

75TH ANNIVERSARY PARTY



"Presidents All" (And Wives??)
 Left to Right:
 1) Tom Brewer
 2) Rudy Pribuss
 3) Ariel Berrier
 4) Fred Vann
 5) Richard Friedman



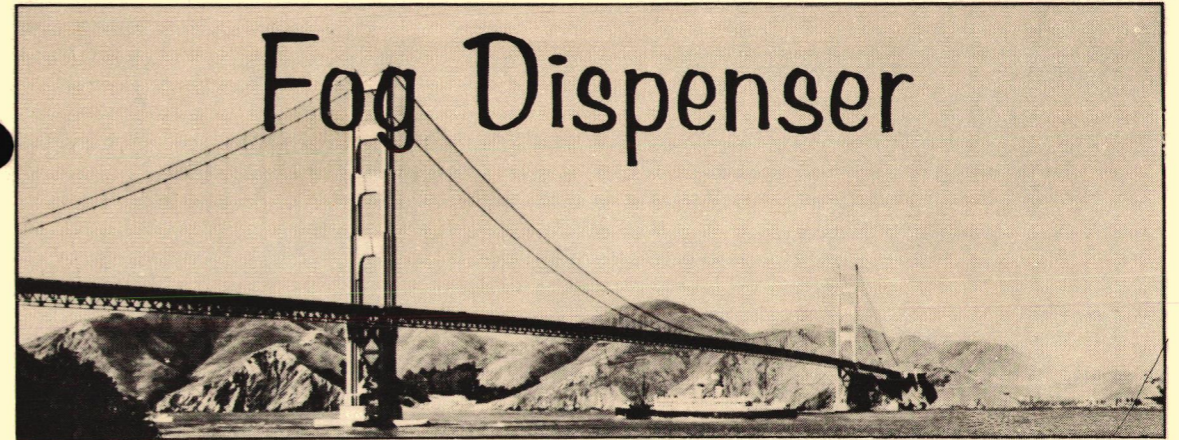
"Smiling faces over the West's biggest show - ACE-WEST". Left to Right standing: Val J. Burke and Larry Shea. Left to Right sitting: Tom Brewer and Phil Freeman (ACE-WEST General Chairman).



"I'd like to present my youngest son". Left to Right: Tom White, Tom Brewer, Jack Palmer, Rudy Pribuss and Joe Murray.



"What's on Karl's mind?"



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII - No. 9

OCTOBER 1969

PROGRAM COMMITTEE CHAIRMAN - GEORGE N. ARONOVSKY

SUBJECT: NOISE CONTROL SPECIFICATIONS

The October meeting presentation will expose some of the mystical aspects of acoustics applied to the environmental systems in buildings. Emphasis will be placed upon the development of limiting sound power criteria and the proper specifications of noise and vibration control media. Consideration will be given to typical installation practice and slides will be used to illustrate and develop the theme of the meeting.

Robert J. Wakelin will be the speaker of the evening. He is a mechanical engineer with experience in New Zealand and the United Kingdom in the contracting and consulting aspects of building services engineering. As consultant with Bolt Beranek and Newman he is engaged in work on all aspects of noise and vibration control as it relates to buildings, industry, and communities. He has a B.E. degree in mechanical engineering from Auckland, New Zealand plus he spent two years in England on a Confederation of British Industry Overseas Scholarship in Air Conditioning and Refrigeration.

The meeting promises to be educational, interesting and most informative to Engineers, Contractors, men in the Service and Refrigeration industry and Suppliers. It is suggested that reservations be made early.

OCTOBER WORKSHOP

Chairman: Gene DeWree

The topic is "Evolution of the Positive Displacement Rotary Compressor". Guest Speaker will be Walt Wishard.

Topic Chairman is Ed Merino, District Manager for Dunham, Bush, Inc. Technical Presentation will discuss the merits of this new concept with regard to air-handling equipment.

Session will start promptly at 5:30 P.M. upstairs next to the main dining room.

HONOR ROLL

PAMECO-AIRE

South San Francisco, California

700 Dubuque Avenue

Phone: 871-8100

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1350 - 15th Avenue. San Francisco, California 94122. LO 6-2740. 6-2740.

**OFFICERS AND BOARD OF GOVERNORS
1969 - 1970**

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George N. Aronovsky . . . Vice President
Irving Alger Secretary
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BOARD OF GOVERNORS

G. Robert Voelz
Lewis S. Pollock
Richard Charles
Carl Jordan
Jack Palmer

**NEW SAN FRANCISCO
BUILDING CODE AVAILABLE**

The new San Francisco Building Code is now available from the Purchaser of Supplies, Room 270, City Hall, San Francisco, California 94102. This includes all changes through July 1, 1969, and represents the complete new Building Code recently adopted by the Board of Supervisors.

The cost of the Code is \$8.45. This includes Sales Tax. If the Code is to be ordered by mail, the postage and packaging will be \$0.50 each.

Please note that if you desire notification about future supplements to the Building Code when issued, please forward with your order to the Purchaser of Supplies a self-addressed stamped postal card. We will then utilize these cards to notify those who wish a supplement when it is available, the price, etc.

Please address all mail orders to the Purchaser of Supplies at Room 202, 450 McAllister Street, San Francisco, California 94102.

NEWS ITEM

The Golden Gate Chapter notes with sadness the passing of two longtime members during the summer - Clyde Wolters of the City of San Francisco and Frank Lockwood of the Oakland School District.

ADVANCEMENT IN MEMBERSHIP GRADE

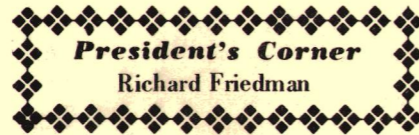
Requires neither fees nor references - just experience, education, or a P.E. License. We urge you to apply. Contact Arel Berrier, 621-7417.

Know a prospective new member?

Contact Gene Valerio, 392-3848, who will send him application forms.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o L & H AIR-CO
Attn: Tom Gilbertson
507 Howard Street
San Francisco, California 94105
Phone: 397-5494



**President's Corner
Richard Friedman**



On behalf of your Officers and Board Members welcome back for the start of a very special ASHRAE Year. Our National Society celebrated its 75th Anniversary September 10th and the Golden Gate Chapter was 32 years old on June 23rd.

Thanks from all of us to outgoing President Bob Voelz and Past President Larry Shea for outstanding leadership and service to the Chapter.

Every new President must approach his year in office as a challenge - 1969-1970 is no exception. As most of you know Golden Gate will be the host Chapter for the National ASHRAE Semi-Annual Meeting January 19th to 22nd, 1970. Concurrent with the meeting Western Air-Conditioning Industries Association (WACIA) is sponsoring an industry wide product display in Brooks Hall in the Civic Auditorium.

Joe Murray, Golden Gate Chapter's General Chairman for the 1970 meeting has been hard at work with his committee to make sure that this 75th Anniversary meeting will be remembered by the thousands of members and guests in attendance as the best ever.

However, let us not forget the rest of the year and the importance of efficiently functioning Chapter's standing committees.

George Aronovsky and his Program Committee have already met to plan an interesting variety of programs for the Chapter's regular meetings and our Annual Social Event next spring.

This year the Membership Committee is chaired by Gene Valerio. He has a fine committee of proven workers and we are expecting great results from them like a Chapter membership increase to 400.

All of the other Chapter committees are ably chaired and staffed and more will be heard from them and about them in the months to come.

At one of the CRC meetings I attended the host chapter's delegate when called upon for a report of his Chapter's activities for the previous year announced that all they had done was to plan the meeting. Golden Gate Chapter is far too large and capable to put our delegates in such an embarrassing position. We can host an outstanding meeting as well as increase our membership, have a great spring seminar on Codes, contribute again to our Cal Poly Workshop agreement, advise on the new Hayward Code and much more.

Let us all, individually and collectively, get involved and work for these many worthwhile Society and Chapter Activities.

EDITORIAL

ASHRAE's 75th Anniversary offers an excellent opportunity to remind ourselves of the great contribution that our industry has made to mankind's welfare.

Social awareness is the order of the day. As ASHRAE members we need not look further than our present careers to find areas of genuine service. Through our handy work people experience the benefits, nay the necessities - of refrigeration, comfort heating, ventilation and air conditioning. We can ask ourselves - without our industry how would mankind store its food, protect its medicine, physically comfort its people - allow man to be more efficient - more useful to others - in his every endeavor.

We are vital indeed.

Our 75th anniversary prompts us to continued contribution, and to a rededication of ourselves to increased efforts that more people may experience benefits of our industry.

Let's make this next year the best year yet for our society and our community through conscientious concerned application of the technology that is expressed through membership in ASHRAE.

MINUTES

The meeting was called to order by President Voelz at 5:55 p.m. at the Engineer's Club. Members and guests introduced themselves.

The minutes of the April 3rd meeting were approved as published in the Fog Dispenser.

President Voelz pointed out:

- The Seminar was successfully concluded.
- The "Soiree" May Social was successful.
- The Sacramento Chapter was having a Golf Dance June 14. Tickets were available from John Brose.
- The June 29 - July 3 Denver Meeting, Semi-annual ASHRAE Meeting commemorates ASHRAE's 75th Anniversary. Members were urged to attend. A show of hands indicated 12 would attend from the Golden Gate Chapter.

The Nominating Committee nominated Jack Palmer and Carl Jordan for the Board of Governors. The nomination was open to the floor. Since there were no other names nominated, the nomination was closed by unanimous vote. President Voelz nominated Tom Gilbertson, Ed Collins and Frank Olson to the Tally Committee. Ballots will be mailed to the membership.

An addendum, new paragraph 1.2, to the Chapter's revised and recently approved By-Laws, was discussed, seconded and unanimously approved.

Mike Scofield reminded the membership of the August 23 joint Golden Gate and San Jose Chapter's picnic. Carl Jordan will manage the San Francisco baseball team and a sign up sheet would be circulated. The cost would be \$15 per family.

Joe Murray, the General Chairman, Committee on Arrangements - 1970 Semi-Annual ASHRAE San Francisco Meeting - pointed out the mailer sign up results were disappointing. He discussed the committee requirements and manpower requirements and pointed out he had selected Committee Chairman and solicited sign ups.

President Voelz appointed Bob Castner (Chairman), Bill Barron and Dick Glumac to the Audit Committee to go over the Chapter's financial records.

President Voelz thanked the members for their efforts in making this year the fine year that it was. He pointed out to the members the Board had done a terrific job and urged everyone to get behind incoming President Friedman and Joe Murray in the coming year and help make the 1970 ASHRAE semi-annual meeting a resounding success. Voelz turned over the gavel to the incoming President Friedman. Dick Friedman, in turn, on behalf of the Chapter, thanked Voelz for his fine efforts

and presented him with the Past President's Certificate of Appreciation and indicated the Past President's pin had not arrived for presentation at this time.

After a brief recess Friedman introduced the panel speakers for the evening, Karl Guttman, Tom Simonson and Hi Eagleson, all leading Consulting Engineers, each to talk about design experiences to be avoided.

Karl Guttman: Examples of problems due to extraneous circumstances: Cooling tower on a hospital job in a residential area was operating at night even though the chiller system was off. People complaints pointed this problem out. Problem was solved by application of electrical control interlock. Another. . . a computer building had a shaft or concrete tunnel for the air return. When the ceiling tiles were sucked into the return system, investigation pointed out the tunnel was only 40% effective due to wires and cables in the shaft. The removal of these solved the circulation problem. Acacia leaves make cooling towers ineffective when tower located under this tree. The problem with an installed tower was solved when the tree was cut down.

Tom Simonson: Beware of parapets! The Hongkong Bank Building had the exhaust blower discharging against the parapet wall. Alongside this blower the outside air blower was sucking in this discharge air. The result was overchilling by the AC system. The problem was solved by redirecting the exhaust discharge direction.

Beware of soil over buried tanks settling. This can crush or collapse a tank that has a manhole and culvert for access. The solutions provide a saddle over the buried tank to cushion or absorb the pressure effect of the earth settling. Other examples. . . be sure to have properly sized holes and sleeves through walls for pipe distribution to avoid leaks. . . belt guards must be kept away from the fan intake to prevent air chokage.

On high rise buildings be sure to oversize vents to prevent or relieve pressure surges and urinal water problems.

Hi Eagleson: Fly ash can be as troublesome as Acacia leaves. Avoid FA intake from light well bottom due to air temperature being 8° hotter. Avoid insect screens on roof intakes - use bird screen on ceiling spaces used as plenums, be sure space is made air tight. Be sure floor drains are at floor low point during construction. Be sure to provide gauges on both sides of pumps. Be sure to prevent separate flow in ducts of hot and cool air from duct furnaces with by-pass or long hydronic coils. Avoid serious problems by crediting heat of lights to heat load.

Lively questions and answers followed. Reference was made to State Bill #1166. The meeting adjourned at 10:12 p.m.

George N. Aronovsky, Secretary.

Industrial Acoustics Co.
Industrial Steam, Inc.
International Metal Products
ITT Bell & Gossett
Joy Mfg. Co.
Kennedy Valve Mfg. Co.
K-F Valve Co.
Kool-O-Matic Corp.
Koppers Company
Krueger Manufacturing Co., Inc.
L&H Air-Co.
Lambert Infra-Red
Lanphere Mfg. Co.
The Lau Blower Co.
Lillard Co.
The Lincoln Electric Co.
The Lockformer Co.
R. F. MacDonald Co.
Mason Industries, Inc.
Mammoth Industries, Inc.
Material Survey Assoc.
McDonnell & Miller
McQuay, Inc.
Mercer Rubber Co.
Metraflex Co.
Milmac
Milwaukee Valve Co., Inc.
Minnesota Mining and
Manufacturing Co.
Modine Manufacturing Co.
Montgomery Brothers Inc.
Mueller Steam Specialties
National Insulation Manufacturers'
Assoc., Inc.
Pacific Boiler & Tank Co.
Pacific Gas & Electric Co.
Pacific Pumping Co.
Packless Metal Hose, Inc.
Pameco-Aire
Paragon Electric Co., Inc.
Sid E. Parker Boiler Mfg. Co.
Penn Ventilator Co.
Phillips Drill Co.
H.K. Porter Company, Inc.
Radiant Engineering Co.

Raypak Co., Inc.
Raywall Electric
Research Products Corp.
Ric-Wil, Inc.
Rite Engineering and
Mnaufacturing Co.
Royal Mfg. Co.
Ruskin Mfg. Co.
Schaub Engineering Co.
Sealed Unit Parts Co., Inc.
Shea Equipment Co.
The Singer Company
R.E. Smith Manufacturing Co.
Snips
Sprague Products Co.
Taco, Inc.
Tempco Equipment Co.
Tempmaster
Thermal Engineering Corp.
Thermal Conduits, Inc.
Thermal Industries of Florida, Inc.
Thermal Products, Inc.
Titus Mfg.
Trade Service Publications, Inc.
The Trane Co.
H. W. Tuttle & Company
Union Carbide Corp.
United Sheet Metal
Uni Grip Hanger Co.
U.S. Flexible Metal Tubing Co.
UOP Water Services Div.
Ventfabrics, Incorporated
Vermette Machine Co., Inc.
Vibration Mountings
Virginia Chemicals, Inc.
Vulcan Radiator Co.
Water Chemists, Inc.
Welty Way Products, Inc.
Whalen Company
Wiremold Company
Witt Co., Inc.
Worcester Valve Co.
G. J. Yamas Co., Inc.
York Corp. (Div. of Borg-Warner)
Young Regulator Co.

**WESTERN AIR CONDITIONING EXPOSITION
SAN FRANCISCO JANUARY 19-22, 1970**

Golden Gate Chapter Members are going to have the greatest opportunity in history to see their industry's products displayed.

The Western Air Conditioning Exposition show on January 19th through 22, 1970 will have in excess of 300 companies showing their wares. Here is a list of exhibitors as of the 10th of September.

CURRENT EXHIBITORS' LIST

ACME Engineering & Manufacturing Corp.	Barber Colman Co.
ACME Industries Inc.	Continental Engineering Corp.
Actual Specifying Engineer	Consolidated Kinetics Corp.
Aerometrics Division	Loren-Cook Co.
Aeroquip Corporation	Demco, Inc.
AHK Corporation	DeZurik Corp.
Airfan Engineering	E. Sam Dick Company
Airflow Developments, Ltd.	Domestic Engineering
Air-Guide Corporation	Dover Corporation, Norris Div.
The Air Preheater Co., Inc.	Dover Corp., Peerless Div.
Airstream Products	Dynasonic Systems, Inc.
Airtemp Div., Chrysler Corp.	E.I. duPont de Nemours & Co.
Airtex Corp.	"Freon" Products Div.
Allis-Chalmers, Pump Division	Electro-Air (Div. of Emerson Electric)
American Artisan	Ellison Instrument Div.
American Gilsonite Co.	Dieterich Standard Corp.
American Society of Heating	Embassy Industries, Inc.
Refrigeration & Air	Encyclopedia Britannica
Conditioning Engineers	Essick Manufacturing Co.
American-Standard, Inc.	Wm. F. Farmer Co.
American Tube & Controls	Farr Company/Dust Control
Amprobe Instrument	Feco, A Bangor Punta Co.
Aronovsky & Assoc.	The Flagler Corporation
Associated Air Balance Council	Flame Air Inc.
Astra Plastics, Inc.	Flexible Tubing Div., of Automation
Bacharach Instrument Co.	Fraser & Johnston Co.
Baltimore Aircoil Co., Inc.	Gas-Fired Products, Inc.
Barry Blower Co.	Gaylord Industries
Blazer Corp.	General Environment Corp.
Brod & McClung (Pace Co.)	Genie Industries, Inc.
The Brundage Co.	Greenheck Fan & Ventilator Corp.
Bryan Steam Corporation	Griswold Controls
Buensod/Agitair	Gustin-Bacon Company
Divisions Aeronco	Hammond Valve Corporation
Burke and Company	Roy E. Hanson Mfg.
Calgon Corporation	Harcast, Inc.
Cam Industries, Inc.	J. W. Harris Company, Inc.
Cambridge Filter	Hastings Industries, Inc.
Carnes Corporation	Havens Cooling Towers
Carrier Air Conditioning Co.	Heating Piping & Air Conditioning
Ceramic Cooling Tower Co.	Hess, Greiner & Pollard
Chelsea Fan & Blower	Hilti Fastening Systems
Climatrol Industries, Inc.	Homestead Valve Manufacturing Co.
Clyde Equipment Co.	Honeywell, Inc.
	Hydronic Industries, Inc.

On Friday night, National officers will present the Charter to the new Hawaiian Islands Chapter of ASHRAE. Help them celebrate the occasion if you wish.

Alternate: Should you wish to extend your stay to the outer islands you may include the Islands of Kauai, Maui and Hawaii. The offering for a 12-day package, which includes the Waikiki package plus these Islands, with hotels and transfers and sightseeing, will be \$496.00 per person (twin basis) and \$588.00 (single basis). This includes outer island air fare. (TRAVELMASTERS, 150 POST STREET, SAN FRANCISCO, CALIFORNIA 94108).

C. Stopovers to and from San Francisco. From across the country, there are options available at no cost or very low cost on your round trip air ticket. Check with your airline or travel agent. Don't forget to ask about reduced excursion rates.

1. One way through Mexico City (as low as \$25.00 additional), Acapulco or Puerto Vallarta is only a short hop beyond.
2. Las Vegas (often no extra charge). A 3-day and 2-night package at the Tropicana Hotel and the Follies Bergeres show and cocktails is \$30.00 per person (double). Grand Canyon side trip is available for around \$18.00.
3. Caribbean Islands or North East - San Francisco - Miami triangle trip for about \$50.00 extra.
4. A Chapter or Chapters booking 25 people at one time may qualify for reduced group rates.
5. Make your San Francisco hotel reservations early as we will really pack this City for this affair.

The tours will start from the Hilton at 1:30 P.M. Thursday after the close of the meeting. Contact the agency noted above for brochures and application forms.

Advance reservations are a must - of course the Local Chapter and the National make no guarantees or take any responsibility for these tours. (Would this ensure that you would have a good time?)

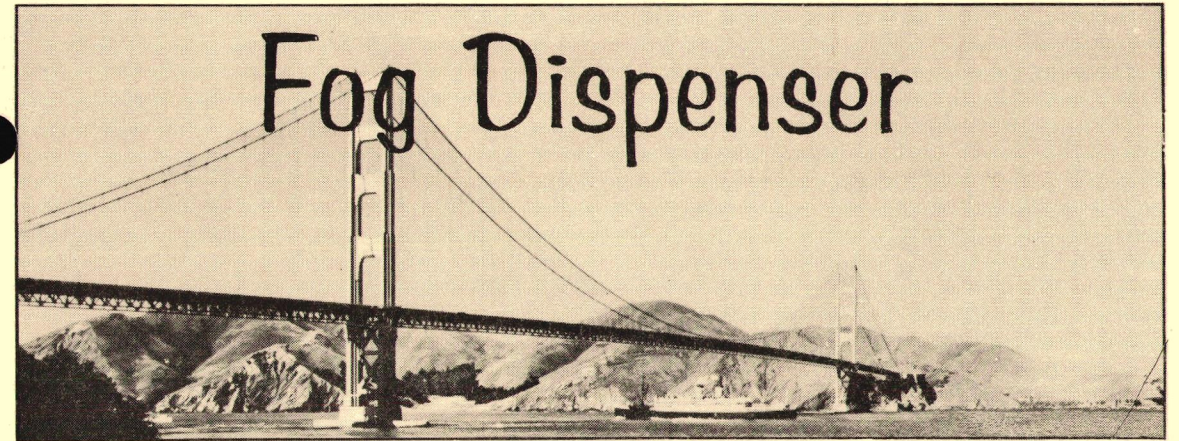
**MEMBERS ATTENDING
OCTOBER MEETING**

- | | |
|---------------------|-----------------------------|
| Jack A. Palmer | Cal Hydronics Corp. |
| Arel W. Berrier | Berrier Sales |
| Howard Dauphinee | Jenkins Bros. Valve Co. |
| Bob Tuck | Tuttle & Bailey |
| Howard Rumrey | Soule Steel Co. |
| Ed Collins | Safeway Stores, Inc. |
| Cal Lau | Sampson Stratta |
| Carson Woo | Boheny, Young, Wong & Biggs |
| Richard A. Charles | Charles & Braun |
| Walter H. Schneider | Charles & Braun |
| Stephen M. Sprague | Charles & Braun |
| Wayne Ketner | Burke & Co. |
| Ted Georgeon | Climatrol Ind. Inc. |
| Marlin Whitney | Vann Engineering Corp. |
| Keith Lescure | N.S. Wright & Co. |
| Harley Driessen | O'Kelly & Schoenlank |
| Harold E. Deady | Rogers Eng. |
| Lyle Schuelke | L.O. Schuelke Co., Inc. |
| Yahagi | Bechtel |
| K.B. Fitz | Bechtel |
| Richard E. Gee | Bechtel |
| Earl Carrier | Bechtel |

- J.J. Sprott
Clyde Wilson Reid
Dale Missimer
Mike Grimes
Jim Parsons
Steve Wei
R.A. Judd
Tom Gilbertson
W.F. McClellan
R.W. Castner
Wes Zimmer
Glenn Mantoani
J.W. Lazor
Pete Filios
Charles Kopf
Carl H. Jordan
Dart Rinefort
W.B. Hancock
G. C. Wilson
Andy Feiner
Ronald R. Ross
Jim Breese
Bob Sweizey
Tom Conroy
Gerry Yaffe
Lou Gramaghlea
Richard P. Porter
C. G. Lang
R.M. Sherrill
Walt Wishard
R.L. Herman
Gene DeWree
Ed Merino
Frank Gorden
Karl Baldwin
Jack Kniveton
Ken Lloyd
Bruce Meyer
Lewis S. Pollock
George N. Aronovsky
Dick Friedman
John Brose
Reid Chappell
Charles A. McGrieff
John E. Werner
Bob Lynch
Gerry Roth
Tom White
Jos. E. Murray
Tom Douglass
Ted Keller
D. C. Bryant
J.P. Dana
C.S. Hardeman
Irving Alger
Robert Voelz
R.A. DeChene
Milo B. Sands
Walter Roos
Don Bradshaw
Bob Wistort
Bob Anderson
Al Scavino
Gene Valerio
Bill Barron
Jim Myers
Leo Dwyer

- Roy Burner
Clyde Equipment Co.
Conrad-Missing
N.S. Wright Co.
Pacific Telephone
Steve Wei
P.B.Q. & D. Inc. Engrs.
Montgomery & Roberts
L & M Air Co.
W. F. Fremer Co.
York Div. Borg Warner
Kennedy Valve
J.S. Co.
E.B. Ward Co.
Flame Air
Robert Shaw
G.L. Gendler & Assoc.
Carrier Corp.
P.G. & E.
Wilson Thrig & Assoc.
Tempco Equipment
Jos. E. Murray & Assoc.
C.A. Gillet Co.
Air Filter/Contr
Clyde Equipment Co.
Tempco Equipment Co. Inc.
Midstate Mechanical
Power Regulator
Joy Mfg. Co.
E.B. Ward & Co.
Dunham-Bush Inc.
Bechtel
Associated Process Control
Dunham-Bush Inc.
Bentley Engineers
Bechtel Corp.
Norman S. Wright & Co.
Barber Colman
Wm. Brobeck & Assoc.
Trane Co.
Aronovsky & Assoc.
Engineered Air
The Brose Co.
Kaiser Hospital
Gus L. Gendler
Trane Co.
Gus L. Gendler
Alco Controls
American Standard
Jemas
Douglass Insulator
Shell Oil Co.
City College S.F.
G.M. Cooke Sales
C.S. Hardeman Inc.
G.M. & T.R. Simonson
SOM
L.R.L. Livermore
Kaiser Engineers
Kaiser Engrs.
Fiberglas
Belden & Wistort Cons. Eng.
Pameco Aire
Engineered Air Systems
Air Filter/Control
Wm. A. Barron Co.
J.L. Myers Co.
Ralston & Dwyer

More members were in attendance but their name omitted due to the fact their handwriting was not legible.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII - No. 10

NOVEMBER 1969

PROGRAM COMMITTEE CHAIRMAN - GEORGE N. ARONOVSKY

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, corner of Sansome and Pine Streets, San Francisco on Thursday night, November 6, 1969. Social hour will be at 5:30 P.M. and dinner at 6:45 P.M.

SUBJECT: IT DOES NOT TAKE MIRACLES

Four Bay Area Engineering Societies, in conjunction with the Bay Area Urban League, have sponsored an on-the-job training program since February 1968, aimed at minority employment in the engineering field. The program provides training and employment in para-professional occupations for personnel not previously qualified. Success has been considerable and national recognition has been received. Similar programs in other areas have followed. The speakers will discuss the experiences of this effort, the lessons to be learned, and what ENGINEERS CAN DO TO HELP SOLVE A PRESSING NATIONAL PROBLEM, as well as help solve their individual manpower problem while being reimbursed for the cost of the problem.

Participants in the discussion: *Moderator, Karl Guttman* of Kasin & Guttman & Associates, Vice Chairman of the Engineering Societies' Committee, *Thomas Gwyn*, Project Director, On-The-Job Training Project Bay Area Urban League, *Sol E. Cooper*, Structural Engineer, Earl and Wright, Chairman Engineering Societies' Committee.

HONOR ROLL

850 Manler Road

THE R. F. MacDONALD COMPANY
Burlingame, California

Phone: 697-0770

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1350 - 15th Avenue, San Francisco, California 94122. LO 6-2740. 6-2740.

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Jack Palmer

NEWS RELEASE

The Western Air Conditioning Exposition has passed the Prelude stage with flying colors and is now entering the Serenade stage. The Expo Tempo is building up to a Grand Finale that will mark one of the most successful air conditioning shows ever to be held in the Western United States.

Thousands of advance admission identification applications are now in process of distribution through exhibiting companies, trade magazine inserts and selected lists of engineers, architects, contractors and other classifications pertinent to the air conditioning and environmental control industries.

These advance ticket registration forms are also available through the Exposition office at 77 Jack London Square, Oakland, California 94607 - telephone: (415) 451-7971.

All applications received prior to December 15th will be processed and a free admittance pocket identification card and a personalized plastic inquiry card for use at all booths will be mailed to advance applicants two weeks before the show date. By obtaining advance tickets, there will be no waiting in line at show time.

ADVANCEMENT IN MEMBERSHIP GRADE

Requires neither fees nor references - just experience, education, or a P.E. License. We urge you to apply. Contact Arel Berrier, 621-7417.

Know a prospective new member?

Contact Gene Valerio at:

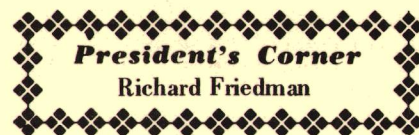
Air Filter/Control
P.O. Box 787

South San Francisco, California 94080
Phone: (415) 871-6808

who will send him (her) application forms.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o L & H AIR-CO
Attn: Tom Gilbertson
507 Howard Street
San Francisco, California 94105
Phone: 397-5494



President's Corner

Richard Friedman



Autumn is upon us and this year has begun in grand style. Our first meeting was a great success. Gene DeWree's pre-meeting workshop got things rolling with an excellent presentation on an important new development in the industry. The raffle netted the Chapter \$54.00. Many more members than usual stayed for Bob Wakelin's talk which is a credit to Program Chairman George Aronovsky and his speaker. For future meetings we intend to adhere to the following schedule:

Cocktails and pre-meeting workshop - 5:30 to 6:30. First call to dinner 6:30. Bar closes 6:45. Complete dinner, business and break by 8:30. Speaker to finish by 9:30. Questions and answers until 10:00.

The 1970 semi-annual meeting is only three months away. Joe Murray and his committee chairmen have been hard at work for months. Those of you who have volunteered for committee work and have not yet been contacted will be called soon.

The Board of Governors decided to combine our Annual Social Event with the Semi-Annual Festivities in January 1970. Details will be forthcoming.

The Roster will go to press this month. The revised Chapter By-Laws will also be printed and distributed with the Roster. In future years the Roster will be printed and ready for distribution in October.

Cal Poly's Environmental Engineering Department has scheduled their annual field trip to coincide with our November meeting. The students will be our guests for dinner. Hopefully each member will do everything possible to make these young men feel comfortable and welcome.

On the subject of membership it is my hope that each of you will make a special effort to get the perpetual free-loaders to join this year. Chairman Gene Valerio and his Membership Committee are doing a bang up job but they cannot increase the membership without your help.

MINUTES

The meeting was held at the Engineer's Club, San Francisco. President Richard Friedman called the meeting to order at 7:35 P.M. Members and Guests were introduced.

President Friedman congratulated all members who arrived at the meeting on schedule. The time and place of the meeting had been inadvertently omitted from the Fog Dispenser.

President Friedman announced that in the future the social hour will end at 6:45 P.M. promptly and that the bar will not be open during the break. He promised that the business meetings will be short and to the point. He hopes that these changes will improve the attendance, and will give more time for the program. Also, he said that the meetings might even end earlier than in the past!

President Friedman noted that C.E. Parmalee of National had approved Golden Gate Chapter's revised by-laws on April 4, 1969. He also announced that before Robert Voelz retired from presidency last June, he had appointed Carl Jordan and Jack Palmer to fill the two vacancies in the Board of Governors created by the revised by-laws.

President Friedman called Past President Tom White to the podium and officially presented Tom with the Distinguished Service Award given to him by National while attending the Denver meeting. The National membership exceeds 2500, however not more than 10 such awards are given each year. Congratulations Tom!

Al Savino, Roster Chairman, announced that the new Roster will be published in October with the names of last year's members. He said to please notify him immediately of any changes in address, employment, wife's name, etc., so that the Roster may be as correct as possible.

President Friedman said the chapter was saddened this summer to learn of the deaths of Clyde Wolters and Frank Lockwood. A letter of condolence was sent to Mrs. Wolters and Mrs. Lockwood by the secretary in the name of Golden Gate Chapter. Contributions were given to worthy charities selected by the wives of the deceased.

The Auditor's report prepared by Dick Glumac was read by President Friedman. The report said Ed Meehan should be commended for keeping the books in perfect order. The net worth of the Chapter as of June 30, 1969, was \$7,472.67. This represented an increase in net worth of \$1,722.98 over the previous year. Assets in the various accounts are: Commercial \$1,701.87, General Fund Savings \$1,775.41, Workshop Fund Savings \$645.74, Research Fund Savings \$2,226.00. Subsequently a donation of \$1,500.00 was given to Cal Poly Workshop which has reduced our Chapter's net worth over the previous year to \$222.98.

Joe Murray, General Chairman for the 1970 Semi-Annual Meeting, January 18 through 22, was asked to make a report. He said that for those who haven't attended a National Meeting, you are about to enjoy a most enriching experience that will literally open your eyes to the meaningful and significant leadership and creative functions of our Society. He urged that all active members of our Chapter volunteer to assist him in committee work so that this Semi-Annual meeting can be the greatest ever. In addition to many papers, forums and symposia of interest, there will be parties, dinners, dancing and tours.

Larry Shea reported on the progress of ACE-WEST Show, a mechanical equipment exposition, which will be held concurrent with the ASHRAE Semi-Annual Meeting. He said the show's success can be reasonably assured. The list of exhibitors is already larger than the ARI exposition in Cleveland.

Gene Valerio, Membership Chairman, reported that the new membership drive is off to a good start. Many new applications have been given out.

Bob Voelz reminded President Friedman that he had not asked for the approval of the June minutes. The minutes were approved as published in the Fog Dispenser.

After a brief break, George Aronovsky, Program Chairman, introduced Mr. Robert J. Wakelin, consultant

with Bolt Beranek and Newman, who spoke on Noise Control Specifications. Mr. Wakelin is engaged in work on all aspects of noise and vibration control as it relates to buildings, industries and communities. Although the central theme of the talk was acoustical specifications, to cover this subject, Mr. Wakelin discussed decibels, sound power, sound pressure, NC curves, octave bands, room attenuation, duct linings and silencers. The following are a few of his remarks:

The total noise humans can hear lies within the frequency range of 20 to 10,000 Hertz. This is called total audio range and it is subdivided into 8 octave bands.

The NC curve which is supposed to define an acceptable background noise spectrum varies with the type of room. An NC 35 curve in a private office may be acceptable, while in a conference room it may be both "boomy" and "hissy".

The resultant noise level in a room is a function structure-borne sound, airborne sound, noise source, building construction, vibration isolation, and size and furnishings of room.

The starting point of every specification is a criterion. Some typical criteria are: (a) not subject to hearing damage, (b) able to converse comfortably, (c) able to converse with assurance of privacy, (d) not annoyed, (e) able to sleep, (f) able to fully participate in any desired activity.

In recent years it has become normal for manufacturers of diffusers, induction units, air valves, constant volume boxes, variable volume terminals and fan coil units to rate their equipment according to sound power level, therefore it is a proper thing to write limiting sound power specifications. Most other equipment is rated using sound pressure levels.

There is a need for witnessing acoustical test with products involving hundreds of units. The test should be performed on several representative units selected at random from production models.

**TOURS OFFERED
ASHRAE MEMBERS**

Joe Murray, Arrangements Committee Chairman, reports the following tours will be available to ASHRAE members following the January 1970 convention:

A. **Escape to Nevada** - For those who must get home for the weekend, an overnight trip, up through towering forests and magnificent mountains to Lake Tahoe - on the Nevada side. Scenicruisers arrive at South Shore at sundown, deluxe motel, free bar shows, gambling if you choose, start back at noon Friday in time for your 6 p.m. plane - all for \$18.50 each (double occupancy) or \$19.50 (twin) and you get a \$10.00 refund (per person) good for drinks and gambling. (PARK AVENUE TOURS, 606 MISSION STREET, SAN FRANCISCO 94105).

B. **Hawaiian Holiday**. Five days and four nights on the Beach at Waikiki, the new Outrigger deluxe beach hotel, Saturday night dinner and show at the unique Polynesian Cultural Center, Sunday night Luau, return to San Francisco or Los Angeles via United Airlines. Cost of package includes round trip transfers in Honolulu and from San Francisco Hilton to San Francisco airport. Round trip coach air fare (includes meals) \$290.00 per person (twin basis) and \$323.00 (single basis).

Engineer magazine has two excellent articles on this subject.

President Friedman presented Robert Voelz with the "Distinguished Past President's Pin".

There being no further business, the meeting was adjourned at 10:45 pm.

■ ■ ■

**THIS IS IT!!
SOCIAL EVENT OF THE YEAR**

The big fun night of ASHRAE's Semi-Annual Meeting will be Monday, January 19, 1970. Your Board of Governors has decided to combine the annual Golden Gate Chapter Social with this event so that everyone will have a blast and an opportunity to meet our guests from across the country.

New York Teriyaki Steak dinner, entertainment with a Barbary Coast theme, and dancing 'til one at the fabulous Kabuki Theatre Restaurant in the beautiful Japanese Cultural Center for only \$15.00 per person.

What a great way to entertain your customers. Plan now to make up a table with your friends.

Check the Fog Dispenser and watch your mail for more details.

■ ■ ■



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII – No. 11

DECEMBER 1969

PROGRAM COMMITTEE CHAIRMAN – GEORGE N. ARONOVSKY

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, corner of Sansome and Pine Streets, San Francisco on Thursday night, December 4, 1969. Social hour will be at 5:30 PM and dinner at 6:45 PM.

SUBJECT: PRACTICAL HINTS ON DX REFRIGERANT PIPING

The December Meeting will be of practical interest to the members and their guests. The experienced panelists will present slides and touch on piping problems, flow control devices, hot gas by pass, methods of head pressure control, the control of hot gas by pass in multizone equipment, what a contractor would like to see on plans and specifications, refrigerants R12, R22, R502 and oil return piping and sizing. The panelist will welcome all questions during the questions and answers period. The meeting will be informative and members are urged to bring their guests since the program will be of general interest to all.

The participants are: **Moderator:** Jerry Howarth, Kramer Trenton Co. **Panelists:** Robert Montgomery, Consulting Engineer; Edward Long, Honeywell, Inc.; and William T. Murphy, Power Refrigeration Co.

DECEMBER WORKSHOP

Chairman: Gene DeWree

ACE-WEST WORKSHOP

"Timely tips" by Phil Freeman and his "gang". Phil will display and discuss a sample exhibitor's kit. This shows everything you need to know about the show. He will bring thousands of invitations for you to distribute.

Also present will be a man from Bekins ("Bekins guards your goods"), the show's official mover, and a representative of the show's utility contractor.

Workshop will start at 5:30 PM at the Engineer's Club in the room adjoining the dining room.

HONOR ROLL

Bill Hancock

THE PACIFIC GAS & ELECTRIC COMPANY

245 Market Street

San Francisco, California

Phone: 781-4211

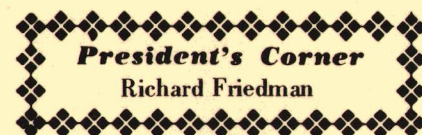
Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1350 — 15th Avenue, San Francisco, California 94122. LO 6-2740.

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G. Robert Voelz
Lewis S. Pollock
Richard Charles
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Jack Palmer



President's Corner

Richard Friedman



It was gratifying to see the tremendous turnout at our November meeting in response to a bold experiment. A program not directly connected with heating ventilating and air-conditioning but a subject as timely and important as any we face, "minority Employment in Engineering Field." Congratulations to George Aronovsky and Karl Guttman. The reaction of the membership to the meeting has been overwhelmingly positive. At our November Board Meeting the Board addressed itself to the problem and appointed Carl Jordan to investigate what we as a society can do to help existing programs or initiate a new program of our own.

Two months to go and the 1970 Semi-Annual Meeting will be starting. The program was published in the November Newsletter from National. Approximately 75 papers will be presented at 4 technical sessions and 1 symposiums, in addition there will be 4 off the record forums. The subject matter to be presented is as broad as our industry and there should be something of interest for everyone.

Phil Freeman of Ace West reports that booth sales for the Show have been great. In order for the Show to be a real success it is up to us now. It is essential to have an excellent attendance of responsible people from engineering offices, contractors, institutions and industry to prove to the manufacturers that their trip to San Francisco was worthwhile.

"Recommended Outdoor Design Temperatures Northern California" the design date of book published by our own Golden Gate Chapter of ASHRAE in 1965 will be on sale at the December meeting.

I hope many of you had the opportunity to meet Walter Holtz, head of the Department of Environmental Engineering at Cal Poly and the students who accompanied him on their annual

Northern California field trip. Mr. Holtz expressed the deep appreciation Cal Poly feels for the Workshop Funds donated by the Golden Gate Chapter. Leo Dwyer, our Workshop Fund Committee Chairman, will be sending out requests for contributions in January. We hope those of you who have not contributed in the past will see fit to do so and the regular donors will consider increasing their pledges.

Dick Glumac, our Seminar Chairman, is starting to lay the ground work for our Annual Spring Seminar. The subject is Codes. Those of you with ideas or the desire to help should contact Dick.

In closing let me extend to each of you and your families my best wishes for a peaceful, healthy and happy Holiday Season and New Year.

MINUTES

The meeting was held at the Engineer's Club, San Francisco. President Friedman called the meeting to order at 7:45 PM. Members and Guests were introduced.

The minutes of the October meeting were approved as published in the Fog Dispenser subject to the following correction: The National membership exceeds 25,000 — not 2,500.

Jos. Murray reported on the progress of the preparations for the 1970 Semi-Annual Meeting. He stated that he and his committee had met with Julia Szabo, National Meetings Secretary, to finalize the arrangements. The meeting was very successful and all committee functions were under control. His primary concern was the Chapter's patronage of the Monday Night Club Party at the Kabuki Theatre Restaurant. He said that the social would be reminiscent of Barbary Coast era with dinner, one hour floor show and dancing to a 10-piece orchestra. He stressed that every member should bring a client or a friend to the party as the break-even point for keeping the chapter out of the red is 500.

President Friedman read the treasurer's report. Income for October was \$947.45 with expenditures totaling \$377.64. Assets in the various accounts were: Commercial \$2,051.46, General Fund Savings \$1,793.16, Workshop Fund Savings \$709.38, Research Fund Savings \$1,862.24.

Walter Holtz of Cal Poly of the Environmental Department Engineering and 20 of his students who were on a field trip in the Bay Area were guests of the Golden Gate Chapter. Walter thanked us in behalf of his students for our recent \$1500 donation to Cal Poly Workshop.

We were honored to have as guest Dixon Ervin, Director and Regional Chairman for Region X, and Ken Watts, Membership Committeeman for Region X. Dix was called upon to relate the progress and growth of ASHRAE, formerly ASHVE, from year 1 (1894) to 1969. His report was very enlightening and encouraging. He praised Golden Gate Chapter for its large membership, excellent programs, and generous donations to research.

After a brief break, George Aronovsky, Program Chairman, introduced the speakers for the evening. The subject was entitled "It Does Not Take Miracles". Participants in the discussion were: Moderator Karl Guttman of Kasin & Guttman & Associates, Vice Chairman of the Engineering Societies' Committee: Thomas Gwyn, Project Director, On-The-Job Training Project Bay Area Urban League; and Sol Cooper Structural Engineer with Earl and Wright, Chairman of the Engineering Societies Committee.

Four Bay Area Engineering Societies, in conjunction with the Bay Area Urban League have sponsored an on-the-job training program since February, 1969, aimed at minority employment in the engineering field.

Karl emphasized that today we live in a very complex and close knit society and since we are all members of the community, we cannot ignore the high rate of unemployment of the minority group workers.

Tom described the principals of Bay Area Urban League and how, in just one year, on-the-job training has placed more than 30 young men in productive jobs with engineering firms. The trainees were of late teens or early adult ages with high school education preselected through personnel interview.

Sol explained the purposes of the manpower training program namely:

1. Provides engineering and related offices with manpower trained to fill the need for para-professional personnel.
2. Provides individuals of various minority derivations with opportunities for useful, satisfying and gainful employment.
3. Fulfills, in practice, a community need and obligation.

The training is aimed to skills used in support of professional engineer's work in design and construction but which do not require an extensive college education. Training is given while the trainee is gainfully employed full time.

A lively question and answer period followed the discussion. The October issue of the Professional

The Banquet for the semi-annual ASHRAE meeting to be held in San Francisco will be at the Hilton Hotel, January 20, 1970. Assemblyman John Knox will be our guest speaker, and Walt Tolleson will provide the dance music.

Tickets will be \$14.00 each or \$27.00 per couple. Tables will be arranged with ten seats. Those companies or offices wishing to reserve a table, please contact:

**Arel W. Berrier
Banquet Chairman
1070 Bryant Street
San Francisco, California
Phone: 621-7417**

ADVANCEMENT IN MEMBERSHIP GRADE

Requires neither fees nor references — just experience, education, or a P.E. License. We urge you to apply. Contact Arel Berrier, 621-7417.

Know a prospective new member?

Contact Gene Valerio at:

**Air Filter/Control
P.O. Box 787
South San Francisco, California 94080
Phone: (415) 871-6808**

who will send him (her) application forms.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
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507 Howard Street
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Present Reserved Booths

ITT – Booth 3002, 3005, 3007, 3008, 3009, 3010, 3011,
3012, 3013, 3015, 3017

The Raypak Company – Booth 2901

Radiant Engineering Co. – Booth 2905

Air Conditioning Heating & Ventilating Magazine
Booth 2804

Norman S. Wright & Co. – Booths 2805, 2809, 2811,
2813, 2815, and Booths 2808, 2810, 2812, 2814

Bill Tennity – Booth 2704

Sprague Products – Booth 2708

U.S. Flexible Metal Tubing Co. – Booth 2724

Laars Engineers – Booth 2728

Burke and Company – Booth 2707 and 2606

Fraser & Johnston – Booth 2601

Slant/Fin – Booth 2504, 2508 and 2607

United Sheet Metal – Booth 2505

Shea Equipment – Booth 2509, 2511, 2513

Buensod – Booth 2401

Brose Company – Booths 114 and 116

Consolidated Kinetics Corp. – Booth 643

Paragon Electric – Booth 822

In addition, we are holding Booth 2404 and Booth 2909
for Wiremold Company to decide which of the two they
prefer.

ASHRAE ATTENDANCE – December 5, 1968**GUESTS**

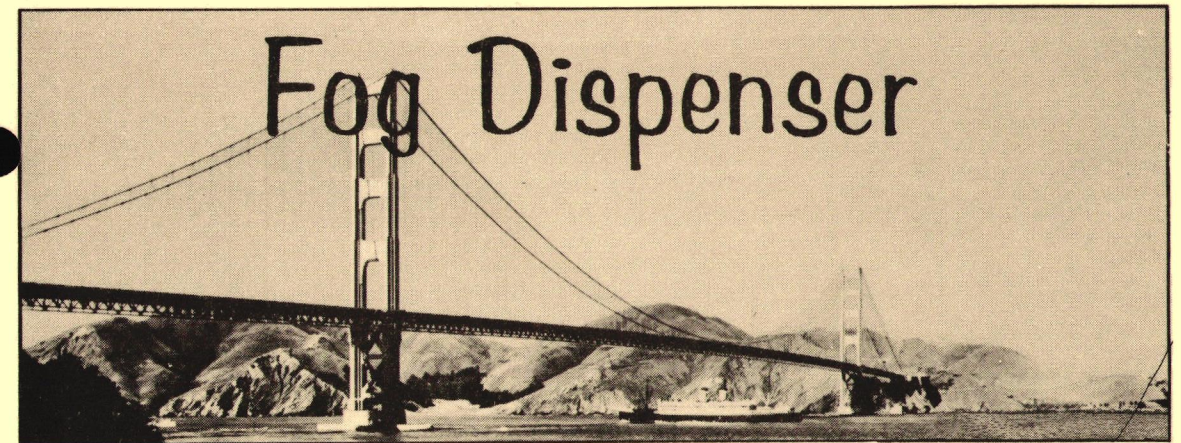
Sev Marsted	Fred W. Berger, Jr.
W. Wittner	Bentley Engineering
Jim Emmons	C.S. Hardeman, Inc.
Art Bland	Flame Air
Cal Laws	Simpson Stratta
Bob Stayton	University Mech.
Stephen M. Sprague	Charles & Braun
Robert Roach	C.A. Gillet Co.
Gary Treat	Trane Co.
Warren Pollock	P.O. Dept. Eng. Branch
Leslie Walch	Polar Cold
Robert L. Warren	Tempco Equip.
Dale Lansford	Lear Siegler, Inc.
Ernie Velando	Shea Equipment Co.
Dick Morehead	Assoc. Mem. Lillard Co.
Mike Scofield	Hoss, Greiner & Polland
Mike Savage	Quality AC
Alan Harp	Powers Regulator Co.

MEMBERS

Sam Yamauchi	G.L. Gendler
Gerry Yaffe	Tempco Equipment
R.A. DeChene	Law. Rad. Lab.
J.V. Rudy	Johnson Service
Fred Vann	Vann Engineering
Andy Feiner	Tempco Equipment
Mike Cory	Vann Engineering

Bob Swazzy
Marlin Whitney
Keith Lescure
Karl Baldwin
Wei Lin Hsia
Ken Mirov
Helmut Sommer
Walter H. Schneider
Tome Douglass
Don Bradshaw
Pete Filius
Tom Campbell
Arel W. Berrier
John E. Werner
D.N. Robinson
W.H. Boganwright
Art Ceopponi
R.H. Judd
Charles McGriff
Barry Fitzgerald
Glen Martineau
Gary Roth
Charles Hardeman
Irving Alger
Dick Charles
Robert Voelz
Dick Friedman
Joe McQuillan
George Aronovsky
L.E. Shea
Pat Gies
Bob Wistort
Jack Boldt
Robert Phillips
Richard E. Gee
Jim Curtin
Maurice Laks
Lowell Young
Max Wolff
Jim Lazor
F.M. Palacios
Bob Mills
Norm Heathorn
Chuck McLaughlin
D.H. Fujioka
Harold E. Deady
F. Lockwood
R.W. Casther
Phil Beggs
Bob Beggs
Bruce Meyer
Paul Edison Pulliam
Gene DeWree
Jim Breese
Lyle Schuelke
Leo Pumphy
Miles Suda
Wayne Retner
Jim Parsons
Ross Sherrill
Art Gamble
Bill McClellan
Don Levensaler
Charles Harden
Per Sonander
Dick Schunert

Burke and Co.
Vann Engineering
N.S. Wright
Ramsey Engineers
Bentley Engineering
Trane Co.
Kasin & Guttman
Consulting Engineer
Douglass Insulation
Fiberglas
Flame Air
Owens Corning Fiberglas
Berrier Sales
Trane Co.
Kaiser Engineers
Pacific Pumping (Fresno)
Pacific Pumping
Montgomery & Roberts
Charles & Braun
Johnson Service
Johnson Service
Alco Controls
C.S. Hardeman
G.M. & T.R. Simonson
Charles & Braun
Skidmore, Owings & Merrill
Engineered Air
Risk Analysis & Research
Aronovsky & Assoc.
Shea Equipment
Engineered Air
Belden & Wistort
American Air Filter
Low & Phillips
Bechtel Corp.
Lockheed
G.L. Gendler
Valley Sheet Metal
Dill & Sederberg
Edw. B. Ward Co.
P.O. Dept. Eng. Br.
University Mech.
N.V. Heathorn
American Standard
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Rogers Engr.
Oakland Schools
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Farr Company
S.O.M.
S.O.M.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII – No. 4

JANUARY 1969

PROGRAM COMMITTEE CHAIRMAN – DICK FRIEDMAN

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, Corner of Sansome and Pine Streets, San Francisco on Thursday night, January 9, 1969. Social hour will be at 5:30 P.M. and dinner at 6:45 P.M.

SUBJECT: ENGINEERING EDUCATION – 1968

The speakers will be Mr. George James Maslach, Dean of the College of Engineering, University of California, Berkeley and Mr. Donald C. Bryant, Professor of Mechanical Engineering, City College of San Francisco. They will cover the current status of Engineering Education at the undergraduate and graduate levels. In addition they will discuss the changes which have occurred in the past 20 years as well as their projections for the future. Ample time will be allowed for a question and answer period at the end of their presentation.

(Please note this meeting is the 2nd Thursday of the month....not the 1st Thursday)

JANUARY WORKSHOP

Chairman: Gene DeWree

The January Workshop topic is: "What's Up On Voltage". This is your opportunity to suggest how specifications can be more definitive regarding voltage requirements for equipment in mechanical systems.

The panel members will be Rod Thompson, Power Engineer, P.G. & E.; Karl Baldwin, Ramsey and Associates, Consulting Engineers; Tom Herkalo, Sales Engineer, and Jerry Green, Motor Sales Manager, G.E. Company; and Hal Dabbagh, Chief Engineer, Pacific Pump.

We will be concerned with the voltage that should be specified – 240v or 230v or 220v or 208v.

The session will start promptly at 5:30 p.m. upstairs next to the main dining room.

HONOR ROLL

THE ALADDIN HEATING CORPORATION

1111 Aladdin Avenue

San Leandro, California

Phone: EL7-6711

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1350 - 15th Avenue, San Francisco, California 94122. LO 6-2740.

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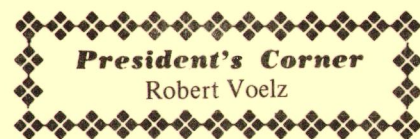
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CORRECTION

Correct address for the Golden Gate Chapter of the American Society of Heating, Refrigeration and Air Conditioning Engineers is: 1350 - 15th Avenue, San Francisco. NOT: 1371 - 15th Avenue, San Francisco.

Please note this in mailing in your annual dues.



On behalf of the Board of Governors of the Golden Gate Chapter, I would like to extend Season's Greetings to all of our membership and other friends receiving the Fog Dispenser. May you all have a very Merry Christmas and a very Happy New Year.

The coming of this new year brings along with it many new challenges for our Chapter to face and overcome. The biggest of these will be our preparations for the Semi-Annual ASHRAE Meeting which we will host here in San Francisco in January 1970. Between now and then, there will be countless hours of committee work that must be accomplished in order that our meeting can be the grand success that we all want it to be.

Needless to say, this work can either become a gigantic task for a few of our members or a relatively simple, pleasant task for the majority. Obviously, I sincerely hope that Golden Gate Chapter will choose the latter method; but to make the job a simple one for all concerned, we will need the help and cooperation of the majority of our membership. The Chicago Chapter, that is hosting the meeting this coming January, has no less than seventeen separate committees, each with many members, functioning to make their meeting a success. I am sure Golden Gate Chapter will not get by with less.

Within the next few weeks, you will be receiving a form showing the committee positions that must be filled. Make sure you get your form filled in and returned promptly. Don't be bashful. Put your name down for a couple of the committee spots and it should be an easy chore for all of us to have that very successful meeting we all want one year from now.

If any of you are planning to attend the Chicago show, I would also appreciate hearing from you soon to that effect. We will need a little publicity work done back in Chicago for our meeting, so any of you attendees can volunteer and be active sooner than you think.

MINUTES - DECEMBER MEETING

The meeting, held at the Engineer's Club, was called to order by President Voelz at 7:40 p.m. Members and guests were introduced.

The minutes were approved as published in the Fog Dispenser.

President Voelz reminded the membership to send in their dues if they want to be listed in the Roster.

President Voelz announced the Board had made corrective changes to the Workshop agreement which should hopefully satisfy everyone and those calling for changes. The new agreement will be sent to Cal Poly.

President Voelz, on the matter of the City of Hayward's request for the Chapter's assistance in the rewriting of their mechanical code, pointed out the fact that since many, many hours were involved in the review of the San Francisco Code the Chapter could not undertake the tedious assignment unless there were volunteers for the work.

President Voelz reminded everyone that more names are needed for the 1970 WACIA Exposition. He indicated he was working towards the establishment of committees for the handling of entertainment, preparations of plans, etc.

President Voelz said he would present to the membership for approval the new by-laws as soon as the approved copy from National was received - hopefully by the next General Meeting.

John Rudy pointed out help was needed to recruit new members from the ranks of the perennial guests and from the offices of Consultants. Volunteers should contact him or Bob Voelz. The recruiting program has lagged and help is needed for phone calling and from those calling on Consulting Engineers.

Eugene DeWree announced the workshop on the ASHRAE Guide was well attended. The next workshop would be on POWER SUPPLY - WHAT'S UP IN VOLTAGE. There would be representatives from the Utility, suppliers and users on the panel.

The announcement was made that due to New Year's Day falling Wednesday, January 1, 1969, the next general meeting would be held on the second Thursday in January, on January 9th instead of January 2nd.

Dick Friedman announced there would be two speakers at the next meeting - George Maslach, Dean, College of Engineering, UC Berkeley, and Don Bryant of the Department of Engineering, City College, San Francisco - the subject: MODERN CONCEPT OF ENGINEERING EDUCATION for graduates and undergraduates.

Dick Friedman introduced the speaker for the evening - Mr. Joseph A. McQuillan who is both a mechanical engineer (consulting) and an attorney. His talk was entitled "Professional Liability - The Achilles Heel of the Consulting Mechanical Engineer". The talk pointed out present serious legal problems plaguing the consulting mechanical engineer - in particular professional liability suits. It was pointed out that although the ME has no control over the Contractor's safety precautions, construction injured persons still level lawsuits at him in the mistaken belief he was in some way contributory to the negligence. It was also pointed out that even if these suits are defeated, the engineer still suffers irrecoverable losses such as damage to his reputation plus the fact of the resultant high increase in liability insurance rates or non-availability of liability insurance. Mr. McQuillan pointed out the need for more understanding within the construction industry of one another's problems and the need for the design professional to come up with a solution to the professional liability problem as otherwise the professional engineer could very well be replaced by large self-insured Engineer-Construction combines that both design and build. There followed a very lively question and answer period.

The meeting adjourned at 9:50 p.m.

George N. Aronovsky,
Secretary

WACIA - What is it? Where do we stand?

WACIA stands for the Western Air Conditioning Industries Association, of which YOU are a part. It is an organization aimed at increasing the importance and use of air conditioning on the West Coast. It raises funds by putting on product expositions, and donates money for scholarships and other worthy causes. It is a volunteer group with no paid staff.

Our next exposition will occur in SAN FRANCISCO, concurrent with (but not under the auspices of) the ASHRAE winter meeting in January of 1970. So what has this got to do with you? Everything. We need YOUR HELP TO MAKE IT A SUCCESS.

Anything that you can do to "sell" space for product display will be helpful. If you are an ENGINEER, have a big sign made up to hang in front of your desk. As the vendors come in or phone, ask them if you will be able to see their products locally in 1970. Find out if THEIR company is interested in YOU. If they are not, then they expect you to spend hundreds of dollars to go back east in the middle of winter (if the plane can even land at the airport in the snow and ice) just to see their latest model Enthalpy 2, or else they don't really care.

If you are a CONTRACTOR, the same applies to you. You have many men in your employ who could get a liberal education by seeing hundreds of products side by side at one product exposition; many not normally going to the shows back east either, even though they may be worthwhile. So you may learn something, too.

VENDORS of the West, UNITE! You are the cadre that can be most effective in convincing your principals of the importance, nay, necessity of exhibiting in the West. Let them know we no longer are a frontier full of violence (except at our colleges). We are civilized (almost) and thirsting for knowledge. We are going to have one of the most well attended shows ever put on. And even our salesmen don't go back east to see shows. Like who wants to go back east? In January! Better to go to a show in San Francisco.

Make your factories understand that the West Coast market is not only of importance to you, but also to them. Enlightened self interest would lead them to realize that the investment will be minor compared to results. What engineer would want to specify your equipment once he becomes more familiar with another? What contractor wouldn't be impressed with the quality of your products when drawing unfavorable comparisons with only a piece of literature to look at.

There are a number of firms who have already signed up booth space, even though the show will not be officially announced until next January (1969). These guys are the "good" guys wearing the white hats. Is your firm missing! If it is, WOE to you.

To get on the right list, contact Tom Brewer (397-2336) or Larry Shea (433-4890) for reservation forms.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o JOHNSON SERVICE CO.
Attn: Tom Gilbertson
165 - 13th Street
San Francisco, California 94103
Phone: UN 1-6353

ACE – WEST
January 19-22, 1970
San Francisco

Tom Brewer reports the current status of exhibitors for the Western Air Conditioning Exposition. The companies who have reserved booth space are listed below. What are you doing to get your firm's exhibit in the show?

- | | |
|--------------------------------------|----------------------------|
| Bryan Boiler | Schaub Engineering Co. |
| Consolidated Kinetics Corp. | Paragon Electric |
| Encyclopedia Britannica | Buensod |
| Water Chemist | Wiremold Corp. |
| United Sheet Metal | ASTRA Plastic, Inc. |
| Thermal Conduits, Inc. | Shea Equipment |
| Slant/Fin | Fraser & Johnson |
| Burke & Company | Rite Boiler Co. |
| Flagler Corp. | Ceramic Cooling Tower Co. |
| Sprague Products | Pacific Pump |
| Industrial Steam | DeZurik Corp. |
| Roy E. Hanson Mfg. | U.S. Flexible Metal Tubing |
| Laars Engineering | Calgon Corporation |
| Titus Mfg. | Vulcan Rad. Co. |
| Penn. Vent. Co. | Young Reg. Co. |
| Flex. Tube Div./Automation Ind. Inc. | Joy Mfg. |
| Indiana Acoustics | Raypak Co. |
| Sealed Unit Parts Co., Inc. | Radiant Eng. |
| Lanphere Mfg. Co. | Hammond Valve |
| Griswold Controls | ITT |

- Keith Lescure
 Fred Vann
 K. Mirov
 Leo Dwyer
 Howard Dauphinee
 D. Levensaler
 Paul Slakey
 Roy L. Formby
 Wayner H. Womer
 Jack Boldt
 Bill McClellan
 Robert L. Warren
 Wanda Berry
 Earl Carrier
 Sheldon Doolittle
 Frank Labarta
 Karl Guttman
 Thos. E. Brewer
 Chuck Kopf
 Jim Williams
 Harold E. Deady
 K.B. Fitz
 H.H. Yahagi
 R.L. Herman
 Mike Bebedman
 Lyle Schuelke
 Jim Attard
 F.C. Leedomi, Jr.
 Tom White
 Andy Feiner
 Wayne Retner
 Bill Hancock
 Jim Breese
 Dave Hara
 Al Scavino
 Bob Tuck
 Walt Schneider
 G.F. Chesebro
 Jim Witham
 Fred A. Sorlera
 Al Lucas
 R. W. Noll
 Harley Driessen
 Ed Collins
 Jim Van Buskick
 R.C. Pribuss
 Dick Charles
 Chuck McLaughlin
 Lowell Young
 Wei Lin Hsia
 Bob DeChene
 Jim Curtin
 Ward Clark
 Max Wolff
 Ken Lloyd
 Gene Valerio
 Jim Dana
 Carl H. Jordan
 Lewis S. Pollock
 George N. Aronovsky
 Charles Hardeman
 Irving Algen
 Larry Shea
 Robert Voelz
 Dick Friedman
 Don Bryant
 Don Bradshaw
 Jack Spriott
 Clyde Wilson Reid
 Karl Baldwin
 Ray Plass
 Dick Porter

- N.S. Wright
 Vann Engineering
 Trane
 Ralston & Dwyer
 Jenkings Bros. Valve Co.
 P.G. & E.
 Lilliard Co.
 P.G. & E.
 Westinghouse
 American Air Filter
 Wm. Farmer Co.
 Tempco Equip. Co.
 Marelich Mfg. Co.
 None
 C.I.R. Co. Inc.
 Owens Corning
 Kasin & Guttman
 Calif. Hydronics Corp.
 Robert Shaw
 Industrial Steam
 Robers Eng. Co.
 Bechtel
 Bechtel
 Bechtel
 Industrial Steam
 L.O. Schulke Co.
 Calif. Hydronics Corp.
 Air Filter Sales
 American Standard
 Tempco Equip.
 Burke & Co.
 P.G. & E.
 C.A. Gillet Co.
 Tuttle & Bailey
 Jos. E. Murray & Assoc.
 Tuttle & Bailey
 Walter H. Schneider Co.
 Fraser & Schuster
 Fraser & Johnston
 General Electric
 Honeywell
 National Air Balance
 Keller & Gannon
 Safeway Stores
 A.O. Smith
 Pribuss Eng.
 Charles & Braun
 American Standard
 Valley Sheet Metal
 Bentley Eng.
 Law. Rad. Lab.
 Lockheed
 Marley Co.
 Dill & Sederberg
 Barber Colman
 Edw. B. Ward & Co.
 G.M. Cooke Co.
 G.L. Gendler
 Trane Co.
 Aronovsky & Assoc.
 C.S. Hardeman
 G.M. & T.R. Simonson
 Shea Equip. Co.
 Skidmore, Owings & Merrill
 Engineered Air
 City College of S.F.
 Owens Corning
 Ray Burner
 Clyde Equip.
 Ramsay & Assoc.
 Ray Oil Burner
 Powers Regulator Co.

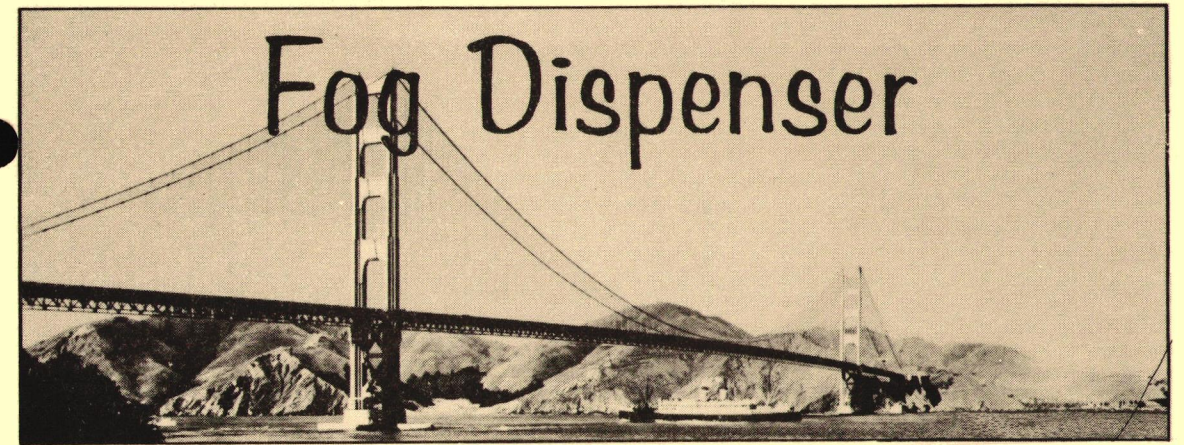
ASHRAE ATTENDANCE – January 9, 1969

GUESTS

- | | |
|------------------|--------------------------|
| Calvin Laws | Simpson Stratta & Assoc. |
| Tom Spahr | Safeway Stores |
| Henry Korb | Safeway Stores |
| George Maslach | U.C. GUEST SPEAKER |
| Sid Mackin | Western Air Cond. Expo. |
| Ellingsworth | Downey Co. |
| R.F. McGivern | Liebert Corp. |
| Mike Scofield | Hess Greiner – Polland |
| Daniel Lanchini | Fraser & Johnston |
| Jack Adam | Materials Survey |
| Arthur C. Blard | Flame Air |
| John A. Rhoad | College of San Mateo |
| Bob Roach | C.A. Gillet |
| Mike Cory | Vann Eng. |
| Ken Davies | Lillard Co. |
| John Fairfax | P.G. & E. |
| Jim Plakos | Hess, Greiner & Polland |
| Robert L. Warren | Tempco Equip. |
| Ron Miller | Owens Corning |

MEMBERS

- | | |
|---------------------|-------------------------|
| Ray Wolford | Materials Survey Assoc. |
| Gerry Roth | Acco Controls |
| Charles McGreiff | Charles & Braun |
| Paul Edison Puttman | Ampex |
| Pete Filios | Flame Air |
| R.N. Judd | Montgomery & Roberts |
| Bob Phillips | Low & Phillips |
| Gus Gendler | G.L. Gendler |



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII – No. 5

FEBRUARY 1969

PROGRAM COMMITTEE CHAIRMAN – DICK FRIEDMAN
FIELD TRIP TO THE LUCKY LAGER BREWERY – SAN FRANCISCO
FREE BEER AND PRETZELS – AS MUCH AS YOU CAN DRINK

The next Golden Gate Chapter meeting will be held Thursday, February 6, 1969 at the Lucky Lager Brewery, 2601 Newhall Street, San Francisco. Take the Silver Avenue exit from the Freeway – cross Old Bayshore on Egbert Avenue for about 2 blocks, then turn left onto Newhall.

Social hour will start at 5:30 p.m. There will be an abbreviated business meeting at approximately 7:00 p.m. Tours of the Brewery will then be conducted by Lucky Lager personnel. Visitors will have the opportunity to see ammonia refrigeration systems, marine boilers, interesting process piping and LOTS OF BEER.

Dinner will be less expensive than usual.

FEBRUARY WORKSHOP

Chairman: Gene DeWree

The February Workshop will be combined with the Social Hour. Although a somewhat small turnout is expected, those present will be discussing the "sociological" aspects of light and dark beer. All present are expected to participate to their full capacity.

HONOR ROLL

THE COLAN HEATING & SHEET METAL COMPANY, INC.

25 Patterson Street

San Francisco, California

Phone: 282-2616

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1350 - 15th Avenue, San Francisco, California 94122. LO 6-2740.

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1968 - 1969**

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George Aronovsky Secretary
Irving Alger Treasurer

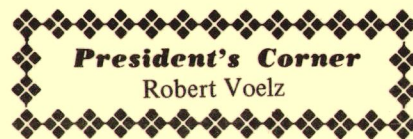
BOARD OF GOVERNORS

Charles Hardeman
Lou Pollock
Larry Shea

CORRECTION

Correct address for the Golden Gate Chapter of the American Society of Heating, Refrigeration and Air Conditioning Engineers is: 1350 - 15th Avenue, San Francisco. NOT: 1371 - 15th Avenue, San Francisco.

Please note this in mailing in your annual dues.



During the month of January, the 1969 Semi-Annual National ASHRAE Meeting was held back in Chicago concurrent with the 19th International Heating and Air Conditioning Exposition. For those of you who have never attended one of these meetings and large shows, I can only say that it is truly a shame that more of you can't attend. The national meetings and shows afford all those attending an opportunity to see how the Society functions, to attend very enlightening technical sessions and to see many of the new products which you will be specifying, selling or installing in the years to come. All this plus some good fellowship as well.

Fortunately, the Golden Gate Chapter had quite a large group in attendance back in Chicago. This year our need for such an attendance is even more important than usual in that our Chapter will be hosting the 1970 Semi-Annual Meeting of the Society here in San Francisco. Joe Murray, who will chair our Meeting Arrangements Committee, attended the Chicago Meeting to start laying the ground work for our meeting. I'm sure our Chapter can greatly benefit from the experience of the Chicago Chapter and also from the overall reaction of our other attendees. If any of those who did attend the Chicago Meeting would take the time to let either Joe or any of the Board Members know anything about the Chicago Meeting that you particularly liked or disliked, it could help to go a long way towards making our meeting the best one yet.

The month of February brings around National Engineers' Week from February 16 through the 22nd. The Bay Area Committee for Engineers' Week has numerous functions planned for that week that many of our engineering members may want to attend. Among these are the Engineers' Week Scholarship Banquet which will be held at the Sheraton-Palace Hotel Grand Ballroom on the evening of February 20 and an all day Symposium and Luncheon that will be held at the Sheraton-Palace on February 18th. The general theme for this year's week is "Engineering - Partner in Rebuilding Urban America." Tickets for either event can be arranged through Lew Pollock or myself and will cost \$9.00 for the Banquet and \$6.00 for the Symposium.

Our field trip this month to the Lucky Lager Brewery should prove of interest to all of our members including those with a thirst for knowledge and those others of you with just plain thirst. Our business meeting will be a short one to leave plenty of time for touring and sampling. I'll see you all in the sampling room.

MINUTES - JANUARY MEETING

The meeting, held at the Engineer's Club, was called to order by President Voelz at 7:50 p.m. Members and guests introduced themselves.

The minutes were approved as published in the Fog Dispenser.

Larry Shea, Tom Brewer and Sid Makin talked about plans for advertising the 1970 S.F. Semi-Annual ASHRAE meeting at the Chicago ASHRAE Convention. Tom Brewer (Past President Golden Gate Chapter) on behalf of the 1970 WESTERN AIR CONDITIONING EXPOSITION, donated to the Golden Gate Chapter a check in the amount of \$1000.00 to be applied to the Workshop Fund. The check was accepted by Roger Chesebro, Chairman of the Cal-Poly Workshop Fund.

President Voelz pointed out a lot of people will have to be involving themselves in some seventeen committees needed in order for the 1970 semi-annual ASHRAE (to be held in San Francisco in the month of January) Meeting to be a resounding success. Sign-up forms will be made available with the next Fog Dispenser.

President Voelz mentioned the Refrigeration Code group of the Chapter needs interested persons to review the SF Code on Heating and Air Conditioning. Interested persons will check with Voelz. Ed Collins and Charles Hardeman volunteered their services.

Voelz pointed to the coming Engineers Week scheduled for February 16-22. Members were asked to attend. Those going were asked to send their checks (\$9.00/person) to Voelz.

Al Scavino told the membership present the ROSTER will go to press by Friday, January 17 and delinquent members could still be included provided their checks were in by deadline.

President Voelz announced there would be (at NO fee) an Environmental Engineering Course (Civil Defense) for FALLOUT SHELTERS beginning in February. Interested persons should contact Voelz for application or enrollment forms.

Dick Porter reminded the membership to continue sending in the cards complete with STAMP. He also pointed out the steak dinner was excellent - we all concurred with the statement.

Eugene DeWree announced the Workshop had an excellent turn-out - 25 persons were present for the WHAT'S UP IN VOLTAGE session. Next month's workshop would be on AIR HANDLING EQUIPMENT - what standards are applicable, AMCA, ARI, AFI, UL?

Dick Friedman announced the next meeting would be a field trip to a San Francisco Brewery. Details will be announced in the next Fog Dispenser.

Dick Friedman introduced the speakers for the evening - Don Bryant, Prof., Mechanical Engineering, San Francisco City College; George Maslak, Prof., Aeronautical Engineering, Dean-College of Engineering, University of California at Berkeley.

Mr. Bryant in his talk discussed the ENGINEERING TEAM concept - it being the best method for utilizing man power - this concept, formed along the medical team, includes the scientist/researcher, engineer, technician and craftsman where each depends on the others for success. The education of this team is divided between the Universities, State Colleges, Jr. Colleges - broadly speaking. The Universities prepare the student for Engineering design, development, research, etc.; the State Colleges prepare for the Engineering function of production, construction, management, operation application; the Jr. Colleges curricula includes the preparation of students for transfer into the Colleges or Universities. The Jr. Colleges recognize the resultant gap

in the area of applied knowledge and the area of engineering science taught at the College and University level. Mr. Bryant indicated there are impending changes and trends in Engineering programs to meet the needs of industry of today. There will be a new degree, Bachelor of Technology. This degree will be introduced by leading technical institutes and colleges. There is also a trend in high schools to prepare students for engineering technology. Mr. Bryant also pointed out that CCSF only recently established a work experience program with industry - the school program is tailored to fit the needs of the employer.

Mr. George Maslak talked about the changing needs of the society, the changing demands of the profession and the changing supply of engineers. The needs of the space and defense vs urban and environmental needs was touched upon. The role of government initiative, private initiative affects the needs, demands and supply of the profession and engineers. Mr. Maslak pointed out we are becoming a service society and this has demands on the profession and supply of technicians. On manpower needs, reference was made to the Lecht study and the Folger report (2nd Human Rights Commission). On the supply of engineers, BLS survey indicates a need for 69,000 NEW engineers/vs a supply of 38,000 BS degree engineers/yr! At the hiring level, the available 38,000 degreed engineers are available approximately as follows: 20,000 with BS, 15,000 with MS and 3000 with Ph.D degrees. Mr. Maslak pointed out the trend in California - degrees granted - between the 1956 year and 1967 show a 2.4 increase in BS degrees, a 7.1 increase in MS degrees and a 8.8 increase in Ph.D degrees. For the same statistical period, the available hires show an increase in 1967 over 1956 of 1.75 for the BS, 8.0 for the MS & 8.8 for the Ph.D - very interesting statistics. On today's education at the University - there is a true 4 year engineering program, there is an emphasis on master's degree now, there is more interaction with other professional schools and very soon, more emphasis on problems of society.

A lively question and answer period followed the talks. The meeting adjourned at 10:35 p.m.

George N. Aronovsky, Secretary

EDITORIAL DIFFUSION

(Reprinted from the "Oregon Diffuser", Volume XXIII No. 6, January 1969 ASHRAE-Oregon Chapter).

As the Christmas season leaves us and it is time to put away the holiday decorations, I always take one last look at each of the Christmas cards received before placing them in the desk drawer or the trash barrel. The variety seems endless; all sizes, types and shapes. I think some cards reflect the true feeling of the sender while others were only selected and sent to satisfy an old tradition.

Out of the forty some cards reviewed this year, only two were subjects of Christmas, the anniversary of Christ's birth. The remainder involved colorful, sometimes ornate holiday greetings including caricatures of Santa and Reindeer. Commercialism was obvious in many from Santa driving a truck with the sender's company name printed on its side, to my favorite stomach-turner, old St. Nick riding around on a flying pipe wrench. I fully expect Santa's transportation next year to be a length of glass duct or an expansion valve pulled by eight tiny freon bottles (disposable, of course).

Let's throw out the "X" and put Christ back in Christmas.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
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165 - 13th Street
San Francisco, California 94103
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ANNOUNCING

THE SOCIAL EVENT OF THE SEASON

GOLDEN GATE CHAPTER'S



Spring Soirée

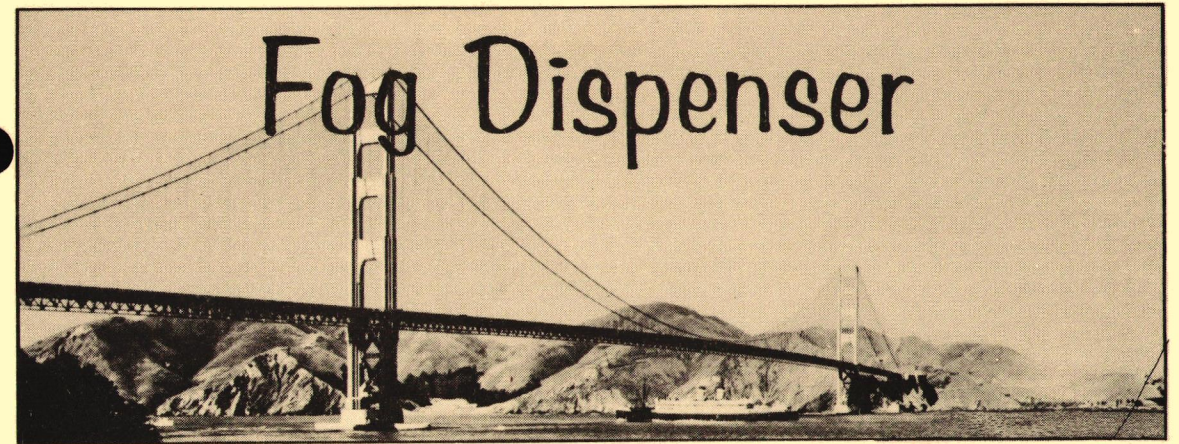
May 17, 1969

SEMI-FORMAL DINNER DANCE

Churchill Room
Hotel Claremont
Berkeley

Gordon Heche's
Eight Piece
Hotel Orchestra

COCKTAILS — DINNER — DANCING — COCKTAILS



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII — No. 6

MARCH 1969

MARK YOUR SOCIAL CALENDAR

For a repeat performance of last year's
notably successful Dinner Dance

SPRING SOIREE — MAY 17, 1969

See the last page of this issue for more details

PROGRAM COMMITTEE CHAIRMAN — DICK FRIEDMAN

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, Corner of Sansome and Pine Streets, San Francisco on Thursday night, March 6, 1969. Social hour will be at 5:30 PM and dinner at 6:45 PM.

SUBJECT: CONSTRUCTION FORECASTS — HOW RELIABLE ARE THEY?

The speaker will be Mr. Don C. Farris, District Manager for Construction Methods and Equipment, a McGraw-Hill Publication. McGraw-Hill has been a leader in the development of economic forecasts and indicators. F. W. Dodge, the Daily Pacific Builder and Standard and Poors, all divisions of McGraw-Hill are well known to most people in construction and finance for their authoritative information. Mr. Farris' talk and the question and answer period which follows should be most interesting and useful to all of us in the industry.

MARCH WORKSHOP

Chairman: Gene DeWree

The March Workshop will be chaired by Clayton (Pat) Lang of Joy Manufacturing. A discussion of AMCA Ratings, and the advantages and disadvantages of axial and centrifugal fans will ensue. The Workshop will begin at 5:30 P.M. at the Engineers' Club in a room adjoining the Meeting Room.

HONOR ROLL

THE DOUGLASS INSULATION COMPANY, INC.

1360 Yosemite Avenue

San Francisco, California

Phone: 822-6141

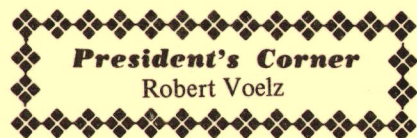
Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1350 - 15th Avenue, San Francisco, California 94122. LO 6-2740.

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1968 - 1969**

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Richard Friedman Vice President
George Aronovsky Secretary
Irving Alger Treasurer

BOARD OF GOVERNORS

Charles Hardeman
Lou Pollock
Larry Shea



The past month has been a very busy one for many of our members with their behind the scenes planning and general committee activity for many of the events in which we all will undoubtedly be participating in the months to come.

Joe Murray, the General Chairman of our 1970 Semi-Annual ASHRAE Meeting Committee, returned from Chicago with many ideas regarding what we should or shouldn't be doing to make our next year's National ASHRAE meeting not only better than the Chicago meeting but actually the best Semi-Annual Meeting that ASHRAE has ever held. This may seem like a rather ambitious undertaking, but why not? We know we have one of the biggest and best ASHRAE Chapters in the County and now we have a good chance to show the others. Accomplishing this rather high goal will not be easy and it will not be done without a lot of hard work from all of our membership. It need not be a back breaking chore for anyone though if all of our members do their fair share of the work involved. Don't just sit back and rationalize that you're too busy to help because we all are busy. The obligation is yours and not somebody else's.

Joe will be circulating volunteer slips through the mail in the near future for committee assignments. Be sure to get yours filled in and returned as quickly as possible.

Our ASHRAE Code Committee has also been wrestling with the new City of San Francisco Refrigeration and Air Conditioning Code during the past two months and what is being proposed came as quite a shock to most of the Committee. The original draft contained some very stringent equipment access requirements, testing and labeling requirements, virtual elimination of the use of wood cooling towers on the roofs of buildings and many other lesser items which are in direct conflict to design and installation practices that have been successfully used for many years in this area. Fortunately, the City of San Francisco has seen fit to include many of our Committee's suggested modifications and the San Francisco Code should become a very workable code when it is completed. The disturbing thing that the Code Committee also noted, however, is that the original San Francisco Code Draft is virtually a copy of portions of the 1967 UBC Mechanical Code, the 1968 City of Los Angeles Code and the new State of California Code. All of these other codes are already in effect in many areas and will have a direct bearing on many of the projects currently being designed and built in this State. The Committee suggests that if you are currently doing a project covered by any of the above mentioned Codes, be sure to read them thoroughly and check with the Officials involved to be sure just how strict their interpretations of the Codes will be. If they insist that all parts of these new Codes be met to the letter, you may find yourself in real trouble.

Gene Valeiro and Ed Leedom are planning our Annual Dance and all present indications are that we'll be going back to the Claremont Hotel once again on May 17th. Mark that date on your calendar and be sure to attend.

The City of San Francisco will have an opening in the Bureau of Building Inspection Department for a Senior Mechanical Engineer. Contact Alfred Goldberg's secretary for details which will include a civil service exam.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o JOHNSON SERVICE CO.
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165 - 13th Street
San Francisco, California 94103
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Dick Charles and his Seminar Group have finalized this year's topic which will deal with all phases of automatic temperature controls. The nightly meetings should be starting in April and I'm sure that this year's subject should be of interest to the majority of our membership plus many outsiders. Be sure to get signed up early as this year's enrollment may have to be limited due to the way this year's program will be presented. Dick will have many more details on this subject for you in the near future.

NOMINATING COMMITTEE MEETS

The nominating committee, chaired by Larry Shea, met on Thursday evening, February 6, 1969, and after deliberation, chose the following slate as our recommendations for officers for the forthcoming year, 1969-1970.

Past President Robert G. Voelz
President Richard Friedman
Vice President George Aronovsky
Secretary Irving Alger
Treasurer Charles Hardeman
Senior Board Member Lewis Pollack
Junior Board Member Richard A. Charles

Further nominations will be asked for at our next meeting scheduled for March 6th. Thereafter nominations will be closed and ballots issued for election of officers.

MINUTES

The meeting, held at the premises of the Lucky Lager Brewery in San Francisco, was an informal one taking place approximately at 8 p.m. after the tour of the plant facilities.

The minutes were approved as published in the Fog Dispenser. A nominating committee was selected - the committee included: Larry Shea, Arel Berrier, Jack Palmer, Tom Gilbertson and Frank Olson.

President Voelz announced the next Board of Governors meeting would take place on Tuesday, February 11th instead of the usual Monday, February 10th.

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

The tour consisted of visiting the marine boiler installation, the ammonia refrigeration installation and the various beer processing areas with their interesting equipment. Free beer was served to all. Everyone had a very good time.

"THAT WAS A FINE JOB"

"Beauty is in the eye of the beholder" - someone once wrote. We could probably apply this same thought to our field, that of air conditioning and refrigeration.

What made a job - a good job - for one individual probably wasn't what impressed someone else on the same project. Our interviewer sallied forth to contact an architect, mechanical engineer, mechanical contractor, equipment supplier, and owner, to determine what made a particular project a good job for them. The question asked was always the same, "Sir, what made this job a fine job for you?" The responses were as follows:

Architect (smiling):
"First of all, the building won the award and the mechanical ran only 3.1% of the general contract."

Mechanical Engineer (with quizzical look):
"The architect never made a single design change." (His voice trailing off in disbelief)

Mechanical Contractor (displaying angelic features):
"Well, I did enjoy the change orders and the fact that the job didn't require submittals or inspection or have a punch list, didn't exactly discourage me."

Equipment Supplier (wearing bright plaid green suit):
"Funny thing, the drawings said typical for 3 chillers, and I quoted 3, and the contractor paid me when he placed the order, and I did a little further checking and I only had to furnish one (1)."

Owner (gloating):
"I got heating, ventilating, air conditioning, humidity control, 100% stand-by on all equipment, and 15 air changes an hour, for \$1.19 a square foot."

Obviously they were all talking about the same job.

MONTHLY THOUGHT

"Assumption is the mother of screw-up"

- ★ TICKETS ARE BEING MAILED TO EACH MEMBER THIS MONTH
- ★ YOUR EARLY REPLY WILL BE MOST HELPFUL
- ★ EVERYBODY COME TO

GOLDEN GATE CHAPTER'S



Spring Soirée

May 17, 1969

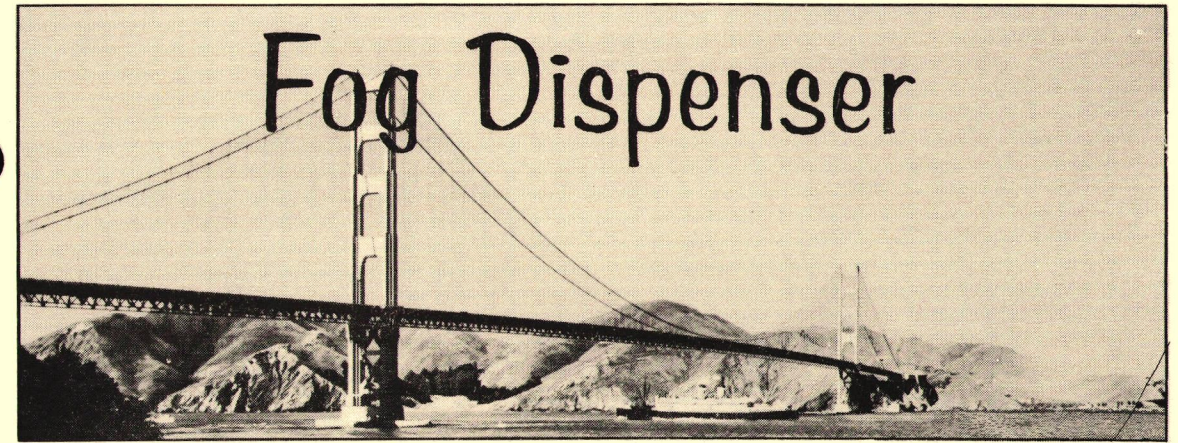
SEMI-FORMAL DINNER-DANCE

*Twenty-four Dollars
Per Couple*

*Churchill Room
Hotel Claremont
Berkeley*

*Gordon Heche's
Eight Piece
Hotel Orchestra*

COCKTAILS — DINNER — DANCING — COCKTAILS



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII — No. 7

APRIL 1969

MAKE IT A DATE — SPRING SOIREE — MAY 17, 1969

See the last page of this issue for more details

PROGRAM COMMITTEE CHAIRMAN — DICK FRIEDMAN

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, corner of Sansome and Pine Streets, San Francisco on Thursday night, April 3, 1969. Social hour will be at 5:30 PM and dinner at 6:45 PM.

SUBJECT: SOUND AND VIBRATION

The key to satisfactory mechanical equipment isolation lies in the proper use of specifications. At this phase of the construction the engineer and architect may specify types of equipment, isolators, floating floors and ceiling constructions which will go far towards assuring that the noise and vibration levels in areas adjacent to mechanical equipment will be well within accepted levels.

The subject should be of great interest to architects as well as mechanical engineers. We urge each of you to invite an architect to join us for the evening.

The speaker will be Mr. Laurence L. Eberhart, President of Consolidated Kinetics Corporation. He originally formed Kinetics in 1958 for Consulting Engineering in the field of vibration and acoustics. In the process of developing special types of vibration isolators for operation in extreme environmental conditions the nature of the company's operation was phased from consulting to the manufacturing of vibration shock and noise isolation products for heating, ventilating and air-conditioning equipment. Mr. Eberhart was formerly vice-president of Marketing at International Research and Development Corporation and he is a graduate of Penn State University.

APRIL WORKSHOP Chairman: Gene DeWree

The April Workshop topic is "Package versus Central Air Conditioning." This is your opportunity to become more familiar with the present trends.

The topic will be chaired by Robert W. Castner, District Manager of York Recold. Discussion will center on the advantages and disadvantages of each system.

Workshop will start at 5:30 PM at the Engineer's Club in the room adjoining the dining room.

APRIL ANGEL

THE CARRIER AIR CONDITION COMPANY
Division of Carrier Corporation

695 South Van Ness Avenue

San Francisco, California 94110

Phone: 626-0550

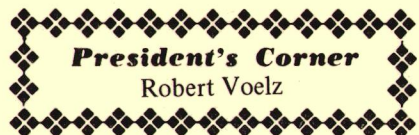
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**OFFICERS AND BOARD OF GOVERNORS
1968 - 1969**

Robert Voelz President
Richard Friedman Vice President
George Aronovsky Secretary
Irving Alger Treasurer

BOARD OF GOVERNORS

Charles Hardeman
Lew Pollock
Larry Shea



The annual Chapters Regional Conference for our Region X will be held at the Del Webb Townhouse in Fresno on April 10-12. All Region X Chapters will have at least a delegate and an alternate in attendance and this year our Chapter will be represented at the meeting by Dick Friedman and George Aronovsky.

In addition to the meeting of the Chapters' Delegates and Alternates, four topics will be presented at technical sessions on Friday, April 11. These topics will include talks by Frank Gall, Director of Technical Promotion for ITT Bell and Gasset, on "HEAT EXCHANGER FAILURES - CAUSES AND REMEDIES"; by Lew Charde, Western Regional Engineer for York Corporation, on "REFRIGERATION IN LOW TEMPERATURE APPLICATIONS"; by Jeff Gallagher, Lieutenant from Castle Air Force Base, on "AIR CONDITIONING OF THE B-52 BOMBER"; and Mr. Val Burke, our Region X Director, on "TRAINING FOR CHAPTER OFFICERS."

The social functions at the meeting will include golf on April 9 prior to the meeting, a Ladies' Luncheon on April 10, a dinner with an Arabian Nights Theme on April 10, the President's Luncheon on April 11, and a swinging, Western Style Dinner-Dance up in the mountains on April 11.

All in all, it sounds as though the Fresno Chapter has planned what should prove to be an excellent CRC Meeting. If you can arrange your business to be in the Fresno Area around that time, I would highly recommend that you try to schedule your time to include some of the events of the meeting as I'm sure that they will prove to be both educational and enjoyable. For those wishing more details, contact Dick Friedman, George Aronovsky or myself by phone or at our April 3 Chapter Meeting.

Your Chapter Incorporation and By-Laws Revision Committee has worked long and hard to get our Article of Incorporation and By-Laws in shape to present to the Chapter. Copies of the proposed By-Laws are being sent to all Chapter members for their review and the revisions will be thoroughly discussed and voted upon at our April 3 meeting. Be sure to take the time to review your copy before the meeting and come prepared to discuss them. Hopefully, if all goes well, we can still get our By-Laws revised and our Chapter incorporation completed during this fiscal year.

MINUTES

The meeting was called to order by President Voelz at 7:50 PM at the Engineer's Club. Members and guests introduced themselves. Jim Dana introduced students and student members.

The minutes of the February 6 meeting were approved as published in the Fog Dispenser.

Val Burke, Regional Director, was introduced. Val spoke on the coming Chapters' Regional Conference (Region X) to be held April 9 through 12 in Fresno, California, as well as on the semi-annual 1970 ASHRAE meeting to be held in San Francisco.

Al Scavino, Roster Chairman, announced the Roster would be received very shortly.

President Voelz indicated San Francisco would be adopting the new AC and Refrigeration Code and volunteers were needed to review the draft copies. He also pointed out San Francisco was looking for a Mechanical Engineer to enforce the new code.

Larry Shea, on behalf of the Nominating Committee, gave a report on the new slate of Chapter Officers for 1969-70. The recommended slate included: Richard Friedman, President; George N. Aronovsky, Vice President; Irving Alger, Secretary; Charles Hardeman, Treasurer; Lewis Pollock, Richard Charles and Bob Voelz as Board Members. President Voelz called for additional nominations and since there were none it was moved and seconded and approved the nominations be closed. Ballots will be submitted to the Membership. Tom Brewer, Jack Palmer and R. Castner were appointed by President Voelz to count the ballots and report the results to the Chapter at the next meeting.

Richard Charles reported on the Seminar. The seminars would take place on Tuesdays, beginning April 22 from 6:30 to 9:30 PM. There will be five meetings and possibly a sixth (field trip) if there was interest for same. The subject would be "Controls". Announcements and registration cards will be in the mail very shortly.

Gene Valerio reported on the June "Frolic". The social event will take place on May 1. The location - the Churchill Room with an 8-piece band available. Tickets will be sent shortly.

Tom White reported on the Chicago meeting. He mentioned in addition the coming Denver Semi-Annual ASHRAE meeting which will commemorate the Society's 75th Anniversary. He suggested we attend this meeting and solicit Denver's aid for our 1970 meeting.

Jack Kniveton reminded the membership of the need for everyone's participation in the coming 1970 San Francisco meeting.

Dick Friedman announced next month's speaker will be Lawrence Eberhart who will talk on "Sound and Vibrations".

Rudy Pribuss introduced Mr. Don C. Farris, the speaker for the evening. Mr. Farris's subject was "Construction Forecasts - How Accurate Are They?"

Mr. Farris pointed out forecasting dated back several thousand years. Correlation of the vast amounts of information has been boosted by the advent of the computer. It was pointed out that it was most important to correctly sift the vast amount of data to related to the problem at hand. The impact of changing times, politics, war and the state of the economy must be considered in proper long range forecasting. Slides were commented on. The Western States is slated for a rapid but steady growth in the coming years. It was pointed out that in 50 years from now, the West Coast will be one big city from San Francisco to the Mexican border.

A question and answer period followed the presentation.

The meeting was adjourned at 9:25 PM.

George N. Aronovsky, Secretary

GUESTS

K. O. Alexander	York Div. Borg Warner
Dan C. Tanis	McGraw Hill
R. E. Morehead	Lillard Co.
Art Thys	Lillard Co.
W. R. Hickey	Electro Air
S.S. Baltagli	Carrier Air
Steven Radd	Washington High School
Blake O. Deauer	Galileo High School
Hal Steinburg	Galileo High School
Dan Baker	Galileo High School
C. W. Jordan	G. L. Gendler
Ed Dill	Dill & Sederberg
Gerrard Lee	S.F. High School
Gordon Choi	Washington
G. M. White	Geo. Washington High School
Penn DeRouche	ACE-West
Sid Machini	ACE-West
Phil Freeman	ACE-West

NEW MEMBERS

CUT OUT AND PUT IN ROSTER

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(Company) G. L. Gendler
Home Address:
279 Tharp Drive
Moraga, California
Phone: 376-7579

CLYDE E. WOLTERS
Home Address:
3970 - 19th Street
San Francisco, California
Phone: 621-1616

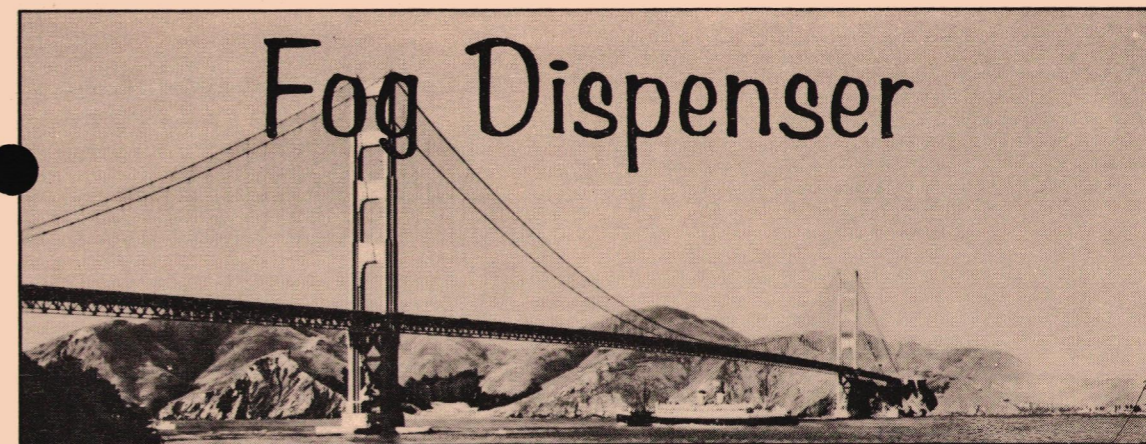
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Attn: Tom Gilbertson
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San Francisco, California 94103
Phone: UN 1-6353

ASHRAE ATTENDANCE — April 3, 1969

MEMBERS

Frank Olsen	Frank Olsen Co.	Robert Voelz	Skidmore Owings & Me
Don McCloud	Simpson Stratta & Assoc.	George N. Aronovsky	Aronovsky & Assoc.
Jack A. Palmer	California Hydronics Corp.	Irving Alger	G.M. Simonson & TR Simonson
Thomas H. Conroy	Clyde Equipment Co.	L.E. Shea	Shea Equipment Co.
Roger T. Lefler	Gayner Engineers	Tom Gilbertson	L & H AIR-CO
Donald Williams	Donald Williams	Bruce Meyer	Brobeck & Assoc.
Medford Schwarz	Southern Pacific Co.	Edmund Popp	Triangle Designs
Gene Valerio	Edward B. Ward & Co.	Harley Driessen	O'Kelly & Schoenlank
Pancho Labarta	Owens Corning Fiberglas	Jim Myers	Amber/Booth Co.
Bob Swezey	Burke & Company	Mike Reichlin	Pacific Pumping Co.
Bob Wistort	Mickey Mouse Engineering	Gus Gendler	G.L. Gendler & Assoc.
Ed Collins	Safeway Stores, Inc.	Dick Charles	Charles & Braun
Clyde Wilson-Reid	Clyde Equipment Co.	Art Ciapponi	Pacific Pumping Co.
R.F. Giovannini	Thermal Mechanical	Fred Vann	Vann Engineering
R.F. MacDonald	R.F. MacDonald Co.	Jack Kniveton	Norman S. Wright & Co.
Bob Phillips	Low & Phillips	Mike Cory	Vann Engineering
Bob Tuck	Tuttle & Bailey	Bob Lincoln	Vann Engineering
Jim Breese	C.A. Gillet Co.	Bob Anderson	Pameco Aire
Jose Murray	Jos. E. Murray & Assoc.	Robert L. Warren	Tempco Equipment
Gerald Yaffee	Tempco	Dieter Meissner	Cal-Air Conditioning
Mike Grimes	N.S. Wright Co.		
Paul Slakey	Lillard Co.		
Ken Lloyd	Barber Coleman		
Ralph Williams	Lillard Co.		
Jack Boldt	AHK		
Tom E. Brewer	California Hydronics Corp.		
F. Lockwood	Oakland School Dist.		
Frank Gordon	Bentley Engineers		
G.C. Lang	Joy Mfg. Co.		
Keith Lescure	N.S. Wright		
Pete Knezevich	Combustion Utilities		
Pat Deis	Custom Htg. & Air Cond., Inc.		
Bill Hancock	PG & E		
Gene DeWree	Associated Process Controls		
Dick Emerson	Robt. B. Holland Co.		
John E. Werner	The Trane Co.		
Carl H. Jordan	G.L. Gendler		
Peter Johnson	G.L. Gendler		
Katherine B. Fitz	Bechtel Co.		
H.H. Yahagi	Bechtel Co.		
Phil Beggs	Paul W. Beggs & Son		
Clyde E. Wolters	San F. C.		
Ed C. Leedom	Air Filter Sales		
Karl Baldwin	Kasin & Guttman		
R.W. Castner	York Div. Borg Warner		
D.H. Fujioica	Rogers Eng. Co.		
Wei Linhsia	Bentley Engineers		
Merrill Linsley	Charles & Braun		
Karl F. Tulp	Edw. B. Ward & Co.		
Jim Lazor	Edw. B. Ward & Co.		
Al Scavino	Engineer Air System Co.		
Harold E. Deady	Rogers Eng. Co. Inc.		
Ross M. Sherrill	E. B. Ward & Co.		
Don Bradshaw	Fiberglas Sales Div.		
F.M. Palacios	P.O. Dept. Eng. Branch		
J.C. Parsons	Pacific Telephone Co.		
Lewis S. Pollock	Trane Co.		
Andy Feiner	Tempco Equip. Co.		
Dick Friedman	Engineered Air		



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII — NO. 8

MAY 1969

PROGRAM COMMITTEE CHAIRMAN — DICK FRIEDMAN

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, corner of Sansome and Pine Streets, San Francisco on Thursday night, June 5, 1969. Social hour will be at 5:30 PM and dinner at 6:45 PM.

PANEL DISCUSSION

Subject: "Confessions Of Three Honest Consulting Engineers, Or Don't Do As I Do, Do As I Say".

Our panel members will be Hi Eagleson, of Eagleson Engineers, Inc., Karl Guttman of Kasin, Guttman & Associates and Tom Simonson of G.M. Simonson and T.R. Simonson (alphabetically listed). This should be a great meeting. Three highly qualified consulting engineers, secure in the knowledge that they do more things right than wrong have agreed to lead a constructive discussion on how to avoid problems based on their own experiences.

LET'S ALL TURN OUT AND MAKE THIS LAST MEETING BEFORE OUR SUMMER RECESS A RECORD BREAKER.

JUNE WORKSHOP

Chairman: Gene DeWree

The topic is "Deaerators for Hot Water and Steam Systems." This is your opportunity to discover the whys and wherefores of deaerator application, construction, and engineering principles.

Discussion will be chaired by John Kraft of R.F. MacDonald Company. Panel guest will be Dan W. Loughlin, Central Engineering Manager with L.A. Water Conditioning.

The session starts promptly at 5:45 PM upstairs next to the main dining room. Come early as 25 members attended in March and seating is limited.

HONOR ROLL

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Phone: 871-8100

700 Dubuque Avenue

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1350 - 15th Avenue, San Francisco, California 94122. LO 6-2740.

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NOMINATING COMMITTEE MEETS

The Golden Gate ASHRAE Chapter's nominating committee met and nominated two (2) individuals to fulfill the requirements for expanding the Board of Governors by two (2) more members. These gentlemen are: Mr. Carl Jordan and Mr. Jack Palmer. Both gentlemen have indicated a willingness to serve in this capacity. Additional nominations will be allowed when this matter is opened to the floor for a seconds at our next meeting.

San Jose - Golden Gate ASHRAE Picnic

Mark **August 23, 1969**, on your calendar as the date of the first picnic between the Golden Gate and San Jose Chapters of ASHRAE.

The event will be held at Searsville Lake and the cost per family (regardless of size) will be \$15. This amount will include admission, a complete fried chicken dinner, beer and soda pop, swimming in Searsville Lake, a five-piece high school rock and roll band, and sports events for the kids of all ages.

San Jose has challenged our Chapter to a softball game and at last report, they are already in training for the event. All together, the picnic should prove to be one of the highlights of your summer's activities. Additional information will be sent later this summer, but be sure to mark the date on your calendar at this time.

MAIL OR PHONE NEWS TO:

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San Francisco, California 94105
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Time sure does fly by. It seems like only last week that I was writing my first President's Corner and now this will be my last. The year that passed in between has been one of the most active and enjoyable ones which I can remember. I heartily recommend the active participation in Chapter activities to each of you since the time you spend will not only benefit the Chapter but also yourself. Where else can you find such a deal?

Your Board of Governors and Committees have done an outstanding job this year in keeping our many Chapter activities moving. They all deserve both your and my sincere thanks for the work they have done.

Joe Murray has already made great strides in preparing for the 1970 Semi-Annual ASHRAE meeting here in San Francisco and work on the WACIA Show to be held concurrent with the meeting is also moving along as well. We can't afford to sit back and rest on our laurels though, as there is still a lot of hard work needed on both of these projects to assure their success. Joe still has many committee positions that are still open so if you haven't returned your volunteer questionnaire to him as yet, do so immediately. You all have an obligation to do your fair share of the work that will be required. Don't force other people to carry your load too. If by chance you can't find your questionnaire, just call Joe at 434-0787, and I'm sure that he will be only too happy to sign you up by phone.

Be sure to keep August 23, 1969 open on your calendar for the first joint picnic between San Jose and our Chapter. They have challenged us GOOD GUYS to a softball game which should prove to be a lot of fun for all. Rumor has it that there may even be a beer stop for all the sluggers who make it around to third base. It could lead to a nothing to nothing game, but I'm sure it will be fun for all concerned.

Thanks once again to all those who worked so hard this past year to make our Chapter function and good luck to Dick Friedman and Joe Murray in their undertakings for the next year.

MINUTES

The meeting was called to order by President Voelz at 8:00 p.m. at the Engineer's Club. Members and guests introduced themselves.

The minutes of the March 6 meeting were approved as published in the Fog Dispenser.

President Voelz called to both the CRC (Fresno) and Denver (75th anniversary semi-annual ASHRAE meeting) and urged all who could to attend them.

Jack Palmer, on behalf of the Tellers Committee (Palmer, Brewer, Gilbertson and Ed Collins), reported on the tabulated results of the voting for the 1969-70 Officers as follows:

President, **Richard Friedman**
Vice President, **George N. Aronovsky**
Secretary, **Irving Alger**
Treasurer, **C. S. Hardeman**
Board of Governors, **Lew Pollock, Richard Charles and Past President Voelz**

Richard Charles, on the "Controls" Seminar, reported there were 125 persons that have signed up.

Gene Valerio, on the May 17 Social "Soiree" reported all tickets would be mailed within three weeks at \$24/couple.

Al Scavino reported the Roster had been mailed out and that extra copies were available.

Joe Murray discussed the need for 175 volunteers required for the 1970 San Francisco semi-annual meeting. Names of people allied to our activities were needed for expanding the mailing list and people to draw volunteers from.

The revised Chapter By-Laws were discussed, voted on and passed.

President Voelz requested the Nominating Committee to reconvene to recommend two names for election to the Board of Governors for a term of 2 years only. The names were to be included in the May issue of the Fog Dispenser to permit the members to vote on them at the June regular meeting.

Gene DeWree, on the Workshop "Package vs Central AC" reported there were 25 persons who attended the meeting. "Deaerating for Steam and HW Systems" will be the topic for the June workshop.

Richard Friedman, on the June program, announced the meeting will be a panel type with Tom Simonson, H. Eagleson and Karl Guttman - the topic "Confessions of Three Honest Engineers". The discussion will point out what to avoid in system design.

The speaker for the evening was Larry Eberhart who was introduced by Larry Feiner. The remarks were on noise control of equipment in buildings. It was pointed out the biggest single source of noise and vibration is from out of balance equipment. It was also pointed out isolators should be selected on deflection capability such as to, in addition, overcome the floor deflection on which the equipment is mounted. It was pointed out present day new structures tend to have less provisions for noise barriers with noise sources on the increase due to higher speeds and velocities. Use and need of inertia bases, vertical pipe isolation (to isolate water transmittal pump impeller pulses), floating floors and ceilings to assure noise and vibration control in spaces adjacent to the mechanical room, the supporting of ductwork on isolation hangers to eliminate rumble noises from equipment rooms (high pressure systems) were covered by the speaker. The subject was excellently presented and very well received by all present. There followed a question and answer period. The meeting was adjourned at 9:45 p.m.

George N. Aronovsky, Secretary

Bring Your Roster Up To Date

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