarbon Emission
- SECTION 3.0-MATERIALS AND PROCESSES
- 3.1 Refrigerants and Brines
- 3.2 Refrigerant System Chemistry
- 3.3 Contaminant Control in Refrigerating Systems
- 3.4 Lubrication
- 3.5 Sorption
- 3.6 Corrosion and Water Treatment
- 3.7 Fuels and Combustion
- SECTION 4.0-LOAD CALCULATIONS AND ENERGY REQUIREMENTS
- 4.1 Load Calculation Data and Procedures
- 4.2 Weather Data
- 4.3 Ventilation Requirements and Infiltration
- 4.4 Thermal Insulation and Moisture Retarders
- 4.5 Fenestration
- 4.6 (OPEN)
- 4.7 Energy Calculations
- TG Energy Resources
- TG Indoor Environment Calculations
- SECTION 5.0-VENTILATION AND AIR DISTRIBUTION
- 5.1 Fans
- 5.2 Duct Design
- 5.3 Room Air Distribution
- 5.4 Industrial Process Air Cleaning (Air Pollution Control)
- 5.5 Air-to-Air Energy Recovery
- 5.6 Control of Fire and Smoke
- 5.7 Evaporative Cooling
- 5.8 Industrial Ventilation
- 5.9 Enclosed Vehicular Facilities
- SECTION 6.0-HEATING EQUIPMENT, HEATING AND COOLING SYSTEMS AND APPLICATIONS
- 6.1 Hot Water and Steam Heating
- 6.2 (This TC is reserved for possible subdivision of TC 6.1)
- 6.3 Central Forced Air Heating and Cooling Systems
- 6.4 In-Space Convection Heating

- 6.5 Radiant Space Heating and Cooling
- 6.6 Service Water Heating
- 6.7 Solar Energy Utilization
- 6.8 Geothermal Energy Utilization
- 6.9 Thermal Storage
- SECTION 7.0-PACKAGED AIR-CONDITIONING AND REFRIGERATION EQUIPMENT
- 7.1 Domestic Refrigerators and Food Freezers
- 7.2 Beverage Coolers
- 7.3 Drinking Water Coolers
- 7.4 Ice Makers
- 7.5 Room Air Conditioners and Dehumidifiers
- 7.6 Unitary Air Conditioners and Heat Pumps
- TG Ice-Maker Heat Pumps
- SECTION 8.0-AIR CONDITIONING AND REFRIGERATION SYSTEM COMPONENTS
- 8.1 Positive Displacement Compressors
- 8.2 Centrifugal Machines
- 8.3 Absorption and Heat Operated Machines
- 8.4 Air-to-Refrigerant Heat Transfer Equipment
- 8.5 Liquid-to-Refrigerant Heat Exchangers
- 8.6 Cooling Towers and Evaporative Condensers
- 8.7 Humidifying Equipment
- 8.8 Refrigerant System Controls and Accessories
- 8.9 (OPEN)
- 8.10 Pumps and Hydronic Piping
- 8.11 Electric Motors-Open and Hermetic
- SECTION 9.0-AIR-CONDITIONING SYSTEMS AND APPLICATIONS
- 9.1 Large Building Air-Conditioning Systems
- 9.2 Industrial Air Conditioning
- 9.3 Transportation Air Conditioning
- 9.4 Applied Heat Pump/Heat Recovery Systems
- 9.5 Total Energy Systems
- 9.6 Systems Energy Utilization
- 9.7 Testing and Balancing

(Continued - Page 6)

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Kevin F. Dowling Secretary  
James G. Nemechek Treasurer

## BOARD OF DIRECTORS

David Rifkin  
Robert Phillips  
Dart W. Rinefort

MINUTES OF LAST MEETING

November 4, 1982

Attendance: 91 Members  
53 Guests

1. The meeting was called to order by President Thomas Campbell at the San Francisco Engineers Club at 7:30 p.m. Self introductions of members and guests followed.
2. The minutes of the October 7th meeting were approved as published in the October Fog Dispenser.
3. President Campbell extended a welcome to students and staff from Cal Poly and thanked members who sponsored them for the evening.
4. President Campbell presented Pete Philios with his life membership certificate and announced that a get well card for Clyde Wilson, who was in the hospital, was being circulated at the meeting for signatures.
5. Richard Gee, Co-Chairman of the Membership Committee, announced that 20% of the ASHRAE national members in the Bay Area are not members of the Golden Gate Chapter and should be encouraged to join. Richard is moving to the East coast for two years on business.
6. Glenn Claycomb, Code Committee Chairman, gave an update on the committee's activities. The City of San Francisco has sent copies of its proposed amendments to the U.B.C. & U.M.C., which will be adopted as the San Francisco Building Code, to the Committee for review. Under the new Life Safety Code, smoke dampers in air handling systems will not be mandatory. Engineered smoke control systems will be acceptable. The Committee is also working to clarify the City requirements on Underwriter Laboratory listings for air handling equipment.
7. Past President Carl Jordan announced that the Code Committee has proposed wording for an administrative bulletin to Bob Levy, Superintendent of Building Construction, on the U.L. listing of Fan Coil units.
8. Tom Campbell announced that the Bay Area Engineering Joint Council will hold a hearing on November 16 in San Francisco on professional registration of certain engineering disciplines.
9. Tom Campbell announced that the roster will be published in the week of November 7th.
10. The meeting was adjourned until 8:30 p.m. when Tom Judson conducted the raffle.
11. President-Elect Jim Taylor introduced Mr. Bill Phaklidas of the Cal Poly faculty who gave a slide presentation on some of the equipment that has been purchased with donations from the Golden Gate Chapter Workshop Fund.
12. Jim Taylor requested suggestions for the field trip next year and introduced Mr. Roger Maineri, Consulting Acoustical Engineer, the guest speaker for the evening.
13. Mr. Maineri gave a slide presentation on some of his experiences over the past twenty years with acoustical problems in buildings. He noted that it is normal practice in buildings to locate executive suites below equipment rooms. In his experience, inertia bases are never

(Continued - Page 4)

MINUTES OF CODE MEETING, 11/9/82

Present: J. Breese            G. Nolan  
          G. Claycomb        T. Siu

1. The Committee will send BBI Superintendent Robert Levy its suggestions for an administrative bulletin regarding UL listing of equipment.
2. The Committee has received the City's draft of Chapter 18 of the UBC. Please send comments to Glenn Claycomb no later than November 29, so that a response can be sent to the City by December 1. The pre-meeting workshop before the December 2 meeting will be on Chapter 18 of the Building Code.
3. The Committee has responded to Asst. Superintendent Franklin Lew with comments on Chapter 12 and 17 of the UBC and on the UMC.
4. The next meeting of the Committee will be December 7 at noon in the offices of Glumac & Associates. Please provide your own lunch.

SPEAKERS WANTED

The San Francisco Bay Area Engineers Council, in an effort to sponsor and promote educational activities and public relations on scientific and engineering material, acts as a coordinator to refer requests for speakers on engineering subjects.

Our Chapter has been asked to provide a list of names of members who would be willing to present ASHRAE related programs in support of the Council's promotional activities. If interested, please contact Tom Reinarts, Dart Rinefort, or any Board member for further details.

MINUTES OF LAST MEETING -CONTINUED-

required under chillers and fans, but are required for pumps which tend to get out of alignment and vibrate badly. He does not recommend combination scrubbers and earthquake restraints and noted that a floating floor or suspended acoustical ceiling is ususally required below equipment rooms. Gypboard attached to the sides of ducts is a good method for stopping duct rumble.

14. Following a question and answer session, the meeting was adjourned by Jim Taylor at 9:40 p.m.

RAFFLE REPORT

Thanks to University Mechanical and Gino Colacchia for the donation of raffle prizes for the November meeting. Because of this donation, 100% of the raffle proceeds have gone to the Golden Gate Chapter ASHRAE Scholarship Fund.

We would like to find donors for raffle prizes for the December and following meetings to enable us to continue placing all of the raffle proceeds in the scholarship fund. Three raffle prizes with total \$25 to \$30 value are awarded at each dinner meeting.

To donate raffle prizes, or if you have any questions, please call Tom Judson at (415) 932-4201.

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