

Bob made some constructive comments on things which he had learned from working on the Alcoa Building. SOM no longer insulates interior supply duct except for acoustic purposes. Induction units and special enclosures may not provide the capacity shown in the manufacturer's data. Always try to get the piping and duct for the induction units on the exterior rather than supply from the core. It will save a considerable amount of money. Last, always provide cleanouts at the bottom of downfeed risers. At the completion of the construction they were filled with rubbish.

The members then broke up into six groups each with a guide to inspect the ground floor fan room, the 14th floor unoccupied space, the 18th floor occupied area, the upper level fan area, the upper level chiller area and the upper level boiler area.

RESEARCH FUND CHECK PRESENTED

At the 1968 ASHRAE Annual Meeting at Lake Placid, June 24 to 26, the Golden Gate Chapter presented the Research Fund with a check for \$3,000.00. Presentation was made by Mr. Karl Guttman during the banquet. The previous day, Mr. Dan Wile of the Southern California Chapter had presented the Research Fund on behalf of his Chapter a check for \$1,000.00. During the presentation Mr. Guttman addressed the audience as follows:

"Like the ancient country of Gaul the State of California is divided into two parts. The northern portion of the State is generally known as Northern California, the southern portion is usually referred to as Disneyland. In Disneyland there is a very large city, one of the largest in the country, which is called Los Angeles. Los Angeles is the seat of the Disneyland Chapter of ASHRAE and yesterday you heard Mr. Dan Wile of that Chapter present the Research Fund with a check for \$1,000. In Northern California, on the other hand, there is a small village called San Francisco, not much larger than Lake Placid. San Francisco is the seat of the Golden Gate Chapter of ASHRAE and on behalf of this Chapter it gives me much pleasure to present you with a check for the Research Fund in the amount of \$3,000.00."

INCORPORATION NEWS

The Board of Governors have been meeting during the summer and among other subjects of vital importance have approved the final draft of the Articles of Incorporation and Revised By-Laws for Golden Gate Chapter.

The firm of Bishop, Murray and Barry, have been working with us for some time, and after many meetings with them and meetings of some officers, regarding sentence structure, clauses, commas, periods, etc., etc. the final version was worked out. The chapter By-Laws become a part of the Articles of Incorporation, and the changes to them have been minor, provision for expansion of the Board of Governors, changes in dates, etc.

The Incorporation papers and By-Laws have been sent to National for review, and after their approval will be presented to our membership for adoption.

1970 WINTER SHOW

Chapter members are urged to keep in mind the 1970 WACIA industry show and the ASHRAE meeting in January of 1970. When Tom Brewer and others suggested such an event back in the late 1950's, I presume most of us looked on this as some "pipe-dream" in the far distant future. Now, this time is only a year or so away. Incidentally, what did happen to those "soaring sixties"?

The firm of Phillip R. Freeman and Assoc. has been selected to manage the industry displays and they are now contacting firms in the heating, air conditioning, and refrigeration industry. I.T. and T. have already taken a large block of space.

Space in the Polk and Larkin Hall will be \$3.50 per sq. ft. and the Civic Auditorium proper \$4.00 per sq. ft. and Brooks Hall \$4.50 per sq. ft. Those factory or manufacturer's representatives who have any influence or pull with their home offices are urged to use same in persuading them to display here in January of 1970.

Volunteers are needed to help in all phases of the ASHRAE meeting concurrent with the show — publicity, program, entertainment of the ladies, etc., etc. If you want to help, contact Dick Friedman, Bob Voelz or any of the officers.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII — No. 1

OCTOBER 1968

PROGRAM CHAIRMAN: RICHARD FRIEDMAN

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, corner of Sansome & Pine Streets, San Francisco, on Thursday, October 3, 1968. Social hour will be at 5:30 P.M. and dinner at 6:45 P.M.

SUBJECT: HIGH AND LOW VELOCITY MIXING BOXES AND VARIABLE AND CONSTANT VOLUME REHEAT BOXES

Our Speaker will be Dave Rickelton, Vice President of the Buensod Division, Aronca, Inc. Mr. Rickelton is well qualified to talk on this subject. He has been with the Buensod-Stacey Corporation for 28 years. He is presently a National ASHRAE Director at Large and has served as Director and Regional Chairman of Region 4. He is the past-president of his local ASHRAE Chapter and a member of the National Technical Committee. He is the author of many published articles and has lectured on this subject to ASHRAE Societies throughout the country. His talk should prove interesting and enlightening to all of us.

HONOR ROLL

WILLIAM A. BARRON COMPANY

420 Market Street

San Francisco, California

Phone: 392-4782

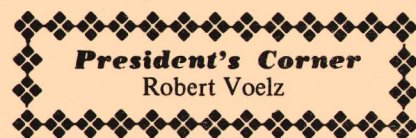
Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371 - 15th Avenue, San Francisco, California 94122. LO 6-2740.

**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
Lou Pollock
Larry Shea



On behalf of the officers and Board of Governors, I would like to extend a warm welcome to all of our members for the coming year. A very active and productive year has been planned for our Chapter and all members are urged to participate.

Dick Friedman and his Program Committee have already selected the majority of topics for this year's programs and are busy making final preparations for securing interesting speakers. Dick has assured us that this year's programs should include many topics which will be of interest to all of our membership.

Arel Berrier and Larry Shea have been busy this summer with our legal counsel trying to finalize the Chapter Articles of Incorporation and By-Laws. As you probably recall, our Chapter decided to incorporate some time back, but the wheels of progress have been slow in moving. The Articles have now been forwarded to National for their preliminary review and comment. It is hoped that they will be ready for Chapter review, correction and final adoption yet this year.

As you all may or may not know, the City of San Francisco is in the final stages of preparing a new heating and ventilating code which is to be forwarded to the Board of Supervisors any day now. Your Chapter Code Committee consisting of Larry Shea, Irving Alger, Bob Braun, Leo Dwyer, Tom Simonson and John Capitolo have spent many long hours during the past summer trying to help the City produce this new document. There still are several items contained in the proposed code that your Committee does not agree with but, in general, the majority of the Committee's suggestions were included. The final document is a decided improvement over the early drafts that we were asked to review and your Committee deserves a bit of thanks from all of us for their fine efforts.

This year we will be inviting local students to attend our Chapter meetings on a regular basis. Your Board has budgeted an amount in this year's budget that will allow us to invite up to 10 local students to each of our dinner meetings.

One last word for now, I hope that you have all paid your current Chapter dues to take advantage of the \$9.75 bargain price prior to November. If you haven't put your check in the mail yet, please do so now!!!!

See you all at the meeting.

MINUTES - JUNE MEETING

The meeting was held at Longley's Restaurant in San Francisco and was called to order at 7:45 P.M. by President Shea. Self introduction of members and guests followed.

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

Shea reported that the Chapter was still in the process of reviewing the new San Francisco Building Code and a meeting of those interested was to be held Monday evening, June 10th to summarize our comments and recommendations on the Code draft submitted to us.

Aronovsky reported that the raffle turned out very well with gross receipts of \$1,453.00, expenditures of \$726.00 which netted \$727.00 for the Chapter.

Frank Lockwood of the Dance Committee reported on the May dance which was a huge success. 156 people attended and there was a net loss of only \$77.99.

Roger Chesbro reported on the current status of the Workshop Fund Drive. Approximately 60% of this year's goal has been reached and all members were urged to cooperate in making this year's drive a success.

Dick Charles, Seminar Committee Chairman reported on the results of this year's seminar. \$5,045.00 was taken in and after expenses the Chapter should net approximately \$2,500.00. The seminar was well received this year and Dick was interested in receiving the membership's comments and suggestions for future years.

Dick Friedman reported on the Region 10 Conference held in May in Spokane, Washington. There will be no realignment of the Region 10 boundaries. The new Regional Membership Chairman will assist the Region Chairman in performing his duties over the large geographical area which Region 10 spans. The Conference was told about the 1970 Show and National ASHRAE Technical Conference which will be held in San Francisco. We urged the other Chapters in Region 10 to cooperate with us in making this event a memorable one. Don Bryant, our new Regional Education Chairman gave an excellent report on manpower and education. The technical seminars and social events were most worthwhile and enjoyable. All Chapter members are urged to attend CRC meetings in addition to the Chapter delegates and alternates.

Larry Shea solicited volunteers for the Audit Committee.

Bob Voelz, the Program Committee Chairman, announced that Mak Takahashi, Head of Skidmore, Owings & Merrill's heating and air conditioning department who was supposed to be our speaker for the evening was unavoidably detained in Hawaii. We were fortunate in having Bob Voelz available to take over the description of the Alcoa Building prior to making the Field Trip. The Alcoa Building is part of the Golden Gateway Complex which includes adjacent apartment buildings, some commercial area and the public garages. The Alcoa Building has a gross square footage of 589,000 square feet with net rentable area of 406,000 square feet. There are 24 typical office floors each containing about 17,000 square feet. The building cost which included finished floors, ceilings, lights, air conditioning on an open floor basis was \$25.60 per square foot. Heating, ventilating and air conditioning was \$3.32 per square foot. Plumbing was 58 cents per square foot. Electric was \$1.77 per square foot. The basis air conditioning system consists of perimeter induction units plus five ducted interior reheat zones per floor. The air system is split at the ninth floor with everything above fed from the roof and below from the ground floor.

The heating system consists of two fire tube package boilers 250 hp steam boilers with combination oil and gas fire. There are two chillers which are hermetic electric drive centrifugals 825 tons with series flow on the chilled side and parallel on the condenser. The cooling tower is a blow through metal deck type located on the roof with injection type chemical treatment.

Controls on this building are at a minimum. Design started with a central start stop station and a small panel was added towards the end of the job to provide a temperature check for the operator.

A computer installation in the building posed an interesting problem after some of the space was leased and it was solved by using packaged self contained units with condenser water supplied from the roof.

Visitor: "How long have you worked in this office?"

Sweet young secretary: "Ever since the boss threatened to fire me."

"Both Smith and Jones proposed to Miss Brown. I wonder which was the lucky one?"

"It's too soon to say yet, but she accepted Smith."

Friend: "Did you get that Smith estate settled?"

Lawyer: "Yes, but had a terrific fight. The heirs almost got part of it."

On a rural gas station: Buzz twice for night service. Then keep your shirt on while I get my pants on.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o COMBUSTION UTILITIES, INC.
1485 Bayshore Blvd.
San Francisco, California 94124
Phone: 467-9076

submittal of shop drawings started with the determination of who should make the drawings in the Contractor's office-Field or Office Personnel. Nelson decided to select an Engineering Draftsman rather than a Mechanic. Available time to prepare the drawings is always a problem. Drawings submitted sometimes come back too slowly and since the job must move along, in certain cases duct work or piping might have to be installed in order to coordinate with other Trades prior to approval of the shop drawings. Sometimes ambiguity in specifications results in delay of shop drawings. Jones felt that the type of shop drawings required by Engineers now increased contract costs from 1% to 1½% on jobs above \$100,000 and below that figure costs are even higher. On the plus side, he felt that an additional familiarity with job resulted.

Robert W. Castner, District Manager of York Recold was the last Panel Member to speak, representing the Manufacturers. He felt detailed shop drawings and clearly noted submittals were mandatory including everything asked for by the Engineer, plus more. It was not the manufacturer's responsibility to include external connections. Submittal information should differ from the catalog information. The Manufacturer should be the expert on the hook-up of his own equipment.

A lively question and answer period followed. There was further discussion on the definition of a shop drawing. Is it needed because the Engineer has sacrificed an amount of detailing included in year's past? Some Engineers noted that they too often end up with the standard item of equipment, not the one approved on the submittals. Some suppliers felt the submittals had become too voluminous on minor items. Engineers and Suppliers both agreed on desirability of cutting down on the volume of pertinent data required.

The meeting adjourned at 10:15 P.M.

The building committee of the church was discussing plans for the new addition to the present edifice when the matter of an appropriate cornerstone came under discussion. One member thought the minister's dedicatory sermon should be placed in the cavity of the stone. To this all agreed, the minister adding it would be necessary to enclose a certain chemical to keep it dry. Whereupon one of the older members, with a straight face, added, "I don't think the chemical is necessary."

Triumphant father to mother watching his teenage son mow the lawn. "I told him I lost the car keys in the grass."

MEMBERS

Alger, Irving	Laks, Maury
Ali, Ihsan H.	Lescure, Keith
Aronovsky, George N.	Levensaler, D.
Attard, James A.	Lockwood, F.
Baldwin, Karl	MacDonald, R. F.
Barron, Bill	McQuillan, Joe
Bekedam, Mike	Murray, Joseph E.
Berrier, Arel W.	Myers, J.
Bradshaw, Don	Noon, Don
Breese, Jim	Olsen, Frank A.
Bryant, Donald	Palmer, Jack A.
Carrier, Earl	Parsons, Jim
Castner, R. W.	Phillips, Bob
Chamberlain, Jack T.	Pumphrey, Leo
Charles, Dick	Reichlin, Mike
Ciapponi, Art	Rudy, John V.
Conroy, Tom	Scavino, Al
Dana, Jim	Scott, Tom
DeChene, Robert A.	Shea, L. E.
DeWree, Gene	Sherrill, Ross M.
Douglas, Tom	Sommer, H.
Driessen, Harley	Suda, Miles
Dundos, Dick	Swezey, Bob
Formby, Roy L.	Takahashi, Mak
Friedman, Dick	Thomas, Booth
Fujioka, Dick	Tulp, Karl F.
Gamble, Art	Valerio, Gene
Gee, Richard E.	VanBuskirk, Jim
Geis, Pat	Voelz, Robert
Gendler, Gus	Wallace, Ralph
Giovannini, R. F.	Werner, John
Gilbertson, Thomas	West, Al
Gorden, Frank	White, Tom
Gray, G. Allan	Williams, C.
Grimes, Mike	Williams, Jim
Gruber, Ory	Wilson-Reid, Clyde
Guttman, Karl	Witharm, Jim
Heathorn, Norman V.	Wolff, Max
Johns, David	Wolfson, Henry A.
Jones, Max	Woo, Carson
Jordan, Carl H.	Yaffe, Gerry
Kellogg, C.	Yahagi, H.
Knezvich, Pete	Yamauchi, Sam
Kniveton, Jack	Yonovitz, Robert
Kopf, Chuck	Young, Lowell



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVII No. 3

JANUARY 1968

PROGRAM CHAIRMAN: BOB VOELZ

The next Golden Gate Chapter meeting will be held at the ENGINEERS' CLUB, HONG KONG BANK BUILDING, corner of SANSOME AND PINE STREETS, San Francisco on January 4, 1968. Social hour will be at 5:30 P.M. and dinner at 6:45 P.M.

THE MECHANICS LIEN LAW AND HOW IT AFFECTS YOU

PROGRAM CHAIRMAN - ROBERT VOELZ

The topic for the January meeting will concern the State of California Mechanics Lien Law. It is surprising how it can affect all of us, contractors, suppliers and engineers, in our attempts to collect money for equipment supplied or services rendered. If you are not exactly sure as to how it affects you, come to the meeting and find out. If you think you know all about it, come anyway, for you could be surprised.

The speaker for the evening will be Mr. Raymond H. Levy, attorney-at-law, from San Francisco. Mr. Levy is a University of California at Hastings graduate and has been in practice since 1951 specializing in construction law.

It should be an informative evening for us all, so be sure to attend. I'll see you would-be lawyers at the Bar.

JANUARY WORKSHOP CHAIRMAN - GENE DeWREE

The January Workshop will be a continuation on "How to Put Out Fire Dampers." We are taking an opportunity to propose a tentative recommendation on this subject which has been accepted by many of the agencies in the East Bay Area.

The panel members will be Maury Laks of G. L. Gendler and Associates, representing the consulting engineer; Al Mockus of Wonder Metal Products Company, representing the suppliers; Al Kieselbach of Aladdin Heating Corporation, representing the contractors; Bill Pachetti of the State Fire Marshals office; and Guy T. Castino of Underwriters Laboratory, representing the interpretative agencies.

This is a rare opportunity so I hope you can take advantage of it.
The session starts promptly at 5:50 P.M.

HONOR ROLL

CONTROL INSTRUMENT & REGULATOR COMPANY
(Contract Air Balancing Department)

1814 Eye Street

Sacramento, California 95814

Phone Enterprise 11668

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371-15th Avenue, San Francisco, California 94122. LO 6-2740.

**OFFICERS AND BOARD OF GOVERNORS
1967-1968**

Larry Shea _____ President
Robert Voelz _____ Vice President
Richard Friedman _____ Secretary
George Aronovsky _____ Treasurer

BOARD OF GOVERNORS

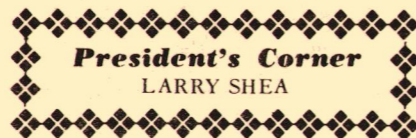
Irving Alger
Charles Hardeman
Arel Berrier

GUESTS

Alexander, K. O.
Bedard, Lu
Beyer, Allen L.
Boyer, Edward G.
Cox, Robert G.
Deady, Harold E.
Finer, A. C.
Fitzgerald, Barry
Fuller, Warren
Furnas, John
Gould, Jim
Gujral, P. S.
Hickey, Bill
Hull, R. M.
Hurley, Bill
Jannesson, Erland S.
Jones, John
Layman, C. E.
Lew, Alber
Mantoani, Glenn
Masad, Edward M.
Meckus, Al
Niedhamer, Russ
O'Dell, Don
O'Hare, Ruth
Omania, Rich J.
Paccheth, William
Parisi, Joe
Ross, John W. Jr.
Savage, Mike
Stettner, J.
Zimmer, Wes

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o COMBUSTION UTILITIES, INC.
1485 Bayshore Blvd.
San Francisco, California 94124
Phone: 467-9076



President's Corner

LARRY SHEA

Christmas is the symbolism of man's eternal hope for a peaceful and joyful world; and New Years the hope for a bountiful future. Perhaps both are inextricably intertwined. Regardless of your religious, political or ethnic beliefs, the Board of Governors wishes you and yours Season's Greetings, and the fulfillment of man's desires. And now, from the sublime to the mundane.

Our Reception Committee will again have the gripe book out at our next meet. You tell us your troubles, Bunky, and we'll try to take care of them.

Millar Clarke and group may soon call on you for assistance and technical information relating to the S.F. City Code. Be objective-not commercial please. We are a professional group.

As of November 30, our close-off date, our Chapter had 274 regular paid-up members, and 35 student members. So the National is still not satisfied, and wants 99 more. Ask your buddy to join. If he makes his living in our industry and is qualified he should belong! Be a GOYD.

Let it be noted that Mr. H.S. Haley has received special recognition from National Headquarters for being an ASHRAE member for 50 years. We've invited Mr. Haley to our next meet and hope he can make it. In any event, congratulations and best wishes.

Which reminds me-next year ASHRAE celebrates its 75th anniversary. Honestly-you don't look that old.

The Editor of the JOURNAL invites comments on its content and format. Do you want more "How To" or "Typical Job" type articles? Fuller writeups on specified technical committee projects, aims, and interim assessments, or what have you? He can't give you what you want if you don't tell him.

Forthcoming events: Air Conditioning & Refrigeration Exposition in Atlantic City on January the 29th, followed by ASHRAE Semi-Annual meet in Columbus, Ohio on February 5, preceeded and followed by snow, ice and cold. Who do we write to on that?

Education - "Application of Automatic controls to Heating and Air Conditioning Systems #817". Interested? Contact U. C. Extension at Berkeley, Calif. 94720.

Three courses sponsored by NSPE through OCD. "Environmental Engineering" course starts Feb. 20. "Fallout Shelter Analysis" Feb. 7. "Protective Construction" course Feb. 12. Interested? Contact Director, Training and Education, Office of Civil Defense, Region 7, Federal Center, Santa Rosa, Calif. 95403. There are no course fees or other charges to participate in the three latter courses. You need only write for an application and meet their minimum qualifications.

Also a course at Laney College, Oakland, starting January 29 on Refrigeration Principles and Practice. Call 834-5740 for information.

Did you hear about the patient at the hospital who failed the psychometric examination? Well this will be John Rudy if we don't get more accuracy in our attendance returns. Last month's program was the best one we've had to date. If you plan to come out for more, let John know. If you don't, don't kid him. He wants to retain his faith in mankind.

MINUTES - DECEMBER MEETING

The meeting was held at the Engineers' Club and was called to order by President Shea at 7:50 P.M. This was followed by the self introduction of members and guests.

The minutes for the November meeting were approved as published in the Fog Dispenser.

President Shea commented on a letter which he had received from John Rudy, Attendance Committee Chairman pointing out that the number of members present bears no relation to the number of post cards returned. Shea and Rudy both solicited the Chapter's cooperation.

Shea noted that George Yamas, Joint Industry Council Chairman has contacted sixteen organizations and invited them to attend our meetings.

Carl Jordan of the Code and Legislation Committee noted that his Committee had met with Mr. Levy of San Francisco City and County Public Works Department and submitted suggested changes, in the name of ASHRAE, for the new Heating and Ventilating Code.

President Shea requested cooperation in returning the Manpower Questionnaires. So far six hundred have been sent out and one hundred have been returned.

News from the National: 1. Changes in the by-laws should be submitted to the membership shortly; 2. It was decided not to change

the Regional boundaries at the present time; 3. The Regional meetings have increased in size thereby accommodating more members than the National meetings. Therefore one National meeting per year is under consideration with more importance placed upon the Regional meetings.

President Shea noted that the National Society of Professional Engineers is planning a seminar in February on "Environmental Engineering", with emphasis on fallout shelters. Gene DeWree, Technical Committee Chairman in charge of the pre-meeting Workshops noted that in response to the enthusiastic discussion and turnout, January's Workshop will again be "Fire Dampers".

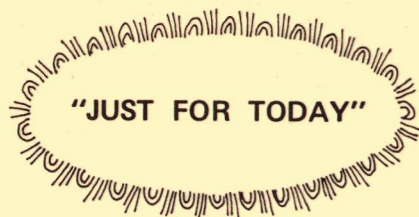
Past President Gendler noted that the Plumbing Designers have their own Society and announced the meeting time and place of their next meeting.

Vice President Voelz, Program Committee Chairman introduced the Panel Members for the discussion on "Detailed Shop Drawings-- Needed or Not".

Mak Takahashi head of the Heating and Air-Conditioning Section of Skidmore, Owings & Merrill spoke from the Consulting Engineer's prospective. He felt detailed shop drawings were not required on all jobs. He gave his definition of a shop drawing as a Contractor's interpretation of the Enginner's drawing.

As to why shop drawings are desirable, Takahashi felt that it gets the contractor on to the job to coordinate with other trades sooner than he might otherwise. They further develop a rapport with the Engineer as a result of the shop drawing submittals. The Engineer is in close contact with the Architect during the design and therefore aware of other problems such as structural demands which the contractor cannot know about. Shop drawings save the Contractor from doing certain jobs twice. The Contractor can use the shop drawing as a fabrication drawing and therefore save money. He felt the intent was not to place the burden or shift the responsibility on to the contractor. He noted that sometimes shop drawings are submitted purposely omitting important required equipment hoping for approval and suggested that the Contractor read the fine print in order to establish responsibility.

J. Fletcher Jones, Project Engineer with James A. Nelson Company was the next speaker representing the Contractor's point of view. Years ago, shop drawings were not used. The problems presented by compulsory



MEMBERS

Alger, Irving
 Akizuki, Ed
 Aronovsky, George N.
 Attard, Jim
 Bailey, Chuck
 Baldwin, Karl
 Beck, Joe
 Beggs, Bob
 Beggs, Phil
 Berrier, Arel W.
 Bradshaw, Donald
 Breese, Jim
 Brose, John
 Brown, Leonard J.
 Bryant, D. C.
 Burke, Clyde
 Carrier, Earl
 Charles, Dick
 Ciapponi, Art
 Clark, Ward L.
 Crockwell, Walt
 Crouse, Gordon
 Cumali, Zulfikar
 Dana, J. P.
 Dauphinee', Howard
 DeWree, Gene
 Doolittle, Sheldon
 Dwyer, Leo
 Emerson, Richard
 Farmer, W. F.
 Ferry, Bud
 Formby, Roy L.
 Fox, Sandy
 Friedman, Dick
 Gee, Richard
 Geis, Pat
 Gendler, Gus
 Gilbertson, Tom
 Giovannini, R. F.
 Gonzales, A. Andrew
 Gramaglia, L.
 Gray, G. A.
 Grimes, Mike
 Gruber, Ory
 Guttman, Karl
 Hanson, D.
 Hardeman, C. S.
 Huffine, D. H.
 Jordan, Carl
 Kellogg, Coe
 Knezevich, Pete

Kniveton, Jack
 Kramer, Dave
 Leedom, Ed C.
 Lescure, Keith
 Levensaler, Don
 Lloyd, K. M.
 Lockwood, Frank
 Long, Edward
 Lowey, Al
 MacDonald, R. F.
 McLaughlin, Chuck
 Mirov, Ken
 Montgomery, Bob
 Murray, Joseph E.
 Palmer, Jack
 Phillips, Bob
 Pollack, Lewis S.
 Popp, Edmund
 Pribuss, R. C.
 Reichlin, Mike
 Robertson, Ken
 Roos, Walter
 Roth, J. Gerry
 Rouch, Jess
 Rudy, John V.
 Sands, Milo
 Schueler, Lyle
 Shea, L. E.
 Soderer, Fred A.
 Sommer, H.
 Sonnander, Per
 Speier, Claus
 Swezey, Bob
 Thomas, Booth
 Tuck, Bob
 Valerio, Gene
 Van Buskirk, Jim
 Wallace, Ralph
 Werner, John E.
 Williams, C.
 Williams, Don
 Wilson, G. P.
 Wistort, Bob
 Witharm, Jim
 Wolff, Max
 Wolters, Clyde
 Womer, Wayne
 Yaffe, Gerry
 Yahagi, H.
 Yamauchi, Sam
 Yonovitz, Bob

JUST FOR TODAY I WILL BE HAPPY. This assumes that what Abraham Lincoln said is true, that most people are just about as happy as they make up their minds to be. Happiness is from within, it is not a matter of externals.

JUST FOR TODAY I WILL ADJUST MYSELF TO WHAT IS and not try to adjust everything to my own desires. I will take my family, my business and my luck as they come and fit myself to them.

JUST FOR TODAY I WILL TAKE CARE OF MY BODY. I will exercise it, I will care for it, and not abuse it, nor neglect it, so that it will be a perfect machine for my soul.

JUST FOR TODAY I WILL STRENGTHEN MY MIND, or try to. I will study. I will learn something useful. I will not be a mental loafer all day. I will read something that will require effort and thought and concentration.

JUST FOR TODAY I WILL EXERCISE MY SOUL in three ways. I will study. I will do somebody a good turn, and not get found out. If anyone knows of it, it won't count. I will do at least two things I don't want to do as William James suggests, just for exercise. I will not show anyone that my feelings are hurt today. They may be hurt, but just for today, I'm not going to show it.

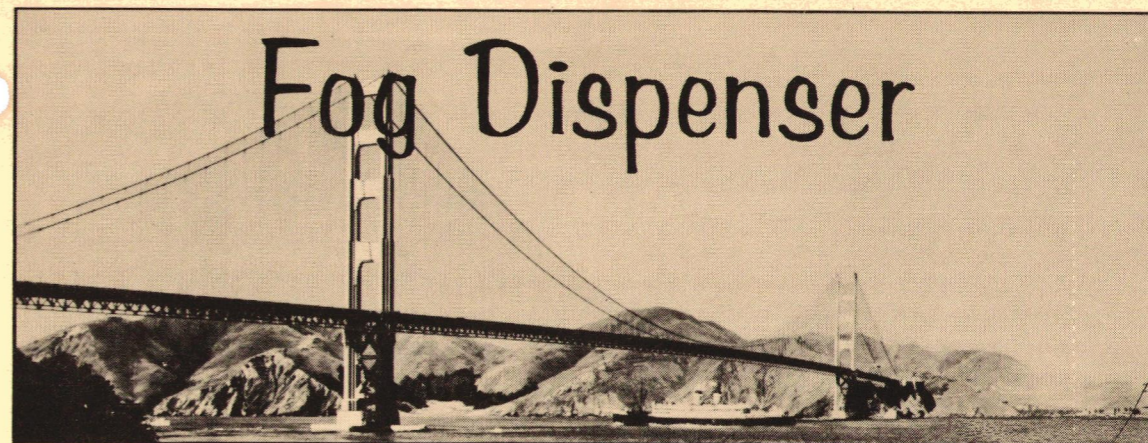
JUST FOR TODAY I'M GOING TO BE AGREEABLE. I'll look as well as I can. I will dress as becomingly as possible. I will talk low. I will act courteously. I'll be liberal with flattery. I'll criticize not one bit, nor find fault with anything, and not try to regulate, nor improve anyone.

JUST FOR TODAY I'LL HAVE A PROGRAM. I'll write down just what I expect to do every hour. I may not follow it exactly, but I'll have it. It will save me from the two pests—hurry and indecision.

JUST FOR TODAY I'LL HAVE A QUIET HALF HOUR ALL BY MYSELF and relax. In this half hour I'll think of God, so as to get a little more perspective to my life.

JUST FOR TODAY I WILL BE UNAFRAID, especially I will not be afraid to be happy, to enjoy what is beautiful, to love and to believe that those I love, love me.

All these things I will do just for today.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVII No. 3

FEBRUARY 1968

PROGRAM CHAIRMAN: BOB VOELZ

The next Golden Gate Chapter meeting will be held at the ENGINEERS' CLUB, HONG KONG BANK BUILDING, corner of SANSOME AND PINE STREETS, San Francisco on February 1, 1968. Social hour will be at 5:30 P.M. and dinner at 6:45 P.M.

COMPUTERIZED TEMPERATURE CONTROL SYSTEMS

Program Chairman - Per Sonander

Last year we saw how the computer could be used to help us design our mechanical systems and now the process is being carried another step forward. Temperature control systems are becoming computerized in such a fashion that the control of space temperatures, air and water temperatures, fan startup and shut-down, and many other building functions can be controlled directly from an on-the-line computed tied into building control systems.

To give us the current thinking on the computer application to temperature controls and possible to indicate what future applications we might expect, we will have as our speakers Mr. Robert Stubbs, Product Supervisor for Automation Systems with Honeywell, and Mr. Wayne Drake, Pacific Coast Regional Engineer for Johnson Service. Both of these individuals have worked on several computerized control installations and should be able to give us many good ideas on what we can expect now and in the future.

FEBRUARY WORKSHOP

Chairman - Gene DeWree

The February Workshop topic is "SUBMITTALS - WHO NEEDS THEM?"

This is your opportunity to help establish how detailed submittals should be - when required. Are submittals necessary when furnishing equipment that is specified - or is this another un-necessary expense for the supplier - contractor and engineer? How much responsibility should the engineer assume when approving submittals?

Panel members will be the most qualified - available Golden Gate Chapter members. This should be a very interesting discussion.

The session will start promptly at 5:30 P.M.

HONOR ROLL

ATLAS HEATING & VENTILATING COMPANY

557 Fourth Street

San Francisco, California 94107

Phone: 982-7130

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371-15th Avenue, San Francisco, California 94122. LO 6-2740.

OFFICERS AND BOARD OF GOVERNORS 1967-1968

Larry Shea _____ President
Robert Voelz _____ Vice President
Richard Friedman _____ Secretary
George Aronovsky _____ Treasurer

BOARD OF GOVERNORS

Irving Alger
Charles Hardeman
Arel Berrier

Stories of the Week

Father took Gerry to Washington, D.C. They entered the spectator's gallery of the House of Representatives just as the chaplain was giving forth with the opening prayer.

"Why do they have a preacher, Daddy? To pray for Congress?"

"It isn't quite like that," cynicked his father. "He looks the Congress over, and then prays for the nation."

In the Lounge Luxurie a waiter accidentally spilled a drink down a woman's low-cut back.

She shrieked, knocked over table, and spilled a mess over her male escort. Whereupon both fled the room.

"Waiter," called another patron. "Bring us two of whatever they had."



A CHALLENGE TO GOLDEN GATE

Our most urgent project is membership development. Why can't we DOUBLE the size of our chapter? The goal of our national officers is that EVERYONE who makes his living from our industry should be a member of ASHRAE. Everyone you say? Wouldn't that debase our pedigree? Aren't things bad enough? How do you maintain any semblance of professionalism if you have anyone? The question really is, why not? We have different levels of membership grades to accommodate a hierarchy that bestows the dignity of status and recognition according to a man's station. Often those without professional qualifications grow up, at least, to the ATTITUDE of professionalism. What are the marks of a professional? Pride in a job well executed. The endless pursuit of excellence. The achievement of a sense of ethics that permits a man to forget his selfish interests as opposed to the commonweal. A sufficient degree of humility, so that one is not impressed with his own achievements nor debases that of his fellow man. Finally perhaps a sense of obligation to participate, and to undertake tasks for which there is no direct remuneration or hope of same. Only the psychic coinage that one has helped, in his small way, to bring progress a snail pace forward in his field of endeavor. Each of you know at least ONE man who makes his living in air conditioning and/or refrigeration, who is not a member of our chapter. Each of you are obligated to get your equal number. We challenge YOU to let YOUR professionalism show. Participate. Give Bob Tuck a hand, not a headache.

Dick Charles will announce the seminar program subjects, etc., at our next meeting. There's more to come on research and the dance. Our roster is being printed and will be sent to you in the mail. Save it. It's the handiest telephone directory in the business.

Dinner tickets will soon be available for the engineers week dinner on February 20th. Be a GOYD and contact George Yamas, Ken Lloyd, Bob Voelz or myself for your ticket.

MINUTES—JANUARY MEETING

The meeting was held at the Engineers' Club and was called to order by President Shea at 7:45 P.M. Self introduction of members and guests followed.

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

George Aronovsky gave a brief Treasurer's report. The Chapter has total assets of \$3646.45.

Social Committee Chairman Jerry Yaffe and President Shea gave some background on this year's proposed social event to take place in May or June. Chapter opinion was sampled and Chairman Yaffe was directed to submit a written report to the Board.

President Shea briefly discussed the 1970 WACIA Show to be held in conjunction with the ASHRAE Convention. Phil Freeman, the show director, had submitted a preliminary report to the Board of Governors last month. Chapter help will be needed to make it a real success.

President Shea noted that Past President Arel Berrier had been directed by the Board of Governors to proceed with Chapter incorporation provided that the legal costs did not exceed \$300.00.

Membership Committee Chairman Bob Tuck gave his thanks to Don Bryant for bringing in 35 new student members. President Shea then presented badges to other new members including Don Bryant.

President Shea asked all members present to stand for a moment of silence in memory of Past President Herb Hickman.

President Shea introduced the speaker for the evening—Mr. Raymond H. Levy, Attorney at Law whose specialty is Construction Law. The subject of Mr. Levy's talk was the "Mechanics Lien Law" and how it affects you.

The new Lien Law has created a situation which cannot only prevent a sub-contractor from obtaining security under the heretofore existing Lien and stop notice laws but also should he fail to comply with the same he is specifically subjected to disciplinary action by the State Registrar of Contractors. Mr. Levy went into the details of this very complex statute and pointed out that everyone who is covered by this law must cross all T's and dot all I's in order to comply and not lose his rights. Mr. Levy pointed out when, to whom and how the preliminary notice should be filed. He discussed the period of time which the sub-contractor has for filing his lien after a valid notice of completion has been filed.

Brief mention was made of the Notice of Non-responsibility by the owner which can absolve him of any financial responsibility for improvements his tenants may make in the building. The owners notice of non-responsibility may be filed after the work was done or while it is in progress if the tenant had not notified him prior to the start of construction.

In the absence of a notice of completion 90 days is allowed for filing of a lien. On work which was contracted for, or started prior to November 8, 1967 it is still necessary to file the 15 day notice of intent to lien prior to filing the lien.

What is completion? In the absence of a valid notice of completion being filed the court can decide when the project was substantially complete. The Court may also decide that substantial completion did not occur at the time when the notice of completion was filed.

A lien must be filed clearly on the property in question. Mr. Levy felt that the lot number, block number and street address was not necessarily adequate and the description as shown in the assessor's office should also be included.

A Mechanics Lien may take precedence ahead of a Homestead. Many liens have fallen because all of those who had a financial interest in the property had not been notified. Mr. Levy then discussed Stop Notices—the right to give the owner, lender or both notice to withhold from the contractor funds to pay the sub-contractor on State Jobs. The general contractor may then file an affidavit saying the sub-contractor is not entitled to his money.

The complications of the present and previous Lien Laws are manifold. Mr. Levy had many interesting and heartbreaking stories to tell about contractors who lost their rights and thereby often their money.

After listening to Mr. Levy's talk your Secretary suggests that you refer all problems of this nature to your attorney and not use these minutes for legal reference.

The meeting adjourned at 9:55 P.M.

GUESTS

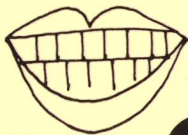
Alexander, K. O.	Mantoani, Glenn
Basye, Paul G.	McClellan, W. F.
Bettencourt, E. C.	Mitchell, Richard W.
Cederquist, Ken	Mmers, Ralph
Cooke, G. M.	Mockus, Al
Davies, Ken	Monroe, James
Emmons, Jim	Ochs, R.
Feiner, Andy	Pacchetti, Williams
Fitzgerald, Barry	Peterson, Ray
Fuller, Warren	Schmidt, Bob
Haneinald, K.	Sheldon, Jim
Hara, Dave	Siegfried, G.
Heinzer, Robert A.	Slakey, Paul
Hickey, W.R.	Tiran, Joe
Judd, Bob	Walden, L.
Kelly, J. D.	Watanabe, Masanori
Laws, Cal	Wegener, F.
Levy, Ray	Wei, Steve
MacKenzie, J.	Weihl, H.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o COMBUSTION UTILITIES, INC.
1485 Bayshore Blvd.
San Francisco, California 94124
Phone: 467-9076



MAY MADNESS IS COMING



GOLDEN GATE CHAPTER
DINNER-DANCE

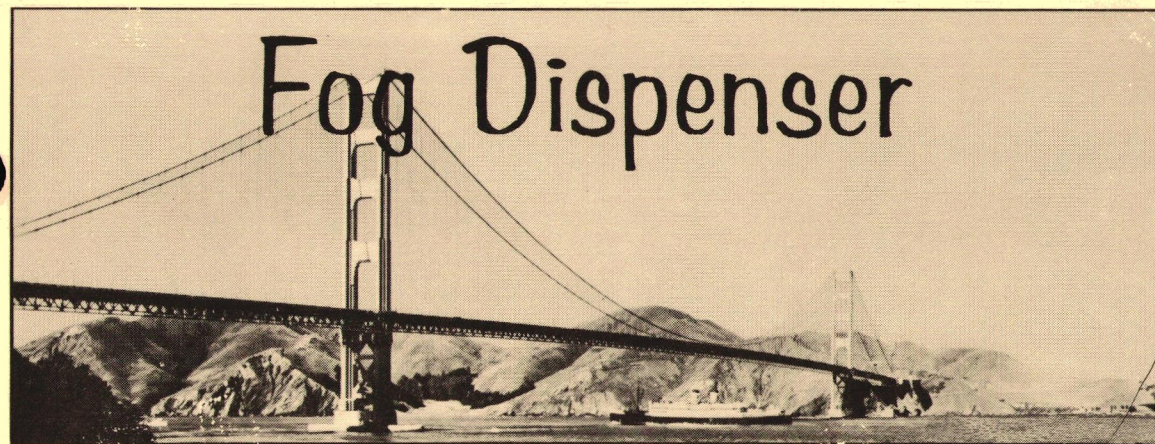
May 11, 1968

HOTEL CLAREMONT
CHURCHILL ROOM
BERKELEY

COCKTAILS · DINNER · DANCING

RESEARCH FUND RAFFLE DRAWING

Dress:
Semi-formal
Tickets:
\$23.50 / couple



Fog Dispenser

GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVII No. 4

MARCH 1968

PROGRAM CHAIRMAN: BOB VOELZ

The next Golden Gate Chapter meeting will be held at the ENGINEERS' CLUB, HONG KONG BANK BUILDING, corner of SANSOME AND PINE STREETS, San Francisco on March 7, 1968. Social hour will be at 5:30 P.M. and dinner at 6:45 P.M.

CENTRAL CHILLED WATER PLANTS

Program Chairman – Robert Voelz

Each year the question of whether to centralize or decentralize chilled water plant installations is being asked of our industry by more and more owners, architects and builders. Unfortunately, since the installations are becoming larger and our systems more complex, the answers are becoming more difficult to attain.

This month Mr. Maurice J. Wilson, Director of Marketing Development for Carrier Air Conditioning Company will be our guest speaker. Mr. Wilson has authored several magazine articles regarding the relative merits of both the central and decentralized chilled water plants and has a wealth of knowledge on the advantages, disadvantages and costs related to each of these design approaches. If you are working on a central plant design or would just like to know more about central plant design, you should find Mr. Wilson's remarks very enlightening.

MARCH WORKSHOP

Chairman: Gene DeWree

The March Workshop topic is "SUBMITTALS, WHO NEEDS THEM AND WHAT DO THEY DO WITH THEM AFTER THEY ARE RECEIVED"???

Panel members will be: Lew Pollock of the Trane Company, Jack Chamberlain of Marelich Mfg. and Karl Guttman of Kasin, Guttman & Associates.

The session will start promptly at 5:30 P.M.

SPECIAL ALERT

Get your shoes polished and your dark suit pressed in time for our big SPRING DINNER DANCE. Tell the wife to get her formal gown ready because you are going to take her to a real swingin affair. One of the finest panoramic views in the Bay Area is yours to enjoy while dining and dancing at the Churchill Room in the Claremont Hotel. This is one of the very few hotels in the world with warmth, character and charm. An eight piece orchestra will provide the music for our dancing pleasure. We would like the membership to really turn out or turn on and make this evening a success. We have plenty of room and have provided the ingredients for a real enjoyable time, why don't you bring your friends too.

Gerry Yaffe

HONOR ROLL

EDWARD B. WARD & COMPANY

110 Freelon Street

San Francisco, California 94107

Phone: 392-3848

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371-15th Avenue, San Francisco, California 94122. LO 6-2740.

OFFICERS AND BOARD OF GOVERNORS 1967-1968

Larry Shea _____ President
Robert Voelz _____ Vice President
Richard Friedman _____ Secretary
George Aronovsky _____ Treasurer

BOARD OF GOVERNORS

Irving Alger
Charles Hardeman
Arel Berrier

RESEARCH FUND DRIVE RAFFLE NEED FOR DONATIONS BY GEORGE N. ARONOVSKY

We all recognize the fundamental need for research. We all directly or indirectly benefit from its results. Because research expenditure is geared to research income, it is essential that this income be available on a plentiful basis.

Your dedicated Research Committee members gave this problem a lot of serious thought as well as considered ways and means for the Golden Gate Chapter to participate and contribute in the drive for funds. We wanted a painless grass-root participation and contribution involving all of the chapter members.

The Raffle scheme was decided on for the following reasons:

- (1) It is a vehicle for 100% membership participation.
- (2) It will provide each member the minimum of 10 chances to win the first prize color TV set or other valuable prizes to be announced in the next Fog Dispenser issue.
- (3) It will allow each member to promote the sale of tickets and/or books of tickets to friends, neighbors, customers, etc.
- (4) It provides for the painless donation by each member with the fun possibility of winning something valuable.

You need not be present to win.

The drawing for prizes will take place on May 11, 1968 at the Chapter's Annual Dinner Dance to be held at the Claremont Hotel in Berkeley.

There will be a prize for the member selling the most books of tickets.

Each member is urged to mail the check(s) upon receipt of the \$10.00 book of tickets.

We need your help in this to allow us to arrive at the list of prizes, prepare for the drawing, etc. Be sure to mail in the stubs by the deadline date to assure your participation in the drawing for prizes.

Additional tickets may be obtained from Aronovsky, Akizuki, Clyde Wilson-Reid, Charles Harden and/or the Chapter officers.

Please mail your checks and stubs to:

George N. Aronovsky
115 Fairway Drive
Daly City, California 94015
Phone (415) 755-8464



President's Corner LARRY SHEA

Re: National Committee

Gentlemen:

We have just returned from a National Committee meeting at Columbus, Ohio. Attending one of these meetings is downright fascinating. There are people from all walks of life in our industry. It ranges from those scientists engaged in esoteric research, through professors, consulting engineers, manufacturers, sales people, etc.

These men are at technical committee meetings and struggle with a varied assortment of problems. Some of these problems relate to the operations of this Society. Determining the meeting dates and locations of Society meetings is a time-consuming function that few members ever give thought to. Special committees, such as the Membership Committee, wrestle with the problems of how to increase Society membership and what the qualifications should be of members; the Education Committee wrestles with the manpower problems. The matter is like the weather: everyone talks about it but almost nobody wants to or seems to be able to do anything about it. Regional directors sit in concert and review proposals from grass roots complaints or suggestions of an infinite variety and hue. The Finance Committee concerns itself with income and outgo.

Concurrent with this are technical sessions where papers are presented to interested members on new ideas or new methods of doing things. Again the variety: noise generation and ducts, soiling of surfaces by fine particles, computer use and calculation, air wall construction, special compressor lubricants. Often members are serving on special committees and are also participants on technical committees and the entire atmosphere is one of a three-ring circus wherein people dash madly about trying to keep appointments, juggle committee meetings with personal appointments or technical sessions. It all possesses the furor of a hurricane which howls and whirls for a few days and then evaporates to be dissipated in the hinterlands. Perhaps the greatest benefit is the exchange of ideas that comes from meeting people who also have concerned themselves about the same problems and are either ahead or behind you in the evolution of thought. It is this interchange that provides vibrancy to our Society and provides advancement in the art. To those of you who have not exposed yourselves to National Committee work, I would suggest that you do so. Competent men are always needed and the chasm that separates the available men from the tasks at hand is one of communication.

If you are interested, please contact me, advise me of the committee work you may be interested in, and I will be glad to direct your footsteps in the direction of service.

Very truly yours,
Lawrence Shea

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o COMBUSTION UTILITIES, INC.
1485 Bayshore Blvd.
San Francisco, California 94124
Phone: 467-9076

MINUTES – FEBRUARY MEETING

The meeting was held at the Engineer's Club and was called to order by Vice President Voelz at 7:45 p.m. Self introduction by members and guests followed.

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

Bob Tuck, Membership Chairman briefly discussed the membership drive as described on the flyer which accompanied last month's Fog Dispenser mailing. Each of the Chapter officers has been given a membership kit which includes applications as well as excellent descriptive data on the value of ASHRAE Membership for every individual involved in our profession.

Jerry Yaffe, Social Committee Chairman announced that the annual dance will be held on May 11th at the Claremont Hotel in Berkeley. Tickets will be sent to each member. It should be an especially notable affair this year since it is Karl Guttman's birthday.

Al Scavino, Roster Committee Chairman announced that the 1968 Roster is at the printers and should be mailed about the 3rd week in February.

George Aronovsky announced that raffles will be sent to each member in an effort to help raise money for the Research Fund. Details will be included with the mailing.

Ken Lloyd announced that Engineer's Week will be held February 18th through the 24th. The banquet will be Tuesday, February 20th and the speaker will be Dr. Lester Breslow. His subject will be "Health, Tobacco and Engineers". ASHRAE will have its own table and reservations must be in by February 14th. Assemblyman John Knox will speak on our "Affluent Society - San Francisco's Waste" at a luncheon during that week.

A Nominating Committee consisting of Past Presidents Guttman, Simonson, Berrier, Gendler and Kniveton was elected and directed to come up with a proposed slate of officers for next year.

Dick Charles gave a brief description of this year's Spring Seminar which will be held from April 16th for six consecutive sessions through May 21st. The format for this year will be somewhat different with different speakers each night. Examples of the subject matter will be "thermostatic controls, refrigeration problems, final start up, etc."

Per Sonander, Program Chairman for the night introduced the speakers - Mr. Robert Stubbs, Product Supervisor for Automation Systems with Honeywell and Mr. Wayne Drake, a Pacific Coast Regional Engineer for Johnson Service. Their subject was "Computerized Temperature Control Systems". Mr. Stubbs was the first speaker and he discussed the basic computer components required for a complete temperature control system incorporating optimizing control. The four basic needs of a system of this type are: 1. Data gathering; 2. Display and processing; 3. Analysis; 4. Decision making and action taking. Automatic equipment can do a better job than human monitoring and the substitution of machine actions for man actions can provide important cost savings. Mr. Stubbs went on to describe some of the hardware and software now available for performing these functions.

The second speaker, Mr. Drake, concentrated on the economic aspects and cost justification for computer installations in commercial buildings. The speed of operation, ability to perform many calculations, the possibility of changing parameters based upon experience, data handling ability and reliability. A computer seldom makes small errors. It's either right or off 100%.

One must utilize many features of a computer in order to justify its costs. All parameters must be considered. The computer is capable of making the proper decisions only with proper input information. Optimizing the operating costs can be done by maintaining the highest possible cold duct settings and the lowest possible hot duct settings to still satisfy the indoor conditions; minimizing the use of building lighting; fresh air and return air damper settings are all important considerations in computer justification. The tremendous savings that can result from optimizing all the factors in a building must be weighed against the cost of installation and programming. Mr. Drake pointed out that the cost of programming certain savings can be higher than the cost of the saving itself.

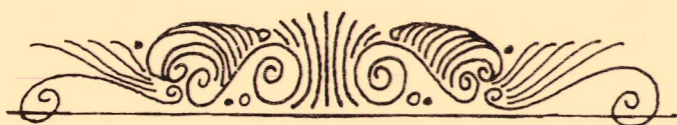
A lively question and answer period followed. Some members of the audience closely involved with computer development questioned the validity of the computer application described, based upon the limited present state of the art of software development. At present no optimizing systems are operational but a few are being installed. It was hoped that the experience and information gathered by these new systems will be made available to all interested parties in the profession. The possibility of having computers perform other functions in addition to temperature control and the problems of servicing the computer control systems were discussed.

The meeting adjourned at 10:10 p.m.

P.S. Treasurer Aronovsky reported current Chapter assets as \$3,309.04.



"Mr. H. S. Haley receives a special certificate from Arel Berrier on the celebration of the 50th Anniversary of Mr. Haley's membership of ASHRAE and its predecessor Societies. Arel is Chairman of the Honor and Awards Committee and travelled to the office of Mr. Haley who was unable to receive the award at our regular meeting."



MAY MADNESS IS COMING CLOSER



JOIN the FUN



GOLDEN GATE CHAPTER



ASHRAE

Volume XVII No. 5

April 1968

PROGRAM CHAIRMAN: BOB VOELZ

The next Chapter Gate Chapter meeting will be held at the ENGINEERS' CLUB, HONG KONG BANK BUILDING, corner of SANSOME and PINE STREETS, San Francisco, on April 4, 1968. Social hour will be at 5:30 p.m. and dinner at 6:45 p.m.

Father and Son Night
The Apollo Space Program
Program Chairman — Rudy Pribus

Dad, here is your chance to bring Junior out to one of our Chapter meetings to let him get acquainted with our profession. Who knows he may even decide to follow in the old man's footsteps after talking to a few of our more dedicated members.

Our topic for the April meeting should be of interest to you both. Mr. Bradford A. Evans from the Public Affairs Office at NASA Ames Laboratory will be our guest speaker and will talk to us about the Apollo Space Program. The talk will be complete with a film describing the program and we should get some comments on the environmental controls for the astronauts. All in all, it should prove to be an interesting and enlightening evening for us all. Bring your son and join the rest of us.

Annual Dinner—Dance!

In April we will be mailing invitations and tickets to all members' homes. The enthusiasm for this dance has been growing all the time and we are looking forward to a large turnout. We would like everybody to come and have a good time. This is the opportunity to let the wives share in our society and know that we have more in common than Btu's. If anybody has any suggestions or would like to help serve on the Special Events Committee, please contact Frank Lockwood, Ed Leedom or myself.

Gerry Yaffe

ASHRAE Seminar Changes Location

The Technical Development Seminar will be held at the Western Merchandise Mart, located at 1355 Market Street, between 9th and 10th Streets, in San Francisco. The meeting room is on the 9th floor in the FERN COURT.

ASHRAE Region X Conference

The ASHRAE Region X Conference will be held in Spokane, Washington on May 1, 2, 3 & 4 of 1968.

There will be a special Golf Tournament on May 1st. Anyone wishing to take FREE airplane rides over the Inland Empire, can do so on Wednesday all day and Thursday morning. There will be two planes and two very fine pilots available. Plan on coming early and get in on the fun, ladies are urged to attend.

HONOR ROLL

NORMAN S. WRIGHT & COMPANY

1015 Folsom Street

San Francisco, California 94103

Phone: 863-3321

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371-15th Avenue, San Francisco, California 94122. LO 6-2740.

OFFICERS AND BOARD OF GOVERNORS 1967-1968

Larry Shea _____ President
Robert Voelz _____ Vice President
Richard Friedman _____ Secretary
George Aronovsky _____ Treasurer

BOARD OF GOVERNORS

Irving Alger
Charles Hardeman
Arel Berrier

SEMINAR

This year it will be a "Technical Development Seminar" consisting of six meetings conducted by experts in the field of each topic. The subjects are based on common problems of heating, air conditioning and refrigeration as experienced in engineering and installation. The subjects chosen will be of interest to contractors and sales personnel as well as those in engineering and design.

The first seminar will be held Tuesday, April 16 from 7:00 p.m. to 10:00 p.m. and each succeeding Tuesday through May 21. The meetings will be held at the Western Merchandising Mart, 9th floor, in the Fern Court. The Mart is between 9th and 10th Streets at Market St., San Francisco. **

For additional information and registration, interested persons may contact Richard Charles at Charles and Braun, Consulting Engineers. His phone number is 434-2720.

Program

- April 16 "Electrical Engineering Principles As They Apply To HVAC Design and Construction". Beryl S. Segel of Levine and McCann, Consulting Engineers.
- April 23 "Review of State of California Safety Orders Pertaining to HVAC Design and Installation". A.I. Snyder and E.E. Carlton, Division of Industrial Safety.
- April 30 "Air Distribution - Basic Principles and Problems". Jack Kniveton, Norman S. Wright & Co. and Donald Delaney, G.J. Yamas Co.
- May 7 "Sound and Vibration Problems in Buildings". Warren Blazier of Bolt, Beranek and Neuman Inc.
- May 14 "Refrigeration Cycle Problems". Jerry Howarth of Kramer Trenton Co.
- May 21 "Controls". Edward Long of Honeywell.

These seminars not only benefit the individuals attending but also the HVAC industry as it gives ASHRAE money to research present problems, future standards, to improve upon present data, etc.

** This is a different address from that previously announced and has a seating capacity of 800. Let's have a full house.



President's Corner LARRY SHEA

Do you wear a white hat, or are you a G.O.Y.D.? This is the time of year to stand up and be counted like a man or to retreat and be a boy. I am referring to the questionnaire which has been sent out, asking for committee volunteers. We need an absolute minimum of eighty stout hearted men who will give our Chapter an injection to achieve the vitality that we need in our affairs.

Any group is like a body, and needs the active use of its many parts if it is to survive in good health. Should any major function fail because of disuse it becomes lethargic and shrinks up and dies. If we are to have the air conditioning industry become a meaningful contribution to our country the health of our Society at Chapter level must precede the health of our community as a whole.

In addition, each of us owes a debt. We grab for the dollar bills in our job related activities, and too many of us stop there. It reminds me of the dependent child who always has his hand out but never seeks to reach for responsibility or make a voluntary contribution to another's welfare. We receive our basic engineering information and continuing education from peripheral sources to which we do not contribute. One of the appropriate means by which a mature individual can discharge his obligation is by his contribution to Chapter activities. Help next year to be a better one than this by volunteering to assist Bob Voelz in executing the many functions of our Chapter. To paraphrase, "It is not what your Chapter or industry can do for you but what you can do for them". Please look at the questionnaire in this light.

Research Fund Raffle

Remember

- Don't miss your chance to win a COLOR TELEVISION among other valuable prizes.
. . . . Keep the checks and stubs coming in!
. . . . Be sure to send in stubs by April 15th deadline.
. . . . There will be an added prize for the most books sold.

The response has been great. . . . Keep it up and help support the Research Fund that helps you.

Send money and stubs and request for additional tickets to:

George N. Aronovsky
115 Fairway Drive
Daly City, California 94015
Phone: 755-8464

MINUTES — MARCH MEETING

The meeting was held at the Engineer's Club and was called to order by President Shea at 7:30 p.m. Self introduction of members and guests followed. The minutes of the February meeting were approved as published in the Fog Dispenser.

Treasurer Aronovsky reported the current Chapter assets to be \$2,974.07 as of February 29, 1968.

Larry Shea announced that San Diego was starting a new Chapter.

Jack Kniveton reported that the nominating committee consisting of himself, Tom Simonson, Arel Berrier, Gus Gendler and Larry Shea had come up with the following slate of officers: President Robert Voelz; Vice President Richard Friedman; Secretary George Aronovsky; Treasurer Irving Alger; Board Member Charles Hardeman; new Board Member Lou Pollack. Nominations from the floor were open. It was moved, seconded and approved that nominations be closed. Ballots will be submitted to all Chapter members so that a tally can be reported at out next Chapter meeting.

President Shea appointed a Teller's Committee consisting of Ralph Wallace, Charles Hardin and Ross Scherill to tally the votes for Officers next month.

Jerry Yaffe, social committee chairman reported that all arrangements have been completed for the Spring Social to be held May 11th at the Claremont Hotel. He urged all members to turn out in order to make this a most successful and enjoyable event. Tickets will be sent to each member's home.

Sheldon Doolittle of the Sacramento Chapter announced that their dance will be held June 8 at the El Macero Club in Sacramento. He cordially invited all Golden Gate members to attend.

Roger Chesbro announced that the Cal Poly Workshop Fund mailings will be going out within the next month. He urged all members to donate generously to this most worthwhile fund.

George Aronovsky announced that the National ASHRAE Research Fund Raffle sales were going well.

Dick Charles announced that the arrangements have been completed for the Spring Technical Development Seminar. The proceeds for this event will be given to the National ASHRAE Research Fund. There will be six sessions held on Consecutive Tuesday nights starting April 16.

The meeting place will be the Pacific Telephone and Telegraph Cafeteria located at 66 Folsom Street, San Francisco. The fee will be \$20.00 per person.

Shea announced that this year's questionnaire will be sent out earlier than usual in order to facilitate a smooth changeover of Officers. The Chapter needs at least eighty volunteers to work on committees for them to function effectively. All members were urged to actively participate.

Program Committee Chairman, Bob Voelz then introduced the Speaker for the evening -- Mr. Maurice J. Wilson, director of Marketing Development for Carrier Air Conditioning Company.

Mr. Wilson's subject was "Central Chilled Water Plants". Mr. Wilson's talk was based on analysis of 22 operating Central Chilled Water Plants with complete cost data information. Special emphasis was given to the application of Central Chilled Water Systems for colleges and universities. The results of the aforementioned analysis have been published by the Carrier Corporation under the title of "Campus Revolution". Mr. Wilson foresees the need for larger equipment in the range of 30,000 to 50,000 ton plants. At present educational facilities are the largest market for Central Chilling in the country. Mr. Wilson reviewed the information necessary for a Consulting Engineer to properly prepare and plan a Central Chiller Plant. He discussed in depth; daily and yearly demand load profiles, flow rate versus break horsepower requirements and other engineering data necessary for proper selection of equipment. He discussed the economics of the initial investment and discussed such systems as centrifugal electric drive in parallel and in series, combination centrifugal and absorption systems in parallel and in series, centrifugal-condensing turbine drives, centrifugals with gas engine prime mover plus absorption utilizing recovered heat. Mr. Wilson then discussed the economics of operating costs and stressed the importance of proper direction by the Consulting Engineer for the Operating Engineer in order to utilize the proper sequencing of his equipment for the most economical operation.

A lively question and answer period followed Mr. Wilson's talk and the meeting was adjourned at 9:50 p.m.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o COMBUSTION UTILITIES, INC.
1485 Bayshore Blvd.
San Francisco, California 94124
Phone: 467-9076

BERKELEY POLICE CONCERNED ABOUT
"MAY MADNESS"

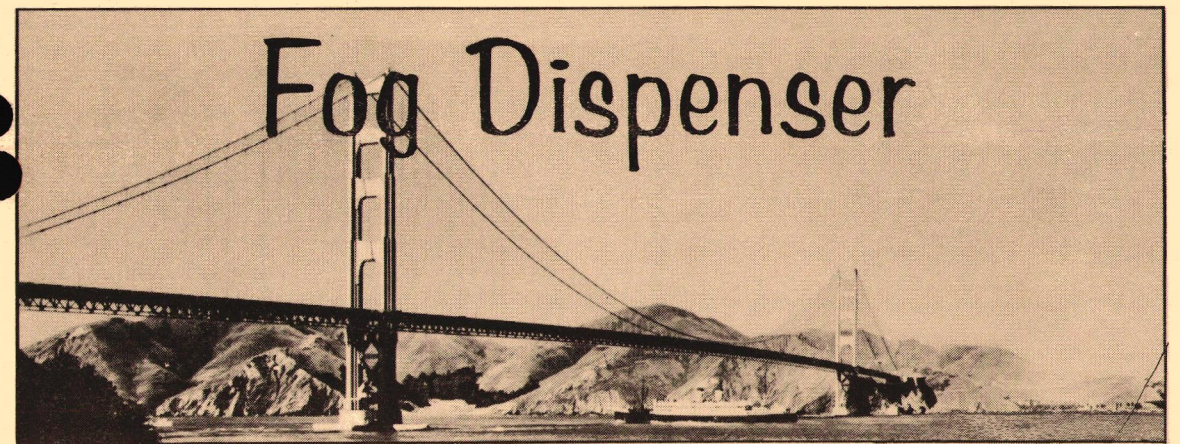
The Berkeley City Council will meet in a special emergency session to discuss the serious situation that confronts the city on May 11th. The Chief of Police has reported that additional policemen will be required to handle the HUGE CROWDS expected in Berkeley at the A.S.H.R.A.E. DANCE on that night. The City Council will consider what steps to be taken, since it is well known that the engineers do not get out very much to attend socials together and it is feared that they might want to have a good time at the City's expense. Rumors have been circulating that the eight piece band will only be allowed to play waltzes. The Claremont Hotel Manager fears that the old part of the building may not stand up to the strain of this wild group and has asked for a team of consultants be flown in from Walnut Creek to review the structure.

Another rumor circulating in the East Bay is, that the Carload of Beef ordered from the Chicago Stockyards will never reach the Hotel. A special group of University of California Deserters, who are vegetarians has threatened to hijack the shipment. The Board of Directors of the Golden Gate Chapter has tried to alleviate the many rumors and fears by promising to maintain control of those old timers who are known to be trouble makers. Without mentioning names in their statement, they have indicated that a special committee will be formed to appoint a committee who will select several people to serve on the committee. If they are not successful in this, they will ask for volunteers who will then appoint a special committee to determine how this situation will be handled. In any respect everybody seemed to be happy that a firm plan had been formulated.

A Berkeley Barb reporter has learned from a special paid informer that the Social Committee has secret plans formulated to provide all newspaper stands, bookie joints, pool parlors, and saloons with enough tickets to assure that all members, friends and strangers can get tickets if they need them. The biggest problem appears that the Governor would not approve of "Withholding" and most people are waiting till the last minute to send in their money. The Social Committee has made plans to make a special appeal on all of the local TV Stations on the night of May 5th, to urge people to send in their checks.

Let's all get together and have a good time.

Gerry Yaffe



GOLDEN GATE CHAPTER



ASHRAE

Volume XVII No. 6

May 1968

PROGRAM CHAIRMAN - MAK TAKAHASHI

The Alcoa Office Building has now been in operation for approximately ten months and its management has invited our Chapter to tour their mechanical facilities for this year's field trip. Mr. Mak Takahashi, Head of SOM's Heating and Air Conditioning Department, will provide those in attendance with a few of the pertinent facts and figures regarding the design, cost, advantages and problems incurred in installing the building air conditioning system. After Mr. Takahashi's short resume, the building mechanical spaces, a typical finished space and a typical unfinished area will be open for inspection by the membership. Guides will be furnished in each of the areas to answer questions that may arise when you see the installations.

The next Golden Gate Chapter meeting will be held at LONGLEY'S RESTAURANT, WEST END OF THE ALCOA BUILDING PLAZA, between WASHINGTON AND CLAY STREETS AT BATTERY STREET, San Francisco on June 6, 1968. Social hour will be at 5:45 p.m. and dinner at 6:45 p.m. Note there will be NO MAY BUSINESS MEETING but be sure to attend the DINNER-DANCE on May 11.

*May
Madness
is
here*

The invitations have been put in the mail and the returns are coming in slowly. In order to complete our final plans and to tell the cook how many are coming, we need your check now!

Gerry Yaffe

HONOR ROLL

COMBUSTION UTILITIES INC.

1485 Bayshore Blvd.

San Francisco, California 94124

Phone: 467-9076

Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371-15th Avenue, San Francisco, California 94122. LO 6-2740.

OFFICERS AND BOARD OF GOVERNORS 1967-1968

Larry Shea _____ President
Robert Voelz _____ Vice President
Richard Friedman _____ Secretary
George Aronovsky _____ Treasurer

BOARD OF GOVERNORS

Irving Alger
Charles Hardeman
Arel Berrier

DEPARTMENT OF PUBLIC WORKS

April 18, 1968

ASHRAE Golden Gate Chapter
Code Committee

Mr. Lawrence Shea
Shea Equipment Company
182 Second Street
San Francisco, California 94105

Dear Mr. Shea:

I wish to offer my appreciation to the ASHRAE Golden Gate Chapter Code Committee for assisting us in the preparation of the mechanical portion of the proposed Building Code. Your "crash program" was of material assistance to us. I would hope that in the longer period afforded for the review of subsequent drafts we might further work together to improve this mechanical portion of the code.

I know that a modern mechanical code would be of assistance not only to this Bureau and the City but to the professions represented by ASHRAE.

Very truly yours,

Alfred Goldberg

Alfred Goldberg,
Superintendent
Bur. of Building Insp.



As someone once said "tempus fugit" and it sure has fugited this year. We find ourselves drawing to a close of ASHRAE activities in the formal sense, and I want to thank all of the committee chairmen and committeemen who have made this a productive year. It certainly has been an educational one for me, and I have learned the truth of the old saying that you only get out of things that which you put into them.

Any Chapter is only as vital as its members, and we have great work ahead to challenge us all. I trust that the future officers of our Chapter will be blessed with the interest and enthusiasm which the members have afforded me this year. Please remember that although our formal activities end in June there is year-round work to be done and we hope to see many of you on committee activities during the summer.

TECHNICAL SEMINAR

The 1968 Heating and Air Conditioning Technical Development Seminar is off to a great start. Two hundred and fifty people have now enrolled, and the response from those in attendance at the first sessions certainly indicates the acceptance of the material which is being presented. It is still not too late for those who missed the first two sessions to attend the remainder of the seminar, which in itself would be well worth the \$20 contribution to the ASHRAE Research Fund. Please remember that the location has been changed to the Western Merchandise Mart, Fern Court, 9th Floor, 1355 Market Street, and the sessions are each Tuesday evening from 7 to 10 PM through the 21st of May.

Richard Charles

ASHRAE Research Fund Raffle

Due to the tremendous (& gratifying) interest shown by the membership towards this drive, the deadline for turning in the stubs & checks is extended to date of drawing—May 11, 1968, Claremont Hotel, Berkeley at the "May—Madness" Dinner—Dance. Checks and stubs should be sent to:

George N. Aronovsky
115 Fairway Drive
Daly City, California 94015
Phone: 755-8464

Additional tickets can be obtained from

Clyde Wilson-Reid
920 Grayson Street
Berkeley, California 94710
Phone: 845-6130

MINUTES - MAY MEETING

The meeting was held at the Engineer's Club and was called to order by President Shea at 7:45 P.M. This was an especially notable evening since it was the first Father and Son Night which ASHRAE has ever had. Self introduction of members and guests followed. The minutes of the March meeting were approved as published in the Fog Dispenser. Ross Sherrill of the Teller's Committee reported that the votes had been tabulated and the Officers for the coming year would be Robert Voelz, President; Dick Friedman, Vice President; George Aronovsky, Secretary; Irving Alger, Treasurer and Past President Shea, Charles Hardeman and Lew Pollock would serve on the Board of Governors.

Frank Lockwood of the Dance Committee reported on the current progress of the arrangements for the May 11th dance. It will be held at the Churchill Room of the Claremont Hotel. The room has a lovely view with excellent parking facilities at the hotel and he assured us there would be good food, good band and good fellowship at \$23.50 per couple. He urged all the members to attend.

George Aronovsky reported that the raffle returns had been gratifying and reminded everyone not to forget to turn in his stubs. He reported the Research Raffle Drawing would be at the dance on May 11th - - not at the Engineer's Club.

Dick Charles, Chairman of the Seminar Committee noted that the meeting place had been changed to Merchandising Mart. There are already 150 people who have signed up for the Seminar. Student Chapter Members will be invited free of charge.

Voelz urged all members to respond to a questionnaire sent out for committee volunteers.

Dick Friedman introduced Associate Professor Rod Keif of the Air Conditioning Department at Cal Poly. Keif noted that the name of the Air Conditioning Department would be changed next year to the Environmental Design Department with the old curriculum plus some new course work on air pollution. At present there are 119 students in the department. He spoke of the current activities at the school and thanked the members for their generous donations to the ASHRAE Cal Poly Workshop Program.

Bob Voelz announced that the next meeting would be held at the Alcoa Building. We will have dinner at the cafeteria followed by a tour of the building.

Rudy Pribuss, Program Chairman for the evening introduced speaker Mr. Garth Hull of the National

Aeronautics Space Administration Information Office. His subject was the Apollo Space Program. The talk was very timely in that earlier this morning a Saturn Space Shot had been sent up from Cape Kennedy. Mr. Hull briefly discussed the problems with this morning's space shot and noted that NASA hopes to land a man on the moon during this decade. Today's shot was made with the rocket which will be used.

Mr. Hull next described the construction of the rocket. The first two stages separate in flight from the payload after they have burned out. One of the research projects going on at the present time is to try to find ways to utilize and/or save the burned out stages. The third stage is of particular interest and NASA has hopes of placing men in orbit for up to 45 days to do research work in the third stage section while attached to the payload. The payload itself consists of three parts - a lunar module, a service module and the command module. The total height of the three stages and the payload is 360 feet, equal to a 36 story office building.

Some of the accomplishments of manned flight to date have been to learn that man can do the job required of him in space and thereby developed Pilot Space Craft. From the Gemini Program it was learned that man can be kept in space for at least two weeks and that one capsule can be put in orbit and that a second one can rendezvous and dock with this first one which was an essential step for further space exploration.

Mr. Hull briefly discussed Environmental Control of the space cabin. The service module provides oxygen, water, electric and other necessary facilities. The temperature within the capsule and within the suit are both controlled. Odors are eliminated by chemical means and waste products for the most part are vented overboard. Mr. Hull then showed a film of the November 9th, 1967 Apollo 4 shot. He noted that this is only the beginning and before very long there would be a Moon Station and it is conceivable that during the life time of the young people in the audience trips to Mars would be achieved.

A lively question and answer period followed and the meeting was adjourned at 9:55 PM.

MAIL OR PHONE NEWS TO:

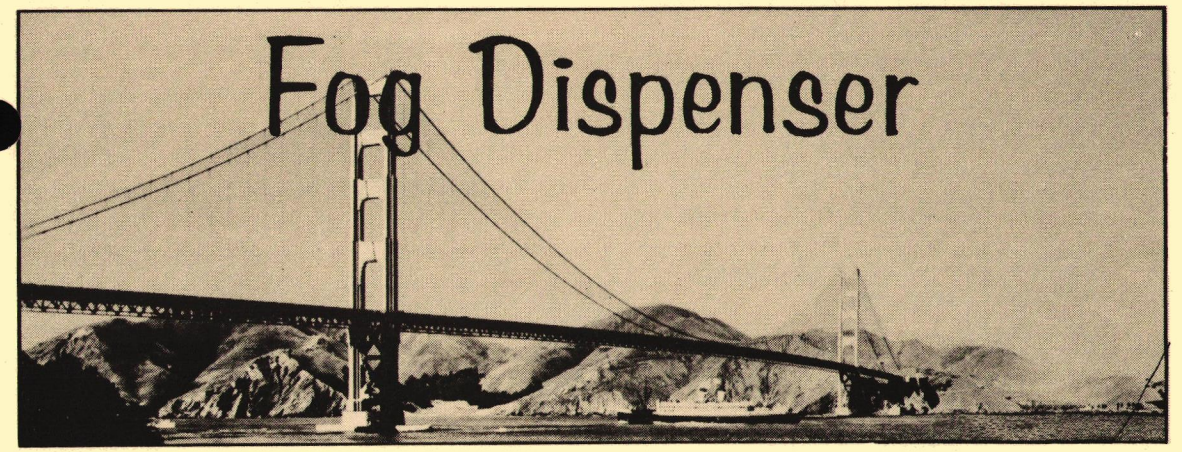
Editor, Fog Dispenser
c/o COMBUSTION UTILITIES, INC.
1485 Bayshore Blvd.
San Francisco, California 94124
Phone: 467-9076

Bill Hancock
 J. A. Attard
 T. E. Brewer
 Phil Freeman
 Frank Olsen
 Andy Feiner
 Leo Dwyer
 Walter H. Schneider
 Tom Gilbertson
 Grant Wong
 Philip Wong
 Roger Lefler
 Rudy Pribuss
 Tony S. Miguel, Jr.
 Phil Raglen
 Paul Basye
 John Rudy
 Richard Jcheunert
 L. E. Shea
 Irving Alger
 Robert Voelz
 David Rickelton
 E. C. Cooley, Jr.
 George N. Aronovsky
 Dickie Friedman
 R. W. Castner
 Bill Holt
 Gene Valerio
 Ed C. Leedom
 Roger Chesebro
 Bill Baker
 Jim Witharm
 Joe Bech
 Barry Fitzgerald
 Glenn Mantoani
 Mark Barger
 John Castle
 Bob Tuck
 A. A. Gonzales
 Karl Baldwin
 John Poucher
 Dick Byers
 Mike Grimes
 Lowell Young
 Gene DeWree
 E. Gene Logan
 W. F. McClellan
 Chuck McLaughlin
 Miles Suda

P.G. & E.
 Calif. Hydronics Corp.
 Calif. Hydronics Corp.
 Western Air Cond. Expo '70
 Frank Olsen Co.
 Tempco Equip. Co., Inc.
 Ralston & Dwyer
 Walter H. Schneider, Con. Engr.
 Johnson Service
 Gayner Engineers
 Gayner Engineers
 Gayner Engineers
 Pribuss Engr. Inc.
 City College of S.F.
 C.I.R. CO Inc.
 C.I.R. CO Inc.
 Johnson Service
 Skidmore, Owings & Merrill
 Shea Equip. Co.
 G.M. & T.R. Simonson
 Skidmore, Owings & Merrill
 Buensod, Div. Aeronca
 E. C. Cooley Co.
 George Aronovsky & Assoc.
 Engineered Air
 York Div. Borg Warner
 Challenge Equip. Co.
 Edward B. Ward & Co.
 Air Filter Sales & Serv.
 Fraser & Johnston
 McQuay
 Fraser & Johnston
 Atlas Heating
 Johnson Service Co.
 Johnson Service Co.
 Atlas Heating
 Kaiser Engineers
 Tuttle & Bailey
 Key Air
 Ramsey & Assoc.
 Wm. A. Barron Co.
 Norman S. Wright & Co.
 Norman S. Wright & Co.
 Valley Sheet Metal
 Associated Process Cont.
 L & H Inc.
 W. F. Farmer Co.
 American Standard
 Gendler & Martineau

Howard Friesen
 Helmat Sommer
 Dart Rinefort
 Don McLeod
 Don Dickson
 Harley Driessen
 Allan Gray
 Bob Caughey
 Mike Bekedam
 Bob Phillips
 Jim Williams
 George V. Kaunoff
 Arel Berrier
 F. J. Labarta
 Don Bradshaw
 A. L. Mudica
 W. F. Berry
 K. Guttman
 R. M. Koch
 John E. Callovette
 Art Ciapponi
 Mike Reichlin
 Karl Tulp
 Mike Savage
 Lu Bedard
 Bob Swezey
 Perry Gujhal
 John Hightam
 Jack Bolat
 J. W. Lazor
 F. Wegener
 M. T. Cory
 Carl Landers
 Fred Vann
 Stephen M. Sprague
 Richard M. Farrell
 Robert Braun
 Richard A. Charles
 Dave Hair
 I. J. Sprott
 Keith Lescure
 Alan Shadgett
 Jos. E. Murray
 Irving Alger
 R. H. Judd
 Sheldon Doolittle
 David L. Weaver
 R. W. Noll
 Sam Yamauchi

Barber-Coleman
 Kasin, Guttman & Assoc.
 Carrier
 Simpson Stratta & Assoc.
 Hess, Greinger & Polland
 Keller & Gannon
 Recold Div. Borg Warner
 Keller & Gannon
 Industrial Steam
 Low & Phillips
 Industrial Steam
 Reid & Tarics, Arch.
 Berrier Sales Co.
 Owens Corning
 Corning Fiberglass
 Hess, Greiner & Polland
 Marelich Mfg. Co.
 Kasin & Guttman & Assoc.
 Callovette & Assoc.
 Callovette & Assoc.
 Pacific Pumping Co.
 Pacific Pumping Co.
 Edw. B. Ward Co.
 Quality Air
 Skidmore, Owings & Merrill
 Burke & Co.
 Skidmore, Owings & Merrill
 Guy F. Atkinson Co.
 American Air Filter
 Edward B. Ward & Co.
 Trane
 Vann Engineering Corp.
 Trane Co.
 Vann Engineering
 Charles & Braun
 Carrier A.C.
 Charles & Braun
 Charles & Braun
 Ray Oil Burner
 Norman S. Wright
 Westinghouse
 Jos. E. Murray & Assoc.
 G.M. & T.R. Simonson
 Montgomery & Roberts
 Control Instrument
 Johnson Service Co.
 National Air Balance
 G. L. Gendler & Assoc.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII - No. 2

NOVEMBER 1968

PROGRAM CHAIRMAN: JACK PALMER

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, November 7, 1968. Social hour will be at 5:30 p.m. and dinner at 7:45 p.m.

SUBJECT: COOLING TOWER PIPING AND PUMPING

Our Speaker will be Gilbert F. Carlson, Director of Technical Services for Bell & Gossett. Mr. Carlson intends to concentrate on three main discussional areas; (1) Pump head selection (a misunderstood and often over-simplified subject). (2) N.P.S.H. and (3) Tower by-pass problems. The Speaker's remarks will be directed primarily towards the Design Engineer in the Consultant's office. Knowing Mr. Carlson and having heard him speak before, his comments should be of interest to everyone in the industry.

NOVEMBER WORKSHOP

Chairman: Gene DeWree

The November Workshop topic is "Registered Engineers - State Board Requirements." This is your opportunity to hear directly how to become a registered engineer in the State of California. This is something every member should be familiar with and strive to achieve as part of his professional development.

The panel members will be Arthur Flaherty, Chairman of the State Board; Harold Strauss, head of the mechanical section of the State Board; and Dr. Wilson of the University of California. They will make a short presentation and be in a position to answer questions and discuss in detail the requirements to become a registered engineer in the State of California.

The session will start promptly at 5:30 p.m.

HONOR ROLL

THE TRANE COMPANY

1485 Bayshore Boulevard

San Francisco, California

Phone: 467-3751

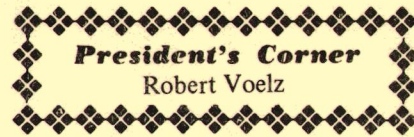
Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371 - 15th Avenue, San Francisco, California 94122. LO 6-2740.

**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
Lou Pollock
Larry Shea



For those of you who haven't sent your checks in as yet, YOUR DUES ARE DUE!! After our next meeting (November 7), our special summer rate of \$9.75 will be withdrawn and the price of dues will revert to \$10.50 for the remainder of the year. In addition, the Roster Committee will be getting started on their preparation of the 1968-69 Roster of Chapter Members with listings closing not later than December 1. If you want to have your name and address and that of your company's included in this year's Roster, and also to take advantage of our reduced dues rate, get your check off immediately to GOLDEN GATE CHAPTER ASHRAE, 1371 - 15th Avenue, San Francisco. If not that way, bring your check with you to the November Meeting and see that one of the Board Members gets it.

John Rudy, our new Membership Chairman, will be launching a drive for new members in the very near future and I'm sure that any assistance that our membership can give to John and his committee will be greatly appreciated. Unfortunately, there are entirely too many perennial meeting guests and other individuals who use ASHRAE's technical information in their day to day work who should be, but for some reason, are not members of our organization. If you know of any such individuals, please let John know too and hopefully, we can get them as new members before the year is over.

During our last Chapter meeting, several comments were made from the floor regarding the disbursement of our Cal Poly Workshop money by the Fund's Administration at Cal Poly. At the meeting we indicated that your current Board of Governors would review our working agreement with Cal Poly and report the findings back to the membership. For the enlightenment of our newer members and the refreshment of a few memories of our older members, our agreement with Cal Poly currently requires our Chapter to make funds available on a yearly basis in amounts not less than \$500 per year. These funds will be disbursed to students who are specifically enrolled in the Environmental Engineering Department and who are residents of one of the nine Bay Area Counties. Furthermore, the money is not just given to eligible students as is the case with most scholarship funds, but is instead paid to the students on an hourly basis throughout the year, based upon extra work that they are required to perform. This extra work may include such tasks as the design, construction, instrumentation and testing of laboratory experiments in Air Conditioning, Refrigeration or Air Pollution. Usually the work is not only a help to the individual doing it, but also to others who will reuse the experiments after they are completed. Personally, I feel our money is being well spent, but I would appreciate specific comments from any interested members before the Board finalizes its report for the membership. Let's hear from you now and we'll see what can be done.

MINUTES - OCTOBER MEETING

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

The minutes were approved as published in the Fog Dispenser.

President Voelz made reference to the coming 1970 Exposition to be held in San Francisco and called upon Tom Brewer and Phillip R. Freeman (General Chairman) of the Western Air Conditioning Exposition to say a few words about same. The members and guests were asked to help to get various companies to exhibit at the Exposition in January 19-22, 1970. All were asked to provide names of exhibitors by filling out the form provided for this purpose. Mr. Freeman said the show would be the largest ever to be held on the West Coast and was looking forward to a tremendous show. It was pointed out that the National ASHRAE was not sponsoring the show because of a prior commitment. ASHRAE will hold, though, the semi-annual meeting in San Francisco during this period of the show.

Under old business, Mr. Bill Barron, gave the Audit Report. He mentioned as follows: the Chapter's assets, as of June 30, 1968 consisted of

Commercial Account	**\$1,070.82
Savings Account	\$1,706.14
Savings Account, Workshop	\$ 863.72
Savings Account, Research Fund	<u>\$2,109.01</u>
Total	\$5,749.69

**this included \$659.50 of the Workshop Fund received in 1968.

Karl Gutmann made a report to the membership of the problems he encountered in presenting Golden Gate Chapter's check in the amount of \$3,000.00 toward the National Research Fund at the annual meeting held recently at Lake Placid.

Larry Shea reported on the progress and status of the San Francisco Code Revisions. Shea indicated much progress was made, reasonable deviations will be permitted with submittal of substantiating data, relaxed fire damper requirements, garage exhaust requirements were relaxed, changes were made to the hot water radiant panel heating requirements to permit the sensible relationship between engineering requirements and installation methods, changes were made in the Vents & Venting, Combustion Air, Pressure Vessels Boilers, special exhaust systems (Section 5130G) sections. Smoke Detection requirements are still not fully resolved. Shea requested interested parties to appear and offer their comments at the hearings to be held on October 8 at City Hall.

Andy Finer announced the San Jose Chapter will be having a Golf Tournament on October 18 to which the San Francisco Chapter was invited.

Eugene De Wree, Technical Committee Chairman announced the next Workshop Meeting would be about the Engineers In Training (EIT) exam. California State Board members would be present.

Dick Friedman announced the speaker for the next Regular Meeting will be Gil Carlson of B&G who will give a talk on Cooling Tower Piping, etc. Dick also mentioned the Board would take up the question of Workshop requirements at the next Board Meeting with the view of reviewing the whole program. Arrived at recommendations will be presented to the Membership for approval.

The guest speaker for the evening was Dave Rickelton of the Buensod Division, Aronca, Inc. Dick Friedman introduced the speaker who proceeded to talk on high and low velocity mixing boxes and their application. He touched lightly on variable air volume boxes. The presentation was interesting and basic. A question and answer period followed the presentation.

The meeting adjourned at 9:45 p.m.

NAME	AFFILIATION
Clyde Wilson Reid	Clyde Equipment Co.
Brian Hbrey	Charles & Braun
Dan Kramer	Charles & Braun
Tom Douglass	Douglass Insulation
Ernesto Velando	Shea Equipment
Pete Knezevich	Combustion Utilities
Tom Higashioica	Higash Assoc.
Ken Lloyd	Barber Colman
Pat Geis	Engineered Air
Mohammad Nematzadch	Engineered Air
Jack Pfenninger	Skidmore, Owings & Merrill
Dick Porter	Powers Regulator Co.
E. Carrier	Gerck
Eugene Bettencourt	York
John DeJesus	York
Fred B. McCracken	
Alfred R. Lowey	Chrysler Corp.
J.C. Parsons	Pacific Telephone
Al West	Colan Heating
R.F. Giovannini	Buffalow Mech.
Robert Hituck	
Richard E. Gee	Hiroshi, Yahagi
K.B. Fitz	
Charles E. Gorwood	
Roger T. Lefler	City College of S.F.
Dan McArthur	Triangle Designs
Edmund Popp	City College of S.F.
D. C. Bryant	Rinco Eng. - A.M. Cooke
Jim Dana	City College of S.F.
James Lambson	City College of S.F.
Robert J. Holt	Gayner Engineers
Duane M. Hanson	Pacific Telephone Co.
James Parsons	Pacific Telephone Co.
Robert McGregor	The Brose Co.
John Brose	American Blower
Tom White	I L G
Steven Johnson	Joy Mfg.
Pat Lang	Natkin & Co.
Leo Pumphy	Honeywell
Al Lucas	Honeywell
Edward Long	Bentley Engineers
Frank Gonden	Vann Engineering
Bob Lincoln	Vann Engineering
Marlim Whitney	N. S. Wright
Keith Lescurc	Skidmore, Owings & Merrill
Per Sonander	York Div. of Borg Warner
John A. Lord	Challenge Equip. Co.
Bill Holt	Alio Controls
Gerry Roth	Wm. Barron Co.
Bill Barron	C. S. Hardeman, Inc.
C. S. Hardeman	Rogers Engr. Co.
D. H. Fujioka	Rogers Engr. Co.
H. Deady	Rauch & Monroe
Lawren N. Banker	Rauch & Monroe
Jess Rauch	G. L. Gendler & Assoc.
E. B. Miloszewski	G. L. Gendler & Assoc.
Carl H. Jordan	G. L. Gendler & Assoc.
Per Averling	Dill & Sederberg
Max Wolff	E. C. Cooley Co.
John Larson	East Bay Water
John Larson	Oak School Dept.
Frank Lockwood	P.G. & E.
Don Levensalen	

PLACEMENT SECTION

The officers and directors of the Golden Gate ASHRAE Chapter have ruled that the "Fog Dispenser" can accept advertisements for Personnel Placement. The cost of this advertising will be \$10.00 per column inch or fraction thereof, for each issue of the "Fog Dispenser". Advertising will be run in two columns "Positions Available" and "Positions Desired". If you desire to run such advertising please contact Tom Gilbertson at UN 1-6353.

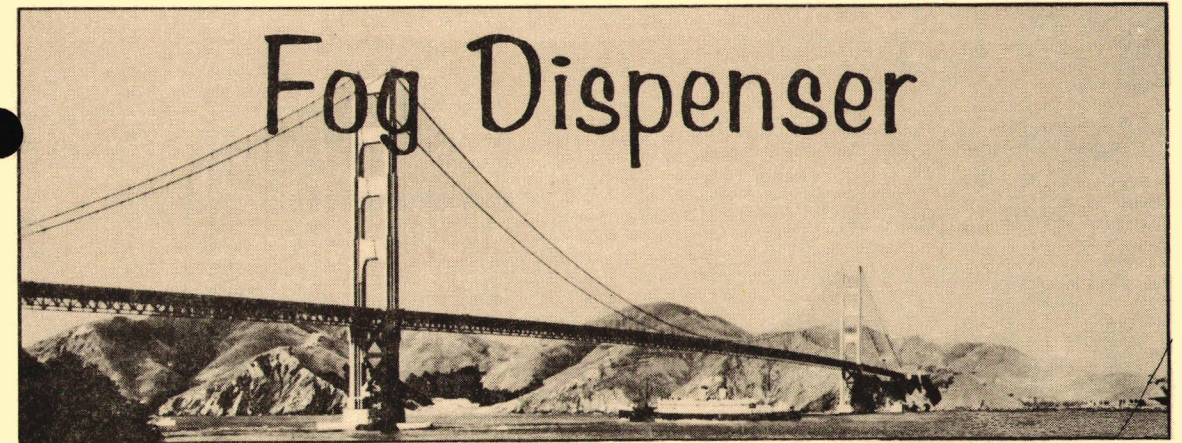
MAIL OR PHONE NEWS TO:

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

R.L. Herman	Bechtel	Carson Woo
W.B. Tibb	Bechtel	Dan Kramer
Richard E. Gee	Bechtel	G. Cleucelco
F.M. Palacios	P.O. Dept. Eng. Br.	Dick Charles
Ed Collins	Safeway Stores	Ray A. Skoven
Bob Phillips	Low & Phillips	Jim Witharm
Harold E. Deady	Rogers Eng.	R.F. Giovannini
Weiley Hsia	Bentley Eng.	Jack A. Palmer
Karl Guttman	Kasin, Guttman & Assoc.	Lewis S. Pollock
Dave Williams	Self	H.H. Grundfor
Ray Brown	Cal Poly	Gene Logan
John Hemingway	Cal Poly	W.F. McClellan
Al West	Colan Heating	Bob English
Ken Lloyd	Barber-Colman	F.J. (Pancho) Labarta
Steven Sugame	Cal Poly	Robert L. Warren
Arel Berrier	Berrier Sales	Ory Gruber
Bert Coddington	Coddington Co.	
Chuck Kopf	Robert-Shaw	
Howard "Bud" Dauphinee	Jenkins Valve Co.	
Frank Olson	Frank Olson Co.	
Leo Dwyer	Ralston & Dwyer Co.	
Max Wolff	Dill & Sederberg	
Keith Lescure	M.S. Wright	
Frank Gordon	Bentley Eng.	
Gene DeWree	Assoc. Process Controls	
D.G. Burr	Grinnell Co.	
Mike Grimes	N.S. Wright Co.	
Art Cipponi	Pacific Pumping Co.	
Mike Reichlin	Pacific Pumping Co.	
R.H. Judd	Montgomery & Roberts	
Gene Valerio	E.B. Ward & Co.	
Rudy Pribuss	Pribuss Eng., Inc.	
James Parsons	Pacific Telephone	
D.C. Bryant	City College of S.F.	
B.K. Tow	West Div. U.S. Navy	
D. Hanson	Gayner Engrs.	
R. Lefler	Gayner Engrs.	
Henry A. Wolfson	Eagleson Engineers	
John E. Werner	Trane Co.	
M. Whitney	Vann Engineering	
Jim Breese	C.A. Gillet Co.	
Charles E. Gorwood	Keller & Gannon	
Thomas E. Brewer	Calif. Hydronics	
Dick Friedman	Engineered Air	
Robert Voelz	Skidmore Owings & Merrill	
Andy Feiner	Tempco Equipment	
Bruce Meyer	Wm. Brobeck & Assoc.	
Don Levensalen	PG&E	
Roy L. Formby	PG&E	
E. Carrier	Garritson, Elmenderf & Klein	
Sev Mersted	Fred W. Berger, Jr.	
George N. Aronovsky	Geo. Aronovsky & Assoc.	
Irving Alger	G.M. Simonson & T.R.	
Larry Shea	Shea Equipment	
Kim Schneider	Cal Poly	
Glen Manticue	Johnson Service Co.	
John Rudy	Johnson Service Co.	
Claus Speier	Northstate Distr. Co.	
R.W. Castner	York Div. Borg Warner	
Bill Barron	Wm. A. Barron Co.	
Clyde Reid	Clyde Equipment	
H. Aronson	Dole Valve Co.	
Bill Hancock	PG&E	
Karl Baldwin	Ransley & Assoc.	
Gus Gendler	G.L. Gendler & Assoc.	
J.A. Attard	California Hydronics	
Lowell Young	Valley Sheet Metal	
Chuck McLaughlin	American Standard	
Marvin K. Linsly, Jr.	Bentley Eng.	
Bob Mills	University Mech.	
Donald Dickson	HA & P	
Walt Gamble	Robertshaw	
Dick Dundas	Robertshaw	
Jim Van Buskirk	A.O. Smith Corp.	

GUESTS

Charles & Braun	Hess, Greiner & Pollart
Charles & Braun	Republicans
Fraser & Johnston	Cal Poly
Charles & Braun	Carrier A.C.
Colling & Heating Eng.	Perry Guyral
Kraser & Johnston	Skidmore Owings & Merrill
	University Mech.
Calif. Hydronics Corp.	Simpson Stratta & Assoc.
Trane Co.	Simpson Stratta & Assoc.
Barber-Colman	Quality Air Cond.
L & H Inc.	Buffalow Refrig.
W.F. Farmer	Sporlan Valve Co.
Independent Air Bal.	Cal-Air Alumnus
Owens Corning	Vann Engineering
Tempco Equipment	Vann Engineering
Charles & Braun	Owens Corning Fiberglas
	Keller & Gannon
	USF
	Wife of Gil Carlson
	United Air Lines
	Hess, Greiner & Pollart
	York Div. Borg Warner
	Fred W. Berger, Jr.
	Bentley Eng.
	Bentley Eng.
	Quality Air Cond.
	Calif. Hydronics
	Calif. Hydronics
	Griswold Controls
	Bentley Engineers
	Rogers Engr. Co.
	Rauch & Monroe
	Rauch & Monroe
	Student - Cal Poly
	Safeway Stores
	Rogers Eng. Co.
	Bolt, Beraner & Newman
	Coddington Co.
	Ralston & Dwyer
	Owens Corning Fiberglas
	Calif. Polytechnic Col.
	Cal Poly
	Cal Poly
	Cal Poly
	Higash Assoc.
	Cal Poly
	Cal Poly
	Cal Poly
	Cal Poly
	Weather Systems
	Quality A.C.
	Grinnell Co.
	Cal Poly
	Del Monte Corp.
	Cal Poly
	West Div. U.S. Navy
	Powers Regulator Co.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII - No. 3

DECEMBER 1968

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, December 5, 1968. Social hour will be at 5:30 and dinner at 6:45 PM.

SUBJECT: PROFESSIONAL LIABILITY - "THE ACHILLES' HEEL OF THE MECHANICAL CONSULTING ENGINEER".

Our speaker will be Joseph A. McQuillan, a registered Professional Engineer and Attorney-at-Law. Mr. McQuillan's educational and employment experience background include a BS in Mechanical Engineering, sixteen years as a Consulting Mechanical Engineer and he is presently serving as a Risk Analyst with the firm of Risk Analysis and Research Corporation of San Francisco. Mr. McQuillan maintains membership in ASHRAE and in the San Francisco Bar Association. His experience makes him eminently qualified to talk on this subject.

DECEMBER WORKSHOP

Chairman: Gene DeWree

The December Workshop topic is "Use and Care of the ASHRAE Guide". This is your opportunity to become more familiar with the current series of ASHRAE Guides.

The panel members will be: Thomas C. Campbell of Owens-Corning Fiberglass Corporation; John Werner of The Trane Company; and Frank Gonden, Chief Engineer with Bentley Engineers. They will make a short presentation of the specific sections of the Guide, showing current usages and other tools available to assist the engineer.

The session starts promptly at 5:30 p.m.

HONOR ROLL

THE SCOTT COMPANY

1919 Market Street

Oakland, California

Phone: TE4-2333

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.

**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
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.

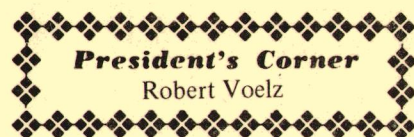
Please note this in mailing in your annual dues.

PLACEMENT SECTION

The officers and directors of the Golden Gate ASHRAE Chapter have ruled that the "Fog Dispenser" can accept advertisements for Personnel Placement. The cost of this advertising will be \$10.00 per column inch or fraction thereof, for each issue of the "Fog Dispenser". Advertising will be run in two columns "Positions Available" and "Positions Desired". If you desire to run such advertising please contact Tom Gilbertson at UN 1-6353.

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



It was very encouraging to hear from Tom Brewer at our last meeting that he had received a very good response to his 1970 Western Air Conditioning Industries Association Show Questionnaire from the various manufacturers' representatives in this area. Let's try to help this group out by making the response 100%. If you represent a company that could exhibit their products at the 1970 WACIA Show and haven't as yet returned Tom's Questionnaire please do so immediately. If you can't find the questionnaire or weren't at the Chapter meetings to receive one, call Tom at 397-2336 and inform him who at your company's factory is responsible for making show commitments.

While neither the National ASHRAE nor our local Golden Gate Chapter can officially sponsor the WACIA Show, I'm sure that it wouldn't have been held here in 1970 if it hadn't been for the efforts of many of our local ASHRAE members. For years our Chapter Representatives to national meetings requested commitments for a Semi-annual Meeting and an International Heating and Air Conditioning Exposition to be held here in San Francisco. The meeting they were happy to award to us in the winter months but as for the Exposition, we were so much as told that you can't have a successful exhibition on the West Coast. Fortunately for us, the WACIA group thinks differently but they definitely will need a lot of help from our membership if the show is going to be the success that we hope it to be.

Tom Brewer's efforts to get the names of the factory people responsible for the various company exhibitions is the start of how we can help to make the exhibition a success. Most companies make their show budgets and commitments well in advance of the actual time for the show, so time is already of the essence. I'm also sure that a few well directed letters from the local sales people to responsible individuals at the factories would also help to promote a good exhibit from your firm. Get busy with these letters now if you haven't already done so.

One additional aspect of the show that we will have to start considering and working upon in great detail next year is how we can help to promote a good attendance at the Show. Getting the various companies to exhibit here is only half the battle as we have at least a moral obligation to the companies who do exhibit to make them feel that their money was well spent on a San Francisco Show. The only way that this can be accomplished is with a good turn-out of engineers, contractors, owners and purchasing people from not only the San Francisco, but the entire West Coast Area. This will be a real challenge for us for next year but one that we will have to overcome if we ever hope to see another big industry exhibition here on the West Coast.

There have been several good attendance promotional ideas offered to date but I'm sure many more will be needed before we're finished. If you have any good ideas regarding attendance at the Show, be sure to express them to Tom Brewer or any of the Board Members. With all of the Chapter helping, having a successful Semi-annual Meeting and a concurrent WACIA Show should be a cinch. Be sure to do your part and starting now is not too soon.

MINUTES - NOVEMBER MEETING

The meeting, held at the Engineer's Club, was called to order by President Voelz at 7:45 p.m. Members and guests were introduced.

The minutes were approved as published in the Fog Dispenser.

Roger Chesebro, discussing the Workshop, suggested the reading of President Voelz's Corner (November Fog Dispenser) for a report on the Workshop arrangement. Roger also requested constructive comments on how best to run the Workshop. Prof. Bill Phaklides of the Engineering Department, Cal Poly, was prevailed upon for a few words on the way the workshop money was being spent at Cal Poly. Bill Phaklides headed a large student group who were dinner guests of the Chapter. Bill pointed out his Department was short on funds for needed improvements and projects. Students were paid from the Workshop Fund for work on improving the laboratories, the installation of donated equipment for testing and other purposes, the setting up of control system testing stations, on studies of refrigerant R502, etc.

Don Bryant of S.F. City College announced there will be a UC extension course, beginning January 6, 1969, on ITT (Engineer-In-Training) Review. Classes will be small to permit the closer student-teacher relation. The exam date was set for April 12, 1969.

President Voelz reminded everyone to take advantage of the lower dues through early remittance of same.

President Voelz presented, on behalf of the Chapter, a plaque to Dick Charles for his excellent efforts in organizing last year's successful Seminar.

President Voelz and Tom Brewer reported that though the initial submittal of names of potential exhibitors for the Western Air Conditioning Exposition to be held in San Francisco in January 1970 was gratifying, more names were still needed. Members were asked to do everything possible to get exhibitors for this show.

President Voelz read a letter received from Mrs. Ruth Smith thanking the Chapter for contributing to the Heart Fund. Past Chapter president, Jim Smith, passed away last summer - the letter from Mrs. Smith was received earlier but read to the members at this time.

Dick Friedman announced next month's speaker will be the attorney Joe McWilliams. The talk will be directed our Industry.

The speaker of the evening was Gil Carlson of ITT Bell & Gossett. The talk was on cooling tower piping and pumping and was presented with the aid of slides. The talk touched on static head considerations for pump selection in open and closed circuits; downcomer return piping; NPSH (net positive suction head), what, why and how it is used; tower by-pass linked butterfly valves for a more stable system; the use of check valves, the location of strainers, etc. As usual, the talk was very good, to the point, interesting and directed toward the solving of Engineering problems. A question and answer period followed the talk.

The meeting was adjourned at 10:17 p.m.

"Disneyville Demands Equal Time". The following is a reprint of an article that appeared in the Sol-Aire Journal of the Southern California Chapter of ASHRAE.

**"Fog Engulfs Frisco"
By Pete McCarty**

The following is reprinted in full from the Golden Gate Chapter "Fog Dispenser" October 1968.

At the 1968 ASHRAE Annual Meeting at Lake Placid, June 24 to 26, the Golden Gate Chapter presented the Research Fund with a check for \$3,000.00. Presentation was made by Mr. Karl Guttman during the banquet. The previous day, Mr. Dan Wile of the Southern California Chapter had presented the Research Fund on behalf of his Chapter a check for \$1,000.00. During the presentation Mr. Guttman addressed the audience as follows:

"Like the ancient country of Gaul the State of California is divided into two parts. The northern portion of the state is generally known as Northern California, the southern portion is usually referred to as Disneyland. In Disneyland there is a very large city, one of the largest in the country, which is called Los Angeles. Los Angeles is the seat of the Disneyland Chapter of ASHRAE and yesterday you heard Mr. Dan Wile of that Chapter present the Research Fund with a check for \$1,000.00. In Northern California, on the other hand, there is a small village called San Francisco, not much larger than Lake Placid. San Francisco is the seat of the Golden Gate Chapter of ASHRAE and on behalf of this Chapter it gives me much pleasure to present you with a check for the Research Fund in the amount of \$3,000.00."

Mr. Karl Guttman is remiss in several instances. First, ancient Gaul was divided into three parts, not two. Second, California also is divided into three parts. Disneyland in the south, Grapes of Wrath in the center and Bagdad by the Bay in the North. (Known in the vernacular as Frisco). Third, a check for \$2,000.00, not \$1,000.00, was presented by Mr. Dan Wile to the National Research Fund.

It is a known fact that Bagdad by the Bay is usually in a fog. We wish to disperse the fog, and remind our friends to the north that the Chapter in the South initiated the Seminar method of raising Research Funds, and that the Chapter in the South has donated in excess of \$10,000 to the ASHRAE Research Fund.

Having set the record straight, we would like to say that the doors of "The Magic Kingdom (Disneyland)" are always open to our friends of the Golden Gate Chapter.

**ASHRAE ATTENDANCE November 7, 1968
(Members)**

Name	Affiliation
Dick Porter	Powers Regulator Co.
Tom Gilbertson	Johnson Service
Tom White	American-Standard
Pete Knezevich	Combustion Utilities
Tom Higashioica	Higash Assoc.
Gerry Roth	Alco Controls
Charles McGriff	Jos. E. Murray & Assoc.
Pat Lang	Joy Mfg. Co.
John D. de Jesus	York Div. Borg-Warner
Eugene C. Bettencourt	York Div. Borg-Warner
Karl F. Tulp	Edw. B. Ward Co.
Bob Swezey	Burke & Company
D.H. Fujioka	Rogers Eng. Co.
Pat Geis	Engineered Air Systems
Robert M. Anderson	Pameco-Aire

Bob made some constructive comments on things which he had learned from working on the Alcoa Building. SOM no longer insulates interior supply duct except for acoustic purposes. Induction units and special enclosures may not provide the capacity shown in the manufacturer's data. Always try to get the piping and duct for the induction units on the exterior rather than supply from the core. It will save a considerable amount of money. Last, always provide cleanouts at the bottom of downfeed risers. At the completion of the construction they were filled with rubbish.

The members then broke up into six groups each with a guide to inspect the ground floor fan room, the 14th floor unoccupied space, the 18th floor occupied area, the upper level fan area, the upper level chiller area and the upper level boiler area.

RESEARCH FUND CHECK PRESENTED

At the 1968 ASHRAE Annual Meeting at Lake Placid, June 24 to 26, the Golden Gate Chapter presented the Research Fund with a check for \$3,000.00. Presentation was made by Mr. Karl Guttman during the banquet. The previous day, Mr. Dan Wile of the Southern California Chapter had presented the Research Fund on behalf of his Chapter a check for \$1,000.00. During the presentation Mr. Guttman addressed the audience as follows:

"Like the ancient country of Gaul the State of California is divided into two parts. The northern portion of the State is generally known as Northern California, the southern portion is usually referred to as Disneyland. In Disneyland there is a very large city, one of the largest in the country, which is called Los Angeles. Los Angeles is the seat of the Disneyland Chapter of ASHRAE and yesterday you heard Mr. Dan Wile of that Chapter present the Research Fund with a check for \$1,000. In Northern California, on the other hand, there is a small village called San Francisco, not much larger than Lake Placid. San Francisco is the seat of the Golden Gate Chapter of ASHRAE and on behalf of this Chapter it gives me much pleasure to present you with a check for the Research Fund in the amount of \$3,000.00."

INCORPORATION NEWS

The Board of Governors have been meeting during the summer and among other subjects of vital importance have approved the final draft of the Articles of Incorporation and Revised By-Laws for Golden Gate Chapter.

The firm of Bishop, Murray and Barry, have been working with us for some time, and after many meetings with them and meetings of some officers, regarding sentence structure, clauses, commas, periods, etc., etc. the final version was worked out. The chapter By-Laws become a part of the Articles of Incorporation, and the changes to them have been minor, provision for expansion of the Board of Governors, changes in dates, etc.

The Incorporation papers and By-Laws have been sent to National for review, and after their approval will be presented to our membership for adoption.

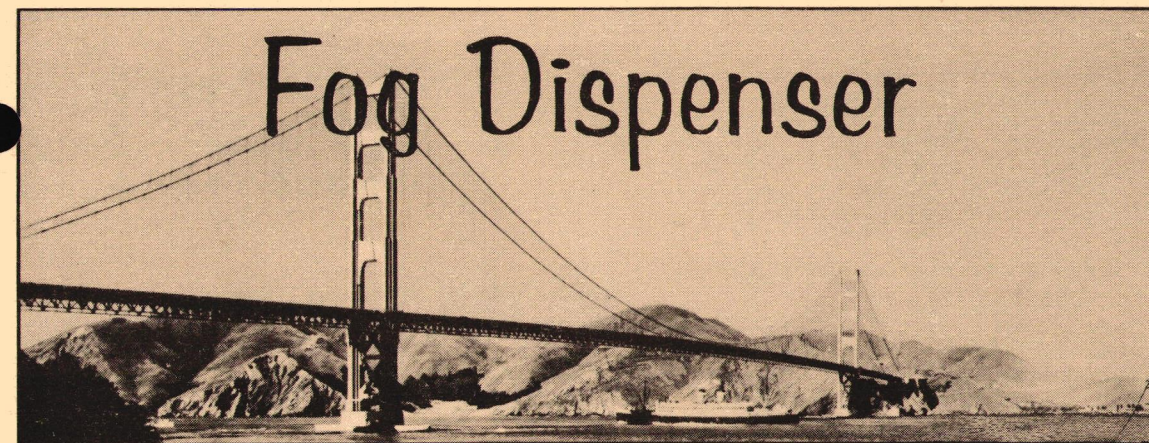
1970 WINTER SHOW

Chapter members are urged to keep in mind the 1970 WACIA industry show and the ASHRAE meeting in January of 1970. When Tom Brewer and others suggested such an event back in the late 1950's, I presume most of us looked on this as some "pipe-dream" in the far distant future. Now, this time is only a year or so away. Incidentally, what did happen to those "soaring sixties"?

The firm of Phillip R. Freeman and Assoc. has been selected to manage the industry displays and they are now contacting firms in the heating, air conditioning, and refrigeration industry. I.T. and T. have already taken a large block of space.

Space in the Polk and Larkin Hall will be \$3.50 per sq. ft. and the Civic Auditorium proper \$4.00 per sq. ft. and Brooks Hall \$4.50 per sq. ft. Those factory or manufacturer's representatives who have any influence or pull with their home offices are urged to use same in persuading them to display here in January of 1970.

Volunteers are needed to help in all phases of the ASHRAE meeting concurrent with the show — publicity, program, entertainment of the ladies, etc., etc. If you want to help, contact Dick Friedman, Bob Voelz or any of the officers.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XVIII — No. 1

OCTOBER 1968

PROGRAM CHAIRMAN: RICHARD FRIEDMAN

The next Golden Gate Chapter meeting will be held at the Engineer's Club, Hong Kong Bank Building, corner of Sansome & Pine Streets, San Francisco, on Thursday, October 3, 1968. Social hour will be at 5:30 P.M. and dinner at 6:45 P.M.

SUBJECT: HIGH AND LOW VELOCITY MIXING BOXES AND VARIABLE AND CONSTANT VOLUME REHEAT BOXES

Our Speaker will be Dave Rickelton, Vice President of the Buensod Division, Aronca, Inc. Mr. Rickelton is well qualified to talk on this subject. He has been with the Buensod-Stacey Corporation for 28 years. He is presently a National ASHRAE Director at Large and has served as Director and Regional Chairman of Region 4. He is the past-president of his local ASHRAE Chapter and a member of the National Technical Committee. He is the author of many published articles and has lectured on this subject to ASHRAE Societies throughout the country. His talk should prove interesting and enlightening to all of us.

HONOR ROLL

WILLIAM A. BARRON COMPANY

420 Market Street

San Francisco, California

Phone: 392-4782

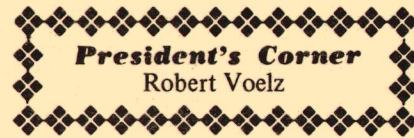
Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1371 - 15th Avenue, San Francisco, California 94122. LO 6-2740.

**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
Lou Pollock
Larry Shea



On behalf of the officers and Board of Governors, I would like to extend a warm welcome to all of our members for the coming year. A very active and productive year has been planned for our Chapter and all members are urged to participate.

Dick Friedman and his Program Committee have already selected the majority of topics for this year's programs and are busy making final preparations for securing interesting speakers. Dick has assured us that this year's programs should include many topics which will be of interest to all of our membership.

Arel Berrier and Larry Shea have been busy this summer with our legal counsel trying to finalize the Chapter Articles of Incorporation and By-Laws. As you probably recall, our Chapter decided to incorporate some time back, but the wheels of progress have been slow in moving. The Articles have now been forwarded to National for their preliminary review and comment. It is hoped that they will be ready for Chapter review, correction and final adoption yet this year.

As you all may or may not know, the City of San Francisco is in the final stages of preparing a new heating and ventilating code which is to be forwarded to the Board of Supervisors any day now. Your Chapter Code Committee consisting of Larry Shea, Irving Alger, Bob Braun, Leo Dwyer, Tom Simonson and John Capitolo have spent many long hours during the past summer trying to help the City produce this new document. There still are several items contained in the proposed code that your Committee does not agree with but, in general, the majority of the Committee's suggestions were included. The final document is a decided improvement over the early drafts that we were asked to review and your Committee deserves a bit of thanks from all of us for their fine efforts.

This year we will be inviting local students to attend our Chapter meetings on a regular basis. Your Board has budgeted an amount in this year's budget that will allow us to invite up to 10 local students to each of our dinner meetings.

One last word for now, I hope that you have all paid your current Chapter dues to take advantage of the \$9.75 bargain price prior to November. If you haven't put your check in the mail yet, please do so now!!!!

See you all at the meeting.

MINUTES - JUNE MEETING

The meeting was held at Longley's Restaurant in San Francisco and was called to order at 7:45 P.M. by President Shea. Self introduction of members and guests followed.

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

Shea reported that the Chapter was still in the process of reviewing the new San Francisco Building Code and a meeting of those interested was to be held Monday evening, June 10th to summarize our comments and recommendations on the Code draft submitted to us.

Aronovsky reported that the raffle turned out very well with gross receipts of \$1,453.00, expenditures of \$726.00 which netted \$727.00 for the Chapter.

Frank Lockwood of the Dance Committee reported on the May dance which was a huge success. 156 people attended and there was a net loss of only \$77.99.

Roger Chesbro reported on the current status of the Workshop Fund Drive. Approximately 60% of this year's goal has been reached and all members were urged to cooperate in making this year's drive a success.

Dick Charles, Seminar Committee Chairman reported on the results of this year's seminar. \$5,045.00 was taken in and after expenses the Chapter should net approximately \$2,500.00. The seminar was well received this year and Dick was interested in receiving the membership's comments and suggestions for future years.

Dick Friedman reported on the Region 10 Conference held in May in Spokane, Washington. There will be no realignment of the Region 10 boundaries. The new Regional Membership Chairman will assist the Region Chairman in performing his duties over the large geographical area which Region 10 spans. The Conference was told about the 1970 Show and National ASHRAE Technical Conference which will be held in San Francisco. We urged the other Chapters in Region 10 to cooperate with us in making this event a memorable one. Don Bryant, our new Regional Education Chairman gave an excellent report on manpower and education. The technical seminars and social events were most worthwhile and enjoyable. All Chapter members are urged to attend CRC meetings in addition to the Chapter delegates and alternates.

Larry Shea solicited volunteers for the Audit Committee.

Bob Voelz, the Program Committee Chairman, announced that Mak Takahashi, Head of Skidmore, Owings & Merrill's heating and air conditioning department who was supposed to be our speaker for the evening was unavoidably detained in Hawaii. We were fortunate in having Bob Voelz available to take over the description of the Alcoa Building prior to making the Field Trip. The Alcoa Building is part of the Golden Gateway Complex which includes adjacent apartment buildings, some commercial area and the public garages. The Alcoa Building has a gross square footage of 589,000 square feet with net rentable area of 406,000 square feet. There are 24 typical office floors each containing about 17,000 square feet. The building cost which included finished floors, ceilings, lights, air conditioning on an open floor basis was \$25.60 per square foot. Heating, ventilating and air conditioning was \$3.32 per square foot. Plumbing was 58 cents per square foot. Electric was \$1.77 per square foot. The basis air conditioning system consists of perimeter induction units plus five ducted interior reheat zones per floor. The air system is split at the ninth floor with everything above fed from the roof and below from the ground floor.

The heating system consists of two fire tube package boilers 250 hp steam boilers with combination oil and gas fire. There are two chillers which are hermetic electric drive centrifugals 825 tons with series flow on the chilled side and parallel on the condenser. The cooling tower is a blow through metal deck type located on the roof with injection type chemical treatment.

Controls on this building are at a minimum. Design started with a central start stop station and a small panel was added towards the end of the job to provide a temperature check for the operator.

A computer installation in the building posed an interesting problem after some of the space was leased and it was solved by using packaged self contained units with condenser water supplied from the roof.

Visitor: "How long have you worked in this office?"

Sweet young secretary: "Ever since the boss threatened to fire me."

"Both Smith and Jones proposed to Miss Brown. I wonder which was the lucky one?"

"It's too soon to say yet, but she accepted Smith."

Friend: "Did you get that Smith estate settled?"

Lawyer: "Yes, but had a terrific fight. The heirs almost got part of it."

On a rural gas station: Buzz twice for night service. Then keep your shirt on while I get my pants on.

MAIL OR PHONE NEWS TO:

Editor, Fog Dispenser
c/o COMBUSTION UTILITIES, INC.
1485 Bayshore Blvd.
San Francisco, California 94124
Phone: 467-9076