

GOLDEN GATE CHAPTER - ASHRAE

1974 - 1975

President	Richard A. Charles	434-2720
Vice President	Jack Palmer.....	341-6100
Secretary	Carl Jordan	981-1555
Treasure	Gene Valerio	871-6808

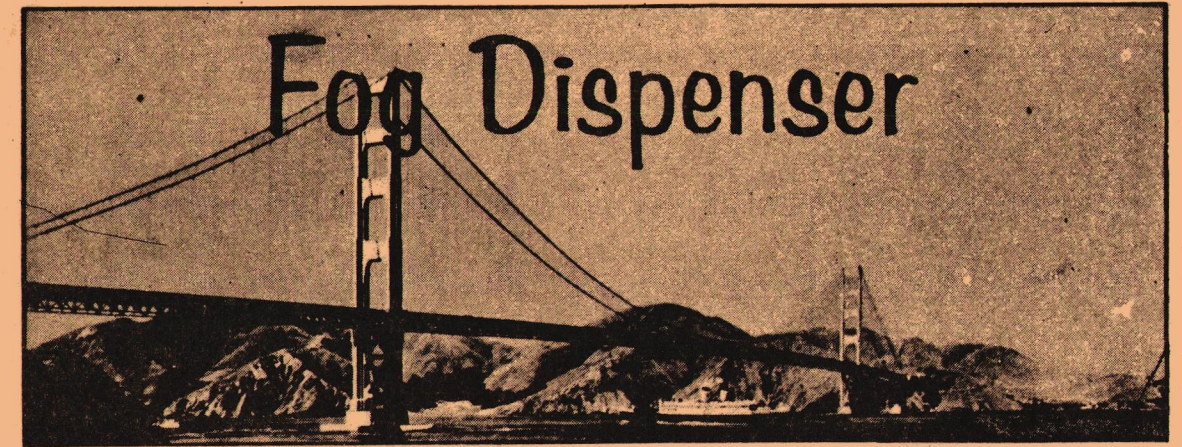
Board of Governors

Lewis S. Pollock	467-3751
Tom Gilbertson	397-5494
Dick Glumac	398-7667

Committee Chairmen

Program	Jack Palmer.....	341-6100
Pre-Meeting	Robert Phillips	362-6065
Membership	Dart Rinefort	658-6717
Atten. & Recep.	Roy Skover	586-6082
Publicity		
Fog Dispenser	Jim Holden	871-8292
Roster	Dave Waterworth	781-4211
Education	Robert H. Braun	434-2720
Cal Poly Workshop	Bernie Beckius	834-2333
Code	Tom Campbell	296-2525
Honors & Awards	Lewis Pollock	467-3751
Honor Roll	Jim Holden	871-8292
Raffle	John De Jesus	359-1462
Research Fund		
Seminar	Tom Gilbertson	397-5494
ESC for Manpower Training ...	Peter Johnson	391-5790
Engineering Council	Richard Glumac	398-7667
Historian		
Golf Tournament	Dick Allen	873-1660
Annual Social	Jerry Kechter	467-3751
Energy Conservation	Richard Glumac	398-7667

NOTE: There are three vacancies in the above list. All volunteers please contact President Dick Charles.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XIV NO. I

OCTOBER 1974

PROGRAM COMMITTEE CHAIRMAN -- JACK PALMER

The first meeting of the Golden Gate Chapter for 1974-1975 year will be held at the Engineer's Club in the Hong Kong Bank Building, 160 Sansome Street, San Francisco, on Thursday, October 3, 1974. The Social Hour will begin at 5:30 P.M. with dinner at 6:45 P.M.

OCTOBER 3, 1974 ASHRAE MEETING

SPEAKER: Mr. Gilbert Carlson - Director of Technical Services - Bell & Gossett Co.

TOPIC: Pump Energy Saving for Hydronic Systems

Our first meeting of the year will be Guest Night and Membership Night.

ANNUAL CALENDAR

November 7	- Bob McKee, Pacific Fruit Express
December 5	- Bechtel Power Corp., H V For Nuclear Power Plants
January 9	- Richard J. McKnight, American Warming & Ventilating, Inc.
February 6	- Ladies Night, "Compact City"
March 6	- Field Trip
April 3	- Design - Installation Problems discussed by two Engineering Offices
April ?	- Golf Tournament
May 3	- Annual Social
May 18-23	- Region X Conference - Hawaii
June 5	- Past Presidents' Night

SEPTEMBER WORKSHOP

There will be no workshop for this meeting. Chairman Bob Phillips promises a season of interesting programs but will follow the traditional pattern of no program for the September meeting.

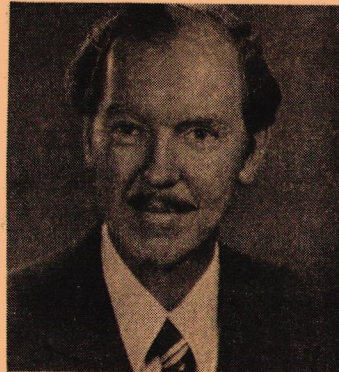
HONOR ROLL

810 Stanton Road
Burlingame, Ca 94010

ALLIED AIR PRODUCTS

697-2281

President's Corner
RICHARD A. CHARLES



Published monthly by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Grace Hackett & Assoc., Jack Tar Hotel, 1255 Post Street, San Francisco, California - 673-3850

OFFICERS AND BOARD OF GOVERNORS

1974-75

Richard A. Charles President
 Jack Palmer Vice President
 Carl Jordan Secretary
 Gene Vallerio Treasurer

BOARD OF GOVERNORS

Lewis Pollack
 Tom Gilbertson
 Dick Glumac

As we are about to begin another year of activities in the Golden Gate Chapter of ASHRAE, I can recall my first attendance to chapter meetings as a young designer back in 1956. Little did I realize at that time that one day I would be president of this great chapter. In all my years as a member of ASHRAE, and then serving on the Board, I have always been impressed with the good leadership, fellowship, and the information I have gleaned from the different technical sessions. As president during this 1974-1975 year, I sincerely will try to maintain the high standard our chapter has been known for in the past.

It is most inspiring to be president of an organization when the entire officers and Board are prepped and then ratified by our membership. The benefits are great since the team effort comes across well. I am really proud of our team this year, and as a result, I am looking forward to a great year for the Golden Gate Chapter.

Now that I've been elected, I would like to state my platform.

1. To begin our monthly Society meetings as promptly as possible.
2. To keep the business portion of the meeting to an absolute minimum.
3. To encourage growth of our local chapter and to exceed the goals set up for us by National.
4. To assist the chairman of each committee in any way I can.
5. To involve our chapter in local activities, such as education, through our seminar, counseling at the local schools, providing speakers for groups on subjects pertaining to ASHRAE, such as energy conservation, design of mechanical systems to be more efficient, et cetera.
6. To have the best technical sessions possible. And after seeing the programs that Jack Palmer has already scheduled for the coming year, I am sure that this task will be accomplished.

I want to personally thank Lew Pollock, past president of ASHRAE, and Charlie Hardeman, who is retiring from our Board after 7 years, for the great job, well done. Also, I would like to thank each one of the committee chairmen who have agreed to their positions for this year. You will note by the published list in the Fog Dispenser there are a few openings, namely Research Chairman, Publicity Chairman, and Chapter Historian, I'm looking for people who have a definite interest in these areas to volunteer before I volunteer you.

On October 7-10, 1974 the Federal Energy Administration will be holding public hearings in San Francisco, as they have been in several other cities around the country since August. The subject for the San Francisco meeting is "Strategies for Energy Conservation - Reducing the U.S. Demand". We've been encouraged by our new National ASHRAE president, Dave Rickleton to attend these meetings as much as possible to become involved in any way we can. I hope to have more detailed information by our October 3, 1974 meeting concerning the time and location of these hearings.

As you are well aware by now, the dues for ASHRAE National have increased quite substantially over the past year. We attempted to get this reduced at our CRC meeting in San Jose this year to no avail. Past president of National ASHRAE, Rod Kirkwood, explained in detail our deficit spending over the past years, and when our involvement in the new NBS Standard 90 was agreed upon by our National Society, the large increase in dues this year became necessary. As you may know, we have reduced our dues for the local chapter from \$10.00 to \$9.00 in order to help offset the increase. Because of the increase in dues, I feel it is going to be even harder for us not only to get new members, but to retain the ones that we have had in the past. It should encourage each one of us to become more than just card-carrying members and to become actively involved in any way we can to make our local chapter the best ever for the coming year.

TREASURER'S REPORT

	<u>INCOME</u>	<u>EXPENSES</u>	<u>DEFICIT</u>	<u>MEMBER'S EQUITY</u>
Year Ending 6-30-74	12,236.76	15,078.19	(2,841.43)	1,750.15
Month Ending 7-31-74	(10.00)	77.77	(87.77)	1,662.38

Jack Kniveton has been appointed as Chairman of the Audit Committee to check last year's records.

* * * * *

During the month of June this last summer the City College of San Francisco held a testimonial dinner for ASHRAE Director Don Bryant who retired, after the past school year, at the Villa Chartier in San Mateo. Unfortunately ASHRAE was unable to have an official member in attendance due to a mixup in instructions. In apology the local chapter would like to reprint the theme song of that occasion:

OLD DON BRYANT
 SITTING THERE DEFIANT
 RIDING IN HIS SADDLE FROM THE TOWN
 OLD DON BRYANT LOOKIN LIKE A GIANT
 PULLING HIS ASHRAE OUT AND COOLING THINGS DOWN

OH THE LEADERS OF THE COUNTRY
 ASKED HIM WHAT SHOULD BE DONE
 TO KEEP THE DESERT COOL FROM THE BROILING SUN
 DON BRYANT THOUGHT AWHILE
 AND THEN MURMURED WITH A SMILE
 TRY WAITING FOR THE GOOD OLD WINTERTIME

OH THE REFRIGERATION LABORATORY
 ILL TELL YOU ITS QUITE A STORY
 JUST HOW IT ALL CAME ABOUT
 ALL THE TUBING AND THE CARTS
 THE PSYCOMETRIC CHARTS
 DON BRYANT IS THE MASTERMIND OF ALL

OH THE BRANCH WAS IN A TETHER
 THEY DID NOT KNOW WHETHER
 TO CHANGE ABOUT THE CURRICULUM
 BUT DON BRYANT CRACKED A JOKE
 FOR ALL THE COMMON FOLK
 NO MATTER WHAT YOU DO TO FIRE ITS BOUND TO SMOKE

WHEN THE AMMONIA STARTS TO LEAK
 AND THE PUMPS BEGIN TO SQUEAK
 AND THE TUBING STARTS TO BURST
 AND THE CELLS ALL DIE OF THIRST
 YOU CAN BET YOUR BOTTOM DOLLAR
 THAT WE'LL ALL BEGIN TO HOLLAR
 FOR COWBOY DON TO FIX THINGS UP
 AGAIN.

KNOW A PROSPECTIVE NEW MEMBER?

Contact Membership Chairman:

Dart Rinefort - Carrier

(415) 658-6717

who will send him (her) application forms.

Advancement in Membership Grade

requires neither fees nor references -
 just experience, education, or a P. E.
 license. We urge you to apply.

TREASURER'S REPORT FOR NOVEMBER

Month Ending	Income	Expenses	Surplus (Deficit)	Members' Equity
8-31-74	\$108.00	\$89.58	\$18.42	\$1,680.80
9-30-74	1,719.00	230.14	1,488.86	3,169.66

Submitted by most respectful Treasurer Gene Valerio

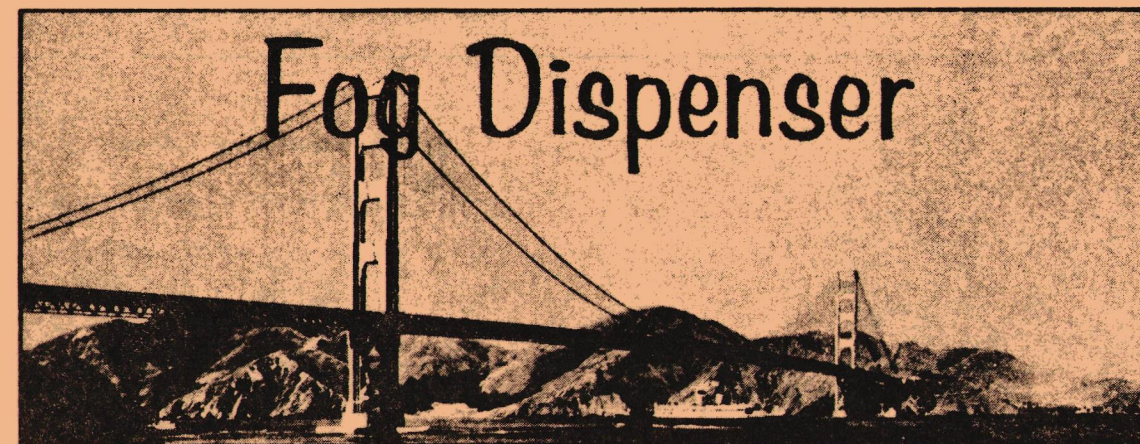
REPORT OF CAL POLY WORKSHOP CHAIRMAN

In recognition of this meeting being the annual host night for the touring students of Cal Poly it is of interest to include last years annual report by the chairman of the Cal Poly Workshop:

"I am pleased to announce that our campaign for Workshop Funds has been reasonably successful. We have received a total of \$1416.00 in contributions from 50 contributors. Most of these contributions were received with very little urging and the contributors seemed happy to be a part of a worthwhile program. All contributions were generous by nature and several could be termed very generous. Everything considered, as chairman, my job was made quite easy by the response received.

Respectfully submitted,

Bernie Beckius, Chairman



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XIV - NO. 2

NOVEMBER 1974

PROGRAM COMMITTEE CHAIRMAN - JACK PALMER

The second meeting of the Golden Gate Chapter for 1974-1975 year will be held at the Engineer's Club in the Hong Kong Bank Building, 160 Sansome Street, San Francisco, on Thursday, November 7, 1974. The Social Hour will begin at 5:30 P.M. with dinner at 6:45 P.M.

NOVEMBER 7, 1974 ASHRAE MEETING

SPEAKER: Mr. Bob McKee, Pacific Fruit Express

This will be our annual host night for the students of Cal Poly enrolled in the Air Conditioning and Refrigeration Department who are making their annual trek to the Bay Area.

NOVEMBER WORKSHOP

Bob Phillips, Chairman
November 7, 1974

6:00 PM - 6:45 PM
Upstairs

"WHERE DID I SEE THAT BEFORE?"

Do you come across technical articles, facts about interesting projects, terrific new ideas, time saving tables, graphs and sheets of details which you'd like to save and be able to pull out and use when needed?

Do you have a pile on your desk, under your desk or jammed in some out-of-the-way drawer of valuable clippings containing a gold mine of information which you plan to get organized some day when you have the time?

Well brother you've got lots of company!

Come join the workshop discussion and hear how the experts do it, and even throw in some of your ideas.

HONOR ROLL

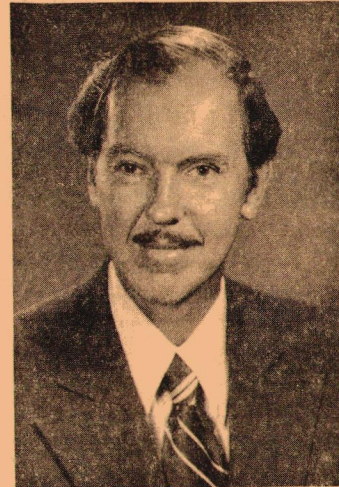
325 Corey Way
South San Francisco, Ca. 94002

AIR FILTER/CONTROL

Bob Swezey and Gene Valerio

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871-6808

President's Corner
RICHARD A. CHARLES



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Lewis Pollock
 Tom Gilbertson
 Dick Glumac

COPY DEADLINE

In order to meet our publication dates, we have established the following as the last possible dates that copy for the Fog Dispenser can be in the editor's hands.

Meeting Date	Copy Deadline
7 Nov. 1974	25 Oct. 1974
5 Dec. 1974	22 Nov. 1974
9 Jan. 1975	20 Dec. 1974
6 Feb. 1975	24 Jan. 1975
6 Mar. 1975	21 Feb. 1975
3 Apr. 1975	21 Mar. 1975
3 May. 1975	18 Apr. 1975
5 June 1975	22 May 1975

KNOW A PROSPECTIVE NEW MEMBER?

Contact Membership Chairman:

Dart Rinefort - Carrier

(415) 658-6717

MAIL OR PHONE NEWS TO:

Jim Holden, Editor
 FOG DISPENSER
 161 Starlite Street
 So. San Francisco, Ca 94080
 Phone 871-8292

The Cal-Poly Air Conditioning Club will be making their field trip to the Bay Area on November 6, 7, & 8, 1974. Tom Gilbertson and Bernie Beckius have lined up some projects for them to look at while they are here. They will be our guests at our November 7, 1974 dinner meeting. They are planning now on approximately 25 people attending. I would like to encourage all former Cal-Poly grads to be in attendance this evening and identify yourself to these students both before the meeting and during the breaks in order to show them the effect that Cal-Poly Alumni have had upon our industry in the Bay Area. All Alums of Cal-Poly should see Roy Skover at the reception desk the night of the meeting and pick up a special identifying marker to put on your name badge so that the students will recognize you.

The November 7 meeting will also be our new membership night. This is an opportunity for you to bring a guest who is not currently a member of our local chapter. Question the different ones you come in contact with to determine if they are members of our local chapter. If not, invite them to join. Dart Rinefort, our membership chairman, has the ball rolling for meeting our membership goal this year, but it takes each one of us to do our part in order to reach and exceed this goal.

I have just received the quarterly Delinquent Membership List from headquarters, and note that there are 122 local people who have not paid their dues this year to headquarters. The list will be available at the reception desk at our next meeting. Look through it to see if your name is there. If it is---PAY UP.

C. Stewart Perkins, our Region 10 chairman, will make his once a year visit to our chapter on November 7. He will be meeting with the Golden Gate Chapter Board of Directors, and the Membership, Research, Education, and Energy Conservation Committee chairmen before the dinner meeting.

The Roster will go to press on November 30, 1974. All those of you who have not paid your local dues of \$ 9.00 will not be included in this year's Roster. The cutoff date will be absolutely November 1, 1974.

I have had an opportunity to hear Mr. Bob McRee of Pacific Fruit Express at the CRC meeting in San Jose. His subject and presentation are excellent. Plan now to attend the November 7 meeting, and send in your card immediately in order that the club can prepare for the proper amount of meals on time. Looking forward to seeing you at our next meeting on November 7.

MINUTES OCTOBER 3, 1974 MEETING

Meeting called to order by President Charles at approximately 8:30 p.m.

- Motion, second and pass: approved minutes of June 6, 1974 Chapter meeting.
- President Charles introduced all Chapter Committee Chairmen.
- President Charles advised that Don Bryant has been elected to represent ASHRAE Region X on the National Education Committee.
- Students from Cal Poly will visit our Chapter Meeting in November. Tom Gilbertson will arrange for them to tour one of our local facilities.
- President Charles advised that the Federal Energy Administration (FEA) Meetings will be held in San Francisco on October 7 through 10, 1974 and that, much to our surprise, ASHRAE has not been listed as a speaker. President Charles will pursue this further with the FEA.
- The local AIA group is having a meeting dealing with energy utilization on October 24, 1974. Dick Glumac, chairman of the Energy Conservation Committee, will coordinate an ASHRAE presentation at that meeting.
- Audit Committee Chairman, Jack Kniveton, reported that his committee has completed an audit of the financial records for the 1973-74 fiscal year, and found them to be in order.
- President Charles read our financial status as previously published in our Fog Dispenser.
- President Charles called for new business. There was none.
- After a short break, the meeting resumed with the raffle awards.
- Gil Carlson made a fine presentation on "Pump Energy Savings for Hydronic Systems", substantially as published in Heating, Piping and Air Conditioning magazine, July 1974. His key points were as follows:
 - Pump energy input can be reduced by throttling oversized pumps back to design flow rates; even more energy can be saved by trimming the pump impellers to achieve design flow rates.
 - The annual cost of operating a pump at 1 brake HP is approximately \$116 per year (under certain specified conditions).
 - The use of higher water temperature differentials reduces pumping energy consumption. For example, if a 20 degree temperature differential can be changed to a 40 degree temperature differential, the gpm can be reduced to 50%, the pumping head can be reduced to 25%, and the pump brake HP can be reduced to 12.5% of the original conditions.
 - Where a pumping system has two parallel circuits, one with a high gpm and a low head and the other with a low gpm and a high head, pumping energy can be conserved by utilizing a separate pump for each circuit. (If a single pump were used, its brake HP would be a function of the higher gpm from one circuit and the higher head from the other circuit.)
 - In hydronic systems with parallel circuits, secondary pumping, with each pump appropriately sized for its individual secondary loop, results in less energy consumption than for a single pump pumping all parallel circuits.
 - The fore going points are true whether or not the parallel circuits be distribution circuits throughout the building or parallel circuits within a central plant equipment room (such as chiller and boiler bypasses, etc.)
 - Two-way valve systems which result in reduction of pumped water quantities consume less energy than three-way valves systems, which pump a constant flow rate.
 - The use of variable volume pumping can reduce energy consumption.
 - The use of parallel, staged pumps can conserve energy.
- President Charles announced that the next chapter meeting will be November 7, 1974.
- The meeting was adjourned at 9:35 p.m.

CHAPTER MEMBERS PRESENT AT THE NOVEMBER MEETING

<u>Name</u>	<u>Affiliation</u>	<u>Name</u>	<u>Affiliation</u>
U. B. Mulder	Van Mulder S.M.	Al Eynon	G. L. Gendler
Morris Konhoff	Mech Consulting	Mike Rich	Gaffigan Co.
Craig Elliott	Russ Elliott Inc.	Al West	Colan Heating
Marlin Whitney	Vann Engineering	Pat Patterson	Pameco Aire
Jerry Slater	Lennox Industries	Bill Baker	McCormick Engineering
Vince Aiello	Cann Engineering	Dave Attard	Cal Hydraulics
Dick Charles	Charles & Brown	Bill Schultz	Powers
Bob Swezey	Air Filter Control	Bud Ferry	A. J. Bouey Co.
Hank Shastany	York	Karl Baldwin	Bechtel
Raj Jandu	Bentley Engineers	Keith Lescure	A. J. Peterson
Bob Denney	Acco	Carson Woo	C & B
Harlio Yamamoto	Acco	Dave Rifkin	Tempco
Jim Holden	Valley Sheet Metal	Gus Schjaerve	Simonson Engineers
Walter Tyz	Valley Sheet Metal	Arlen Allinger	Beamer/Wilkinson
John DeJesus	Northstate	Herb Duncan	Flame Aire
Gerry DeReus	Mechanical Maint.	George Sharkey	U. S. Navy
Gene DeWree	N. J. Hatter Co.	Tom White	American Standard
Jim Breese	J. L. Breese Co.	Dick Frenzel	E. B. Ward
Jim Parsons	P. T. & T.	Charles Nadig	Trane
Chuck Kopf	Belilove Co.	Steve Sprague	Charles & Braun
Howard Friesen	Yamas	Bob Roach	Yamas
Gene Valerio	Air Filter Control	Bob Phillips	Kennedy Engineers
John Werner	Trane	Tom Campbell	Owens Corning Fibreglass
Jack Palmer	Cal Hydraulics	Bob Giles	Bayha Weir & Finato
Lewis Ponoln	Trahr Co.	Joe Washington	Hussman, SF
Dart Rinefort	Carrier	Roy Skover	Lennox Industries
Carl Jordan	S-O-M	Kaz Inouye	Kasin Guttman
Tom Gilbertson	L&H Airco	Kenneth Yu	Southern Pacific
Gerry Roth	Roth Associates	Howard Mah	Hussman SF
John Dustin	Gen Ind. Equip.	Roy Anderson	City College, SF
Mike Rubio	Yamas	Don Bryant	Bryant Educational Enterprises
Kenneth Hill	Kaiser Engineers	Dick Friedman	Engineered Air
Dick Porter	Yamas	Arshad Sheikh	S-O-M
Tom Namberumal	Kaisen Guttman	Bahram Fatemi	S-O-M
Clyde Wilson Reid	Clyde Equipment	Ed Breeching	Engineered Air
		Tom Conroy	Clyde Equipment

GUESTS

Guillermo Ortega	City College, SF	Ken Solberg	York	Paul West	Colan Htg.
L. R. Riley	Bechtel	Larry Carr	York	T. Andrews	Air Monitor
Joe Boyle	R. L. Parsons, Inc.	Bob McKee	Pacific Fr. Exp.	Greg Braak	Johnson Cont.
Glen Marks	Hussman, SF	Carl Dilegat	Ecco Air Prod.	H. Davis	Zeston Inc.
David A. Rein	Pacific Steel Casting	G. Stuart Perkins	ASHRAE Director	B. Abrky	Food Indus.
Richard Oas	Safeway Stores	W. L. Donley	W.L. Donley Assoc.	J. Chapman	Hussman, SF
John Kerr	Hussman, SF	Marvin Intemann	Pameco Aire	Olin S. Cunningham,	
Bob Vlick	Acco	Mike Rich, Jr.	Gaffigan Co.	Hussman, SF	

CAL POLY STUDENTS: Salomon Lee, Louis Pietrelli, Paul Williams, Douglas Morrin, Bill Phaklides, Bob Rogems, Rick Alorin, Robert Ortiz, Colin Campbell, Anthony Loscavio, Paul Lagno, Donald Hay, Pete Rodriguez, David Wylie, James D. Cain, Howell Poe, Daniel C. Reiss, Kenneth Moore, Neil Patt, Jim Bennett, Doug Scott, Vicki Rader, Douglas Lockwood, Ron Parsley, Willy Wong, Wayne Jin, Denny Mark, James Holman Jr., Steve W. Nelson, Stan P. Shaver, Jeff Turner, Vince Bongio.

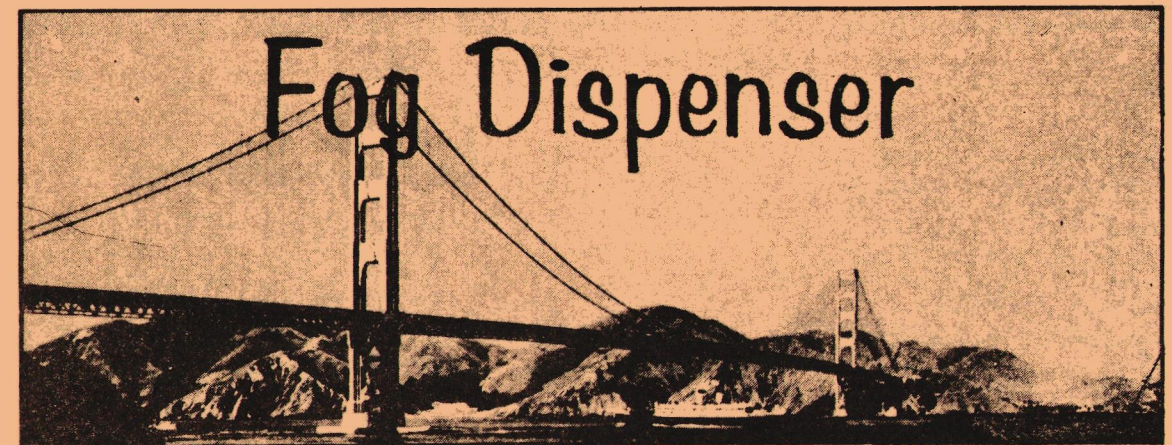
TREASURER'S REPORT FOR DECEMBER

Month Ending	Income	Expenses	Members' Equity
9-30-74	\$1719.00	\$230.14	\$3138.66
10-31-74	540.00	517.32	3192.34

Submitted by most respectful Treasurer Gene Valerio.

The following obituary is for a former member, active in this chapter until recent years, deserving our appreciation and recognition:

Private services will be held in Palo Alto for Leland S. Rosener, Jr., a leading San Francisco engineer. Mr. Rosener died Saturday, November 9, at the Stanford Medical Center. He was 63. He was a native of San Francisco and graduated in 1933 from the University of California at Berkeley. Mr. Rosener was a senior design engineer with Bentley Engineers in San Francisco at the time of his death. Some of his major projects with Bentley includes the outfitting of piers two and three at the Alameda Naval Air Station and the design of the Hewlett Packard research and manufacturing facility in Santa Rosa. Mr. Rosener had been affiliated with Bentley Engineers for the past three and a half years. Mr. Rosener previously worked with the Keller and Gannon engineering firm, also of San Francisco, after closing his own San Francisco consulting engineering firm in 1954. He was a former member of the Atherton Planning Commission, the Menlo Service Club, the Engineers Club of San Francisco, the Navy League and was a Lieutenant Commander in the U.S. Navy during World War II. He is survived by his wife, Eleanor, of Palo Alto, a daughter, Beth Rosener and a sister Ann. Contributions should be made to the Cancer Society or the Peninsula Volunteers. Arrangements are being made by the Roller and Hapgood Funeral Home of Palo Alto.



GOLDEN GATE CHAPTER



ASHRAE

VOLUME XIV -- NO. 3

DECEMBER 1974

PROGRAM COMMITTEE CHAIRMAN - JACK PALMER

The Third regular meeting of the Golden Gate Chapter for the 1974-75 year will be held at the Engineers' Club in the Hong Kong Bank Building, 160 Sansome Street, San Francisco, on Thursday night - December 5, 1974. The Social Hour will begin at 5:30 with Dinner at 6:45 p.m.

SUBJECT: Aspects of HVAC Equipment in Nuclear Power Plants"

SPEAKERS: Mr. Keith Burrowes and Mr. Richard Gee of Bechtel Power Corporation.

Mr. Burrowes and Mr. Gee will give an in-depth look at application of HVAC equipment in PWR and BWR types of nuclear power plants such as design criteria, governing codes and regulations, air filtration and power plant cycle.

DECEMBER WORKSHOP

Bob Phillips, Chairman
December 5, 1974

6:00 - 6:45 PM
Upstairs

"TAKING IT ALL OFF"

Take-off of materials from engineers plans and specifications is an important part of bidding every job.

Mr. Laurie Ingram, vice president of Materials Survey Associates will chair the December workshop forum and will talk about problems bidders face in making material take-offs and what we can do to provide take-offs that will result in less confusion and resulting better bids from contractors.

Laurie Ingram, a member of ASHRAE has been doing this kind of work for the last sixteen years. This discussion will be based on what he has seen over the years and his suggestions to design engineers to make their plans and specifications easier to read and easier to bid properly.

Come, join the discussion and let us hear some of your ideas, questions and comments!

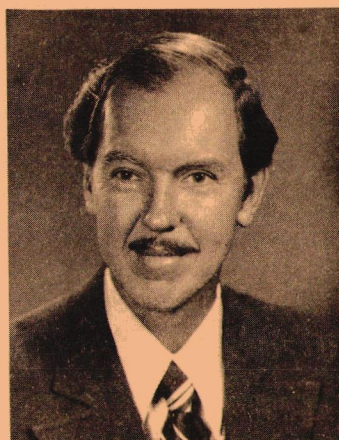
HONOR ROLL

330 Hatch Drive
Foster City, Calif.

N. J. HATTER CO.
Fisher Controls/Mission
Gene DeWree

Telephone
574-1300

MINUTES

President's Corner
RICHARD A. CHARLES


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Contact Membership Chairman:

Dart Rinefort - Carrier

(415) 658-6717

MAIL OR PHONE NEWS TO:

Jim Holden, Editor
 FOG DISPENSER
 161 Starlite Street
 So. San Francisco, Ca 94080
 Phone 871.8292

As part of our November meeting, we had as our guest 31 members of the Cal-Poly Air Conditioning Club. Their President, Steve Nelson and their program chairman, Paul Lagno, told me over and over again how much they enjoyed the evening's meeting and the speaker. It was also nice to notice that 24 Cal-Poly alumni were present. From all appearances, (it appears Hussmann Refrigeration of S. F. must have a corner on the Cal-Poly graduates.) I hope our Cal-Poly workshop chairman notices this fact, and receives a nice contribution from them for the workshop fund for the coming year. (The alumni present really inspired the Cal-Poly students to see how many of their alums had infiltrated our Bay Area heating, Ventilating and Air Conditioning Field.) At the conclusion of the meeting, I talked to Mr. Bill Phaklides who is the chairman of the air conditioning and refrigeration engineering technology department at California Polytechnic State University. He informed me that the president and other of the administrative staff really don't feel that the air conditioning department is a very valid part of the university. They, like other universities feel that air conditioning consist of purchasing a window unit, and installing in the window or the wall. Since this is the misconception among many educational people, I feel that it would be a worthy effort of ASHRAE, and our chapter in particular to enlighten the administrative people at colleges as to what our society really does do. If you are interested in assisting in this program, Please contact me and we will form a committee, and we will begin to get some real effort going.

Since Christmas is coming, and certainly before our next issue of the FOG DISPENSER, I would like to remind you once again that our Region 10 Conference will be in Hawaii on May 18-23 at the Hilton Hawaiian Village. I have just received a letter from the Island Holidays Convention People who are putting this package together, and they informed me that the rates that were published last year will raise slightly, and we will know these new rates in the next week or so. As soon as this information is available, it will be mailed to all members in Region 10 by them. Final reservations must be made by March 15, 1975. Why don't you plan now on attending, and making this a Christmas present for you and your wife.

I received a note from Dick Glumac, notifying me that our code committee has turned over to Mr. Goldberg recommendations on the air conditioning and refrigeration code and apparently he is in 98% agreement with their recommendations. We would like to thank Dick and his Code Committee and certainly Tom Campbell their chairman, for this fine effort that has been put forward.

Meeting was called to order at 8:15 p.m.

- 1) Motion, second and pass: Approved minutes of 10/3/74 meeting.
- 2) President Charles welcomed 31 student members from California State Polytechnic University and noted that, among our membership present, 23 are Cal Poly Alumni.
- 3) President Charles indicated that Stu Perkins, our Regional Director, together with Carl Deilgat, Regional Membership Chairman, and Wally Donally, Regional Energy Conservation Chairman, had met with our Board prior to tonight's meeting.
- 4) Stu Perkins reported that he had visited the Chapter for the purpose of obtaining ideas regarding his coverage of the Chapters in the region. The region contains too many chapters to be effectively covered by the Regional Chairmen.
- 5) Carl Deilgat presented to Lew Pollock, our past president, and Dart Rinefort, our Membership Chairman, the membership blue ribbon award for last year, and reported that we had an 8% membership increase during that year.
- 6) President Charles reported that 548 national members are assigned to our chapter; 340 are in the chapter.
- 7) Dart Rinefort reported on his Membership Committee activities.
- 8) President Charles reported that there are 121 members whose dues are presently delinquent.
- 9) Tom Gilbertson reported on the forthcoming Chapter technical seminar to start in late February. It is intended that the seminar cover details of the air conditioning industry, including electrical considerations, water treatment, start-up, motors, drives, etc.
- 10) After a short break, the meeting resumed with raffle awards.
- 11) Tom Campbell, chairman of the Code Committee, reported that the San Francisco Building Code is presently being updated to be similar to the Uniform Mechanical Code. He also reported that recommended revisions to the Uniform Code for garage ventilation are presently in a "hold" status by I.C.B.O.
 - a) He reported that new state noise regulations become effective 8/22/74; new state energy conservation regulations become effective 2/22/75.
- 12) A student representative of Cal Poly reported that near the end of April will be the Poly Royal Carnival, a time at which the campus will be open to visitors.
- 13) Bob McKee of Pacific Fruit Express made an excellent presentation on transport refrigeration. His keypoints were as follows:
 - a) Early ice bunker refrigerator cars were not cold enough for frozen foods. Most cold cars have become mechanically cooled. There are presently approximately 28,000 refrigerated rail cars in the United States.
 - b) The rail cars have a steel shell, wood studs and corrugated fiberglass inner walls, five inch polyurethane poured-in-place insulation -- 2 pound density.
 - c) The ceiling is a perforated supply air plenum. The slat floor acts as a return air collector.
 - d) The power plant is a 20 KW, 50 Hz, diesel plant with 500 gallon or 25 day fuel storage.
 - e) The refrigeration plant, which must withstand 10G acceleration forces, has an open type, R-12 compressor and air cooled open condensing system. The compressor has cylinder unloading and operates at 40 Hz during the low cooling range. (They plan to convert back to hermetic units.)
 - f) The system capacity is 20 MBH at 0 degrees, 40 MBH at 35 degrees, and 50 to 70 MBH at greater temperatures.
 - g) The system employs electric heat and electric defrost.
 - h) Car interior temperatures are held to + 1 degree F; RH is usually in excess of 90%; it takes 12 hours to cool down an empty car to 0 degrees F.
 - i) Travel time from California to New York is approximately 7 days by rail, 8 days by ship, and 3 days by truck.
 - j) Rail transportation is more favorable on a ton-mile basis in terms of cost, energy consumption and pollution emissions when compared to both truck and air travel.
 - k) Future transport refrigeration systems will probably employ the closed Brayton cycle.
 - l) Shippers are billed for transport refrigeration on the basis of fuel consumed by the system.

14) The meeting was adjourned at 10:30 p.m.