

ESCMT MEETING

The Officers, Board of Governors, as well as members of Golden Gate Chapter ASHRAE, are cordially invited to attend the annual general membership meeting of ESCMT (Bay Area Engineering Societies' Committee for Manpower Training, Inc.) at the Heritage Place, 44 Gough Street, on December 1, 1979 at 6:00 P.M. The main purpose of the annual meeting is the election of officers.

Following the meeting there will be no-host cocktails, dinner at 7:00 P.M., a brief program and dancing from 9:00 P.M. to 1:00 A.M.

The dinner dance is \$20 per person. For reservations, contact Howard Rideaux, Executive Director, ESCMT, 543-3383 at your earliest convenience.

ENERGY AWARD

Congratulations to Shlomo Rosenfeld of Syska & Hennessy Engineers for winning in the commercial category of Owens-Corning Fiberglas Corporation's Energy Conservation Awards Program. Efficient design of mechanical energy conservation systems in the new headquarters of the California Farm Bureau Federation in Sacramento captured this AIA sanctioned annual award. Shlomo and his co-workers will be honored December 10 at a banquet being held in New York City.

NEWS ON DUES!

Please help your Chapter and yourselves by paying your 79/80 dues. If you have lost your invoice, contact Jim Nemechek at (415) 871-6808.

This is the last FOG DISPENSER being mailed to unpaid members. Members not paid by December 15, 1979 will not appear in the ROSTER.

E-I-T COURSE

The Professional Engineering Institute has announced that its review courses for the April, 1980 engineering license examinations will begin the first week of January. A course for the Engineer in Training (E-I-T) examination, which is taken by all engineers will be offered.

The E-I-T course meets on 16 consecutive Wednesdays starting on January 2. The course cost is \$155 which includes all required materials and books. Meetings are held at Menlo College in Menlo Park.

The deadline for the E-I-T examination is February 1, 1980. Registration forms for the examination and course may be obtained by calling the Professional Engineering Institute at (415) 593-9731.

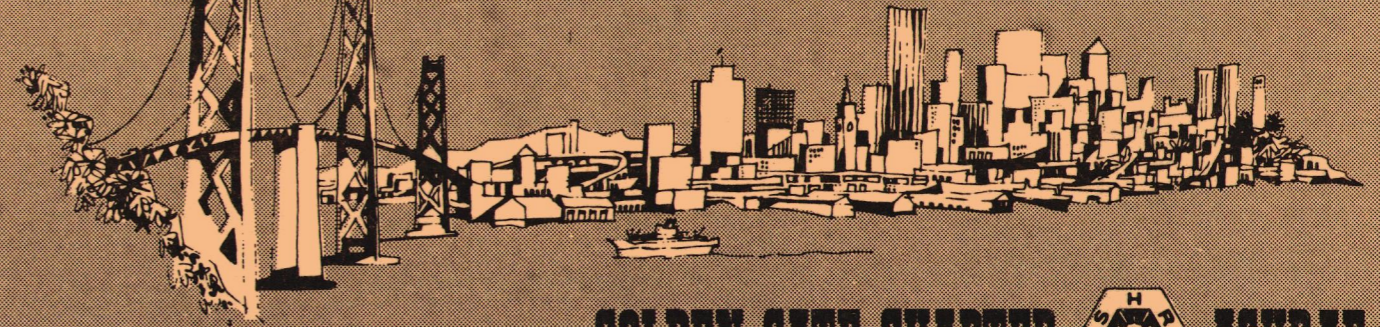
The Institute also offers free counseling and advise on qualifying for engineering registration.

GUESTS

Bill Relihan.....Thermocycle
 Gayland Abernathy.....Johns-Manville
 Vince Aiello.....Vann Engineering
 Tom Kell.....ASMAC
 Patrick Teng.....No Affiliation Shown
 Colin Felix.....E.B. Ward
 Dick Barclay.....E.B. Ward
 Daniel Mason.....Hayakawa
 Murray Kobrin.....UMEC
 Kreyne Sato.....Syska & Hennessy
 Sauveur Molinazzi.....Syska & Hennessy
 Kent Lin.....Monterey Mechanical
 Jose Abello.....No Affiliation Shown
 Ali Calgaz.....Syska & Hennessy
 Stephen Silverstein.No Affiliation Shown
 C. Ray McCullough.....Southern Pacific
 Mark Mallder.....York
 Gary Wainwright.....PG&E
 Simon Lee.....Bechtel
 Chip Eskkdsen.....Vann Engineering

Glenn Johnson.....Cal Poly
 Mike Fiorito.....Cal Poly
 Ron Sweet.....Cal Poly
 Jim Harven.....Cal Poly
 Greg Pelser.....Cal Poly
 Alan Moyal.....Cal Poly
 David Reynolds.....Cal Poly
 Richard Collier.....Cal Poly
 Larry Meyer.....Cal Poly
 Dennis Cottrell.....Cal Poly
 Erik Lindell.....Cal Poly
 Ted Ryan.....Cal Poly
 Stephen Glatt.....Cal Poly
 David Estrada.....City College
 Alfredo Estrada.....City College
 Don Covington.....City College
 Shlomo Rosenfeld.....Syska & Hennessy
 Richard Yates.....EAS
 Dale White.....Air Systems
 Todd Elmgren.....Trane

Fog Dispenser



GOLDEN GATE CHAPTER  **ASHRAE**

VOLUME XIX NO. 3

DECEMBER, 1979

MEETING ANNOUNCEMENT

DATE: December 6, 1979
 TIME: Social Hour.....5:30 P.M.
 Dinner.....6:30 P.M.
 WHERE: Engineer's Club, 16th Floor
 Hong Kong Bank Building
 160 Sansome Street
 San Francisco

MAIL YOUR RESERVATION CARD TODAY!!!!!!!

CONFERENCE ANNOUNCEMENT

What can we do today to assure technological excellence tomorrow? Find out at a conference to be held December 1st at the University of Santa Clara's Louis B. Mayer Theater from 8 A.M. to 2:30 P.M. Dr. Alfred J. Eggers and The Honorable Norman Y. Minetta will conduct workshops exploring the future needs of industry for technicians, engineers and scientists. Call Robert Miller, Chairman of the Science-Educating for the Future Committee at 926-7377 or 296-6863 if you wish to attend.

DECEMBER PROGRAM

Chairman: Jim Holden
 Subject: Kaiser ANG Project
 Coal Gasification

Granny Holman, Kaiser Engineers Vice President in charge of Heavy Industries Group, or one of his subordinates, will be the speaker for the December meeting.

The subject will be Kaiser's new ANG Coal Gasification Project in Montana that will ultimately employ upwards of 20,000 people.

NEWS ON DUES!

PAGE 4

HONOR ROLL

E.C. BRAUN COMPANY
 873-81ST AVENUE
 OAKLAND, CALIFORNIA 94621
 (415) 569-5422

Corner

President's



Thomas A. Gilbertson

November's meeting! Largest in the Golden Gate Chapter's history!

(However, if we don't send in our dinner reservation cards, we'll turn the Engineer's Club Chef into a candidate for the Muppet Show!)

City College and Cal Poly students were the Chapter's guests. Seeing and hearing students reminds me to ask myself, "How well are we training our engineers and technicians?"

Well...how are we doing?

...And what are you doing to contribute to the program?

My feeling has been that the quest for knowledge is best fanned by a perceived need. Mixing education with problems presented through practical work experience can provide the "extra" desire. Our industry is uniquely suited for "co-op" and "workshop" programs.

Knowledge is not an Olympus; rather a series of stepped plains - a steep but-tress to scale - with pure scientific understanding - followed by relatively level plain on which to practice and try the new knowledge - next, involvement - soon more knowledge is required - the next problem solved - and the plain runs into the next step.

How well are we helping shape the education system? Have you provided "feedback"? Surely by now you could use your experience to give advice on how your education could have been improved or enhanced. Why not consider writing back to your alma mater and tell them what specifically could be changed or added.

"Feedback" - to close the loop, is an item that has been missing from the American Technical Education scene.

Your experience, and by now your perceived desires, could prove very helpful in shaping an improved technical training and application.

Write a letter to your source of technical training; critique their efforts. By now, you, better than anyone else, know what is necessary and important to good technical education.

JANUARY FOG DISPENSER DEADLINE REVISED

TO DECEMBER 20, 1979

HAPPY HOLIDAYS TO ALL!!

Know a Prospective New Member?

Contact Membership Chairman:
Jim Nemecek... (415) 871-6808

Mail or Phone News to:

Joyce Owen, Editor
FOG DISPENSER
Carrier Machinery and Systems
5801 Christie Avenue
Emeryville, California 94608
(415) 658-6717

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:

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1979-1980 OFFICERS

Thomas A. Gilbertson... President
James Holden... President-Elect
Robert Phillips... Secretary
Thomas Campbell... Treasurer

BOARD OF DIRECTORS
James Taylor Dick Glumac
Kevin Dowling

MEETING MINUTES

The November 1, 1979 Chapter Meeting was attended by 75 members and 40 guests.

1. Meeting called to order by President Thomas Gilbertson at 7:47 P.M.
2. Introduction of Members and Guests. Roy Anderson introduced four student guests from San Francisco City College and Bill Phaklides introduced twenty-six student guests from Cal Poly Air Conditioning Club.
3. The Minutes of the October General Meeting were approved as published in the November FOG DISPENSER.
4. Past President Richard Charles announced that nationwide the ASHRAE Society is sponsoring an energy conservation design contest in which the best new and retrofit energy conserving designs will be given awards. Details of this contest will be forthcoming.
5. President Gilbertson asked that the Chairmen of the various Chapter Committees each prepare a progress report for publishing in the December FOG DISPENSER.
6. Following a break in the meeting, President Gilbertson conducted the Raffle awards. President Gilbertson announced that Cal Poly hats bearing the ASHRAE insignia were available for \$5.50 from Cal Poly Air Conditioning Club members.
7. President-Elect James Holden introduced Bill Relihan and Marty Ensinger of the Thermocycle Corp. to explain their system of utilizing cooling tower water directly in cooling coils after it has been cleaned by fine straining and chemically treated. Mr. Relihan stated that this system was a viable alternative to the use of 100% outside air (economy cycle) for free cooling. Mr. Relihan said that his company was in the process of working out some method to have this system accepted by the State in lieu of the 100% outside air requirement of Title 24. However their biggest present market is in the retrofit applications. Mr. Relihan stated that an analysis of the year-around outdoor wet bulb temperatures and periods when it was lower than 50-55 degrees F. would be essential to the determination of the feasibility of this system. Mr. Relihan said that water off the cooling tower could approach as close as two degrees to the outdoor wet bulb temperature. Mr. Relihan discussed the history, hydraulics,

INDUSTRY NOTES

- +RICHARD EHRENBERG and HANK HUDDLESTON have formed DESIGN ENGINEERING SERVICES in San Francisco to perform all types of mechanical consulting services including solar and energy audits.
- +You'll find genial JACK ZAROOR back in the control business with ROBERTSHAW'S local office.
- +Welcome and best wishes to MARK MALLDER a new sales engineer with GLENN CHEEK of the local YORK office.
- +MAX WOLFF wants everyone to know that he does work at DELUCCHI SHEET METAL in San Francisco, despite what he may blurt out during the introductions at meetings.
- +ONIUM ENGINEERS, INC. is the new name for CARLOS ABRAHAMS & ASSOCIATES. Carlos has consolidated his office into the San Francisco location.
- +DAVID K. LOW has moved his consulting practice to 47 Lafayette Street in the City.
- +Both INTERNATIONAL ENGINEERING and H.K. FERGUSON have moved to 180 Howard Street in the City. BOB WISTORT is now HVAC Chief for H.K. FERGUSON.
- +Another welcome and best wishes to JIM HALL and JEFF KERL at CARRIER MACHINERY AND SYSTEMS DIVISION, Sales Engineers both.

DON'T FORGET!

December is the month to make your 1979 TAX DEDUCTIBLE contribution to the Research Committee. Send your checks to Lu Bedard at Dinwiddie Construction, Suite 400, Crocker Plaza in San Francisco.

actual operation, water treatment and economic evaluation of this system. 8. Following a brief question and answer period, President-Elect Holden adjourned the meeting stating that the topic for the December General Meeting is planned to be "Coal Gasification" as presented by members of Kaiser Engineers.

INDUSTRY NOTES

JIM TAYLOR is now in private practice in Lafayette as a mechanical and control systems engineer. Best to you, Jim!

Welcome to PHIL RUSSO, a new VP at TEMPCO in Daly City. Phil was formerly the president of Noise Control (Kinetics).

Looking for JYA CONSULTING ENGINEERS? They now have new quarters at 50 Brannan Street in the City.

DOTTIE ROARK recently joined KELLER & GANNON as a Design Engineer.

GLEN UMONT deserted the vendor ranks for a position with ABRAHAMS & ASSOCIATES, consultants in the City.

JERRY YAFFE and PHIL RUSSO have formed a new corporation ENERGY REDUCTION SYSTEMS, INC. to sell power factor correction equipment for commercial and industrial facilities.

Gene Valerio

CODE COMMITTEE MEETS

The Chapter Code Committee recently held its' first meeting of the 1979-1980 season. The programs which the Committee plans to pursue for the coming year include various areas of interest to the ASHRAE community. Some of these programs are:

*Review proposed revision to the Uniform Mechanical Code for the purpose of submitting recommendations to the UMC Code Revision Committee.

*Evaluate San Francisco Code requirements for the installation of fuel oil systems for Emergency Generators (i.e. NFPA Standard No. 37).

*Develop design parameters for elevator shaft ventilation in high-rise buildings during a fire or smoke alarm condition.

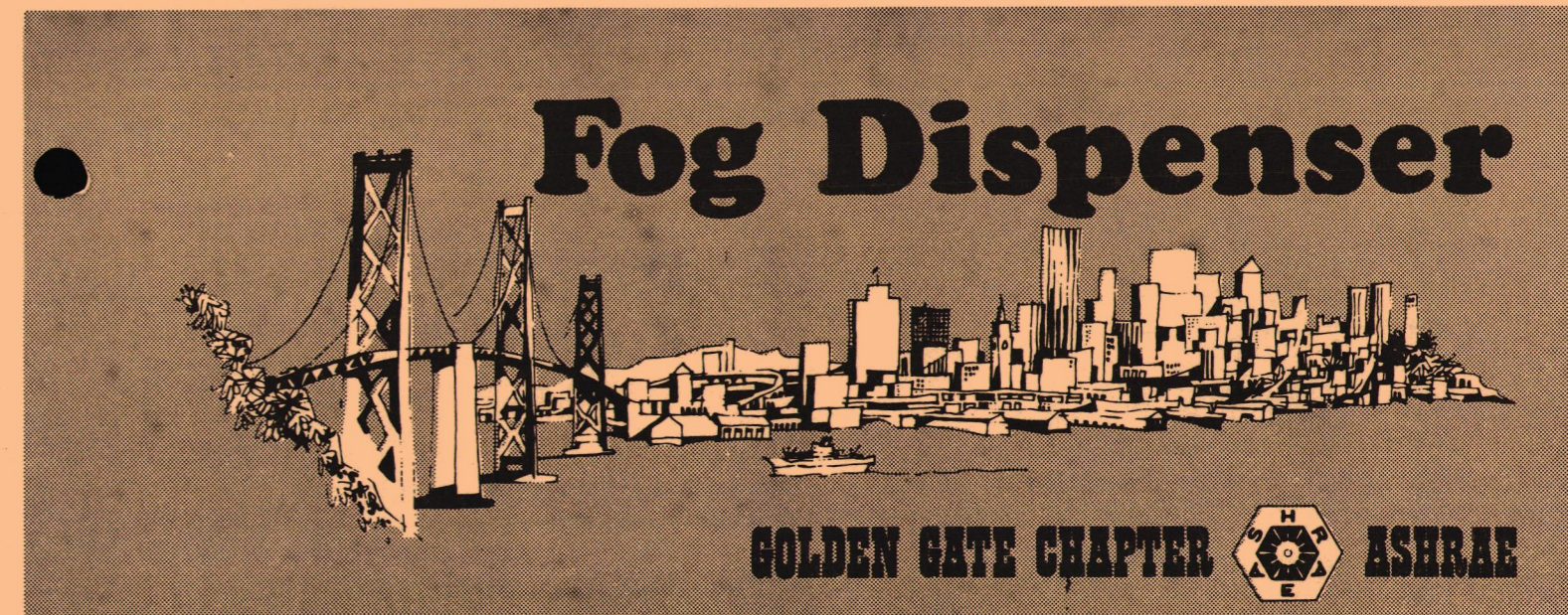
The Committee is also seeking a few more members. If you are interested in participating on this committee, please contact me at (415) 981-1555.

David Fernandes
Code Committee Chairman

OCTOBER GUESTS

Elmer Johnson	BOMA	Colin Felix	E.B. Ward Co.
Larry Taviani	Honeywell	Todd Elmgren	Trane
Douglas Chan	Glumac & Assoc.	Scott Maxen	UPC
Mark Goldstein	Glumac & Assoc.	Chip Eskildsen	Vann
Kim Storm	Owens Corning	Emanuel Alcazar	West Mechanical
Murray Kobrin	UMEC	Alice Meyer	Vandament Engrs.
L. Dry Ginn	UPC	Richard Yates	Engineered Air
L. Sloe Ginn	ACE	Fred Jacob	Syska Hennessy
J. Voshell	Cal. Hydronics	Kreyne Sato	Syska Hennessy
Bill Giussi	Johnson Controls	David Scribner	Bechtel
Don Miller	Hawke Engineers	Stephen Weicker	Business Expansion

DON'T MISS SEEING
YOUR NAME IN PRINT
IN OUR NEW ROSTER
PAY YOUR DUES NOW!!



VOLUME XIX NO. 2

NOVEMBER, 1979

MEETING ANNOUNCEMENT

DATE: November 1, 1979
TIME: Social Hour.....5:30 P.M.
Dinner.....6:30 P.M.
WHERE: Engineer's Club, 16th Floor
Hong Kong Bank Building
160 Sansome Street
San Francisco

PLEASE RETURN YOUR RESERVATION CARD NOW!

PRE-MEETING WORKSHOP

Due to lack of response from our Members the November Pre-Meeting Workshop has been cancelled.

If responses improve we will schedule a December Workshop.

Sherman Brown
Pre-Meeting Workshop Chairman

NOVEMBER PROGRAM

Chairman: Jim Holden
Subject: Strainercycle

William C. Relihan, Manager, Western Region, for Thermocycle, Inc. will be the speaker for the November meeting.

The subject matter concerns a hydronic economizer system, filtering condenser water in the chilled water loop.

CAL POLY CLUB IN TOWN

Twenty-five members of the Cal Poly Air Conditioning Club will be hosted by our Chapter for the November meeting. Mr. Faklaides, as usual, will be the faculty representative accompanying the students. Making the arrangements will be Glen Johnson. The Cal Poly Air Conditioning Club will be spending Thursday, Friday and Saturday in the Bay Area.

HONOR ROLL

DINWIDDIE CONSTRUCTION COMPANY

LU BEDARD JIM LLOYD

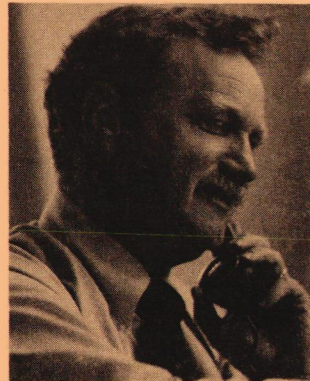
CROCKER PLAZA, SUITE 400

986-2718

SAN FRANCISCO 94104

Corner

President's



How very pleasant to see so many members of the Golden Gate Chapter at our first meeting! This really proves that summer is over and we're all ready to go back to work. The potential impact of the High-rise Initiative probably would be most felt in the "indecision". A closer reading of the proposition, as I understand it, would basically drive every building to an individual review by the Board of Supervisors. I understand it to be this way, because not all the bonuses are spelled out and are specifically, as pointed out by one of the speakers, left to the Board of Supervisors. To me this means that without a definite set of exact guidelines everything is a "political" question. I think that this is not a very good idea.

What is that they say "the best government is the government that governs the least"?

For our November meeting, we'll have

Chapter playing host to the air conditioning group from Cal Poly - in San Francisco for some field trip.

I'm sure we'll have to have a show of hands of everyone who has attended that school that is presently in the Chapter.

Also, I'm sure they will be in voice that night because I've never heard the Cal Poly fight song but with that kind of a turn-out, we ought to be able to entice something from them!

Dick Charles, I understand, is planning a EBTR seminar as well as being very active in getting the new temperature data book started. See you November 1.

TREASURER'S REPORT

As of September 30, 1979:

Income.....	\$ 815.19
Expenses.....	\$ 125.06
Members Equity.....	\$6419.07

Thomas Campbell
Treasurer

PAY YOUR DUES NOW!!!!!!!!!!!!

Know a Prospective New Member?

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MEETING MINUTES

Golden Gate Chapter Meeting on October 4, 1979. Attendance: Members 76 Guests 22

1. General Meeting was called to order by President Thomas Gilbertson. Introduction of Members and Guests was made.

2. Motion made, seconded and passed that the minutes of the June meeting as published in the October Fog Dispenser be accepted as printed.

3. President Gilbertson asked for a moment of silence from the audience in memory of Ed Akizuki, who passed away recently.

4. A discussion initiated by Sherman Brown, Pre-Meeting Workshop Chairman, was held relative to the desire of the Membership to continue the Pre-Meeting Workshop, inasmuch as the attendance has been generally poor in the past. No conclusion was reached. President Gilbertson stated that this question would be given further study by the Board, and he solicited further communication from the Members on this subject.

5. Past Chapter President Richard Charles who is the Region 10 vice-chairman of the Energy Temperature Action Seminar program being sponsored by ASHRAE (National) under a contract with the Department of Energy (DOE), asked of the Members and Guests, how many people would be interested in attending a 3½ hour seminar. The response indicated a lack of enthusiasm for this subject.

6. President Gilbertson announced that the next ASHRAE Semi-Annual Meeting will be held on February 4-7, 1980 in Los Angeles. The meeting will be held in conjunction with a trade show and exhibit.

7. Past President Dick Glumac presented Life Membership Awards to Dan Vandament and Frank Crouch. Not in attendance but also receiving the same award was Frederick H. McLaughlin, Jr.. Receiving awards for Life Associate Member although not in attendance was Charles D. Quan and James

McClenehan. Receiving an award for service to the Chapter in the capacity of editor of the Fog Dispenser for the past two years was William Schultz.

8. President Gilbertson announced that at the November General Meeting, Cal Poly student members of the Air Conditioning Club will be invited as guests.

9. There being no "Old Business" or "New Business", the business portion of the General Meeting was adjourned.

10. Following the Raffle, conducted by Grant Bentley, President-Elect James Holden introduced the guest speakers for this evening's program.

11. The subject for this evening's program is the San Francisco Anti-Highrise Initiative (Proposition "O" on the upcoming ballot).

Speaking in behalf of the initiative was Mr. Gerald Cauthen, Chief Muni Planner for San Francisco Public Utilities Commission and among the founders of "San Francisco Tomorrow".

Speaking against this initiative was Mr. Elmer Johnson, Executive Director for San Francisco Building Owners and Managers Association.

The speakers discussed the details of this proposition and each spoke of its impact on the environment, taxes, community services, cost of living, energy and transportation. Following a brief response of each speaker to the comments of the other, the meeting was opened up to a question and answer period and some members of the audience added their views.

President Gilbertson adjourned the meeting following the evenings' program.

Robert Phillips
Secretary

GLUMAC PAYS ATTENTION...

Thanks to Past President Dick Glumac for his excellent response to the San Francisco Examiner's Editorial on August 25, 1979. Below and on the next page we reprint the Editorial (with the Examiner's permission) and Dick's "edited" reply which was published on September 24, 1979. (For a copy of Dick's entire letter contact him at 398-7667).

Page 36—S.F. EXAMINER ☆ Sat., Aug. 25, 1979

Opinion

Inattention to indoor air

PRESIDENT CARTER delivered an environmental message Aug. 2 that emphasizes the need to continue the fight to clean up the environment.

Missing in the president's message was any reference to a new concern of scientists: indoor air pollution.

Most people spend at least 70 percent of their time inside, and buildings consume about 10 percent of the energy used in the United States. By sealing up homes and buildings to better conserve energy, we unwittingly may be sealing ourselves into harmful climates conducive to infectious diseases and various contaminations.

According to a recent report, scientists testing energy-efficient model homes — with double insulation, sealed windows and weather-proofing designed to reduce energy consumption by at least one-third — found they contained 10 percent more radioactive gas than a typical "leaky" house.

Modern buildings with windows that don't open accumulate humidity, odors and polluting gases, some researchers report.

The World Health Organization recently concluded that "More and better data relating health to indoor air quality are urgently needed."

While the United States has paid scant

attention to the problem of indoor pollution, some other countries (Sweden, Denmark and West Germany) recently issued standards for indoor ventilation. Few such standards exist in the United States.

U.S. government health officials have been investigating hundreds of chronic respiratory ailments believed to be related to long-term exposure to high concentrations of formaldehyde in mobile homes. Many kinds of household furnishings and building materials contain formaldehyde, asbestos and other potentially harmful substances that accumulate in closed environments, posing health risks to humans.

Research supported by the Department of Energy at the Lawrence Radiation Laboratory revealed that a single gas stove can yield more carbon monoxide and nitrogen dioxide in less than one hour in a sealed kitchen than U.S. ambient air quality standards allow for these pollutants.

Builders, architects and planners should pay more attention to the potential for indoor pollution. The concept of buildings with windows that cannot be opened should be re-evaluated, in light of current and future energy needs.

In the long run, it may be better to open the window — the air may be cleaner outside!

INDOOR AIR

...AND RESPONDS

"We read your article in the Opinion column of August 25 titled "Inattention to Indoor Air", with great interest.

It seems that you are unaware of the achievements of our society in the field of heating, ventilating and air conditioning and the quality of the indoor air.

Ever since our society was founded in 1894 it was heavily involved in research of the indoor environment. We could venture to say that millions of research dollars have been spent by scientists and engineers at various universities and research laboratories on the subject of indoor environment.

The society publishes four volumes of ASHRAE handbooks containing pages and pages of standards and recommended design guides for the indoor environmental conditions. Several ASHRAE standards are also adopted by the American National Standards Institute as an American standard.

Several chapters in the ASHRAE Handbook 1977 (Fundamentals) deal directly with the subject of indoor environment. Our technical committee on Environmental Quality has research groups and many other task groups and technical committees directly and continually involved in the research and development of standards and guidelines on the "indoor environment"

We could give the full report on the activities of ASHRAE in the field of human comfort. However, such a report

is beyond the intent of this letter. We merely wish to demonstrate that the information is available.

We also strongly object to some statements in your article... "while the United States has paid scant attention to the problem of indoor pollution". Such statements are not fair to the American technology in general and to ASHRAE in particular.

Now that you know that information is available, the question may arise - how is it used. Most building codes, including the San Francisco Building Code, refer directly to ASHRAE standards in many air conditioning requirements.

Unfortunately this is not the case for mechanical ventilation - the local code requirement is so minimal. Our local chapter is actively involved through its "Code Committee" in updating building code, and we shall strive to correct this deficiency.

This particular ventilation requirement is also regulated by the State via the California Energy Commission, Conservation Division, Energy Conservation Standards for new buildings. The state standards rely heavily on ASHRAE standards, therefore all new construction will be built under good standards of indoor environment.

We firmly believe you are suffering from the same malady that many of us in the science and engineering suffer from: information explosion. It's all there. Many more items of information are available than we can possibly know where to look for.

D.M. Glumac, P.E.
Past President
c/o Glumac & Associates
San Francisco

PRACTICAL SOLAR INFO

Argonne National Laboratories Manual ANL79-15 covering the design and installation of thermal energy storage is available from National Technical Service, U.S. Dept. of Commerce, 5285 Port Royal Road, Springfield, VA 22161. Price per printed copy, \$11. The purpose of the manual is to provide practical information to select the type thermal energy storage system that best fits the building needs and to design and install the system. A short viewgraph seminar covering the vital topics of the manual will be available for local ASHRAE members if several persons wish to devote 3 hours to this subject. Contact Dave Rifkin at 786-3500 if you are interested in this subject.

D.O.E. EMERGENCY LAW

ASHRAE has entered into agreement with the Department of Energy to sponsor the training seminars on how to meet the emergency building temperature restrictions law which went into effect on July 16, 1979 and will run until April 16, 1980. There has been one training session held in San Francisco and in five other cities in ASHRAE's Region 10. The ASHRAE attendance to those seminars was very small. We are now interested in determining how many people would like to have an additional seminar in San Francisco. A survey will be taken at our first meeting for the Golden Gate Chapter on October 4, 1979.

Richard Charles, Region 10
Energy Management Vice Chairman

INDUSTRY NOTES

*LEN LEWIS has reactivated his HVAC and plumbing design practice in San Francisco as the LEWIS MECHANICAL GROUP with DAN BUSHNELL as his associate.
*Has everyone read the article in the June, 1979 ASHRAE Journal by CARL JORDAN? He's getting to be a regular contributor.
*ROGER LEFLER of LEFLER ENGINEERING has moved to new offices in San Rafael and LLOYD BYRON has joined him as a principal.
*DON BENTLEY has moved his large engineering group to newly remodeled offices at 560 Mission Street in San Francisco.
*AL FERREIRA has established his own business in Oakland as FERREIRA SERVICE CO.
*OLD FACES AT NEW PLACES
...KREYNE SATO at SYSKA AND HENNESSY
...JOHN CARRIGER and GARY COLBY at ABRAHAMS AND ASSOCIATES, San Francisco
...BOB ROOS at MONTGOMERY AND ROBERTS
...GERRY CRUZ at SKIDMORE, OWINGS & MERRILL
...BOB WISTORT at H.K. FERGUSON
*Welcome to new people at EDWARD B. WARD & CO.: DICK BARCLAY, Territory Manager and COLIN FELIX, Sales Coordinator.
*BOB McLEAN and his partners purchased the E.C. COOLEY COMPANY and are now operating as SHAPE, INC. from the same San Francisco location. They recently added GOVERNAIR and SING-AIR to their other Sanitary, Heating and Process Equipment lines.

Gene Valerio

SUPPORT YOUR LOCAL CHAPTER!
SEND NEW MEMBERS TO JIM NEMECEK

PRE-MEETING WORKSHOP QUESTIONNAIRE

REPLY TO: SHERMAN BROWN 467-8680
C/O TEMPCO EQUIPMENT CO., INC.
400 TALBERT STREET
DALY CITY, CALIFORNIA 94014

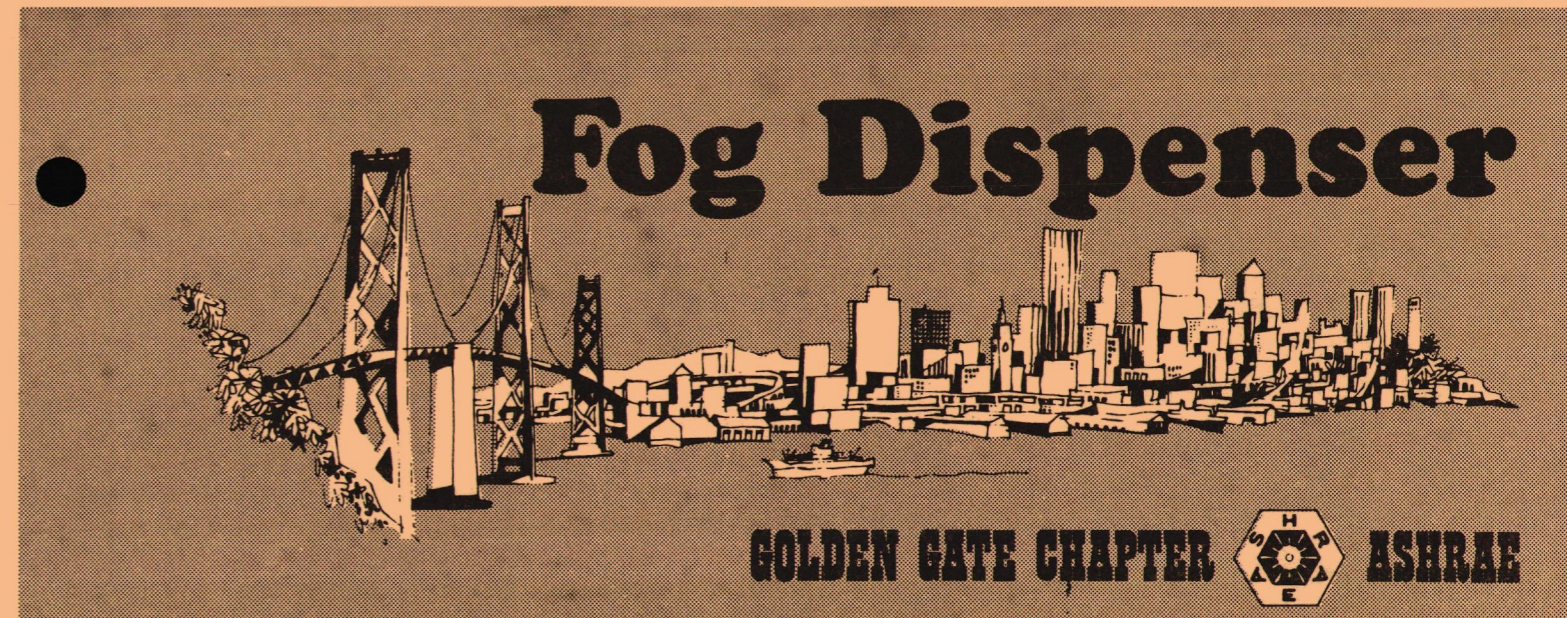
IN ORDER TO CONTINUE THE PRE-MEETING WORKSHOP WE WOULD LIKE TO KNOW WHO IS INTERESTED IN ATTENDING THESE MONTHLY MEETINGS.

___ I AM INTERESTED IN ATTENDING
PLEASE CONTINUE

___ I AM NOT INTERESTED

IF YOU ARE INTERESTED PLEASE TAKE THIS OPPORTUNITY TO SUGGEST TOPICS THAT WOULD BE OF INTEREST TO YOU.

1) _____ 2) _____ 3) _____



VOLUME XIX NO. 1

OCTOBER, 1979

MEETING ANNOUNCEMENT

The first meeting of the Golden Gate Chapter for 1979-1980 will be held at the Engineer's Club on the 16th floor of the Hong Kong Bank Building, 160 Sansome Street, San Francisco on Thursday, October 4, 1979. The social hour will begin at 5:30 P.M., with dinner at 6:30 P.M.

PRE-MEETING WORKSHOP

IMPORTANT NOTICE TO ALL MEMBERS

Attendance has been poor in the past. Everyone is invited to attend. November and December meetings will be the last unless attendance improves significantly.

Contact me at 467-8680 or return the enclosed questionnaire (see page 6). Your comments are needed and appreciated.

Sherman Brown
Pre-Meeting Workshop Chairman

OCTOBER PROGRAM

Chairman: Jim Holden
Subject: San Francisco Anti-Highrise Initiative

Gerald Caughen, Chief Muni Planner for San Francisco Public Utilities Commission and among the founders of San Francisco Tomorrow, will speak in favor of the anti-highrise initiative, to be voted on in November.

Elmer Johnson, Executive Director for San Francisco Building Owners and Managers Association, will speak against the initiative.

The two speeches will be followed by a free-for-all allowing all members attending to get into the act.

*RAFFLE*RAFFLE*RAFFLE*RAFFLE*RAFFLE*
Return your reservation card today so it can win the raffle for you!!

OOO HONOR ROLL OOO

CARRIER MACHINERY AND SYSTEMS DIVISION

Centrifugal Chillers, Absorption Chillers, Air Handling Units, Terminals and

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Corner

President's



Thomas A. Gilbertson

**WELCOME
BACK
TO
ASHRAE
1979-1980**

Did you ever think that you would be doing something in 1980? Your support of ASHRAE on both the local and national level is both necessary and very much appreciated. We are glad to have you here as members of the Golden Gate Chapter, the sixth largest Chapter in the U.S. We have an opportunity to contribute to and guide the affairs of a great number of people, particularly where the use of energy is involved. Through ASHRAE, at the local and national levels, we have the opportunity to make this contribution. Francis Bacon said, "Every man is a debtor to his profession." Through ASHRAE, you have the opportunity to repay some of that. Your Golden Gate Chapter has a real legacy of organization and it was easy to see that after attending last year's CRC Conference in Seattle when comparing other Chapter activities to ours. Our seminar, pre-meeting workshops, roster, Fog Dispenser publication, research activity, scholarship activity (both Cal Poly and San Francisco City College), our technical activities regarding energy and temperature data books

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

1979-1980 OFFICERS
 Thomas A. Gilbertson President
 James Holden President-Elect
 Robert Phillips Secretary
 Thomas Campbell Treasurer

BOARD OF DIRECTORS
 James Taylor Dick Glumac
 Kevin Dowling

simply provide the basis for an outstanding Chapter.

Our individual members' contributions should be reviewed. As an example, did you read Carl Jordan's publication in the June ASHRAE Journal? The article was most certainly technically correct and in addition provided a bit of guidance and philosophy for the shaping of one's motives in our business. We are proud of Carl as a Chapter member. More of our members should take the time to contribute as Carl has.

Perhaps it is time to examine our individual motives for membership in ASHRAE. In my opinion, our heating and air conditioning industry has matured beyond the rough and tumble days of "alleged price fixing and temperature control business" and the trading of "lead" by mechanical contractors. It appears to me that we are beyond the time (hopefully) of hand to mouth existence, (as I cannot recall a single member of our Chapter starving in the past years), and we should address the problem of making a "well leveraged contribution" to society. Our ideas, guidance and activities can make a very meaningful difference to the rest of society. We have an opportunity, through our technical activities to share the advantages of technology.

It appears to me that refrigeration, better filtration, ventilation, heating, cooling, humidifying and acoustical considerations are just some of the things that people more and more are beginning to take not only for granted but almost as a "right". Our society is the one that shapes the activity and technology in these areas, and you have a very big part in it. Without addressing at this time the almost timeworn considerations of "energy", energy conservation and solar, we can find whole areas of activities both in the technical and business aspects of our industry to address ourselves. Let's hope that the Golden Gate Chapter, through its members' contributions in 1979-1980, is one that will be well remembered.

Welcome back! We are glad to have you! Let's move ahead!

CAL POLY THANKS

The following acknowledgment was received from California Polytechnic State University Foundation:

"Your society's check for \$1250 in support of the Golden Gate Chapter ASHRAE Workshop Fund has been received and deposited to the appropriate account.

Your organization's steadfast, continued support is to be commended. You may be sure those receiving the benefit of financial aid for their work, while, at the same time, receiving the practical experience in their field not easily acquired, appreciate this generosity even more than I!

It is truly a pleasure to extend my personal thanks and appreciation, once again, for your good wishes and your demonstrated interest and concern."

Dale W. Andrews
 President

JUNE MEETING GUESTS

Thank you to the following guests who helped make our June meeting a success!

- | | |
|--------------------|-----------------|
| Julie Taylor | Emanuel Alcazar |
| Pat Valerio | David Call |
| Dee Campbell | Mark Demler |
| Durdica Glumac | Pauline Jaimes |
| Juanita Gilbertson | Bill Guissi |
| Joe Bibat | Bruce Dobbs |
| Richard Hamer | Ann Rink |
| Marie Kniveton | Dorothy Brose |
| Wilma Jordan | Mildred Mow |
| Betty Gendler | Mary Walker |
| Heleen Shea | Jack Lofy |
| Adele White | Eric Synhorst |

**Know a Prospective
 New Member?**

Contact Membership Chairman:
 Jim Nemechek (415) 871-6808

Mail or Phone News to:
 Joyce Owen, Editor
 FOG DISPENSER
 Carrier Machinery and Systems
 5801 Christie Avenue
 Emeryville, California 94608
 (415) 658-6717

WHAT DO YOU THINK?

The Golden Gate Chapter Code Committee has been attempting to persuade the San Francisco Building Department to create a separate mechanical plan check/inspection department.

Some of the arguments in favor of this proposal are:

- 1) San Francisco is the only major city in the U.S. which does not provide specific mechanical inspection.
- 2) The San Francisco Municipal Code contains provisions governing mechanical systems, but the enforcement does not merit adequate consideration because it is a small part of the overall enforcement responsibilities of the Building Department.
- 3) A separate mechanical plan check/inspection division would enforce minimum standards for the design and construction of mechanical systems in the City.

Some of the arguments against this proposal are:

- 1) Mechanical plan check/inspection fees would increase the cost of construction.
- 2) Delays in procuring permits and inspections would be increased due to an additional regulating body to those presently in existence.
- 3) San Francisco building construction has continued without this regulation and has not incurred any significant problems, so therefore, would there be any benefit to the regulation?

The Code Committee is interested in receiving comments from the Chapter members with regard to this subject.

David A. Fernandes
 Code Committee Chairman

TREASURER'S REPORT

As of June 30, 1979:
 Checking \$ 17.55
 Savings \$5524.03
 Members Equity \$4341.58

Robert Phillips
 Treasurer, 1978-1979

A S H R A E

GOLDEN GATE CHAPTER

1979 - 1980

Officers

Thomas A. Gilbertson	President
James Holden	President Elect
Robert Phillips	Secretary
Thomas Campbell	Treasurer

Board of Directors

James Taylor
Kevin Dowling
Dick Glumac

Regional Director

Wally Donley

COMMITTEE CHAIRMEN

<u>Committee</u>	<u>Chairman</u>	<u>Board Liason</u>
Membership Program	Jim Nemechek	Jim Holden
Pre-Meeting Workshop	Jim Holden	
Tennis Tournament	Sherman Brown	Tom Campbell
Honor Roll	Joyce Owen	Kevin Dowling
Fog Dispenser	Joyce Owen	Tom Campbell
Roster	Glenn Cheek	Jim Taylor
Temperature Data	Dick Charles	Kevin Dowling
Scholarships	Rich Wells	Bob Phillips
Research	Lu Bedard	Bob Phillips
Seminar	Sandy Sadowski	Jim Taylor
Energy Conservation	Dart Rinefort	Kevin Dowling
Solar Energy	Dave Rifkin	Jim Taylor
Publicity/Public Relations	Dave Attard	Tom Gilbertson
Raffle	Grant Bentley	Tom Campbell
ESCMT	Don Bryant	Jim Holden
Engineers Joint Council	Tom Reinarts	Jim Taylor
Code	Dave Fernandes	Tom Campbell
Reception/Attendance	Woody Hoogs	Bob Phillips
Honors & Awards	Dick Glumac	
Education	Roy Anderson	Kevin Dowling
Historian	Max Wolff	Bob Phillips

JUNE MEETING MINUTES

The June meeting of the Golden Gate Chapter of ASHRAE was held at the Engineer's Club, June 7, 1979. President Dick Glumac presided.

1. President Glumac announced that this meeting would be the Past President's night and the annual Corporation meeting.
2. An announcement was made regarding the first meeting of the new Northern Alabama Chapter at Scottsboro, Alabama.
3. Tom White requested an indication from this Chapter concerning hosting the 1986 Society convention. The Chapter indicated an overwhelming affirmative vote. Based on this consensus Tom White can make an application at the Society meeting in Detroit.
4. Ed Walker announced that personnel interested in a professional license and possessing adequate experience, could have the E.I.T. examination waived.
5. Tom White announced that Allan Wicks father, Ken Wicks, is the new Region 3 Chairman.
6. The following committee chairmen gave capsulized progress reports.

Membership: Jim Nemechek. Membership was increased by 40 new regular members and 30 student members.

Education: Roy Anderson. Various informational lectures at Bay Area colleges and high schools.

Fog Dispenser: Bill Schultz. Ms. Joyce Owen will be the editor.

Seminar: Sandy Sadowski. 312 persons attended.

Energy: Kevin Dowling. Review of ASHRAE 90-75 Standard.

Temperature Data Book: Dick Charles. Data book is being revised and will be reissued.

Research: Lu Bedard. Research donations by the Chapter was \$6000 plus \$1600 in collections.

Honors and Awards: Gene Valerio. The following nominations were made:

ALCO Award: Tom Simonson
Bob Voelz

Fellow Award: Tom White
Don Bryant
Dick Freidman
Carl Guttman

7. Awards were made to the following:

Woody Hoogs	Grant Bentley
Jim Nemechek	Jim Breese
Sherman Brown	Sandy Sadowski
Tom Reinerts	Bill Schultz

8. The gavel was passed from retiring President Dick Glumac to incoming President Tom Gilbertson who will be officially taking office on July 1, 1979.

Attendance: Members.....66
Guests.....28

NEW LIFE MEMBERS

We wish to notify members of our Chapter that the following have been promoted to Life Members as of July, 1979:

Dan Vandament.....Life Member
 Charles D. Quan..Life Associate Member
 Frederick H. McLaughlin, Jr.
Life Member
 James W. McClenehan.....
Life Associate Member
 Frank K. Crouch.....Life Member

Our congratulations to each of you.

Dick Glumac
Honors & Awards Chairman

GOLDEN GATE CHAPTER - ASHRAE

COMMITTEE REPORTS

ESCMT - D. BRYANT, SR.

Golden Gate Chapter, ASHRAE, is one of 12 sponsoring societies of ESCMT (Engineering Societies' Committee for Manpower Training, Inc.). Diplomas were presented to eight ESCMT graduates at our March meeting.

ESCMT's goal from June 1978 thru May 1979 was to conduct OJT (On-the-Job Training) consortiums or programs to train 40 minority youths as drafters and technicians in order that they may become gainfully employed in the fields of engineering and architecture.

Under the San Francisco OJT Contract 40 were trained, but the proposed Oakland OJT Contract was not funded. Thirty-nine of the 40 trainees who entered San Francisco's OJT Program completed the program and were kept as permanent employees with their firms. At present 40 youths are in training, and another OJT program will start June 11, 1979.

ESCMT's Scholarship Program encourages and assists OJT graduates to continue their formal education. Fourteen ESCMT's OJT graduates received \$10,000 from the scholarship fund for the 1978-79 school year. Two OJT graduates recently received their B.A. Degree in architecture from U.C. Berkeley.

In the Summer Jobs Program ESCMT continues to seek summer employment for architectural and engineering students. Summer employment was found for all students who submitted resumes last year. The employment picture looks good for this year.

According to Howard Rideaux, Executive Director, Our newest ESCMT-Future Tech Program is being planned and implemented on a limited scale. It is

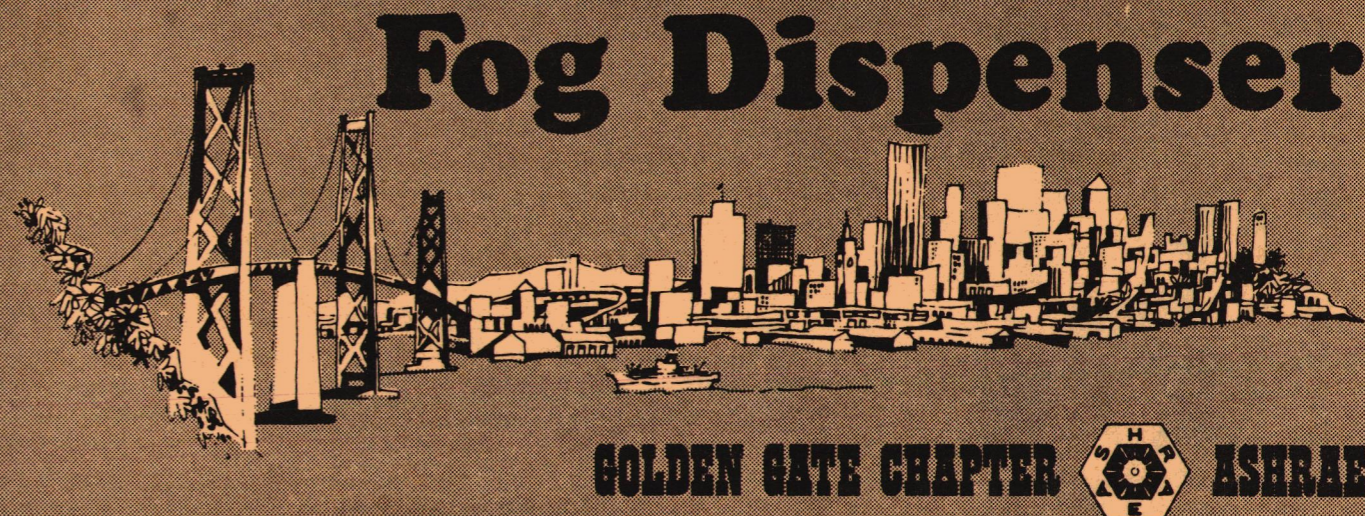
designed to identify and prepare minority students in the San Francisco School System for careers in the physical sciences, engineering and architectural fields.

Pelton Academic Middle School has been chosen as the pilot school for this project. Beginning in September 1979, speakers from industry will visit the classroom weekly to provide exposure to fields of technology through demonstrations and audio-visual presentation. A Science Club will be initiated to explore basic concepts and principles of construction and operation of scientific projects. Field trips will be sponsored during the school year to various industrial sites. Counseling sessions will be provided in an informal continuous manner. Monthly workshops will be held to bring students, parents, teachers and counselors together with technical professionals.

As part of ESCMT-Future Tech Program we will conduct a two-week summer program at San Francisco State University June 18-June 29, 1979. The College of Engineering will host 30 seventh grade students as participants in the program.

Plans are being made for a summer school program for 20 ninth grade students at Cogswell College. This program will offer special classes in math, science, English, study methods and labor market orientation. Students in this program will receive high school credits.

The Professional Engineering Institute is a state-approved, non-profit education organization. It is an equal opportunity employer and admits to its courses students of any race, color, and national or ethnic origin.



VOLUME XVIII NO. 9

JUNE, 1979

MEETING NOTICE

The final meeting of the Golden Gate Chapter for the 1978-79 year will be held at the Engineer's Club on the 16th floor of the Hong Kong Bank Building, 160 Sansome Street, San Francisco, on Thursday, June 7, 1979. The Social Hour will begin at 5:30 P.M., with dinner at 6:30 P.M.

PRE-MEETING WORKSHOP

Chairman: Sherman Brown 6:00 -
6:30 PM
Upstairs

Topic: Energy Management

Speaker: Allen Wicks - SMACNA

Allen will make a slide presentation on "Managing your Energy in Commercial Buildings".

GRANT BENTLY has arranged great prizes for this final meeting of the 1978-79 year. Buy your raffle tickets early to increase your chances of winning.

JUNE PROGRAM

The June meeting will feature installation of new chapter officers, transfer of duties, and awards for various individuals. All past presidents and their wives will be guests of the chapter. All wives are invited to attend this final meeting of the year.

There will be a raffle of the returned reservation cards! The one picked will receive a free dinner for the October meeting next fall. Send in your reservation cards early.

HONOR ROLL

CONSULTANTS COMPUTATION BUREAU

ENERGY ANALYSIS & LIFE CYCLE COSTING OF ALTERNATIVE BUILDING SUBSYSTEMS

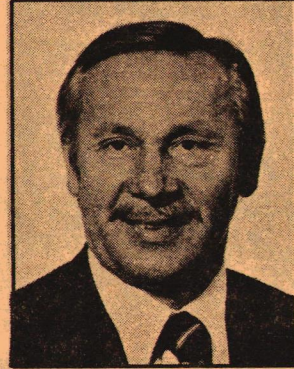
ENERGY STUDIES FOR TITLE 24 COMPLIANCE

Zulfikar Cumali, Grant Bently, George Marton

2930 Lakeshore Avenue Oakland 94610
(415) 465-0511

Corner

President's



DICK M. GLUMAC

The June meeting is the last regular meeting of the Chapter and in accordance with the Bylaws it will be a Meeting of the Corporation. All those who had responsibilities during the fiscal year 1978-79 shall present their report at the meeting, including the president.

If I were asked to give a brief report it would be simply: "WE HAD ANOTHER GOOD YEAR".

I am thoroughly satisfied that all of us, at all levels of responsibility did their best resulting in another excellent year. In other words we have satisfied our own standard of performance. The information from the Region and the National indicates that they also think we did really well.

Thanks to all of you.

One of the most amazing facts about our Chapter is the availability of volunteers for all levels of involvement. I know this for fact remembering that last June when calling various people for positions on committees no one refused.

The experience on the "Board" is gratifying in several ways. One meets so many people and one learns how "ASHRAE" operates at all levels. Consequently one becomes more attached to the Society and becomes more proud for being a part of it.

Thanks to you all, WE HAD ANOTHER GOOD YEAR.

This June marks two important milestones in the Chapter operations. Departure of Gene Valerio and beginning of service on the Board for Kevin Dowling. Farewell to Gene, my chief adviser, and best wishes to Kevin.

Hope to see you all at the June meeting so that I can personally thank you for your support.

TREASURER'S REPORT

FINANCIAL STATEMENT - MARCH 31, 1979

<u>Assets</u>	
110 Checking Acct.	\$ 8,012.21
120 Savings Acct.	5,455.60
TOTAL ASSETS	\$13,467.81

<u>Liabilities</u>	
220 Research - National Fund	\$ 0.00
230 Cal Poly Workshop Fund	125.00
240 Temp. Data Book Fund	1,200.00
TOTAL LIABILITIES	\$ 1,325.00

<u>Member's Equity</u>	
299 General Fund	\$12,142.81
TOTAL LIABILITIES AND EQUITY	\$13,467.81

Know a Prospective New Member?

Contact
Membership Chairman:
Jim Nemechek. .415/871-6808

Mail or Phone News to:
Bill Schultz, Editor
FOG DISPENSER
MCC Powers
1305 Grandview Drive
So. San Francisco, CA 94080
(415) 871-1944

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

The first meeting of the fall will be in October.

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1978-1979 OFFICERS
Dick M. Glumac..... President
Thomas A. Gilbertson... Vice-Pres.
James M. Holden Secretary
Robert Phillips Treasurer

BOARD OF GOVERNORS
James G. Taylor Tom Campbell
Eugene Valerio

GOLDEN GATE CHAPTER - ASHRAE

COMMITTEE REPORTS

MEMBERSHIP - J. NEMECHEK

Regional records show an increase from 521 to 560 regular members and from 38 to 72 student members. In addition, a concentrated effort has been made to regain delinquent members, and also advance the grade of those members who are eligible.

ENERGY MANAGEMENT - K. DOWLING

Committee is currently reviewing the revised drafts of ASHRAE Standards 90-1-75R and 100.1P and 100.2P standards on Energy Conservation in existing buildings.

Briefly reviewed the D.O.E. Performance Standards for buildings.

Allen Wicks & Sandy Sadowski have given a number of talks to various groups on the ASHRAE slide presentation "Managing your Energy". Allen will be showing these slides at the workshop before the June ASHRAE meeting.

The committee is working with the State Energy Commission to develop a program for a number of Parametric studies to be run on various types of buildings not currently covered in the budget numbers of the State Energy Regulations as well as to re-study some of the buildings which are already covered.

It is hoped these studies will result in more accurate budget numbers, will result in modifications, additions or deletions from the standards to better reflect energy conservation, will result in the development of a simplified manual energy calculation method for compliance with the State Energy Regulations and will allow the State Regulations to be retained after the D.O.E. Regulations go into effect.

RESEARCH PROMOTION - L. BEDARD

The Chapter has made their yearly contribution in the amount of \$6,000 which represents the proceeds from the yearly seminar. This large contribution represents a substantial part of the Chapters goal for 1978-79. The balance is made up from individual and corporate donations. A mailing went out this month which will make it very simple to contribute this year. Remember, this is a tax deductible contribution of which 100% goes for research, none of the contributions go toward fund raising since all the efforts are voluntary. Let's get behind this years efforts and make it as successful as last year.

FINANCE - R. PHILLIPS

Date: April 30, 1979
Monthly Income: \$3,917.40
Monthly Expenses: \$7,722.65
Members Equity: \$8,432.56

RECEPTION/ATTENDANCE - W. HOOGS

In addition to the usual duties of reception and attendance taking, the job of reorganizing the ASHRAE name badges consumed a good deal of effort. The badges are now placed in alphabetical groupings with the current membership displayed in the special "Palmer" hanging cases. Members not current will find badges in containers. Additional duties of Sergeant-at-Arms and Chief Electrician have taken a minimum of time and effort.

TEMPERATURE DATA BOOK - D. CHARLES

The board has authorized TDM Committee to proceed on formulation of a book following the Southern California's Book "Percentage of Total Hours of the Year" format. Overatures are being made to create a joint book with the other California chapters.

CRC 79 REPORT

CRC 79 was held May 9, 10, 11, & 12 in Seattle, Washington at the Washington Plaza Hotel. Present from the Golden Gate Chapter were:

- Tom Gilbertson - Delegate
- Jim Holden - Alternate Delegate
- Gene Valerio - Past President & Board Member
- Tom Campbell - Board Member
- Kevin Dowling - Energy Committee Chairman
- Don Bryant - Educational Committee Chairman Pro Tem
- Jim Nemechek - Membership Committee Chairman
- Jack Palmer - Past President
- Carl Jordan - Past President
- Jack Kniveton - Past President
- Tom White - Past President
- Bob Sweezy - Member
- Chuck Tarnoff - Member

Unfortunately, our sizeable turnout was not enough to place in the Man - Mile award which went, as usual, to the Hawaii Chapter. Other awards went to Puget Sound for the Director's Cup, Puget Sound for the Golf Trophy, and to Oregon for the Francis Brown Award for best publication.

Incidentally, since this was the last CRC meeting of the region as now aligned, it was decided by the delegates to retire the golf trophy and to turn over to the newly aligned Region X, the Man - Mile, Francis Bacon, and Director's Cup perpetual trophies.

Announced by Wally Donley, Regional Chairman, were the standings in the race for the Presidential Awards of Excellence. To date eleven of seventeen chapters have qualified, including Golden Gate Chapter in seventh place.

Wally Donley also announced that to date the region's research fund had achieved 83% of its goal.

Golden Gate's Chapters motions before the delegates fared well. Our motion to raise the numerical

number of fellows from 30 to 35 per year to 45 to 50 per year was carried. However, International President Morris Backer informed the group that the numerical restriction to number of fellows was removed three years ago and that the only reason for lack of increase in annual appointment of fellows is due to lack of applications. Our motion to create a regional CRC reserve fund by assessing each regional chapter on a per member basis was carried in a revised form by the Hawaii Chapter, which proposed a per member assessment of 75 cents to create a regional fund to be used for loans to host chapters, repayable at conclusion of the CRC meeting.

Local chapter members, selected by the delegates, for recommendation to the regional chairman for society and regional level offices were as follows:

- Society - Meeting Arrangements Committee - Gene Valerio
- Regional- Nominating Committee Alternate - Gene Valerio
- Energy Management Vice Chairman - Dick Charles

CRC meetings locations for future years were selected as follows:

- 1980 - Sacramento
- 1981 - San Jose
- 1982 - Tucson
- 1983 - Reno
- 1984 - Phoenix
- 1985 - San Joaquin
- 1986 - Las Vegas
- 1987 - San Diego
- 1988 - Hawaii
- 1989 - Southern California
- 1990 - San Francisco

The meeting terminated with best wishes from the newly aligned Region X to the newly created Region XI consisting of the old Region X Chapters: Oregon, Puget Sound, Inland Empire, British Columbia and Alaska plus five Canadian Chapters of the old Region II.

...CRC Continued...

Tom White has been appointed to the International Public Affairs Committee by President Elect Hugh McMillan.

James M. Holden
Alternate Delegate

EIT EXAM

Engineers seeking registration as Professional Engineers are reminded of the July 6 deadline for returning their examination applications. The Engineer-In-Training deadline is August 31.

If you have questions about the exams--how to qualify or prepare for them--you are invited to a no-cost, no-obligation question and answer hour to be held at 7 p.m. on June 19 at Menlo College in Menlo Park. The session will be presented by the Professional Engineering Institute which will again offer preparatory review courses starting in July for the E-I-T, Mechanical, Electrical and Chemical exams.

To obtain more information or to reserve a place at the introductory session, call (415) 593-9731 or write: Professional Engineering Institute, P.O. Box 911, San Carlos, CA 94070

RECORDS UPDATE

The Society's Membership Department wants to update their records to show your current position and company affiliation. Many of us have not kept Headquarters informed, so you may still be listed as a Junior Draftsman with Joe Blow and Associates. Drop a note with current information to:

ASHRAE Membership
345 E. 47th St.
New York, NY 10017

Remember to do this any time your position changes. Send any address changes to the Membership Department also.

WEST IS BEST

A warm pleasant day for golf, if we ignore all the lost balls, water hazards and large trees. Many struggled valiantly, were beaten by the elements but survived; others were not effected by the narrow fairway and dense forest and emerged triumphant overall.

The winners were as follows:

Low Gross	Gene West	77
2nd Low Gross	Per Sonander	89
	John Cuenlass	89
3rd Low Gross	Pete Filios	90
4th Low Gross	Herb Duncan	91
Low Net	Joe Guglielmo	55
2nd Low Net	H.W. Baker	60
3rd Low Net	W.B. Schultz	60
Longest Drive	Gene West	-285 yrds
Closest to Pin	Bill Pollock	21'6"

The prime rib dinner was excellent and we hope to see you all next year.

INDUSTRY NOTES

Congratulations to TOM WHITE, who has been selected to serve on the Society's PUBLIC AFFAIRS COMMITTEE.

BILL MCCLELLAN and PETER VALERIO proudly announce the relocation of PIPE SHIELDS, INC. office and major manufacturing facilities to expanded quarters at 308 Terraine Street, San Jose, CA 95110. Phone number is unchanged: (408) 998-5420.

RUTH O'HARE is now in charge of all commercial estimating at BELL PRODUCTS, INC., contractors in Napa.

Best wishes to MIKE KISIDAY, who will be leaving a consultant in the City this month to become Assistant Director of Facilities Engineering at STANFORD UNIVERSITY.

Golden Gaters seen wandering around Seattle at the Region X Conference included: DON BRYANT, TOM CAMPBELL, KEVIN DOWLING, TOM GILBERTSON, JIM HOLDEN, CARL JORDAN, JACK KNIVETON, JIM NEMECHK, JACK PALMER, BOB SWEZEY, CHUCK TARNOFF, GENE VALERIO, and TOM WHITE.

GOLDEN GATE CHAPTER - ASHRAE

COMMITTEE REPORTSSOCIAL - H. DUNCAN

The ASHRAE Gala Spring Semi-Formal Dinner Dance was acclaimed as a success by all fortunate enough to attend. The dance orchestra seemed to have something for everyone, the prime rib was great. The facilities of Don Dickson's St. Francis Yacht Club were more than satisfactory, even though the conversation starter was the lack of heat brought about by the heating boiler failure--at an ASHRAE function.

TENNIS TOURNAMENT - C. MCLAUGHLIN

Everyone got a good workout at the first joint San Jose-San Francisco ASHRAE Tennis Tournament. In the match for top honors, the team of HOWARD FRIESEN and GRANT BENTLEY overcame ED MERINO and DICK PORTER by the score of 6-4, 6-2. The other finals match in this flight was an exciting one. After winning the first set 6-4, MIKE CORY and JOHN PETRIANOS were defeated by DICK STITES and DAVE BROCKMAN who took each of the second two sets 7-6, 7-6.

JIM ATTARD and WERNER KUNKEL (a guest of LEONARD FRIEDMAN'S) beat MILT MCLEOD and LARRY TAVIANI 6-4, 6-4 to win their flights. The runner-up match was won by GAY YAMAGIWA and ED MCJUNKIN, JR. After they lost the first set to DALE BRIGGS and DAVE ATTARD 3-6, youth triumphed and won the next two sets 6-4, 6-4.

There was an exceptionally large turnout of 26 players with good representation from both San Jose and San Francisco Chapters.

The excellent sandwiches and liquid refreshments were ably handled by ED MCJUNKIN, SR. assisted by wife PAT and son RYAN.

Many thanks for this help and to all others who assisted with this

tournament.

CODE - J. BREEZE

Committee is investigating the concept that elevator shafts should be pressurized during fires, and will present its findings to a pre-meeting workshop next fall. The committee will meet next to formulate a proposal to the city for mechanical inspection of new construction.

RAFFLE - G. BENTLEY

The new raffle prize system was successful in generating money for the scholarship fund. The June meeting prizes will be two tickets to the Concord Pavilion to see Johnny Mathis, and other summer time-type prizes. Buy plenty of tickets to insure you are a winner!

CRC-X, 1979 - T. GILBERTSON

See Jim Holden's report elsewhere in this issue.

PUBLICITY - D. FRENZEL

The prime function of the committee this year was to publicize the annual seminar and the Spring Gala. Both were apparently successful.

HONORS AND AWARDS - E. VALERIO

The Chapter has nominated the following members for the Fellow Award: DON BRYANT, DICK FRIEDMAN, KARL GUTTMANN, and TOM WHITE. For the ASHRAE-ALCO Award for public service, we have nominated TOM SIMONSON and BOB VOELZ.

GOLF - D. STEVENS

56 ASHRAE members participated in the Annual Tournament.

See results elsewhere in the Fog Dispenser.

HAVE A GOOD SUMMER
SEE YOU NEXT FALL

NEWS FROM HEADQUARTERS

The U.S. Department of Energy and ASHRAE will jointly sponsor a conference entitled "Thermal performance of the Exterior Envelopes of Buildings". The Conference will be held at the Orlando Hyatt Hotel in Orlando, Florida, December 3 through 5, 1979.

The purpose of this conference is to provide an opportunity for those interested in thermal envelope systems to present results of their work and participate in technical discussions. General topics to be covered are dynamic thermal performance, impact of moisture and latest heat, air leakage, field measurement methodology, energy standards, construction practices, and related subjects concerning energy use.

Anyone interested in presenting a paper at this conference should contact Dick Glumac for further details.

...Headquarters Continued...

New Chapter

The Board of Directors has granted a charter for the formation of the North Alabama Chapter, and their charter night is scheduled for June 14, 1979.

If you would like to send letters or congratulatory telegrams to this new chapter, in line with the usual custom, the messages may be addressed to:

Mr. Otto J. Nussbaum
Acting President, North Alabama Chapter
Halstead & Mitchell
Div. of Halstead Industries
P.O. Box 1110
Scottsboro, Alabama 35768

HONORS AND AWARDS

Congratulations to Donald C. Bryant, Golden Gate Chapter, for receiving the E.K. Campbell Award from the Society. Don was one of four region X members to receive an award.

YOU KNOW ITS GOING TO BE A BAD DAY WHEN:

1. You wake up face down on the pavement.
2. You put your bra on backwards and it fits better.
3. You call Suicide Prevention and they put you on hold.
4. You see a "60 Minutes" News team waiting in your office.
5. Your birthday cake collapses from the weight of the candles.
6. Your only son tells you he wishes Anita Bryant would mind her own business.
7. You turn on the news and they're displaying emergency routes out of your city.
8. You wake up to discover that your water bed broke and then you realize that you don't have a water bed.
9. Your horn goes off accidentally and remains stuck as you follow a group of Hell's Angels on the freeway.
10. Your wife wakes up feeling amorous and you have a headache.

COMMITTEE REPORTS

MEMBERSHIP - J. NEMECHEK

This month we joined three new members.

RECEPTION/ATTENDANCE - W. HOOGS

Total present at March meeting:
 Members: 75
 Guests: 13

SOCIAL - H. DUNCAN

Annual Social Date: Saturday,
 April 21, 1979.
 Place: St. Francis Yacht Club
 San Francisco

GOLF TOURNAMENT - D. STEVENS

See the enclosed flyer concerning the annual golf outing to be held May 24. See reverse side for map to the golf course.

RAFFLE - G. BENTLEY

Sold 46 raffle tickets with \$24.00 going to the Scholarship Fund. Prizes were:

- 1) 2 box seats to the Giants-Dodgers game,
- 2) 2 Giants Coffee Mugs,
- 3) 2 Giants Beer Mugs.

...minutes continued...

The question and answer period was given over mostly to the discussion of what represents beneficial occupancy and when it reasonably and legally commences.

Respectfully submitted,
 Jim Holden, Secretary

SCHOLARSHIP - R. WELLS

Response to recent Fog Dispenser request for donations to the Workshop has been UNDERWHELMING! Have received only 5 donations. Any member that can afford to pay IRS what they want these days should be able to spare \$5 or \$10 to help a struggling engineering student! Please DONATE - contact Richard Wells - Chairman at 524-1477 or better still mail your check made out to Golden Gate ASHRAE Workshop to: R. Wells
 c/o 925 Kearney St.
 El Cerrito, CA 94530

TENNIS TOURNAMENT - G. CHEEK

Golden Gate and San Jose Chapters will be holding a joint tennis tournament on May 11. Contact Glen Cheek or Chuck McLaughlin for further information.

MEETING GUESTS

Bruce Dobbs	Carrier
Joyce Owen	Carrier
E. Alcojar	Western Mech.
Sherry Callouette	Entek
Felipe Woo	Gsinghua U.
Harold Fry	Bechtel
Keith Campbell	LLL
Mike Rubio	Yamas
Peter Dietz	Trimax Controls
Bob Sarro	Lennox
Fred Schaffer	Johnson Control
Ann Rink	N.S. Wright
Tom Schappert	Flow Test.

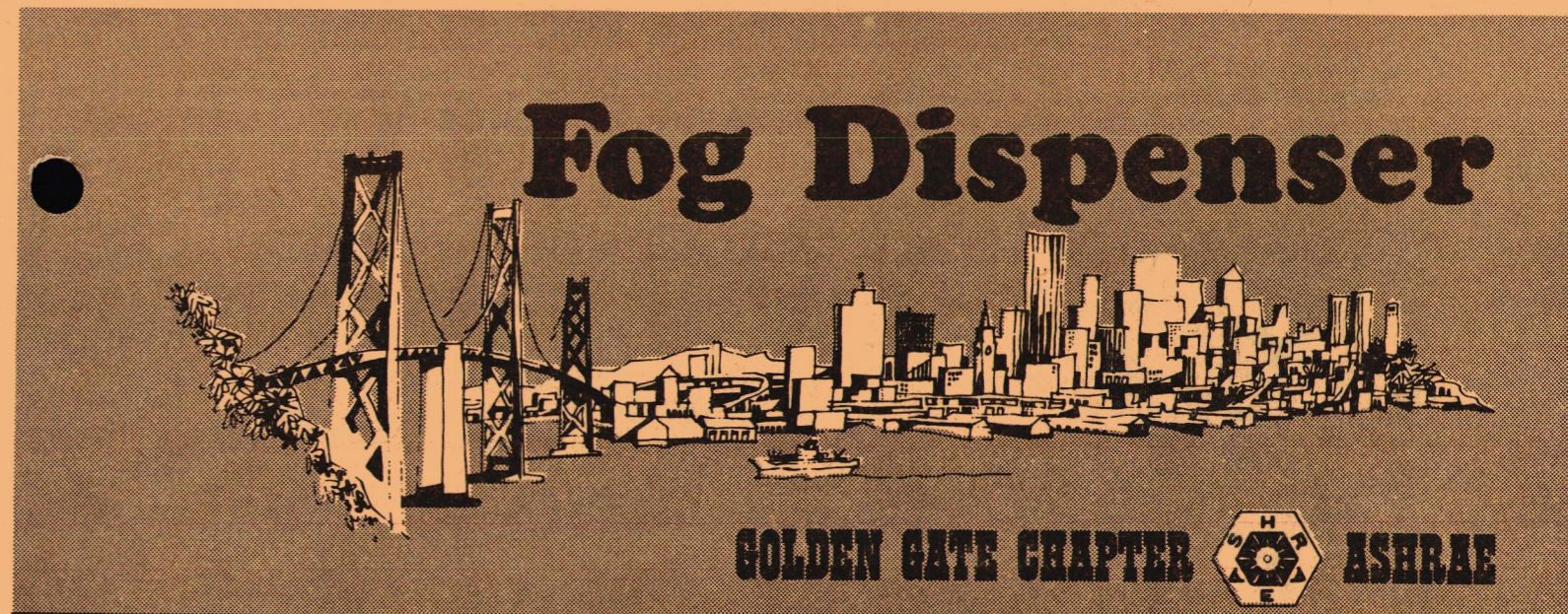
The following are additions for your 1979 Golden Gate Roster:

DUNCAN, HERB (Phyllis) FLAME AIR, INC.
 * 325 Corey Way, #114, So. San Fran. 94080; 588-8437
 451 Oak Circle, #8, Menlo Park, 94025; 324-3100

GEIS, PAT (Sumi) MARION, CERBATOS & TOMASI
 * 361 Oak Street, S.F. 94102; 863-7755
 6321 Arlington Blvd, Richmond, 94805; 236-7938

KARBOWSKI, TOM, TRANE CO.
 * 1485 Bayshore Blvd, S.F. 94124; 467-3751

RUBINS, JAY (Carla) TEMPO EQUIP. CO.
 400 Talbert St. Daly City, 94014; 467-8680
 * 904 Beach Park Blvd, Foster City, 94404; 572-1523



VOLUME XVIII NO. 8

MAY, 1979

MEETING NOTICE

The May meeting of the Golden Gate Chapter will be the annual social to be held April 21 at the St. Francis Yacht Club. See the enclosed flyer for reservations and further information. The next regular meeting will be held June 7, 1979 at the usual place and time.

PRE-MEETING WORKSHOP

There will not be a pre-meeting workshop in May, but come plan ahead for June to hear Kevin Dowling speak on Energy Management.

ENERGY CONFERENCE

The San Jose Chapter of ASHRAE will present its Sixth Annual Energy Management Conference Friday, April 20, 1979; at the LaBaron Hotel in San Jose. The title for this years conference is "Energy Conservation and Reduced Operating Costs through Improved Maintenance Procedures". The fee for the program which runs from 8:30 a.m. to 4 p.m. is \$25.00 per person.

CHAPTER IN THIRD PLACE

The Golden Gate Chapter has slipped to third place in the regional standings for the "Presidential Award of Excellence". The chapter is awarded points in six categories: Membership growth, Meeting attendance, Research fund contributions, Education activities, Energy Management, and CRC attendance. The chapter currently has no points in the last two categories and only minimal points for Research fund contributions.

CRC-X 1979

CRC-X, 1979 will be held at the Washington Plaza Hotel in Seattle, Washington on May 8 through May 11. If you have not received a hotel reservation form and other pertinent information, contact Jim Holden or Tom Gilbertson.

Support your Local Chapter--
 ATTEND THE ANNUAL SOCIAL

—HONOR ROLL—
 QUALITY TAKE-OFF SERVICE

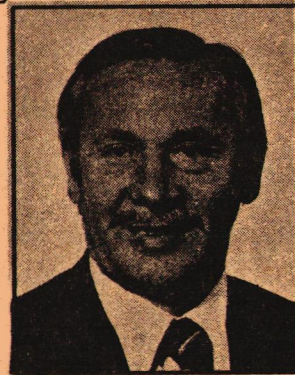
Laurie Ingram

850 South Van Ness San Francisco 94110

(415) 282-8220

Corner

President's



DICK M. GLUMAC

The Annual Seminar was a great success, thanks to Sandy Sadowski and all the people that helped. The list of the helpers is too long to be given here, but one name must be mentioned, that of Jim Taylor, who filled the gap when he saw the need for help.

In spite of time crunch we are all in due to business boom, I was pleased to see the progress in all the committees. I would like to see a little better response on the Research Promotion and Cal-Poly Scholarship Fund. You will be contacted shortly by Lu Bedard and Rick Wells regarding donations to their respective committees.

Let us all try very hard for the next two months to achieve the goal of performance as good as we had last year.

See you April 21 at the St. Francis Yacht Club for the SPRING GALA.

INDUSTRY NOTES

Look for JIM LYNN back at his old desk at SCOTT COMPANY Oakland.

TEDDIE JACOBS has accepted a position as Design Engineer with DONALD BENTLEY and ASSOCIATES.

Welcome Back, LOUIE GRAMAGLIA! Louie is now Chief Estimator at MARELICH MECHANICAL in San Bruno.

NEW MEMBERS

The Golden Gate Chapter welcomes the following new members:

- Greg Braak
- Ed Schommer
- Bruce Johnson
- Glenn Umont
- Gary Roseme
- James Keller
- Doug Gilbert
- Javan Farsai

TREASURER'S REPORT

	2-28-79	3-31-79
Income	\$ 2766.55	\$ 2917.58
Expenses	\$ 742.32	\$ 2159.46
Members Equity	\$11479.42	\$12142.81

NEWS FROM HEADQUARTERS

NEWSLETTER

The National Board of Directors has approved the publishing of a newsletter by the Public Affairs Committee concerning governmental action on National and State levels which affects Society members.

Details of recent energy legislation and implementation will be reviewed.

MINUTES FROM LAST MEETING

The April meeting of the Golden Gate Chapter of ASHRAE was held at the Engineers Club, President Dick Glumac presiding.

1. The minutes of the March meeting, as published in the Fog Dispenser, were approved.

2. Glen Cheek, chief counter of the election ballots, announced the results as follows:

President - Tom Gilbertson	120
Bob Montgomery	1
John Warner	1

President Elect - Jim Holden	125
Secretary - Bob Phillips	122
Treasurer - Tom Campbell	122
Incoming Board Member - Kevin Dowling	123
Past President - Dick Glumac	115

3. Herb Duncon, social chairman, circulated a signup sheet for the annual social to be held at the St. Francis Yacht Club.

4. Sandy Sadowski announced a successful seminar with an attendance of 325.

5. Glen Cheek announced a joint tennis tournament with the San Jose Chapter to be held May 11. Chuck McLaughlin is the organizer from the San Jose Chapter.

6. Rich Wells reported an underwhelming total of 5 contributors to date totaling \$105.00 for the Cal Poly Workshop Fund.

7. Dick Glumac reported we have slipped from 1st to 3rd in the regional standings for the Presidential Award of Excellence.

8. Richard Gee introduced Harold Wong of Bechtel, who is active in the Chinese American Institute of Engineers and Scientists of San Francisco. Mr. Wong then introduced a guest of the Institute Mr. Phillip Woo, Vice

...minutes continued...

Chairman of the Department of Architecture at the Tsinghia Institute of Architecture in Peking, China. Mr. Woo spoke very shortly explaining he had been a student here from 1945 to 1950 and was enjoying his visit very much.

9. After intermission Tom Gilbertson introduced a panel of local chapter members scheduled to discuss "Equipment Startup". The panel consisted of: Vic Bach of Western Plumbing & Heating Dick Friedman of Engineered Air Glen Cheek of York Corp. Lou Bedard of Dinwiddie Co. Dick Friedman, speaking from the point of view of a design/build contractor, commented on component failures, deterioration of quality control at the factories and failure of installation personnel to read instructions, all contributing to increased expense in startup. Vic Bach, addressing himself more to the plan and spec installer issue, described start-up procedure for a theoretical installation proposed by Tom Gilbertson.

Glen Cheek, representing the equipment supplier point of view, discussed problems confronting the factory startup personnel, main complaint being that invariably the equipment is not ready to scartup when the factory man is called for. Foremost among the missing connections are electric, but also frequently missing are gas connections, missing gas meters, incomplete control systems and incomplete chilled or hot water piping.

Lou Bedard, representing the mechanical system responsibility for a large general contractor, revealed the frustrations of attempting to tie everything together in the HVAC systems for a large building.

continued...

Know a Prospective New Member?

Contact Membership Chairman: Jim Nemechek. .415/871-6808

Mail or Phone News to: Bill Schultz, Editor FOG DISPENSER MCC Powers 1305 Grandview Drive So. San Francisco, CA 94080 (415) 871-1944

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

June 7, 1979

May 18, 1979

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

1978-1979 OFFICERS
Dick M. Glumac..... President
Thomas A. Gilbertson... Vice-Pres.
James M. Holden Secretary
Robert Phillips Treasurer

BOARD OF GOVERNORS
James G. Taylor Tom Campbell
Eugene Valerio

COMMITTEE REPORTS

MEMBERSHIP - J. NEMECHEK

This month we joined five new members.

RECEPTION/ATTENDANCE - W. HOOGS

Total present at March meeting:
 Members: 77
 Guests: 67

SOCIAL - H. DUNCAN

Annual Social date: Saturday,
 April 21, 1979.
 Place: St. Francis Yacht Club
 San Francisco

ROSTER - R. KRAUTHAMER

Those who have paid their dues but have not received the roster should contact Jim Nemecek, Bob Philips or Dick Krauthamer. A roster supplement will be published in the May Fog Dispenser.

GOLF TOURNAMENT - D. STEVENS

See the enclosed flyer concerning the annual golf outing to be held May 24.

RAFFLE - G. BENTLEY

Sold 52 raffle tickets on ladies night. \$23 to the Scholarship Fund. Peter Tidmarsh won a free dinner for the April meeting.

CRC-X, 1979 - T. GILBERTSON

Tom is preparing the agenda for his meeting in May in Seattle. He is urging members to present him items for discussion at CRC 1979.

FINANCE - R. PHILLIPS

Date: Feb. 28, 1979
 Monthly Income: \$2766.55
 Monthly Expenses: \$ 742.32
 Members Equity: \$1147 .42

ENERGY MANAGEMENT - K. DOWLING

Sandy Sadowski will present a seminar for PG & E to industrial and commercial users discussing insulation and will supplement her discussion with the ASHRAE slides "Managing Your Energy".

ESCMT - D. BRYANT, SR.

Diplomas were presented to eight ESCMT graduates at the March meeting. See the minutes from the last meeting for a list of graduates.

CODE - J. BREESE

Next meeting will be April 5 at Skidmore, Owings & Merrill to discuss apparent conflicts between the California Energy Code and City of San Francisco Codes.

TENNIS TOURNAMENT - G. CHEEK

Golden Gate and San Jose Chapters are combining their efforts on this years tennis tournament. Contact Glen Cheek for details.

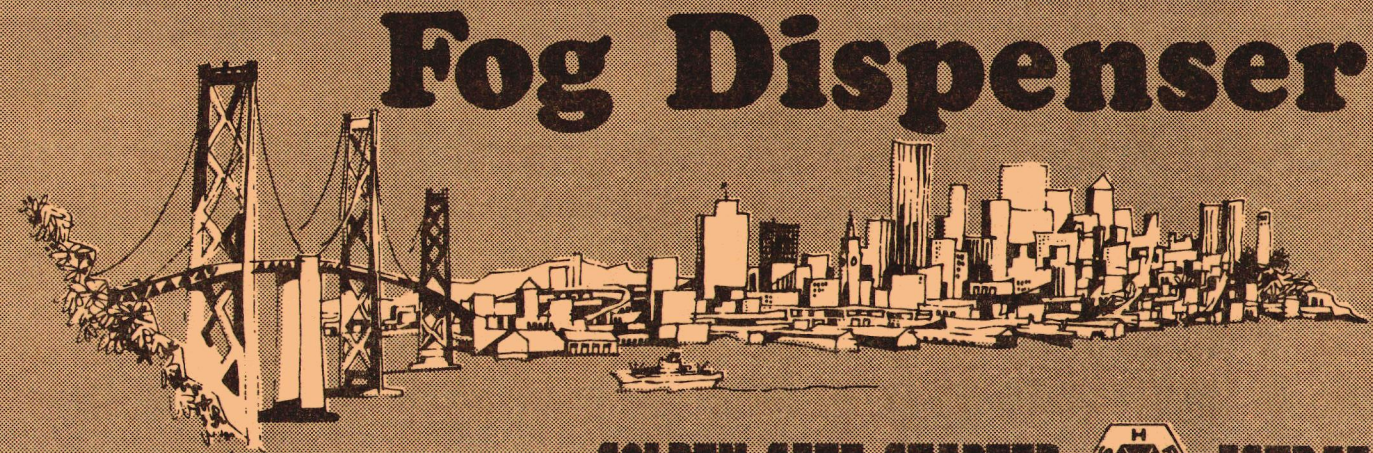
SEMINAR - S. SADOWSKI

Seminar was successful. Attendance over 300 including engineers, service reps, office staffs, and maintenance personnel. It was informative and beneficial as an overview of the refrigeration industry.

MEETING GUESTS

The following "Ashrae Wives" were guests of the March meeting:

- | | |
|---------------------|---------------------|
| Alice Bryant | Betty Wolf |
| Sharon Cheek | Kevin Holden |
| Ann Jacobs | Mandy Filios |
| Lois Anderson | Marguerite Angerman |
| Maha Zarour | Adele White |
| Dotty Rinefort | Betty Gendler |
| Wilma Jordan | Anne Shastany |
| Dorothea Crouch | Jody Casper |
| Frances Wilson-Reid | Elionor Bletnitsky |
| Van Charles | Suzy Lescure |
| Jean Tarnoff | Samantha Peaslee |
| Lorraine Montgomery | Judy Scavone |
| Anita Conroy | Mildred Mouw |
| Phyllis Duncan | Dorothy Brose |
| Marie Kniveton | Mike Inouye |
| Flo Beckius | Mary Yates |
| Julie Taylor | Renate Dietz |
| Pat Valerio | Sharon Wells |
| Juanita Gilbertson | |
| Durdica Glumac | |
| Pat Tuohino | |



Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XVIII NO. 7

APRIL, 1979

MEETING NOTICE

The seventh meeting of the Golden Gate Chapter for the 1978-79 year will be held at the Engineer's Club on the 16th floor of the Hong Kong Bank Building, 160 Sansome St. San Francisco, on Thursday, April 5 1979. The social hour will begin at 5:30 p.m. with dinner at 6:30.

APRIL PROGRAM

Chairman: Tom Gilbertson
 Subject: Air Conditioning Systems Start Up

Selected panel members will discuss: how to specify; who does it; what do you need; what does the owner really want.

Panel members representing different elements of the industry are: Lou Bedard, Dinwiddie Const; John Castle, Keller & Gannon; Vic Bach, Western Plbg. & Htg; Dick Friedman, Engineered Air Systems; and Glen Cheek, York.

PRE-MEETING WORKSHOP

Chairman: Sherman Brown 6:00 - 6:30 P.M. Upstairs

Topic: Energy Monitoring and Control Systems

Speaker: Tom Reinarts, Vice President, Keller & Gannon

Mr. Reinarts will discuss the application and design of a monitoring system including a discussion of the Tri-Services specification.

BOMA SEMINAR

BOMA will conduct a seminar titled "Smoke Control" to be held at the Hotel Vancouver in Vancouver, British Columbia on April 26 and 27, 1979. For information write to:

BOMA Vancouver
 Suite 601, 325 Howe Street
 Vancouver, B.C. Canada V6C 1Z7

—HONOR ROLL—

MARINA HEATING & AIR CONDITIONING

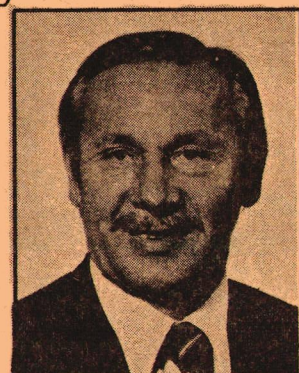
Air Conditioning, Heating & Ventilating Contractor
 Solar Heating Systems

Bob Hussey Dave Rifkin

23188 Foley Street Hayward, CA 94545
 (415) 786-3500

Corner

President's



DICK M. GLUMAC

It is unbelievable how fast this year has gone, well almost gone. We only have two more regular Chapter Meetings and one social gathering and the year will be over as

far as Chapter Meetings are concerned. As usual the Board will continue until the end of fiscal year June 30th. In order to make the most of the remaining time, I will personally contact several committees in order to finalize the operations in a grand style.

Sandy Sadowski has made an excellent organization effort and with help of many members, our annual seminar will be another success. I am one of the 300 plus attendees brushing up on the Fundamentals of Refrigeration.

Thanks to Don Bryant for bringing the students of the ESCMT to our meeting for the presentation of their diplomas.

If you have any items for discussion at the regional level you should contact Tom Gilbertson, our delegate or Jim Holden, the alternate. They are preparing the agenda for the CRCX meeting in May at Seattle.

NEWS FROM HEADQUARTERS

STANDARD 90-75R

A.S.H.R.A.E. Standard 90-75R will be submitted to a second public review in three parts. The first part 90.1 includes section 1 thru 9 and will be available for review May 1 through June 30.

The second part 90.2 covering sections 10 and 11 is not quite ready for review but will be submitted later in the year.

The third part section 90.3 covering section 12 will be submitted later when completed.

This will permit early issuance of 90.1, sections 1 through 9 for utilization by State and Federal officials.

The standard will still be considered one standard.

FUNDAMENTALS HANDBOOK

The 1981 Handbook of Fundamentals will be published in dual English and SI units instead of SI units only as originally intended.

The National Board of Directors also decided to print all publications not currently in SI units in dual units until it is felt that SI units only is appropriate to our industry.

Polish up your dancing shoes for the SPRING GALA

Know a Prospective New Member?

Contact
Membership Chairman:
Jim Nemechek . . 415/871-6808

Mail or Phone News to:
Bill Schultz, Editor
FOG DISPENSER
MCC Powers
1305 Grandview Drive
So. San Francisco, CA 94080
(415) 871-1944

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

Apr. 21, 1979 Apr. 1, 1979
June 7, 1979 May 18, 1979

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

1978-1979 OFFICERS

Dick M. Glumac President
Thomas A. Gilbertson Vice-Pres.
James M. Holden Secretary
Robert Phillips Treasurer

BOARD OF GOVERNORS

James G. Taylor Tom Campbell
Eugene Valerio

MINUTES FROM LAST MEETING

The March meeting of the Golden Gate Chapter of ASHRAE was held at the Engineers Club, President Dick Glumac presiding. Many wives were in attendance celebrating ladies night.

1. The minutes of the February meeting were approved.
2. Dick Friedman called attention to a mistake in the 1979-80 sample ballot, which was printed in the March Fog Dispenser, in which Gene Valerio was listed as past president. Dick Glumac should have been listed. This correction will be made and the ballot for the election of 1979-80 officers and directors will be mailed with the April Fog Dispenser. The ballot should be mailed to Jim Nemechek before April 1 or hand delivered to the April chapter meeting.
3. Tom White was awarded the regional award of merit.
4. Don Bryant presented diplomas to the following ESCMT graduates: Maria F. Aquilar, MLTW Turnbull Assoc.; Rachael Alexander, Hayakawa Assoc; Eric Canson, Bissell & Karn, Inc.; Kenneth Ceaser, Foster Engr.; Carlos Cuellar, PG&E; Bernard M. Howard, Stone, Marracinni & Patterson; Dorothy Jefferson, Guttman & McRitchie; Jaime Lacsina, Commisu & WIPF; Martinez Martin, William F. Jones, Inc., and Malcolm Williams, Jordan, Casper, Woodman & Dobson.
5. Nominations were called for from the floor for Candidates for 1979-80. No nominations were made and it was moved, seconded, and approved for the nominations to be closed.
6. After a short break, Tom Gilbertson lead the men in singing "Let me call you

...minutes continued...

Sweetheart", which proved that some of the gentlemen present could sing and some couldn't, and hopefully the wives and sweethearts got a chuckle out of that one.

7. Settling down to business, Tom Gilbertson then introduced the speaker for the evening, Mrs. Pat Schindler, Docent of the San Francisco Museum of Art, who presented a commentary, with slides, on the King Tut exhibition, to be shown in June at the DeYoung Museum. Wives, husbands and guests were thrilled with the richness of the items displayed on slides and many developed high expectations to see the actual exhibit when it comes to town.

Respectfully Submitted,

Jim Holden, Secretary

INDUSTRY NOTES

Best wishes to LAURIE INGRAM, who will officially open his new business QUALITY TAKE-OFF SERVICE on April 1. Laurie will be located in the San Francisco Builders' Exchange.

CAL LAWS is the latest addition to the growing staff at GAYNER ENGINEERS.

YORAM WEXELMAN is back to contracting as a Project Engineer for VALLEY SHEET METAL.

NAPOLEON SALAZAR is now a Mechanical Design Engineer for EDI, Consultants in Santa Rosa.

DATES TO REMEMBER

April 21 Annual Social
May 10-12 CRC X 1979
May 24 Annual Golf Tournament
June 6 General Meeting

GOLDEN GATE CHAPTER - ASHRAE

COMMITTEE REPORTS

MEMBERSHIP - J. NEMECHEK

This month we joined five new regular members and one with student status.

FINANCE - R. PHILLIPS

Date: Jan. 31, 1979
 Monthly Income: \$436.24
 Monthly Expenses: \$533.68
 Members Equity: \$9455.19

RECEPTION/ATTENDANCE - W. HOOGS

Total present at Jan. meeting:
 Members: 35
 Guests: 43

SCHOLARSHIP - R. WELLS

Are still being accepted.

SOCIAL - H. DUNCAN

Annual Social date: Saturday,
 April 21, 1979.
 Place: St. Francis Yacht Club
 San Francisco

ROSTER - R. KRAUTHAMER

Rosters have been mailed out. See note in "President's Corner" if you did not receive your copy.

GOLF TOURNAMENT - D. STEVENS

Great Golf Day--Remember May 24th, that's the day we are all planning to break away from the office to indulge in the great links massacre. Plan now to invite someone you can out got-cha. Entry forms out next month.

RAFFLE - G. BENTLEY

No raffle was held on board ship. Looking forward to March meeting.

CRC-X, 1979 - T. GILBERTSON

Tom is preparing the agenda for his meeting in May in Seattle. He is urging members to present him items for discussion at CRC 1979.

ESCMT - D. BRYANT, SR.

Golden Gate Chapter, ASHRAE, is one of the sponsoring societies of ESCMT (Engineering Societies' Committee for Manpower Training, Inc).

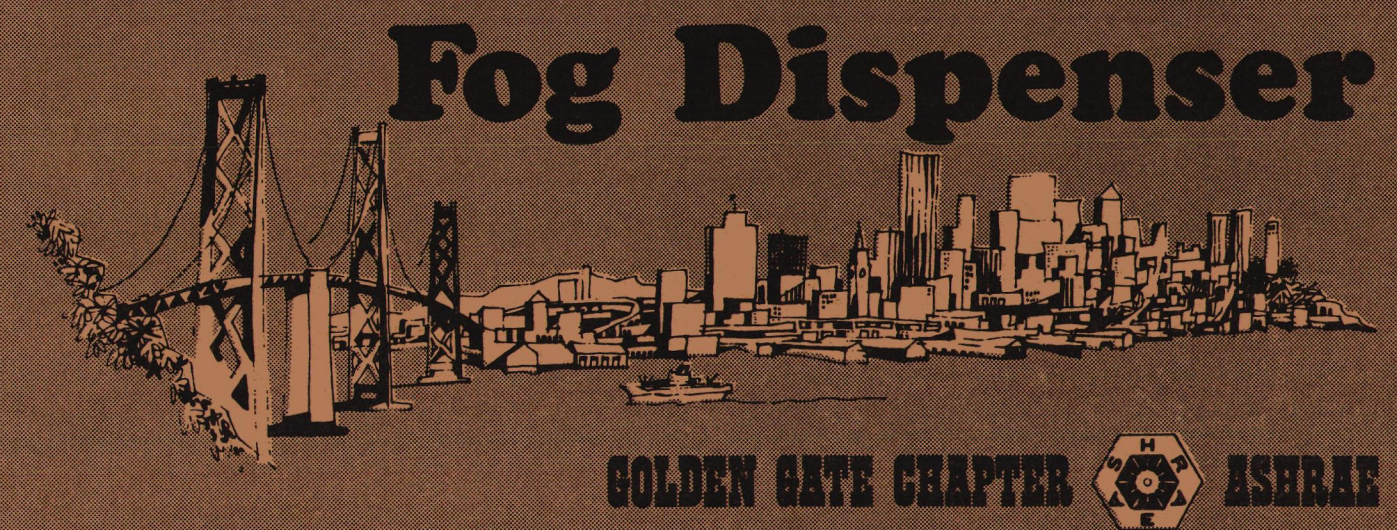
ESCMT conducts OJT (On-the-Job Training) consortiums or programs for minority youths in order that they may become gainfully employed in the fields of engineering and architecture. The trainees go through a 42-week OJT program which includes 16 weeks of once-a-week classes in mathematics and drafting taught by ESCMT instructors. ESCMT reimburses the participating firms for much of the salaries trainees earn during their training.

March 1, 1979, our chapter will host and present certificates to 10 trainees graduating from the OJT consortium.

Firms desiring additional information regarding the OJT consortium may call either Howard Rideaux, ESCMT Executive Director (543-3383) or Don Bryant, ESCMT Board of Directors (584-0765).

CODE - J. BREESE

The committee met on 1/23 at the office of Skidmore Owings & Merrill. All members present. Assignments were made to various members to investigate several apparent conflicts between the California Energy Code and City of San Francisco codes, to report on the status of an A/C & R Code for San Francisco, and to question the City about current elevator smoke removal requirements which appear to be detrimental to the handicapped. The next meeting is scheduled for Feb. 22.



Fog Dispenser

GOLDEN GATE CHAPTER ASHRAE

VOLUME XVIII NO. 6

MARCH, 1979

MEETING NOTICE

The sixth meeting of the Golden Gate Chapter for the 1978-79 year will be held at the Engineer's Club on the 16th floor of the Hong Kong Bank Building, 160 Sansome St. San Francisco, on Thursday, March 1, 1979. The social hour will begin at 5:30 p.m. with dinner at 6:30.

REMEMBER--THE MARCH MEETING IS LADIES' NITE, BRING YOUR WIVES.

PRE-MEETING WORKSHOP

Chairman: Sherman Brown 6:00 -
 6:30 P.M.
 Upstairs

Topic: "Demand Control"

Speaker: Henry Mood

Mr. Mood, representative of XENCON COMPANY will discuss demand control--preventing peak demand for mechanical equipment.

There will be a raffle of the returned reservation cards! The one picked will receive a free dinner for the April meeting. Send in your reservation cards early.

MARCH PROGRAM

Chairman: Tom Gilbertson

Subject: "The Treasures of Tut"

Speaker: Ms. Renee Beller Dreyfus

Ms. Dreyfus is the Associate Curator of Education at the M.H. DeYoung Memorial Museum at Golden Gate Park. She will present a special program on the Treasures of King Tut.

In honor of Ladies' Nite, the ASHRAE members will serenade the ladies present.

— HONOR ROLL —

YORK

Division of Borg-Warner Corporation
 Engineered Machinery Sales & Service

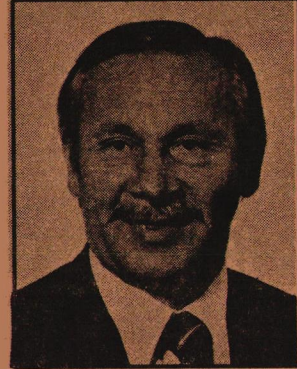
Airconditioning Equipment, Chillers, Air Handlers, etc.

Dick Bennington, Dave Brockman, Glenn Check, Bud Scheer

734 Whitney St. San Leandro, CA 94577
 (415) 568-2850

Corner

President's



DICK M. GLUMAC

Sorry that I missed the inspection of the USS Carpenter, I was laid up in the hospital with the operation to set the broken bone. So much for skiing accidents.

By now everyone should have received the ROSTER for 1979. Those of you who have paid the dues but have not received the ROSTER may appeal your case to three members: Jim Nemechek, the membership chairman, Bob Phillips, the treasurer and finally Dick Krauthamer, the ROSTER Chairman. These members shall verify that your dues have been paid and will include you in the ROSTER

NOMINATING COMMITTEE

In accordance with Chapter Bylaws the nominating committee hereby submits to the membership the following nominees for Chapter Officers for Fiscal Year 1979-80.

- | | |
|--------------------------------|----------------|
| President | Tom Gilbertson |
| President Elect. | Jim Holden |
| Secretary | Bob Phillips |
| Treasurer | Tom Campbell |
| Board Member
(2 years term) | Kevin Dowling |

Note that James Taylor who was elected last year for a two year term will continue to serve in fiscal year 1979-80.

Additional nominations of members in good standing consenting to the candidates either orally or in writing may be made from the floor at the March Chapter Meeting. Ballot will be mailed in March for election to be held at the April meeting.

SUPPLEMENT to be published in April and May Fog Dispenser.

Four more active months and the year will be over. This is my appeal for the committee chairmen for a final push to get the goal for this year fulfilled.

Our Annual Seminar is all arranged and ready to start on March 6th. Many thanks to Sandy Sadowski and her committee for the fine job done in arranging for this year's seminar.

At the March meeting your Education Chairman Don Bryant is planning to present the Graduation Diplomas to the Students of ESCMT program. Hopefully the member firms who have sponsored the ESCMT students will attend to hand out diplomas to their respective graduates.

Hope to see you all at the Chapter Meeting with your wives or ladies.

NEWS FROM HEADQUARTERS

DISPLAYING MEMBERSHIP IN ASHRAE

Many members have asked how they may properly display their membership in ASHRAE.

As stated in the Society's Bylaws, "no member shall describe himself in connection with the Society in any advertisement, letterhead, printed matter, or in any manner other than as an Honorary Member, Presidential Member, Fellow, Life Member, Life Associate, Life Affiliate, Member, Associate Member, Affiliate, or Student Member, as the case may be, except in official business of the Society."

From the Rules of the Board, "the Society shall neither approve any engineering project or commercial product, nor allow its imprint or name to be used in any commercial work or business, except that it shall be permissible for a manufacturer to state in any manner deemed proper, that a product has been tested, or tested and rated, in accordance with an ASHRAE standard, giving the number of the ASHRAE standard."

In reference to chapters, the Rules of the Board explain that "chapters shall not use the Society's name or emblem without the approval of the BOD, except on stationery, flags, and items supplied on order, and on meeting notices, minutes of meetings, reports, roster of members, Chapter Constitution and Bylaws, rules of operational procedures when used in accord with a format approved by the BOD."

NEW MEMBERS

The Golden Gate Chapter welcomes the following new members:

- Richard Ehrenberg
- Enrique Mercurio
- William Carroll
- Bennett Branscomb
- Jeff Georg

Remember--The March meeting is Ladies' Nite, bring your wife!

MEETING GUESTS

- | | |
|-------------------|------------------------|
| Howard Haney | - Johns Manville |
| Mike Nelson | - C.C.SF |
| Billy Gee | - Cogswell College |
| James Ho | - Cogswell College |
| John Sylvester | - Sylvester & Asso |
| Gerald Gugus | - C.C.SF |
| Kevin Claveria | - C.C.SF |
| Iona Young | - Cutter Labs |
| Jim Burns | - Garratt-Callahan |
| Don McCarthy | - Robertshaw |
| Dennis Gruszynski | - Johnson Cont. |
| Chris Ruee | - Cal Poly |
| Dave Demma | - Cal Poly |
| Paul Nuios | - Western Plbg. |
| Stu Jackson | - Syska & Hennessy |
| Norm MacRitchie | - Guttman - MacRitchie |
| Robin Orans | - MCC Powers |
| Mark Demler | - Western Mech. |
| Ann Rink | - Norman Wright |
| Tom Kohn | - Carrier |
| Ed Schommer | - Carrier |
| Bill Phaklides | - Cal Poly |
| Doug Chan | - Cal Poly |
| Tom Yu | - Cal Poly |
| Paul Tam | - Cal Poly |
| Jeff Jeong | - Cal Poly |
| Paul Hanzel | - Westates Pac. |
| Duane Harrison | - Westates Pac. |
| F.E. McClure | - LBL |
| Bruce Johnson | - Keller-Gannon |
| But Pang | - Brown & Caldwell |
| Bruce Krambrink | - Cal Poly |
| Steve Williams | - Cal Poly |
| Larry Tauiani | - Honeywell |
| Steward Hoffheins | - Honeywell |
| Bill Broderick | - Honeywell |
| Dave Martin | - Honeywell |
| Jeff Hughes | - BAC |
| Dan Emke | - Robertshaw |
| John Karminis | - Cal Poly |
| Geo. Kontolatos | - Cal Poly |
| Bill Gregory | - Yamas |
| Jim Haven | - Cal Poly |
| Rod Davidson | - Cal Poly |
| Todd Sorbo | - Cal Poly |
| Russell Ramos | - Cal Poly |
| John Coppini | - Yamas |
| Stan Eng | - Owens Corning |
| Van Taiarioli | - Cal Poly |
| Bill Schiebert | - Cal Poly |

Know a Prospective New Member?
 Contact
 Membership Chairman:
 Jim Nemechek . . 415/871-6808
 Mail or Phone News to:
 Bill Schultz, Editor
 FOG DISPENSER
 MCC Powers
 1305 Grandview Drive
 So. San Francisco, CA 94080
 (415) 871-1944

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:

<u>Meeting date</u>	<u>Copy deadline</u>
Apr. 5, 1979	Mar. 16, 1979
Apr. 21, 1979	Apr. 4, 1979
June 7, 1979	May 18, 1979

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 Dick M. Glumac President
 Thomas A. Gilbertson . . . Vice-Pres.
 James M. Holden Secretary
 Robert Phillips Treasurer
 BOARD OF GOVERNORS
 James G. Taylor Tom Campbell
 Eugene Valerio

INDUSTRY NOTES

Big changes at ROBERTSHAW! Effective February 8, ED SCHOMMER accepted the position of Branch Manager, and JACK CORBELL moved up to Western Regional Sales Manager with headquarters in Southern California. Best wishes to both!

DICK GLUMAC, our hard-working fearless leader, fractured his ankle while skiing on February 3. What's worse, it wasn't mending properly, so had to be re-set. Our sympathies to you in your travail, Dick; but do try bowling next year instead.

Bay Area stalwarts who braved the rigors of Eastern travel and weather to cavort at the Philadelphia Meeting and Show included BRAUN, JUDSON, JORDAN, BRYANT, GILBERTSON, KECHTER, YAFFE, KNIVETON, DUNCAN, VALERIO, ESKRA, SWEZEY, CUMMINS, NEMECHEK, and probably many others not visible in the dim back booths of FINNEGAN' BAR.

AWARD OF MERIT

We are pleased to announce to the membership that our Tom White has received, well deserved, "Regional Award of Merit". As we all know, Tom has been very active in Region X for many years. This award is a recognition for many of his contributions.

Congratulations to Tom, we are glad that one of our members has been recognized at the Regional level.

ANNUAL REPORT

Several copies of the 1978 Annual Report of the Society have been received by the Chapter President for distribution. Anyone interested, please contact Dick Glumac for a copy of the report.

TREASURER'S REPORT

	12-31-78	1-31-79
Income	\$ 187.50	\$ 436.24
Expenses	\$ 632.11	\$ 533.68
Members Equity	\$9496.87	\$9455.19

SAMPLE BALLOT
GOLDEN GATE CHAPTER
ASHRAE

Election of officers for 1979-80

- President - Tom Gilbertson
Other: _____
- President Elect - Jim Holden
Other: _____
- Secretary - Bob Phillips
Other: _____
- Treasurer - Tom Campbell
Other: _____
- Incoming Board Member - Kevin Dowling
Other: _____
- Past President - Gene Valerio

NOTE: Board members are elected for a 2 year term. Therefore, Jim Taylor, senior board member, does not stand for election this year.

MINUTES FROM LAST MEETING

The February meeting of the Golden Gate Chapter of ASHRAE met on Pier #3, Alameda Naval Air Station, at 1800 hours, February 8, 1979, to tour the U.S.S. Carpenter (DD825).

1. Ensign Henry Bruce, Communications Officer for the ship, directed the tour, first on deck and then through CIC (Combat Information Center), and the pilot house. Most of the ships crew were either home on leave or off the ship on liberty, as the ship was under-going extensive repairs to the engineering spaces which prevented our group from touring the boiler or engine rooms.
2. The U.S.S. Carpenter was launched at Orange, Texas Shipyard on December 28, 1945 and commissioned after extended construction at Newport News, Virginia on December 15, 1949.
3. In March 1950 she was assigned to the Pacific Fleet as a unit of the Navy "Hunter Killer", Anti Submarine Warfare Force and home-ported in Pearl Harbor, Hawaii. In 1952 and 1953 she was assigned to duty in the Korean War where she was awarded 5 battle stars.
4. Since 1965, the U.S.S. Carpenter has deployed five times to the Western Pacific for duty off Vietnam. She was also awarded 5 battle stars for this action.
5. More recently she has been a unit of Joint Task Force 130, the manned spacecraft recovery force of the Pacific, acting as secondary recovery ship on four Apollo Moon Missions.
6. The ship is 390 feet long, 40 feet wide and displaces 3,000 tons. She is armed with twin 5"/38 caliber guns, anti sub-

... minutes continued...

marine rockets and six torpedo tubes. Her top speed is over 30 knots.

7. After a very interesting tour of the ship the group was served dinner at the officers club open mess.
8. The business meeting was presided over by Tom Gilbertson, who took over for President Glumac, suffering at home from a broken leg, a result of the previous weekends skiing at Heavenly Valley.
9. The minutes of the previous chapter meeting was approved.
10. After no old business and no new business, the meeting was adjourned.

Respectfully submitted,

Jim Holden, Secretary

MASTERS PROGRAM

A new M.S. program in Environmental Management is being offered by the University of San Francisco for professionals working full time. Classes are held on Saturdays and research projects are related to problems at the student's job.

Most students are chemists or engineers seeking to broaden their academic backgrounds and credentials and to deepen their own areas of specialization by doing research on a special masters thesis project.

For more information contact Joseph M. Petulla, Director, M.S. Environmental Management, University of San Francisco.

Remember--The March meeting is Ladies' Nite, bring your wife.

GOLDEN GATE CHAPTER - ASHRAE

COMMITTEE REPORTS

MEMBERSHIP - J. NEMECHEK

This month we joined two new members with student status.

ENERGY MANAGEMENT - K. DOWLING

Committee is preparing a program for the workshop at the June ASHRAE meeting. Committee has a set of slides on "Managing Your Energy" and "Have Energy Savings" which it will show to interested groups so as to win points for the chapter's Presidential Award of Excellence. Anyone interested in seeing the slides please contact Kevin Dowling at 495-7400.

EDUCATION - R. ANDERSON

Jim Taylor, board member, presented a slide illustrated talk on HVAC&R careers to the freshman engineering class at City College on Jan. 16. Jim also presented scholarship awards totaling \$280 to seven students in City College's AC & R program.

FINANCE - R. PHILLIPS

Date: Dec. 31, 1978
 Monthly Income: \$187.50
 Monthly Expenses: \$632.11
 Members Equity: \$9496.87

SEMINAR - S. SADOWSKI

Committee met several times to establish the program, speakers, etc.

RECEPTION/ATTENDANCE - W. HOOGS

Total present at Jan. meeting:
 Members: 85
 Guests: 16

SCHOLARSHIP - R. WELLS

See enclosed flyer. Still needs a lot of donations.

SOCIAL - H. DUNCAN

Annual Social date: Saturday,
 April 21, 1979.
 Place: St. Francis Yacht Club
 San Francisco

ROSTER - R. KRAUTHAMER

Proofs read, corrected and returned to business printer on 1/19/79. Cover color to be determined by stock available. Final print scheduled this month.

GOLF TOURNAMENT - D. STEVENS

This years Golf Tournament will be enjoyed by all golfers, hookers and/or duffers. Although the course has been selected and arrangements made, we will only tell you to reserve May 24 on your calendars for a day and evening of battle with the lines.

Continue to watch the Fog Dispenser for more information. Inflation has hit golf courses as well as everything else.

RAFFLE - G. BENTLEY

45 raffle tickets sold at meeting. Net proceeds of \$19 to scholarship fund. Feb. dinner winner is Tom Conroy.

CRC-X, 1979 - T. GILBERTSON

Tom is preparing the agenda for his meeting in May in Seattle. He is urging members to present him items for discussion at CRC 1979.

PUBLICITY - D. FRENZEL

Contacted organizations for permission to send our seminar announcement in their upcoming mailings. I will deliver approximately 1500 as soon as I have announcements from printer.

Please note that the field trip meeting is February 8, 1979, the second Thursday of the month.



VOLUME XVIII NO. 5

FEBRUARY, 1979

MEETING NOTICE

The fifth meeting of the Golden Gate Chapter for the 1978-79 year will be the annual field trip--a tour of the USS Carpenter, Navy Destroyer #825. Sons and daughters are invited to join the group which will begin with the tour at 6:00 p.m. Social hour and dinner will follow at 7:30 p.m. at the open mess. For detailed information, see the enclosed flyer.

ENGINEERS' BANQUET

Goodman's at Jack London Square will be the San Francisco Bay Area Engineering Council's ENGINEER'S WEEK BANQUET. This Thursday evening, February 22, 1979 meeting will wrap up the events of Engineer's Week 1979. Cocktails are at 5:30 and dinner begins at 7:00 p.m. Guest speaker will be Dr. John J. McKetta, Professor of Chemical Engineering, University of Texas, speaking on "The Brilliant Future of Man: How Engineering will contribute toward it."

THE SPRING GALA IS COMING

You may ask yourself what the heck is a spring gala. Well it happens to be the title for our semi formal dinner dance which is going to be held at the St. Francis Yacht Club on April 21st. It has been a number of years since we've had a dinner dance so make a special note on your calendar and lets indeed make this a Spring Gala. Details to follow in the next two Fog Dispensers.

*** ATTENTION * ATTENTION * ATTENTION**

Send written reservations to Tom Gilbertson for annual field trip. Information must be in by Monday, February 5. See enclosed flyer.

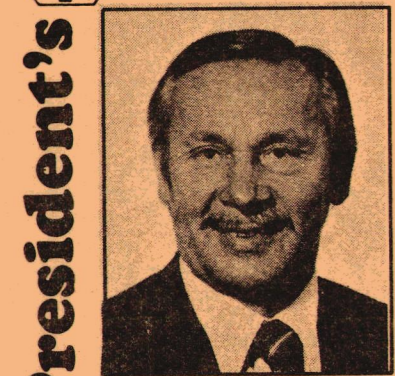
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CALIFORNIA HYDRONICS CORPORATION

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350 Hatch Drive Foster City, CA 94404
 (415) 341-6100

Corner



President's

DICK M. GLUMAC

I have received many complimentary comments on the format of the committee reports. If you refer to the last page of the January issue of the Fog Dispenser you will find at a glance the activity of all the committees. Since all the committees are active at this time of the year, the page is a little crowded but as the year progresses some of the committees will conclude their activities and fade away from the report sheet.

Hopefully all committee chairmen will cooperate with our editor, Bill Schultz, in sending their reports.

Tom Gilbertson and I visited the Naval Air Station - Alameda, the site of our field trip, to become familiar with the surroundings. We found the service at the officer's club to be superb and hope that many of you will join us on the field trip with your children.

INDUSTRY NOTES

CHARLIE QUAN, a long-time member, joined the ranks of the newly-retired the end of December.

DON NURISSO is now with the Mechanical Engineering Staff at H. K. FERGUSON in San Francisco.

JOHN CASTLE has been made a Managing Associate of KELLER & GANNON. Congratulations, John!

ED SCHOMMER has been promoted to Group Sales Manager of the CARRIER AIR CONDITIONING Office in Emeryville. He is responsible for sales activities in the San Francisco District.

Kudos to DARRELL LACKEY, who has recently been named an Associate of JYA ENGINEERS.

Look for JACK ZAROOUR now at WESTERN AIR in Burlingame. Jack is their newest Sales Engineer.

JERRY KECHTER found his niche with DUCTMATE INDUSTRIES, and is responsible for sales in much of the West.

NEW MEMBERS

The Golden Gate Chapter welcomes the following new members:

- Mike Nelson - City College
- Gerry Gohgs - City College

... minutes continued...

Several elevators were dislocated from their shafts and counter weights were destroyed. Our state laws are now requiring all existing elevators to be corrected and seismically braced by 1982.

13. Similarly, a lot of underground utilities suffer extensive damage, primarily because the ground and the building motion are out of phase.

14. After the lecture, Mr. Wosser answered questions.

15. The local San Francisco Building Code requires all major equipment to be seismically braced to withstand the force of 1/2G in any direction.

16. Mr. Allen Wicks of SMACNA stated that the L.A. chapter of SMACNA has engaged a licensed structural engineer to come up with a manual for bracing of mechanical equipment.

17. Hospital Codes require all systems to be seismically braced to the extent that all vital services will be maintained during and after a major quake. The equipment itself will soon be required to undergo a certification program and the state is presently preparing the guidelines and regulations for certification.

18. Nuclear plant engineering is already quite advanced in seismic regulations although the cost of such a program is probably prohibitive to other installations.

19. One of the important considerations in designing earthquake resistant buildings is location of heavy, vibrating equipment. The higher in the building this equipment is located, the

... minutes continued...

greater the hazard earthquakes rise.

Respectfully submitted,

Jim Holden, Secretary

NEWS FROM HEADQUARTERS

ASHRAE ASSUMES NEW ISO DUTIES

ASHRAE recently assumed the Secretariat duties formerly held by ANSI to two International Standards Organization subcommittees: one on fan noise testing (Subcommittee 2 ISO TC 117, Industrial Fans); the other on aerodynamic testing and rating of air terminal devices (Subcommittee 1, ISO TC 144, Air Distribution and Air diffusion). This responsibility is added to the on-going responsibility ASHRAE has as the Secretariat of three subcommittees and one working group of ISO TC 86, Refrigeration.

LOST AND FOUND DEPARTMENT

WASHINGTON (AP) - In 1954, James Hoyer of Phoenix, Ariz., mailed an RSVP card confirming he would attend the convention of the American Society of Refrigerating Engineers in Washington on March 1 of that year. Hoyer's card finally was delivered at Potomac Electric Power Co. offices here, postmarked June 6, 1978. The person to whom the card was addressed has long since retired.

APPROVED RESEARCH PROJECTS

The following research projects have been approved:

RP-193 "Conserving Energy in Industrial Refrigeration Systems by Reducing Condensing Temperatures." It is a two-year project in the amount of \$66,520, starting January 1979.

RP-205 "Development of a Simplified Energy Calculation Procedure for use in ASHRAE 90-75. It is an eight-month project in the amount of \$39,513, starting October 1978.

Know a Prospective New Member?
 Contact
 Membership Chairman:
 Jim Nemechek . 415/871-6808
 Mail or Phone News to:
 Bill Schultz, Editor
 FOG DISPENSER
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 Thomas A. Gilbertson Vice-Pres.
 James M. Holden Secretary
 Robert Phillips Treasurer

BOARD OF GOVERNORS
 James G. Taylor Tom Campbell
 Eugene Valerio

NEWS FROM HEADQUARTERS

CAN AN ASHRAE CHAPTER LOBBY?

As a tax exempt scientific and educational organization, ASHRAE can only play a limited role influencing legislation. That is not to say, however, that the Society may not address itself to legislative matters when a request is made in the name of a governmental body, nor that as individuals ASHRAE members may not voice opinions in reference to government policy.

ASHRAE's 1977-78 President Bruno Morabito addressed this subject in the January 1978 issue of ASHRAE JOURNAL.

MEETING GUESTS

- Tim Richards -Johnson Controls
- Paul Nies -Western P & H
- Bud Putnam -Soule Steel Co.
- R. Grady Osborn -Bechtel
- Jeff Cushing -Western Mech.
- Mark Demlex -Western Mech.
- Fred Richards -Johns-Manville
- Gaylord Abernathy -Johns-Manville
- Jerry Kechter -Ductmate Ind.
- Jim Burrows -Owens Corning
- Paul Ngai -Energy Eng.
- T.D. Wosser -H.J. Degencolb
- Mrs. Ed Walker
- Bill Giussi -Johnson Controls
- R.V. Wilder -Kaiser Engineers
- Bill Lieber -University
- Ben Capori -Standard Oil

TO ALL MEMBERS AND FRIENDS OF ASHRAE:

The GOLDEN GATE ASHRAE WORKSHIP was established in 1965 to provide financial aid to students from northern California majoring in Air Conditioning and Refrigeration Engineering (now Environmental Engineering and Engineering Technology) at Cal Poly, San Luis Obispo and eligible students majoring in related subjects at City College of San Francisco.

WORKSHIP funds are administered by the respective faculties to assure your donations are paid to students in need for work on projects or other educational department activities.

Your donations will be appreciated. If you would like more information before contributing to this chapter sponsored investment in our industry please contact:

Richard Wells
Scholarship Committee Chairman
925 Kearney St.
El Cerrito, CA 94530

phone: 524-1477

Detach and mail with your contribution to the address above - THANK YOU

Enclosed is my contribution to the GOLDEN GATE ASHRAE WORKSHIP in the amount of \$_____

NAME: _____

AFFILIATION: _____

ADDRESS: _____

- Personal Contribution
- Company Contribution
- Check # _____ Date _____
- Cash
- Other _____

MINUTES FROM LAST MEETING

The January meeting of the Golden Gate Chapter of ASHRAE was called to order by President Dick Glumac at the Engineers Club at 7:30 p.m.

1. A motion was made and seconded to approve the minutes of the December chapter meeting. Motion carried.
2. Nominating committee of the following members was proposed: Vic Bach, Herb Duncan, Carl Jordan, Jim Nemechek, Tom White, and ex-officio member Dick Glumac.
A motion was made and seconded to approve the proposed nominating committee. Motion carried.
3. The awards banner, recently received from National Headquarters, was turned over to Gene Valerio for safe keeping and affixing of awards.
4. Tom Gilbertson reported the February father-son-daughter field trip would be held the second Thursday of February at the Alameda Naval Air Station and would include a tour of the U.S.S. Carpenter with dinner at the open mess, following the tour. The March meeting, ladies night, will be held at the usual time, at the Engineers Club. A preview of the King Tut Exhibit will be given by the assistant curator of the DeYoung Museum.
5. Dick Glumac reported that the newest chapter of ASHRAE, the Gulf Stream Chapter, in Florida, would hold its first meeting this month.
6. Tom White announced that Don Bryant would be receiving the E.K. Campbell Award at the Philadelphia Convention.
7. The speaker for the evening was Mr. Tom Wosser of Henry Deggen-

... minutes continued...

kolb Associates, on the subject of earthquakes.

8. His opening statement was that buildings should not be planned on known faults. Slides were then shown of recent quakes in Anchorage, Alaska, Caracas Venezuela, Japan, Monoqua Nicaragua, the San Fernando Valley in Southern California, and Kern County.
9. Mr. Wosser indicated that one of the major concerns in earthquake design is not to have equipment and piping designed more rigid than the building itself although the buildings that survived the earthquakes best were buildings with a very rigid frame. Another problem that arises during an earthquake is the liquifaction of the ground consequent tilting or sinking of buildings into the ground. The slides also indicated damaging of the equipment vibration isolators.
10. Several slides indicated turning over of vertical tanks and extensive damage thereof. One reoccurring damage to tanks, known as "elephant toe", involves a swelling at the base of the tank which ultimately requires replacing the tank.
11. Examples were shown of the differences in damage due to the relationship between earthquakes and natural frequency of the building. A short stiff building in the Alaska quake suffered a great deal of damage while a building with a longer period of motion suffered little damage.
12. In several cases it was evident that cooling towers failed to act as supports. Great damage occurred at elevators and elevator towers.

GOLDEN GATE CHAPTER - ASHRAE

COMMITTEE REPORTS

MEMBERSHIP - J. NEMECHEK

Coordination with Roster Committee completed. New members year to date 19 as of Nov. 1, 1978. De-linguent members: 73

ENERGY MANAGEMENT - K. DOWLING

Agenda is under review for selection of subject to be studied in greater detail in this fiscal year.

RESEARCH PROMOTION - L. BEDARD

Made an appeal to all members to donate prior to Jan. 1, 1979 (for tax deduction). Local donations thus far: \$95. Donations to NTL (Nov. 1, 1978): \$305.

EDUCATION - R. ANDERSON

Planning a graduation lecture at City College of S.F. in January on the opportunities in the HVAC industry. Also presenting scholarships.

FINANCE - R. PHILLIPS

Date: Nov. 30, 1978
 Monthly Income: \$1088.77
 Monthly Expenses: \$677.55
 Members Equity: \$9941.48

SOLAR ENERGY - D. RIFFKIN

Planning to meet in January to establish action. Will review State of Calif. Solar Energy Code revisions. Will obtain info from PG & E on operation of existing solar projects.

SEMINAR - S. SADOWSKI

Committee met several times to establish the program, speakers, etc. See the preliminary announcement in this issue.

RECEPTION/ATTENDANCE - W. HOOGS

Total present at Dec. meeting:
 Members: 78
 Guests: 18

TEMPERATURE DATA BOOK - D. CHARLES

Has been authorized by the board to proceed with the work on the preparation of the new Temp. Data Book - Northern Calif. allotted budget of \$1200.00 for this fiscal year.

SCHOLARSHIP - R. WELLS

Received few donations. Will issue a flyer after New Years. Still needs a lot of donations.

ROSTER - R. KRAUTHAMER

The 1978-79 Roster is planned for publication in early January, 1979.

SOCIAL - H. DUNCAN

Annual Social date: Saturday, April 21, 1979.
 Place: St. Francis Yacht Club
 San Francisco

GOLF TOURNAMENT - D. STEVENS

As usual plans are being formulated. for another fine outing. Details at a later date.

TENNIS TOURNAMENT - G. CHEEK

We shall have the tournament (since Dick Glumac is an avid tennis player). Date to be reported later.

CODE - J. BREEZE

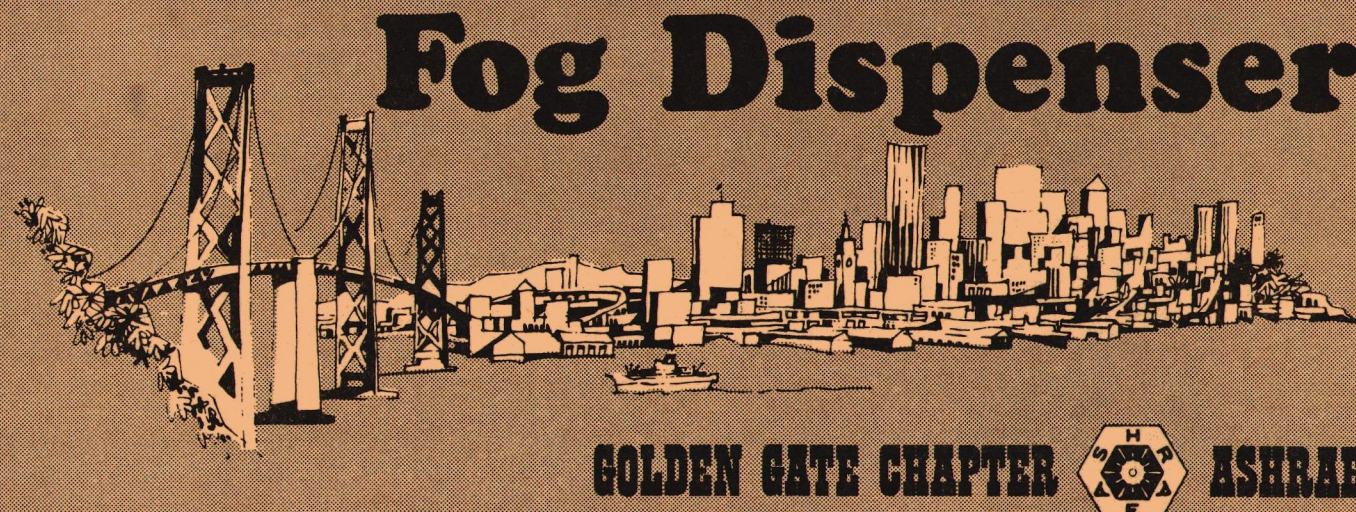
Studying several important code items, City of S.F. and reviewing 1979 VMC, especially smoke control.

RAFFLE - G. BENTLEY

Raffle tickets sold. Prizes distributed. Cash to scholarship fund.

CRC-X, 1979 - T. GILBERTSON

Tom is preparing the agenda for his meeting in May in Seattle. He is urging members to present him items for discussion at CRC 1979.



VOLUME XVIII NO. 4

JANUARY, 1979

MEETING NOTICE

The fourth meeting of the Golden Gate Chapter for the 1978-79 year will be held at the Engineer's Club on the 16th floor of the Hong Kong Bank Building, 160 Sansome Street, San Francisco, on Thursday, January 4, 1979. The Social Hour will begin at 5:30 P.M., with dinner at 6:30 P.M.

PRE-MEETING WORKSHOP

Chairman: Sherman Brown 6:00 - 6:30 PM
 Upstairs

Topic: Dynamics of Fiberglas Duct Systems

Speaker: Jim Burrows - West Coast Marketing Specialist, Owens-Corning Fiberglas
 Sandy Sadowski - Area Sales Rep., Owens-Corning Fiberglas

Market Specialist, Jim Burrows, will discuss the dynamics of Fiberglas Duct Board.

JANUARY PROGRAM

Chairman: Tom Gilbertson

Subject: Earthquake Design Considerations of Mechanical Equipment

Speaker: Mr. Henry Degenkolb of H.J. Degenkolb & Assoc. Structural Engineers of San Francisco

DATES TO REMEMBER

This years technical development seminar is entitled "Fundamentals of Refrigeration". This will be a great opportunity for many of us to refresh our respective backgrounds in this very important segment of our industry. So circle March 6, 13, 20 & 27: four consecutive Tuesdays and plan to attend. Watch your Fog Dispenser for further information or contact Sandra Sadowski 873-7950 our seminar chairperson.

HONOR ROLL

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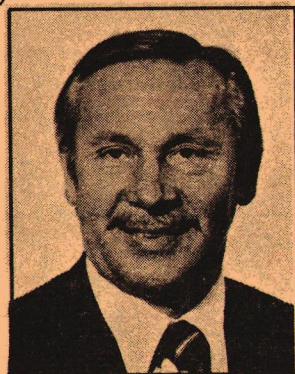
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Corner

President's



DICK M. GLUMAC

Elsewhere in this Fog Dispenser you will read a news item on the Presidential Award of Excellence, and you will find that our Chapter has the most points at the end of

November. To maintain our contribution to the cause of the HVAC industry (regardless of the Awards) we should vigorously continue the activities in all departments, I mean the committees.

I have been in touch with some committees and therefore know that the progress has been made, while I have not heard from others. To make the committee functions more meaningful, we are going to have a brief report by all committees published in the Fog Dispenser starting this month. This type of reporting will inform all the membership of the Chapter as well as the Board of the activities of all the committees.

Hopefully, all committee chairpersons shall be able to spend a few minutes each month to send a brief report to Bill Schultz, our editor.

CRC SEATTLE

Please make the entries in your 1979 calendars to reserve the following dates for this important event:

CRC-X meetings in Seattle
Dates: May 8 thru 12, 1979

People from our chapter who will officially represent our chapter are:

- Dick M. Glumac, President
- Tom Gilbertson, Delegate
- Jim Holden, Alternate
- Kevin Dowling, Energy Management Chairman
- Jim Nemechek, Membership Chairman
- Roy Anderson, Education Chairman
- Lu Bedard, Research & Promotion

CHAPTER BYLAWS

Following the approval of the proposed amendment to the bylaws namely the change of the office of Vice President to President Elect, the bylaws have been reprinted by Tom Campbell's office reflecting the change. Copies are available to any member by calling any one of the Board Members.

PRESIDENT BACKER'S NEW ADDRESS

Morris Backer, P.E.
Senior Vice President
Bovay Engineers Inc.
5619 Fannin Street
Houston, Tx. 77004
Tel.: (713) 529-4921

Know a Prospective New Member?

Contact
Membership Chairman:
Jim Nemechek. 415/871-6808

Mail or Phone News to:
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Feb. 1, 1979	Jan. 18, 1979
Mar. 1, 1979	Feb. 16, 1979
Apr. 5, 1979	Mar. 16, 1979
May 18, 1979	Apr. 18, 1979
June 7, 1979	May 18, 1979

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1978-1979 OFFICERS
Dick M. Glumac President
Thomas A. Gilbertson ... Vice-Pres.
James M. Holden Secretary
Robert Phillips Treasurer

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James G. Taylor Tom Campbell
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MINUTES FROM LAST MEETING

The December meeting of the Golden Gate Chapter of ASHRAE was called to order by President Dick Glumac at the Engineers Club at 7:35 p.m.

1. A motion was made and seconded to approve the minutes of the November chapter meeting. Motion carried.
2. The 1978 Seminar was announced to take place the 4 Tuesdays of March with "Fundamentals of Refrigeration" to be the subject matter and Sandy Sadowski to be chairperson.
3. Lou Bedard made a report on ASHRAE research.
4. Dick Charles reported that we are producing a new temperature data book this year and he needs some committee volunteers.
5. The annual Social will be held Saturday, April 21 at the St. Francis Yacht Club.
6. At the end of November the Golden Gate Chapter was ranked #1 in Region 10 for the Presidential Award of Excellence.
7. Cal Poly sent the chapter a letter of thanks for our hospitality at the November meeting.
8. The speaker for the evening was Jim Meeker of the William Loomis Co. of Bakersfield. The subject was steam traps and associated piping.
9. Meeting was adjourned at 9:30 p.

Respectfully submitted,

Jim Holden, Secretary
December 7, 1978

TREASURER'S REPORT

	10-31-78	11-30-78
Income	\$ -0-	\$1088.97
Expenses	\$ 14.74	\$ 677.55
Members Equity	\$9641.85	\$9941.48

MEETING GUESTS

- Stu Jackson - Syska & Hennessy
- Jeff Cushing - Western Mechanical
- Russ Davis - Loomis Equip.
- Bill Loomis - Loomis Equip.
- John Brown - Armstrong Mach.
- Harry Rostis - Carrier
- Ann Rink - N.S. Wright
- Phil Brown - L.O. Schuelke
- Ted Stalzer - L.O. Schuelke
- John Coppali - Yamas
- Bill Gregory - Yamas
- Jerry Kichter
- Barry Calloushe - Western Mech.
- Mark Demler - Western Mech.
- Jim Meeker - Loomis Equip.
- Jeff Hughes - BAC
- Don Campbell - Austin-Campbell
- Durali Calgaz - Syska & Hennessy

INDUSTRY NOTES

Welcome back, LARRY STURTZ! After many years in Portland, Larry has returned to the Bay Area as Chief ME at GARRETTSON-ELMENDORF-ZINOVREIBEN.

Say hello again to JERRY KECHTER, a recent returnee from Salt Lake City. We're glad you've decided to stay with us.

BOB AHEARN has established a consulting office in Pleasant Hill and is now in private practice. Best wishes, Bob!

*** NOTICE * NOTICE * NOTICE ***

There will be a raffle of the returned reservation cards'. The one picked will receive a free dinner for the February meeting. Send in your reservation cards early.

NEW MEMBERS

The Golden Gate Chapter welcomes the following new members:

- John Wilkinson Migeul Martinez
- Peter Valerio Paul Condon
- Lawrence Markel Rashid Rafiq
- Don Morton James Merritt
- Will Fong Pat Geis

Technical Development Seminar

"FUNDAMENTALS OF REFRIGERATION"

WHEN The first program will be held Tuesday, March 6, 1979 from 6:30 p.m. to 9:30 p.m., and each succeeding Tuesday thereafter through March 27, 1979 at the same hours.

WHERE PACIFIC GAS and ELECTRIC COMPANY AUDITORIUM
245 Market Street
San Francisco, California

FEE For Four Sessions - \$30.00 Contribution

The program will be divided into four parts, and the person listed below will be in charge of that particular section.

Session 1) Fundamentals - Bob Judd & Bob Montgomery

Session 2) Systems, Sizing, Oil & Piping - Bob Braun

Session 3) Controls, Accessories, Manufacturing & Valves -
Greg Braak

Session 4) Service and Operation/Trouble Shooting - Roger Lefler

Registration information will follow in the February Fog Dispenser. If you have any questions concerning the seminar, please contact the Seminar Coordinator:

Sandy Sadowski
c/o Owens-Corning Fiberglas
477 Forbes Boulevard
South San Francisco, CA 94080
(415) 873-7950

CITY COLLEGE A/C CLASS

ENGINEERING TECHNOLOGY 135B: FUNDAMENTALS OF AIR CONDITIONING AND REFRIGERATION TECHNOLOGY (2 UNITS)

COURSE DESCRIPTION: Cooling loads, heat transfer equipment, air handling equipment, and the design of air conditioning systems. Application of air conditioning equipment, components, and control system in the laboratory. Instruments and instrumentation for measuring air flow.

CLASS MEETINGS: Tuesday Evenings, 7 to 10 P.M. through Spring Semester, Room 113 Science Building

FIRST CLASS MEETING: February 6, 1979

APPLICATION FOR ADMISSION DEADLINE: Wednesday, January 3, 1979, 4 P.M.

CALL ENGINEERING DEPARTMENT OFFICE REGARDING ADMISSIONS, 239-3505

REGIONAL REORGANIZATION

A special C.R.C. with Executive Session was held in Vancouver, B.C., on November 9 and 10th to select nominate officers and chairman for Region 11. Twenty-two delegates and alternates attended. Hugh McMillan, President-Elect presided, assisted by W.L. Donley, Region 10 Chairman and George Menzies, Region 2 Chairman.

At this C.R.C. nominations were presented in Executive Session for the following offices:

- a. Regional Chairman & Director
- b. Regional Vice Chairman - Membership
- c. Regional Vice Chairman - Research Promotion
- d. Regional Vice Chairman - Education

Robert Manfull - Oregon chapter, was elected as Member to the Nominating Committee representing Region 11. Herb Sage - Manitoba chapter, was elected as Alternate.

The first C.R.C. for Region 11 was set for May 8 - 10 in Anchorage, Alaska.

The meeting was considered very successful and a feeling of enthusiasm and harmony generated by the participants.

MERRY CHRISTMAS
HAPPY NEW YEAR

NEWS FROM HEADQUARTERS

DEPARTMENT OF ENERGY (DOE)
ENERGY CONSERVATION CODE

The DOE has published "Energy Performance Standards for New Buildings" an advance notice of Proposed Rulemaking and Notice of Public Meetings.

In essence this means that the DOE is going to develop a nationwide Energy Budget for various buildings in various climate zones. The code will be based on performance Energy Budgets, not on prescriptive standards. Three public hearings have been held in the U.S., one in San Francisco on December 7, 1978. Copy of the draft of the Proposed DOE Code is now in the hands of Kevin Dowling, our Energy Management Committee Chairman.

Our committee will review the proposed code and will submit the comments to the DOE, and inform membership on the substance of the code.

ALBUQUERQUE IS HIGH

Attendance at the Annual Meeting in Albuquerque, NM, totaled 1375 including spouses. This makes it the most well-attended summer meeting in Society history.

The 1979 Semiannual Meeting will be held in Philadelphia, PA, January 28-February 1. A meeting announcement will appear in the September issue of ASHRAE JOURNAL.



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