

ASHRAE Research

This has been a very active year for Golden Gate Chapter members. You've contributed your time, your expertise and your energy. And when we asked for money for ASHRAE Research, you were very generous. Thanks to all of you and your companies for your support of the Research program of our Society.

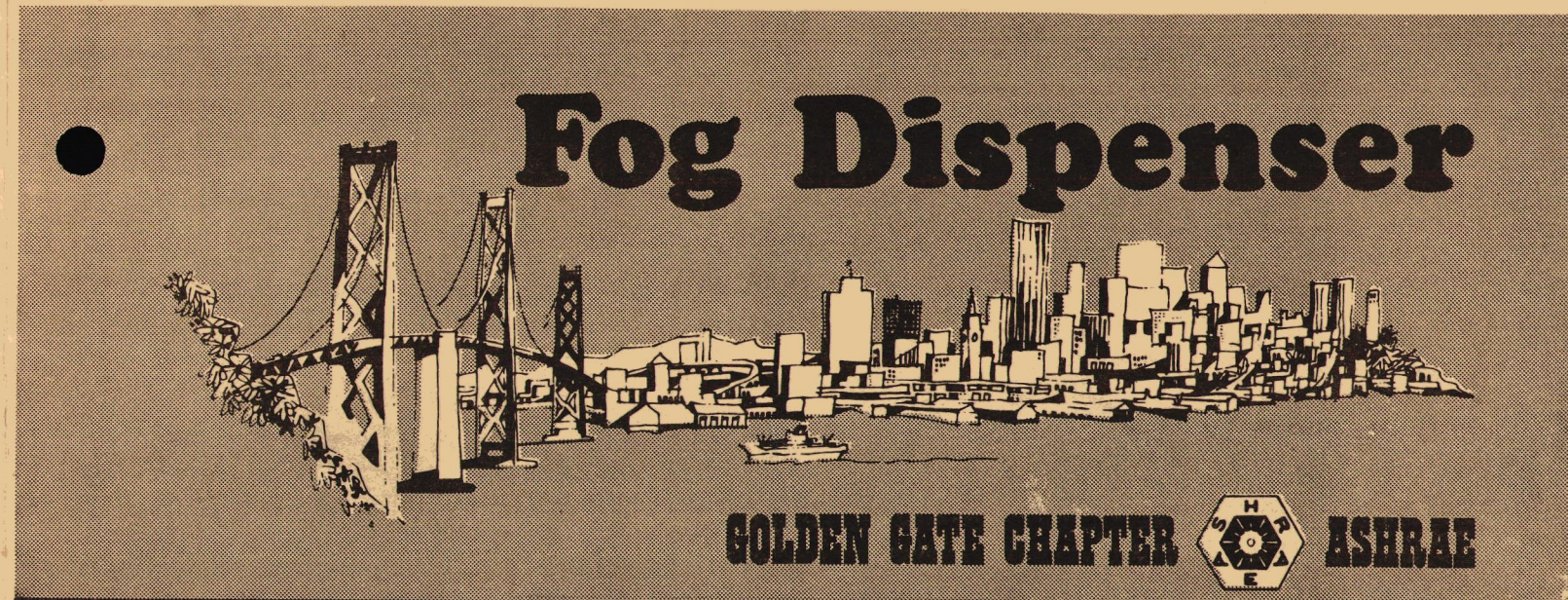
With a little luck, the following list includes all who contributed a total of \$4846.04. This has been a very successful ASHRAE Research campaign.

Barbara S. Dilts  
ASHRAE Research Chair

M. Bekedam  
Donald Bradshaw  
Robert S. Carter  
Richard A. Charles  
Robert A. DeChene  
Barbara S. Dilts  
Kevin F. Dowling  
Leo E. Dwyer  
Gordon E. Follette  
Richard Gee  
Jae Chun Hyun  
Fred E. Jacob  
Carl E. Jordan  
Richard R. Kingscott  
Miklos J. Kisiday  
John D. Kniveton  
William A. Kumpf  
Mon J. Lum  
William E. Marquardt  
Frederick H. McLaughlin, Jr.  
Donald E. McLeod  
Alice W. Meyer  
Constantin Mihaescu  
James G. Nemecek  
David Rifkin  
W. Dart Rinefort  
Paul A. Robinson, Jr.  
Kwong-Yuen Seung  
Charles Edward Shane, III  
Theodore J. Stalzer  
Wataru Takahashi  
Eugene L. Valerio  
Thomas J. White  
Clyde Wilson-Reid  
Max W. Wolff

ATS Products, Inc.  
Bay Point Control  
The Brose Company  
BWF Consulting Engineers  
Charles & Braun  
California Hydronics Corp.  
Delucchi Sheet Metal Work  
Dunn-Lee-Smith-Klein  
M. A. Encinger & Associates  
Energy Survey Engineering  
Engineered Data  
Fitz Consultants, Inc.  
Dick H. Fujioka  
Gayner Engineers  
Peter A. Hartdegen Company  
JMT Consultants, Inc.  
Johnson-Emerson Associates  
Kalman Mechanical, Inc.  
Lefler Engineering, Inc.  
Kent M. Lim & Co., Inc.  
Lincoln Air Conditioning  
R. F. MacDonald Company  
Marina Heating & Air  
Conditioning  
J. W. McClenahan Company  
Montgomery & Roberts  
J. L. Myers Company  
Pipe Shields Incorporated  
Polycold Systems, Inc.  
Practicon Associates  
S. & S. Engineering Sales  
Takahashi Consulting Engineers  
Tempco Equipment Co., Inc.  
Van-Mulder Sheet Metal, Inc.  
Edward B. Ward & Company  
Western Allied Corp.  
Wilson Ihrig & Assoc., Inc.  
G. J. Yamas Company, Inc.  
Eagleson Engineers, Inc

Air Filter Control, Inc.  
Aronovsky & Associates



# Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXV NO. 9

JUNE 1986

### MEETING NOTICE

### JUNE PROGRAM

DATE: JUNE 5, 1986  
SOCIAL HOUR: 5:30 PM  
DINNER: 6:30 PM

LOCATION: Engineers Club  
160 Sansome St., 16th floor  
S. F., CA (415) 421-3184

IF YOUR PLANS CHANGE, PLEASE BE SURE  
TO CANCEL DINNER RESERVATION(S) BY  
CALLING THE ENGINEERS CLUB BEFORE  
NOON OF THE MEETING DATE.

This evening honors spouses and Committee Chairpersons and also includes installation of incoming officers and Board members. We hope the Committee members will attend the meeting to receive their awards.

Featured guest speaker:  
Diane C. Wright, MFCC Marriage,  
Family, Child Counselor

Subject: "Marriage Counseling - Who  
needs it?"

Plan on coming to close out a special  
year for the Chapter.

\*\*\*\*\*

### HONOR ROLL

AIR TREATMENT EQUIPMENT CORPORATION  
"New Northern California Office"  
6116 Merced Ave., Suite 303  
Oakland, CA 94611  
(415) 530-0430

Manufacturers Representative  
David H. Eisenberg, P.E.

Featuring: Parametric Variable Speed Drives

Providing: Applications and Engineering assistance, payback analysis,  
sales, certified start-up and service coordination.

PRESIDENT'S MESSAGE



This is the time of year for many thank yous. Especially as Chapter President, you have to rely on other members, many of whom give hours and hours of their time with little thought of recognition. To those people, especially our Board members and committee chairmen, I give my thanks.

The CRC was a well conducted event this year in San Diego. It was educational and fun. Next year we will again have a chance to host a CRC and show our hospitality and next year is special for Golden Gate - it is our 50th anniversary. Many proud years! This should give us more impetus to show the rest of Region X our best.

At this year's CRC we presented a check to the Society for \$7500 for Research. With the individual

contributions this brings our total to approximately \$10,000. Congratulations!

Don't forget our tennis and golf tournaments this summer. And please - as a parting gift to me - don't let me finish last like I did in last year's tennis.

Last month's meeting was a field trip to 350 California St. It was well attended by about 110 people. Our appreciation to DiGiacomo Assoc., Scott Co., Johnson Controls Co., and the building owners for a good tour.

Our June meeting is always fun with the changing of the guard, awards, and special speaker. Dave Rifkin has a good program planned so plan on bringing your spouse and joining us for an enjoyable evening.

As I said at the beginning of my term, I feel it our privilege and duty to give back to our industry which supports us. It has been my privilege to be President but it has been my genuine pleasure as well. My thanks to all for your support. It's been great fun! I'm going to miss conducting those introductions!.

\*\*\*\*\*

PORTLAND MEETING UPDATE

Two forums not included with the published information for the Meeting have been announced:

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To meet publication dates, the following deadlines are presented as the last possible dates for FOG DISPENSER copy to be in the Editor's possession:

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MAIL OR PHONE NEWS TO:

Lance W. Almon, Editor
741-35th St.
Richmond, CA 94805
(415) 235-2789

1984-85 Officers

James Nemechek.....President
Dave Rifkin.....President-Elect
Dart Rinefort.....Secretary
Sherman Brown.....Treasurer

Board of Directors

Kevin F. Dowling
Gino Colacchia
Tom Reinarts

6/5/86

EMPLOYMENT OPPORTUNITIES

KENNEDY/JENKS/CHILTON is seeking a registered Mechanical Engineer to head the Mechanical Department in our Reno office. Minimum seven years experience in HVAC and piping design. Excellent salary and benefits. Contact W. Gassman, (415) 362-6065. EOE.

Position available for inside sales application engineer. Person with experience in HVAC wanted. Contact Gerry Yaffe, Tempco Equipment Co., (415) 467-8680.

\*\*\*\*\*

- 1) Forum for Chapter Officers, Tues., 6/24/86, 8:45 - 10:45 am
2) Forum on Design of Seismic Restraints for HVAC&R equipment, 6/23/86, 10:15 am

\*\*\*\*\*

TREASURER'S REPORT

Total assets: \$18,165.18
Total liabilities: 395.00
Equity: \$17,770.18

\*\*\*\*\*

The U.C. Extension course "Air Conditioning and Heating Psychrometry" will be offered starting 6/2/86 and running through 8/8/86, Monday nights, 6:30 pm - 9:00 pm at 55 Laguna St., San Francisco. This course is the first in the 4 course HVAC curriculum and the instructor will be Don Bryant, ASHRAE Fellow. The tuition is \$185.00 for the 12 sessions. Contact University of California Berkeley Continuing Education in Engineering at (415) 642-4151 for an application.

\*\*\*\*\*

ENGINEERS CLUB MEMBERSHIP

Please refer to the flip-side of the Tennis Tournament application (included with this issue) for information concerning a special, age-discriminating offer for becoming a member of the San Francisco Engineers Club.

\*\*\*\*\*

USS MISSOURI

Captain A.L. Kaiss will be the featured speaker at the June meeting of the San Francisco Post of the Society of American Military Engineers. Captain Kaiss' slide presentation will cover the reactivation and modernization of the USS MISSOURI. The meeting will be held 6/19/86 at the Presidio Officer's Club; cocktails at 6:00 pm, dinner at 7:00 pm followed by the program. Reservations required by 6/17/86, call 415-556-5630.

appointments to government boards or committees and liason with government officials are activities that qualify for points. If you as a Chapter member have participated in any of these activities over this last year, please let Norman Hum (398-7667) know so that our Chapter can receive the appropriate points.

\*\*\*\*\*

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\*\*\*\*\*

TENNIS: Mark your calendar for June 13 for the annual tennis bash. There will be an application form with the June Fog Dispenser; more information through Jim Lynn at 834-2430.

\*\*\*\*\*

NEW MEMBERS

- Mike Hanson, FMC
- Roger Loomis, Glumac & Associates
- Steve Nemece, HGP
- Dan Reiter, Montgomery & Roberts
- Peter Skillman, Design Engineering Services
- Ireneo C. Tabasa, Bentley Engineers
- Deborah Williams, Charles & Braun

\*\*\*\*\*

Embarcadero Freeway: The S.F. Post of The Society of American Military Engineers meeting 5/8/85 (6:00 pm, Presidio Officer's Club) will feature Quentin Kopp and Michael Stanton, AIA, addressing the issue of the Embarcadero Freeway. Reservations req'd., call 415-556-5630.

EMPLOYMENT OPPORTUNITIES

V.P. MANUFACTURING/OPERATIONS in a start-up -- all facets of manufacturing, production, warehousing, testing, MRP, facility planning -- lots of energy, talent and discipline required to make it! Salary and perquisites competitive for this Bay Area career opportunity. Call Steve: (415) 421-2010.

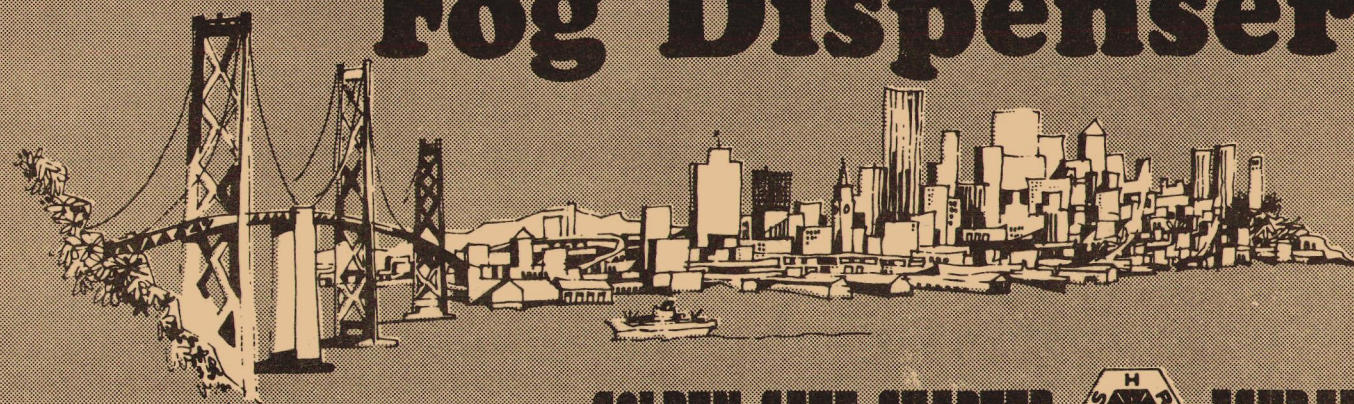
ENGINEERING MANAGER - ME with refrigeration experience in food industry is needed to set-up Q.C. in plant operations and field applications. Salary and perquisites excellent in this no politics small company environment in the Bay Area. Call Vici: (415) 421-2010.

\*\*\*\*\*

COMPUTER FOR RENT

Compaq portable (IBM-PC compatible) with two 360K floppy disk drives and 512K internal memory. Suitable for running Lotus 1-2-3 and the vast library of software written for the IBM-PC standard. Take it home and avoid the crush at the office PC! Rental proceeds will go to ASHRAE Research. Contact Lance Almon at (415) 235-2789 for details.

# Fog Dispenser



**GOLDEN GATE CHAPTER**  **ASHRAE**

VOLUME XXV NO. 8

MAY 1986

FIELD TRIP NOTICE

MAY PROGRAM

DATE: MAY 1, 1986  
TIME: 5:45 PM

LOCATION: Lobby of 345 California St.

Following the tour of the building there will be a no host dinner at La Fuente restaurant in Embarcadero 2.

The May meeting will be a tour of the 345 California St. building. This building is unusual in that the uppermost floors will be a hotel while the lower floors are slated for office use. This was a design-build project involving Scott Co. and W.A. Di Giacomo Associates. The building also features a digital-control building-automation / fire protection system.

\*\*\*\*\*

HONOR ROLL

TEMPCO EQUIPMENT CO., INC.  
P.O. BOX 400 / 100 NORTH HILL DRIVE #12  
BRISBANE, CA 94005  
(415) 467-8680

Gerry Yaffe  
Roy Skover  
Chuck Shane  
Eric Tinglof

Sherman Brown  
Glen Leggoe  
Bill Shanner

PRESIDENT'S MESSAGE



Left over from the Winter Meeting is a large wall map of San Francisco. It is our's to dispose of so we will be auctioning it off at the final meeting of the year in June. The proceeds of the Auction will go to Research so bring your checkbook to that meeting. The original cost was \$90 but there is no minimum bid.

Speaking of giving money away -- we have sent a check to Cal Poly in the amount of \$1895 for their Workshop fund. It's always a pleasure to see our donations going to a group that contributed so much to our industry.

You still have one week to let one of the Board members know if you have any resolutions to take to the CRC. Remember, this is your chance to have direct input into the running of our Society! The Board welcomes all suggestions.

The May meeting should be one of our best. Both the system and the process of coming up with the design are very interesting for this building. Come and see!

\*\*\*\*\*

APRIL MEETING MINUTES

Attendance: 62 Members  
13 Guests

President Jim Nemechek opened the meeting with self introductions.

I'm sure most of you have heard by now that Jim Holden passed away Saturday April 5th. Jim was a Past President and always a willing and tireless worker for ASHRAE. He was well known for his integrity in his business dealings and he was an asset in our community who will be missed by many. Our greatest sympathy goes to his wife, Mauricette.

ASHRAE has responded to a request for a people-to-people technology exchange with the People's Republic of China. It is my understanding that two members of the Golden Gate Chapter are traveling to China this spring to teach brief courses in HVAC, specifically Atma Advani of Safeway and Tom White (retired?) are the two members. That should be an adventure!

COPY DEADLINE

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6/5/86	5/23/86

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Richmond, CA 94805  
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1984-85 Officers	
James Nemechek.....	President
Dave Rifkin.....	President-Elect
Dart Rinefort.....	Secretary
Sherman Brown.....	Treasurer
Board of Directors	
Kevin F. Dowling	
Gino Colacchia	
Tom Reinarts	

Last month's meeting minutes were approved as published in the Fog Dispenser.

Marilyn Kind announced that there will be a reunion for the Cal Poly Air Conditioning Club Alumni on April 25th at the Campus. All are invited to attend.

Dick Charles encouraged all members to attend the CRC meeting in San Diego May 14-17. If you are interested in attending but need more specific information, call Dave Rifkin, Dick Charles or Dart Rinefort. Any ideas for improving the Society's operation or organization should be forwarded to one of the Board members so it can be presented at the CRC meeting in the form of a resolution offered by the Golden Gate Chapter.

Bob Lindford announced that the Tennis Tournament will be held June 13th. More information and details to follow.

Barbara Dilts requested that all members dig into their pockets and send in their Research donations. To date, only \$3000 has been collected. Much more participation is necessary for this year's goal to be reached.

President Jim Nemechek welcomed Barbara Dilts as the new Chapter Board Member for 1986-87 term.

After a brief recess, Raffle chairman Phil Williams conducted the Raffle.

Dave Rifkin introduced the speaker for the evening, Gary Harbison of Marley Company who spoke on the topic "Planning to Avoid Cooling Tower Misapplication Problems".

Gary discussed the differences between forced draft and induced draft cooling towers, explaining the relative advantages and disadvantages of each type. Gary also discussed:

1. Water carryover considerations.
2. Water filtration - must have a minimum of 5% of total flow for effective filtration.
3. Vibration isolation - recommended a minimum of 80% efficiency.
4. Defined the terms "range" and "approach".
5. Discussed design considerations for computer applications.
6. Suggested that most energy efficient overall system operation can best be achieved by allowing

tower to operate without speed or damper controls.

7. Advised that the most efficient tower selections can be achieved by decreasing the waterflow through the tower (higher delta T). Not only is the tower size reduced, but also pump and pipe sizes get smaller.

8. Recommended the use of gear drives over belt drives.

9. Described a method to reduce the discharge plume by parallel piping scheme.

10. Discussed common problems of recirculation, intake air restrictions and interferences, and suggested guidelines to eliminate these problems.

A question and answer session followed the presentation. Bob Voelz explained an experience with improper manifolding of multiple towers resulting in flow problems.

Dave Rifkin announced that next month's meeting will be a tour of 345 California Street building.

Meeting was adjourned by Dave Rifkin at 9:35 p.m.

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ASHRAE ENERGY AWARDS

ASHRAE will again be recognizing projects that have implemented successful energy management techniques. Awards will be made in 5 categories covering various types of buildings in new construction as well as retrofits. If you have a project that you would like to enter, please contact Norman Hum at 398-7667 for more details and entry forms.

\*\*\*\*\*

PRESIDENTIAL AWARD OF EXCELLENCE

Each year ASHRAE presents the "Presidential Award of Excellence" to the Chapter that has been most active in the field of energy management.

Points are accrued toward this award when the local Chapter participates in energy management activities. Energy talks to professional or business groups, input to legislative groups,

Meeting of The Society of American  
Military Engineers

The April meeting's topic will be Linking Schools to the Workplace and will be presented by Lin Ishihara, Director of the Corporate Action Committee, a school/business consortium in San Francisco. Also taking place at this meeting will be the annual presentation of the Post Scholarships to outstanding Bay Area engineering students.

You are invited to join the San Francisco Post for an evening dedicated to the up-and-coming young professionals on 10 April at the Presidio Officers' Club. Cocktails begin at 1800, with dinner at 1900 followed by the program. The cost for the evening is \$15.00 (\$7.50 for individuals under 30). Reservations may be made by calling (415) 556-5630 by 1200 on 10 April.

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NEW MEMBERS

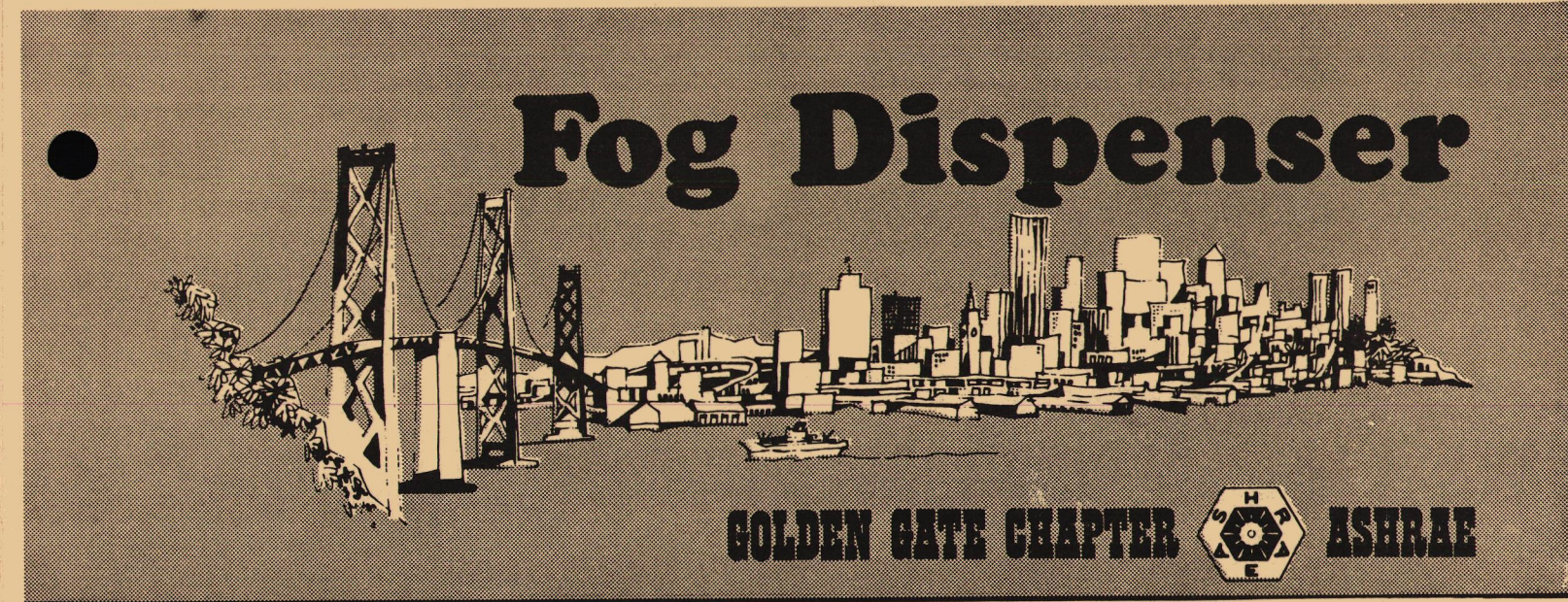
- Al Badakhshan, Flack + Kurtz Engrs
- Dick Holt, Ocean Shore Boiler Works
- Bob D. Hooker, SMACNA of San Francisco
- Eric C. Johnson, Amelco Mechanical
- Roger Kruse, Scott Co.
- Suresh Pichai
- Syed Ahmed Raza, Aladdin Heating Corp.
- Perry Saroya, Bechtel Corp.
- Duke West, Manville Corp.

\*\*\*\*\*

EMPLOYMENT OPPORTUNITIES

Wanted - Application Engineer

BSME with HVAC systems, controls and computer experience. Challenging opportunity with innovative DDC Controls manufacturer. Send resume to T.L Webster, Energyline Corp., 26500 Corporate Ave., Hayward, CA 94545.



VOLUME XXV NO. 7

APRIL 1986

MEETING NOTICE

APRIL PROGRAM

DATE: APRIL 3, 1986  
 TIME: 5:30 - 6:30 PM SOCIAL HOUR  
 6:30 - DINNER  
 8:00 - MEETING / PROGRAM

LOCATION: Engineers' Club  
 160 Sansome St., 16th Floor  
 S.F., CA (415) 421-3184

IF YOUR PLANS CHANGE, PLEASE BE SURE  
 TO CANCEL DINNER RESERVATION(S) BY  
 CALLING THE ENGINEERS' CLUB BEFORE  
 NOON OF THE MEETING DATE.

April's program title is Planning to Avoid Cooling Tower Misapplication Problems which will be presented by Gary Harbison, District Manager, Marley Co. and also the Education Chairman of our Chapter.

\*\*\*\*\*

HONOR ROLL

Norman Wright Mechanical Equipment Co., Inc.  
 850 Harrison St.  
 San Francisco, CA 94107  
 (415) 777-5333, Telex 34-0431

- Jack Kniveton
- Bob Kodak
- Jim Plakos
- Mike Cadoo
- Linus Quinlan

- Richard Leao
- Dick Byers
- Larry Kent
- Russell Fike

PRESIDENT'S MESSAGE



I remind you again that Dart Rinefort, who will be our program chairman next year, is anxious to hear your suggestions for topics for Chapter meetings. This year we have the highest meeting attendance in our Region X and it is to a large degree due to the programs. Your faithful attendance is appreciated as will be your suggestions.

In May we will be sending our delegates to the Committees' Regional Conference in San Diego. At these meetings we will have a chance to introduce resolutions aimed at making changes which we feel will improve the Society. This is your chance! We encourage you to let one of the Board members hear your suggestions so the delegates can present them.

A special note of thanks..... to our very patient and talented editor, Lance Almon, who faithfully puts this newsletter together every month. We appreciate the good work!

One thing I forgot to mention at last month's meeting (we must have covered every other conceivable topic): It is gratifying to see all the young faces at the meetings. Even though it makes some of us feel old, we love to see the interest.

PGandE announced the dates of this year's Energy Expo. It will be held at the Oakland Convention Center April 30th through May 2nd. This will be a good opportunity to go see what's new in the energy conservation field.

See you at the April meeting!

Those of you who missed last month's meeting missed a good one. We heard a good, very professional speaker talk about sound attenuation and in addition we had a fun time. Most notably, we nominated Barbara Dilts as candidate for the position of Board Member. We congratulate Barbara! The official counting of ballots will be before the April meeting and the results will be announced at that time. My thanks to the Nominating Committee: Karl Guttman, Carl Jordan, Jim Taylor and Phil Williams.

Please don't forget the Seminar on April 9th. This is our big fund raiser for the year and accounts for the majority of our Chapter's contribution to Research. The topic is Indoor Air Quality and the day promises to be very informative.

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Sherman Brown.....Treasurer

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Gino Colacchia  
Tom Reinarts

MEETING MINUTES FOR 3/6/86

ATTENDANCE: Members 68  
Guests 20

President Jim Nemechek opened the meeting at 7:35 p.m. with self-introductions.

Last month's meeting minutes were approved as published in the Fog Dispenser.

Barbara Dilts, Research Chairperson, announced that all members would soon receive a letter urging them to contribute to the Research Fund.

The goal is to exceed last year's donations. So far, \$1,801.04 has been collected.

Dick Charles, Region X Chairman, complimented all those Chapter members who helped make the Winter Meeting so successful. Attendance exceeded the Chicago Meeting attendance, surprising all Society and ARI officers. Dick also reminded everyone that the Regional Conference was going to be held on May 15, 16 and 17 in San Diego. Region X is the first region in the country to host the "Regions at Large".

Jim Nemechek complimented Tom White for the fine article on organizing a Winter Meeting, recently published in the Journal.

President Nemechek announced that it was time to elect a new Board Member and re-elect present Board Members. The Nominating Committee selected Barbara Dilts as the new Board Member. Additional nominations from the floor were requested. None were received and further nominations were closed.

Jim Nemechek explained that the ballot mailed out with the Fog Dispenser was intended to be a sample ballot only. However, many members returned their marked-up ballots anyway. It was moved and approved that these ballots would become the official ballot and all members who had not mailed in their ballot should do so immediately.

After a short break, Phil Williams, Raffle Chairman, conducted the Raffle for which there were three winners.

President Elect Dave Rifkin requested that all members be sure to mail in their dinner registration

cards (or phone the Engineers' Club) to avoid penalty assessments for no-shows. Dave also explained that he had received several letters of complaint from the membership about the food service at the Engineers' Club. He has written a letter to the Club management explaining the membership's discontent.

Dave Rifkin introduced the speaker for the evening, Mr. Robert Schmidt of IAC, who spoke on the topic "Engineered Noise Control".

Bob explained the distribution of noise through components of the duct system, N.C. curves and room effect values. Bob also discussed:

1. Test standards rating different traps for both forward and reverse flow.
2. Discharge diffuser silencer and its space saving advantages for use with vane axial fans which helps maximize fan performance by taking advantage of static regain.
3. Special packless silencers specifically designed for use in hospitals, laboratory hood exhausts, clean rooms, etc., where direct contact with fiberglass liner is prohibited.

4. Radiated noise.
  5. Common design errors made by mislocating traps in air distribution systems.
- After a brief question and answer session, the meeting was adjourned at 9:10 p.m.

\*\*\*\*\*

ASHRAE Research: What an Opportunity

The checks to support the valuable work of ASHRAE Research have started to flow in. Is your's among them? If not, don't wait! Make your check payable to ASHRAE Research and send it to:

Golden Gate ASHRAE  
370 Brannan St.  
San Francisco, CA 94107

Remember, every little bit helps and a lot helps more. Please be as generous as you can.

EMPLOYMENT OPPORTUNITIES

Position available for experienced Sales Engineers and Sales Reps. for the San Francisco Bay Area and Los Angeles Area. Will Train in certain areas. Contact Willie Gee at 415-348-0555.

Research already has \$1,616.79 thanks to Chapter members and your companies who have sent contributions to Atlanta.

This is our chance to support the valuable research programs of our Society. Last year our Chapter contributed more than we ever had before. We ought to do even better this year with your help.

- 1. Sign up for the Seminar!
2. Encourage your company to contribute to ASHRAE Research!
3. Send money!

Make checks payable to ASHRAE Research. Send to: Golden Gate ASHRAE c/o Duplicating Associates 370 Brannan St. San Francisco, CA 94107

Let's make this the most successful campaign ever!

Barbara Dilts
Research Chair

\*\*\*\*\*

MEMORANDUM

To: Session Monitors, S.F. Meeting
From: Jim Norman, Manager of Technical Services

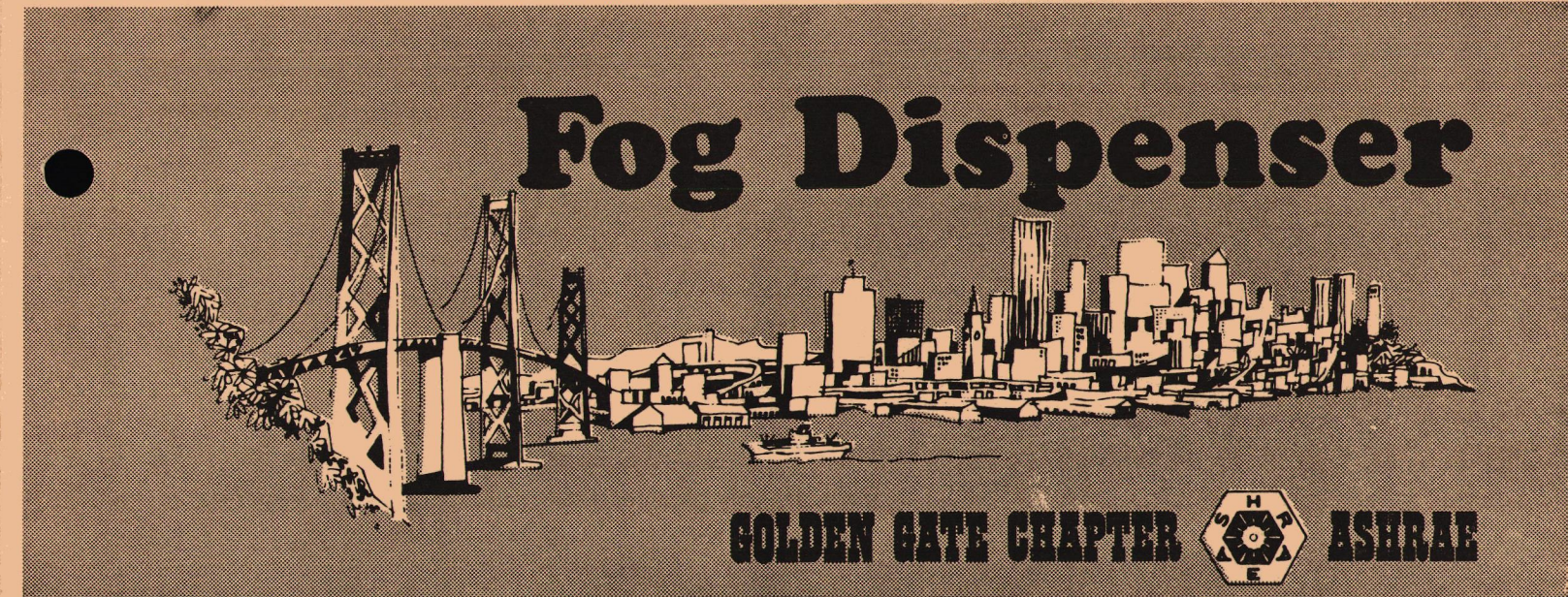
On behalf of the ASHRAE Program Committee, I would like to thank you for your recent efforts as monitors at the recent Society Meeting in San Francisco. It was a real team effort which succeeded in keeping the program running smoothly in spite of occasional problems.

The success of an ASHRAE meeting depends in great part on the support of the Host Chapter. Everyone I have talked to thought that the San Francisco meeting was a great success, and you deserve much of the credit.

\*\*\*\*\*

NEW MEMBERS

- Henry DeLima, DeLima Associates
Roger Goetsch, Honeywell Com'l Div
Rob Kahn, PGandE
Ralph A. Maltese, PGandE
Daryoush Nafar
Mark Redmond, Syska & Hennessy



VOLUME XXV NO. 6

MARCH 1986

MEETING NOTICE

MARCH PROGRAM

DATE: MARCH 6, 1986
TIME: 5:30 - 6:30 PM SOCIAL HOUR
6:30 - DINNER
8:00 - MEETING / PROGRAM

LOCATION: Engineers' Club
160 Sansome St., 16th Floor
S.F., CA (415) 421-3184

The March program's subject will be New Developments in Engineered Noise Control ("non-commercial"). The speaker will be Mr. Bill Fry of Industrial Acoustics Co., Bronx, N.Y.

IF YOUR PLANS CHANGE, PLEASE BE SURE TO CANCEL DINNER RESERVATION(S) BY CALLING THE ENGINEERS' CLUB BEFORE NOON OF THE MEETING DATE.

\*\*\*\*\*

HONOR ROLL

Westates Pacific Company, Inc.
199 First St., Los Altos, CA 94022
415-948-9694

- Dale Briggs
Duane Harrison
Paul Hanzel
Reanie Chaudry
Lori Malmgren
Kurt Schoening
Jeff Cushing

- Peter Carmel
Paul Hanzel
Sharon Adams
Al Heer
Bill Peralta
Lousie Stall

PRESIDENT'S MESSAGE



Meeting Topics: Good topics and speakers are essential for the well being of our Chapter and arranging for them is one of the hardest jobs on the Board. Dave Rifkin has done a great job as Program Chairman this Year, but he will be handing this responsibility over to Dart Rinefort as next year's Chairman. Now is the time for your input! Please let Dart know your main interests.

Research: When Barbara Dilts calls on you, please be responsive. If each Chapter member gave a \$10 tax-deductible donation, it would be almost \$5,000.

Board of Directors Election: You will receive your sample ballot before the March meeting. Additional nominations can be made from the floor at that time. Otherwise the list of nominees will stand as submitted.

Golden Gate History: Tom White has compiled a short history of the Chapter. We have had (200) copies printed and they will be available at the March meeting.

CRC '86: Elsewhere in this Fog Dispenser is more detailed information regarding this meeting. These are the meetings where the most important input to the Society is made from the individual regions. If you've never attended one, they're great fun and very beneficial. It's in San Diego this year and that should be an additional incentive. The dates are May 15 thru 17.

Professional Development Seminars: This seminar program is an important service being offered by the Society for the benefit of its members and those closely associated with our industry. There will be seven different topics offered this spring in eighteen locations - some as close as San Diego. A complete listing is in the Journal. Incidentally, we get PAQE points as well as a partial cash refund if we exceed our Chapter quota which is eight.

Cal Poly Workship Funds: During the past two fiscal years, we have donated \$1895 to this fund. These funds go directly to the students in the form of scholarships and stipends for performing work which cannot be funded any other way.

COPY DEADLINE

To meet publication dates, the following deadlines are presented as the last possible dates for FOG DISPENSER copy to be in the Editor's possession:

MEETING DATE	DEADLINE
3/6/86	2/21/86
4/3/86	3/21/86
5/1/86	4/18/86
6/5/86	5/23/86

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Richmond, CA 94805  
(415) 235-2789

1984-85 Officers

James Nemechek.....President  
Dave Rifkin.....President-Elect  
Dart Rinefort.....Secretary  
Sherman Brown.....Treasurer

Board of Directors

Kevin F. Dowling  
Gino Colacchia  
Tom Reinarts

MEETING MINUTES FOR 2/6/86

ATTENDANCE: Members 64  
Guests 15

President Jim Nemechek opened the meeting at 7:25 p.m. with self-introductions.

Last month's meeting minutes were approved as published in the Fog Dispenser.

Jim Nemechek presented the following nominating committee which was seconded and approved by the membership: Carl Guttman, Carl Jordan, Jim Taylor and Phil Williams. The bylaws state that the present Chapter President will serve as an ex-officio member.

Seminar Chairman Steve Taylor announced that this year's seminar would be held on April 9th at the PGandE auditorium. The subject is "Indoor Air Quality".

Jim Nemechek presented a special award for Tom White. Tom then recapped the Winter Meeting results and thanked all of the Chapter members for the good efforts and support. Many complimentary letters were received from President Bahnfleth, Regional Chairmen and others at the National level, praising the Golden Gate Chapter's organizational work and cooperation.

Barbara Dilts, Research Chairperson, stated that contributions were already in high gear and she was hopeful in surpassing last year's donations.

Phil Williams conducted the raffel. Winners were Glenn Claycomb, Dick DeBrine and Bob Voelz.

Dave Rifkin introduced the speaker, Dave Born, of Dow Chemical Company, who spoke on the subject of Inhibited Glycol. Dave was assisted by Marve Bourelle in the presentation.

Dave reviewed some of the characteristics of Glycol:  
1. Lowers freezing point of water.  
2. Raises boiling point of water.  
3. Contracts when it solidifies.  
4. Ethylene glycol is toxic, but propylene glycol has a very low toxicity level (is used in beer and wine production).  
5. Inhibited glycol reduces the rate of corrosion in solder and cast iron

materials. DO NOT use with galvanized pipe.  
6. Heat transfer is reduced by glycol solutions by approximately 15% for a 50% concentration; 10% for a 20-30% concentration.

Dave outlined the various uses of glycol solutions:

1. HVAC - both domestic and commercial.
2. Fire protection systems.
3. Swimming pools.
4. Recreational vehicles.
5. For secondary cooling in food processing, ice skating rinks and process chilling.
6. For secondary heating including solar panels, pipeline tracing and snow melting.

After a brief question and answer period, Dave Rifkin adjourned the meeting at 9:00 p.m.

\*\*\*\*\*

OBITUARY

We regrettably announce the passing of Reg Cushing, Life Member and Past President 1950-1951. Formerly local branch manager of Honeywell and forty year employee, Reg recently was with J.G. MacPhee Co. in San Rafael. Active in local plumbing and heating associations, and an avid golfer, Reg will missed by many.

\*\*\*\*\*

CRC PRELIM. INFO.

PLACE: HANAIEI HOTEL, HOTEL CIRCLE, SAN DIEGO, \$75 SINGLE / \$80 DOUBLE.  
5/14: COMPUTER SEMINAR (OPTIONAL)  
5/15: GOLF & TENNIS TOURNAMENTS PLUS COCKTAIL RECEPTION (EVE).  
5/16 & 17: GENERAL SESSIONS, WORKSHOPS AND TECH SESSIONS ON CONTROLS AND INCINERATION WASTE HEAT RECOVERY.

RESERVATION FORMS WILL BE FORWARDED IN MARCH.

\*\*\*\*\*

WE'RE OFF TO A GOOD START

The annual campaign for ASHRAE

GOLDEN GATE SEMINAR

This year our Chapter's Seminar will be entitled "Indoor Air Quality". The seminar will cover the causes, effects and solutions to poor indoor air quality in buildings. The Seminar will be on Wednesday April 9, 1986 from 8:00 AM to 4:30 PM at the Pacific Gas and Electric Co. auditorium located at 245 Market St., San Francisco. The cost is \$135.00 for advance registration or \$150.00 for late registration. Price includes lunch. For further information contact: Steve Taylor (415) 834-2437 or Matt Goff (415) 367-8310 or send a check to: ASHRAE TECH SEMINAR, C/O Gino Colacchia, Kalman Mechanical Inc., 800 Jones St., Berkeley, CA 94710

\*\*\*\*\*

NEW MEMBERS

- Peter Bryon, Broadway Mechanical
- Meng-Hsiu Chen, Hawk Engineers
- James Horn, James Horn, P.E.
- Jim Gorman, Owens-Corning Fiberglas
- James Hill, M.K. Ferguson
- Ken Horsfall, Linford Engineering
- Jae C. Hyun, Tong Yang Cement Corp.
- Bob Jensen, University of Calif.
- Suzanne Kirk, Bechtel Power Corp.
- John Lumetta, MCC Powers
- Ronald E. Mark, ELMCO Sales, Inc.
- Tom McKewan, Marion, Cerbatos & Tomasi
- Don Nazzal, ACCO
- A.E. Osburn, Kalman Mechanical
- Walter Stethem, PACO Pumps
- Dawn L. Rollins, University Mech.
- Richard H. Vogel, Flack & Kurtz
- David Weiser, Staefa Controls
- Gay Yamagiwa, Honeywell, Inc.

\*\*\*\*\*

PSYCHROMETRY CLASS STARTS FEB. 3

A 12-session evening class in air conditioning and heating psychrometry will begin Feb. 3 in San Francisco. The first class in a four-course HVAC-R curriculum developed by UC Berkeley Extension and the Golden Gate Chapter of ASHRAE. It will provide a working knowledge of the

physical principles and the methods of measurement that are basic to psychrometric processes.

Donald C. Bryant, Sr., an ASHRAE Fellow and emeritus faculty member of the engineering department at City College of San Francisco, is the course instructor. Class meetings are scheduled for Mondays from 7 to 9:30 PM in the conference center on the lower level of St. Mary's Cathedral, 1111 Gough St. Parking is available on the premises. The course fee is \$185 and enrollees may earn two units of UC Extension credit in mechanical engineering.

For more information about the course or the HVAC-R curriculum, or to enroll call (415) 642-4111 or write to UC Extension, 2223 Fulton St., Berkeley, CA 94720.

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BAY AREA ENG. COUNCIL AWARDS BANQUET

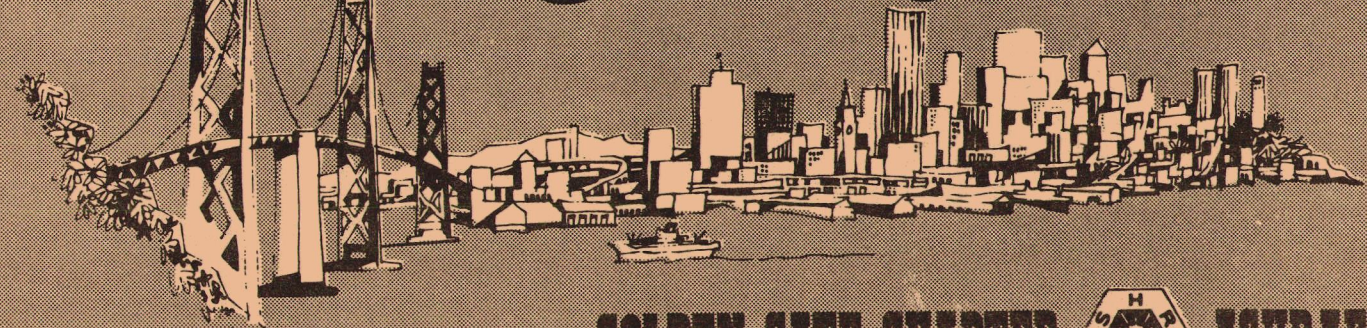
As part of Engineers' Week (Feb 16-22, '86), the Bay Area Engineering Council will present an Awards Banquet 2/20/86 at the Hyatt Regency Hotel. For reservations copy the form printed in the January Fog Dispenser or call Eugene Chan at (415) 972-1896.

\*\*\*\*\*

POSITION WANTED

Mature gentleman desires position in the Mechanical Engineering field, B.S.M.E., very familiar with computer programming. Contact Murari Laroia, (415) 659-8834.

# Fog Dispenser



**GOLDEN GATE CHAPTER**



**ASHRAE**

VOLUME XXV NO. 5

FEBRUARY 1986

MEETING NOTICE

FEBRUARY PROGRAM

DATE: FEBRUARY 6, 1986  
TIME: 5:30 - 6:30 PM SOCIAL HOUR  
6:30 - DINNER/MEETING  
8:00 - PROGRAM

LOCATION: Engineers' Club  
160 Sansome St., 16th Floor  
S.F., CA (415) 421-3184

IF YOUR PLANS CHANGE, PLEASE BE SURE TO CANCEL DINNER RESERVATION(S) BY CALLING THE ENGINEERS' CLUB BEFORE NOON OF THE MEETING DATE.

February's program topic is titled: Glycol Additives for Refrigeration and Air Conditioning systems, an Engineering dicussion.

The speaker is Dave Born, of Dow Chemical.

\*\*\*\*\*

HONOR ROLL

Kalman Mechanical, Inc.  
800 Jones St.  
Berkeley, CA 94710  
(415) 524-8094

Gene Kalman  
Gino Colacchia  
Al Osburn  
Murray Kobrin

PRESIDENT'S MESSAGE



long and hard to get the meeting here in San Francisco and to organize the meeting itself. The effort was great and so was the meeting!

Now back to the more mundane business of our normal Golden Gate Chapter lives. At the February meeting, I will suggest a slate for a nominating committee to select candidates for the Chapter Officers and Board of Governors for next year. Our by-laws state this Committee should be elected by the Chapter. The elections will be held, as usual, at the April meeting.

The seminar has been set for April 9 so make a note of that date. Details will be coming soon from Chairman Steve Taylor and Vice-Chairman Matt Goff.

Dave Rifkin has a good meeting prepared for us on Feb. 6 at the Engineers' Club. See you there.

\*\*\*\*\*

Minutes of January Meeting

MEETING OF JAN. 9, 1986

Attendance: Members 110
Guests 15

President Jim Nemechek opened the meeting with self-introductions at 8:15 p.m. after a delightful Chinese dinner at the Sun Hung Hueng restaurant.

Last month's meeting minutes were approved as published in the December issue of the Fog Dispenser.

What could they do for an encore? Our Chapter Committee did a terrific job of handling the Winter Meeting. I'm sure those of you who attended are very pleased with the outcome. It was one of the largest meetings ever held, even supassing last year's Chicago meeting. There were 3,062 registrants for the Technical Sessions and 14,000 for the equipment exposition in Moscone Hall. All of the social events were equally well attended. In fact, we stretched the hotel's capacity for several of the functions.

We should all recognize and thank the Committte Chairmen and their spouses for the excellent job: Dick Glumac, Carl Jordan, Jack Palmer, Jim Taylor, and Jim Holden. Our congratulations go especially to Tom White, the Meeting Chairman, who worked

COPY DEADLINE

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Board of Directors

Kevin F. Dowling
Gino Colacchia
Tom Reinarts

President Nemechek asked for volunteers to house visiting Cal Poly students Sunday night, January 19 and Monday night, January 20, while they attend the ASHRAE Winter Meeting events and Exposition.

Dick Charles, Region X Chairman, reminded everyone about the joint Region X-Region XI dinner being held at Neptune's Palace at Pier 39 on Monday night, January 20. Call Dick Charles for reservations. Cost is \$20 per person, including tax and tip.

Dick Charles introduced his guests, Dr. & Mrs. Dranislua Todorovic, visiting Professors in Mechanical Engineering from Belgrade, Yugoslavia.

Dick Glumac, Sessions Chairman for the Winter Meeting, announced that the assignments for monitor duty were complete and would be mailed this week. Alternate names were listed under each session. If scheduled monitor could not attend as assigned, then alternate was to be contacted.

Tom White, Winter Meeting General Chairman, expressed his thanks to the Chapter members for their support and enthusiasm in organizing the Winter Meeting programs.

Tom White also announced that Jim Holden was recovering from his recent illness.

After a brief recess, President-elect Dave Rifkin introduced the speakers for the evening: Richard Jones and Bill Thompson of Mina Corporation.

An informative presentation on Fiberglass duct fabrication and installation followed supported by color slides.

The meeting was adjourned by Dave Rifkin at 9:35 p.m.

\*\*\*\*\*

WINTER MEETING: CHAIRMAN'S REPORT

The Meeting was a Block Buster! The total registration was 3062 including 551 Spouses. This far surpasses the big International shows held in Chicago. The registrants for our Exposition are expected to exceed 14,000 and the company is now talking to the Moscone Center for space in 1998 which may require double decking Moscone.

Gary Treat's welcome party drew 906 and the cheese did not run out. The Historical Tour of San Francisco had 297 and more could have participated except for logistics. At the President's Luncheon there were 676 and the Banquet drew 659. The Museum Tour captivated 138 and 123 visited the San Ramon Pac Bell facility on the Technical Tour. Demand for the Tours was heavy and many more tickets could have been sold. Dick Debrine also had 8 for golf.

Our guests enjoyed themselves! I was congratulated by people I knew and by many I had never seen before. The Golden Gate Chapter can take pride for having hosted a fine meeting!!

Tom White

\*\*\*\*\*

A TOUGH ACT TO FOLLOW

The Winter Meeting was a HUGE success thanks, in part, to the hard work of Golden Gate Chapter members. Hope everyone gained a lot from the meetings and show.

And now we need you again to help ASHRAE Research. Last year the Golden Gate Chapter contributed \$15,754.50 to ASHRAE Research. This was a record for our Chapter and second only to the Southern California Chapter in our Region. Most of the contributions came from last year's highly successful educational seminar. The rest came from you and your companies.

Help us make this year's research campaign even more successful than last year's:

- 1. Sign up for the seminar!
2. Send money!

Make checks payable to ASHRAE Research and send them to: Golden Gate ASHRAE, C/O Duplicating Associates, 370 Brannan St., San Francisco, CA 94107.

Barbara Dilts, Research Chair

temperatures run 170 degrees to 220 degrees F.

5. Grease filters should be cleaned DAILY.
6. Ductwork from grease exhaust hoods should be cleaned monthly.
7. Some jurisdictions require separate exhaust systems for char-broilers. Important to confirm with local code officials.

The meeting was adjourned at 9:15 p.m. by Dave Rifkin.

\*\*\*\*\*

TREASURER'S REPORT

Assets: \$12,430.63  
 Liabilities: \$ 395.00  
 Equity: \$12,035.63  
 \*\*\*\*\*

FREE SEMINAR

Bruel & Kjaer Instruments is holding a free seminar at their offices. All interested ASHRAE members are invited:

Date: January 24, 1985  
 Time: 8:30 am - 12:00 noon  
 Location: 1151 Triton Drive, Suite B, Foster City  
 Speaker: Niels Christensen  
 Topic: Human Environments & Thermal Comfort Measurements

Call Tom Boles at Bruel & Kjaer Instruments at (415) 574-8100 for further information. RSVP requested.

\*\*\*\*\*

SAN JOSE CHAPTER SEMINAR

San Jose Chapter's Seminar will cover Ice Storage and will be held at SRI International on February 27, 1986. A flyer will be sent to all Golden Gate members covering details.

\*\*\*\*\*

BAY AREA ENG. COUNCIL AWARDS BANQUET

As part of Engineer's Week (Feb. 16-22, '86), the Bay Area Engineering Council will present an Awards Banquet 2/20/86 at the Hyatt Regency Hotel. For reservations copy the form printed in this Fog Dispenser or call Eugene Chan at (415) 972-1896.

The Bay Area Engineering Council Presents  
**A Gala Awards Banquet**  
 at the Hyatt Regency Hotel,  
 Embarcadero Center, San Francisco,  
 to celebrate 1986 Engineers' Week  
 Thursday, February 20, 1986

Our distinguished guest speaker is Arthur Fox,  
 editor of Engineering News-Record, the  
 industry's most widely read publication.

Reception/No Host Bar 5:30 p.m.  
 Dinner 7:00 p.m.

Banquet Reservation Form

To the Chairman, Engineers Week Banquet Committee

Mr. Eugene K. Chan  
 Pacific Gas and Electric Co.  
 Room 2601  
 77 Beale Street  
 San Francisco, CA 94106  
 (415) 972-1896

Please reserve \_\_\_\_\_ tickets at \$27.50 each in my name.

Check for \$ \_\_\_\_\_ payable to Engineers' Week Fund, is enclosed.

Mail tickets to me at my address shown.

Hold tickets for pick-up at the banquet.

I want to sponsor a runner-up zone winner and his/her scholarship counselor to attend the banquet at my table (\$55). Please contact me regarding the arrangements.

Please Print Plainly or Type

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Business Phone \_\_\_\_\_

Reserve \_\_\_\_\_ places, if possible, at table with:

\_\_\_\_\_ Society or Firm Name

Signature \_\_\_\_\_



VOLUME XXV NO. 4

JANUARY 1986

MEETING NOTICE

JANUARY PROGRAM

DATE: JANUARY 9, 1986  
 (NOTE WE HAVE CANCELLED THE JAN. 2 MEETING)  
 MEETING PLACE: SUN HUNG HUENG REST.  
 744 WASHINGTON ST.  
 SAN FRANCISCO, CA  
 COCKTAILS: 5:30 pm (CASH BAR)  
 DINNER: 6:30 pm - 8 COURSE DELUXE CHINESE DINNER  
 COST: \$15.00 PER PERSON \*

This month's program topic will be Fiberglass Duct Systems and Applications presented by Richard Jones of Mina Metals.

\*\*\*\*\*

\* RESERVATIONS MUST BE MADE TO DAVE RIFKIN WITH CHECK BY JANUARY 2, 1986. NO CHECK, NO DINNER. THIS IS ABSOLUTE - NO DEVIATION. CHECKS MUST BE MADE PAYABLE TO GOLDEN GATE ASHRAE AND SENT TO D. RIFKIN @ COMPUTER CONDITIONING SYSTEMS, BOX 1978, SAN LEANDRO, CA 94577, (415) 483-1701.

NOTICE TO MONITORS

Dick Glumac and John Brose would like all monitors who have volunteered to work the 1985 Winter meeting to attend a brief session before the January Chapter meeting from 5:30 to 6:00 pm for some last minute instructions and a Question & Answer period.

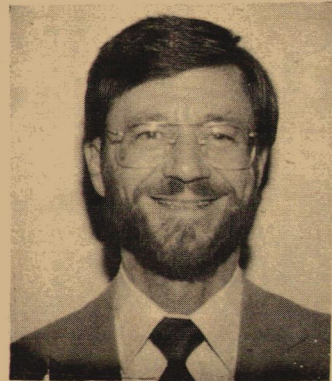
\*\*\*\*\*

HONOR ROLL

F.H. McLaughlin Co., Inc.  
 Hunter McLaughlin  
 (415) 592-8765

MARLO COIL / NUCLEAR COOLING, INC.: Industrial and Commercial Heat Transfer Equipment and Air Handling Systems.

PRESIDENT'S MESSAGE



The Society is trying to upgrade its bibliography of computer programs for the HVAC field. They invite any individuals and software companies to submit their program listing to be included in the bibliography. There is a nominal fee for listing the programs. The Society neither certifies nor endorses these software programs but only wishes to provide the bibliography as a service to the members. Please contact me if you need further information.

Interesting fact - there are (40) members in the Bay Area who serve in some capacity on the Society level; that is, on National or International Committees. That is a high percentage and something we can be proud of.

Don't forget the special date and place for our January meeting. It should be a good one. We like to have spouses at any meeting but especially this one if your spouse is involved in the Winter Meeting. See you there.

\*\*\*\*\*

Minutes of December meeting

Attendance: 83 MEMBERS
18 GUESTS

President Jim Nemecek opened the meeting at 7:30 with self-introductions.

Last month's meeting minutes were approved as published in the Fog Dispenser.

In this Holiday season the Board wishes all of you a Happy Christmas and a prosperous and healthy New Year.

The coming year will be busy with ASHRAE events which are in various stages of planning. The main attraction of course, is the Winter Meeting in January. This is a rare opportunity for most of us to attend equipment displays. It should be especially beneficial to the younger members of our industry. I urge you all to encourage as many people as you can to attend.

Other events to keep in mind include our own Seminar now scheduled for early April. Steve Taylor is the Chairman and his Vice-Chairman is Matt Goff. You will be hearing much more from these gentlemen as the date approaches.

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Kevin F. Dowling
Gino Colacchia
Tom Reinarts

Treasurer Sherman Brown stated that the current member's equity stands at \$9,473.12.

Lance Almon, Fog Dispenser editor, announced that this month's deadline was 12/13/85.

The San Jose Chapter is having a discussion on Ice Storage Systems at their February meeting. All interested members are invited to attend.

Tom Judson announced that the Roster was at the printer and should be in the mail with the January Fog Dispenser.

All monitors working at the Winter Meeting were requested by Dick Glumac to make their selections and pre-register within a week.

Dick has 72 volunteers - more than enough - and expressed his appreciation for the fine response to his appeal for help.

Region X Chairman Dick Charles announced that there would be a joint Region X - Region XI dinner on January 20th at Scotts Carriage House, Embarcadero Center Three. If interested in attending, please contact Dick at 434-2720. Dick also added that the G.G. Chapter has the distinction of having more women as members than any other Chapter.

Carl Jordan, Winter Meeting Entertainment Chairman, requested volunteers for "tour" hosts and hostesses. Call Carl at 981-1555 if you can help.

Phil Williams conducted the Raffel. Winners were Richard Greco, Ken Lloyd and Val Tatasciore.

Dave Rifkin announced that the January meeting would be held on January 9, 6:00 p.m., at the Sun Hung Hueng Restaurant in Chinatown. Spouses are invited to attend. Their interest is encouraged for assistance with the Winter Meeting functions.

After a brief recess, President-elect Dave Rifkin introduced the speaker for the evening, Bill England, Regional Sales Manager for Greenheck Fan Corporation, who spoke on the subject "Kitchen Ventilation and System Design". Bill was assisted in his presentation by Bill Padvan, Sales Application Engineer.

Mr. England pointed out the importance of an efficient design

approach to kitchen hood exhaust, stating that 35% of the cost of food services is related to the HVAC systems, based on a national average.

He illustrated the two types of kitchen exhaust hoods and explained that the Canopy type is further subdivided into Wall, Island, and Double-Island types. The Wall type hood requires by code 100 cfm/S.F. and the Island hood requires 150 cfm/S.F.

With the assistance of slides, Mr. England illustrated the results of tests conducted in the Greenheck laboratories for many different types of cook types including ovens, friers, char-broilers and ranges, and the possible flow rate reductions below code levels that were possible without lowering the effectiveness of the hood exhaust system.

The speaker pointed out the important design features that affect efficient kitchen hood exhausting:

- 1. System pressure losses are influenced by grease filter selection, entrance losses, ductwork losses and wind effect at the discharge.
2. Make-up air to a kitchen vent system can influence the exhaust by reducing the flow if insufficient make-up air is provided, or by spillage of kitchen odors into dining areas if too much make-up air is introduced.
3. Use of water wash in hoods can have some disadvantages including high maintenance and leaks.
4. Typical exhaust duct

The Chapter wishes to express special thanks to the following members who contributed to the success of November's meeting by sponsoring the dinner costs of the guests from Cal Poly.

- Gene Valerio
Dick Friedman
Sheryl Almon
Frank Mayhew
Karl Guttman
Glenn Spoerle
Eric Johnson
Gino Colacchia
Lance Almon
Jack Kniveton
Dennis Thompson
Richard Frenzel
Jack Palmer

\*\*\*\*\*

RAFFLE SPONSORS

Special thanks to the individuals and businesses that contributed the Scholarship Raffle prizes for November's meeting. These contributors were detailed in the meeting minutes.

Generous members (or anyone that likes having their name underlined) are encouraged to call David Eisenberg at 415-530-0430.

\*\*\*\*\*

NEW MEMBERS

- Derek M. Grimes, Wescot International
Steven Guttman, Guttman & McRitchie
George Janour, Glumac & Associates, Inc.
Michael McDiarmid, Stanford University
Michael J. Rubio, G.J. Yamas Co. Inc.
Margaret V. Selig, Air Conditioning Co., Inc.



VOLUME XXVI NO. 3

DECEMBER 1986

MEETING NOTICE

DECEMBER PROGRAM

DATE: DECEMBER 4, 1986
SOCIAL HOUR: 5:30 PM
DINNER: 6:30 PM

LOCATION: Engineers Club
160 Sansome St., 16th floor
San Francisco, CA
(415) 421-3184

If your plans change, please cancel your reservation(s) by calling the Engineers Club no later than noon of the meeting date.

The December meeting's speaker will be Command Aire Corporation's Vice President of Marketing, Steve Trelease P.E. Mr. Trelease will discuss his company's Tri-water system and its application with water source heat pumps.

\*\*\*\*\*

HONOR ROLL

F.H. McLAUGHLIN COMPANY, INC.
Manufacturers' Representatives
415-592-8765

PETER A. HARTDEGEN COMPANY, INC.
Manufacturers' Representatives
415-653-7713

Announce a Joint Venture to better serve the HVAC industry

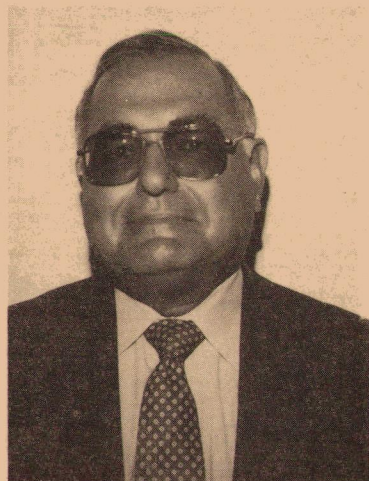
Hunter McLaughlin
Mimi McLaughlin

Peter Hartdegen
Kim Schneider
Debra Wagoner

Ida Sutter

Gary Harbison
Ward Clark
Earl White

**PRESIDENT'S MESSAGE**



**GIVE, RECEIVE, GROW WITH ASHRAE**

"Two phrases-'will you help?' and 'yes I will'-comprise the most beautiful duet in American History."--David S. Ketchum  
How true this is especially when you stop to think that volunteer work has been estimated to be of a value in millions of dollars annually. And, yet, organizations that depend on volunteers are quick to concur that their value is priceless.

Volunteers give of themselves by contributing their time, energy, special skills and talents. Their involvement lends support to the organization, aids in community awareness and helps to solve problems. But just as importantly, the volunteers glean from the experience a renewed sense of personal worth and growth.

Having used their acquired skills in a new arena they become aware of how their individual input can and does impact the eventual outcome. The rewards are many. One reward is the stimulating interaction of new and interesting people who are also geared along the lines of mutual interest.

ASHRAE is an organization that is proud of its past and current volunteers and the valuable benefits they have given to our organization. Their actions, their decisions, the work they have accomplished have helped us in all phases of our growth. We, of course, are always open to new and fresh ideas from the people in our industry. Therefore, we ask..."Will you help?"

The December 4th meeting will find us back at the remodeled Engineers Club and honoring new members of the Chapter. Our Membership Chairwoman, Fran Crisp, has done an outstanding job in that 35 new members are added to the ranks. Let's all of us take some time and get acquainted by welcoming this new contingent of ASHRAE members.

The roster Chairman, Sal Giglio, has started the process of producing the new Roster 1986-1987 and hopefully it will be in the mail by early December. If your name does not appear it may be you missed the 11-15-86 cutoff date or your dues check (to the Chapter) was not recorded. In either event, the press is rolling.

The following paragraph has to do with volunteering; I thought it might be interesting.

**NOVEMBER MEETING MINUTES**

Attendance: 114 members, 34 guests

The meeting was opened by President Rifkin with self-introductions.

The minutes for the October meeting were approved with one correction: Bill Shatner did not serve as a Regional Director from Golden Gate. Only Dick Charles and Tom White have served.

President Rifkin introduced the special guests from Cal Poly along with 1981-82 Society President Jack Chaddock.

Dart Rinefort recognized the local members who supported the Cal Poly students by paying for their dinner. The Chapter also thanks those individuals.

Matt Goff announced the 1987 Technical Seminar as "Sound and Vibration".

The Raffle was conducted by Bruce Montgomery with excellent gifts being contributed by: Norman Wright Co., Kent Lim Co., Carl Jordan, Montgomery & Roberts, Glumac Associates and Kalman Mechanical. Alice Meyer was lucky enough to win twice, but generously accepted only one gift.

The meeting was a special presentation from the Cal Poly students. Cal Poly is the oldest Student Chapter in the U.S., formed in 1960. Congratulations. Rod Kief is the faculty director of the Student Chapter with Bob Rogers as his co-administrator.

Rod Kief complimented ASHRAE on its strong positive attitude about education and complimented the Golden Gate members for their support. The annual Poly Royale exhibit was mentioned which attracts over 100,000 people each year.

Projects presented by the students were:

- a) environmental chamber for the space shuttle.
  - b) open drive compressors versus hermetic for the food marketing institute.
  - c) Co-Op Program which matches students with jobs in the industry. One student was working at Stanford with laser research.
- The student officers were introduced and some of the field

trips were discussed.  
Meeting adjourned 10:02 P.M.

\*\*\*\*\*

**CHAPTER HISTORY**

Tom White, Chapter Historian, requests that any Chapter member who has ever served on a Society Committee write to him giving the years served and the committee name(s). Tom White's address is 575-81 So. Rengstorff Ave., Mountain View, CA 94040.

\*\*\*\*\*

**CARL JORDAN ON S.F. CODES**

San Francisco Bureau of Building Inspection Code Ruling No. BC-3304(g)-3 dated 8/21/86 has been issued regarding "Construction requirements for corridor walls." Anyone wishing to know the details of the Code Ruling should obtain a copy of the ruling itself from the City of San Francisco.

This Code Ruling defines "exit corridors". It requires that "Exit corridors serving an occupant load exceeding 30 shall be enclosed with 1-hour construction..."

"Corridors within a tenant space are not exit corridors, and thus need not be 1-hour construction, when all the following conditions are met:

- "(1) The entire floor is equipped with an approved sprinkler system,
  - "(2) All sprinkler heads within the tenant space are the rapid response type,
  - "(3) Where other areas on the floor have existing normal response heads, the tenant space is separated from other areas by floor-to-ceiling walls of 1-hr construction, or a higher rating if required by other code provisions."
- "2-hr separation wall required in Section 3304(g), Exception 4.E may be omitted when rapid response sprinkler heads are installed throughout the floor."

\*\*\*\*\*

**Know a Prospective New Member?**

Contact Membership Chairman: Frances Crisp-415/326-0750

**Mail or Phone News to:**

Lance Almon, Editor  
FOG DISPENSER  
Almon HVAC Sales  
741 - 35<sup>TH</sup> Street  
Richmond, CA 94805  
(415) 235-2789

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Gino Colacchia ..... Treasurer

**BOARD OF GOVERNORS**

Tom Reinarts ..... Barbara Dilts  
Jim Nemechek

size, please contact David Eisenberg at (415) 530-0430.

\*\*\*\*\*

CONGRATULATIONS!

George Lim has earned his Professional Engineering License with the State of California. George is Chief Engineer with Kalman Mechanical Inc. His design experiences include working with GLUMAC & Associates, JYA Consulting Engineers and Marelich Mechanical. We are all proud of George's accomplishments.

\*\*\*\*\*

SMACNA TECHNICAL SERVICES

Technical services as follows are offered through the Greater Oakland Area Chapter and/or San Mateo County Chapter of SMACNA:

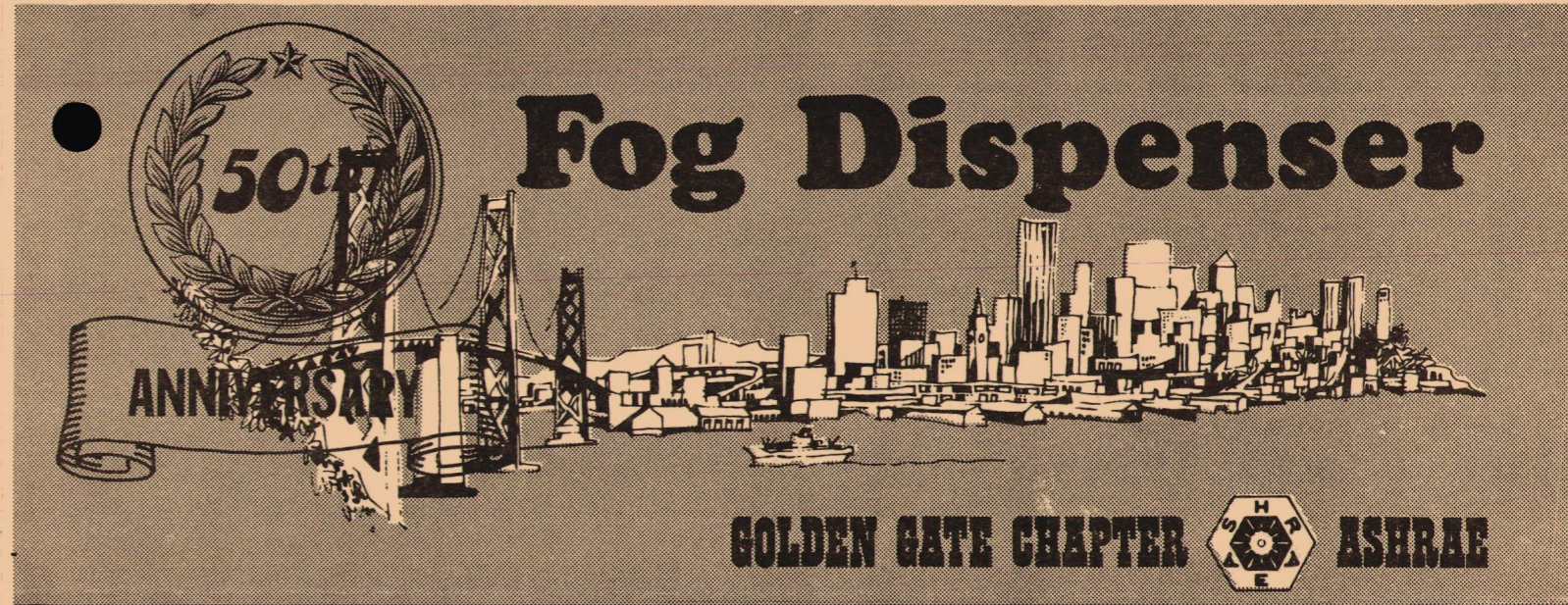
- Better Heating and Cooling Bureau:
- State approved Computerized Residential Load Estimates and Code Compliance
- Commercial Division: Non-Residential Load Estimation and T-24 Compliance Analysis; Technical Assistance on Full Range of SMACNA Manuals covering Architectural Sheet Metal, Duct System Design and Construction, etc.;
- Energy Audit Service and System Retrofit.

For more information contact Dar Nafar of SMACNA at (415) 635-8212.

\*\*\*\*\*

FOR SALE OR RENT

COMPAQ PLUS MICROCOMPUTER: IBM PC-XT COMPATIBLE, 256K RAM, 10 MEGABYTE HARD DISK, TRANSPORTABLE TYPE. PROFIT FROM THE SALE OR RENTAL OF THIS UNIT WILL BE DONATED TO ASHRAE RESEARCH. FOR DETAILS CONTACT LANCE ALMON, 415-235-2789.



VOLUME XXVI NO. 2

NOVEMBER 1986

MEETING NOTICE

NOVEMBER PROGRAM

DATE: NOVEMBER 6, 1986  
SOCIAL HOUR: 5:30 PM  
DINNER: 6:30 PM

\*\*\*\*\*  
NOTE: SPECIAL LOCATION!!  
\*\*\*\*\*

SUN HUNG HEUNG RESTAURANT  
744 WASHINGTON, S.F., CA

Due to construction at the Engineers Club, the November meeting will be held at the same restaurant in Chinatown as last January's. Those of you who attended that meeting know that this dinner will be a special treat!

The November Program will feature the Cal Poly students and faculty. Several students will present their senior projects and professors Rod Keif and Bob Rogers will tell us how the Workshop funds are used. This should be an interesting and fun program. Please plan on joining us.

\*\*\*\*\*

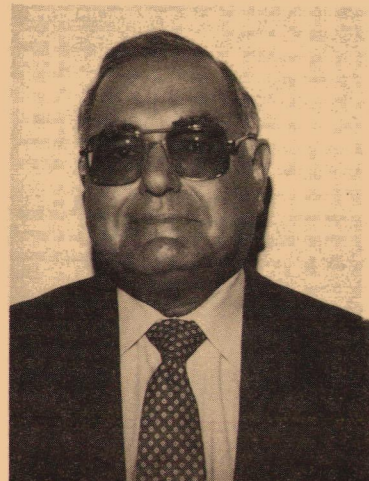
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800 JONES STREET  
BERKELEY, CA 94710  
(415) 524-8094

Gene Kalman  
Gino Colacchia  
George Lim, P.E.

Ted Kalman  
Murray Kobrin

**PRESIDENT'S MESSAGE**



The October meeting was enhanced by a visit from the Society President Fred Kohloss and the attendance was gratifying as is the first chapter meeting. The second meeting the chapter will host the senior students from Cal Poly, S.L.O., who are putting on the meeting. Since our chapter, along with other supportive chapters, sponsors funding to Cal Poly we thought it would be interesting to let the students tell us what they are doing. The Engineers Club is being renovated so we will be holding the meeting in Chinatown at Sun Hung Hueng Restaurant which you may recall hosted our Jan. meeting with epicurean delights.

Matt Goff and his Seminar committee are planning the Spring Seminar on "Sound and Vibration

Control"; more news on that subject with time, place, and costs to be announced shortly.

Please mark your calendar for April 23-25 for the Chapters Regional Conference at the Berkeley Claremont and at which time the Chapter will celebrate its 50th Anniversary. Tom Reinarts is Chairing this event; he needs lots of help - give him your support. This promises to be a stellar happening.

\*\*\*\*\*

**SEPTEMBER 1986 MEETING MINUTES**

Attendance: 85 mem., 28 guests

The meeting was opened by President Rifkin with self-introductions.

Life Membership was presented to Gerry Kasin of Berkeley.

Dick Charles, Region 10 Chairman, introduced the National President of ASHRAE, Mr. Fred Kohloss.

Pres. Kohloss spoke to us about what other ASHRAE chapters were doing around the country. He emphasized all ASHRAE members should view the new ASHRAE video which will be made available to all Golden Gate members soon. Also, all members were encouraged to develop their human resources through ASHRAE involvement. ASHRAE is a unique organization in that it puts all of its funds back into Research. As individual members we should all be willing to put something of ourselves back into ASHRAE. Be involved. In the 50 years of Golden

Gate's history we have had two Regional Directors - Dick Charles and Bill Schatner.

June monthly meeting minutes were approved as published in the Fog Dispenser.

Raffle winners were Bob Linford, Bob Roach and Henry Mercurio.

After a short recess, Dart Rinefort introduced the speaker for the evening, Charles Kridler, Vice President of Gensler and Associates Architects who spoke on the project process from the Architect's viewpoint.

Mr. Kridler stated that mechanical systems are the most sensitive issue when dealing with large buildings. He said his firm was started in 1966 in San Francisco and was originally involved with building's interiors. As their firm closely followed San Francisco's downtown trends, they became more involved with the total building. Some of the trends that have developed since that time are: more involvement by the company CEO, open office planning which first started in 1968 and the new development of "smart" buildings that allow tenants to share computer space. There is becoming more and more government control and now many of the downtown building permits are awarded based on a beauty contest.

Mr. Kridler emphasized that his firm gets good referrals from his clients because they offer good service, they emphasize a personal presentation and try to get to know their client and his/her likes and dislikes, they try to show a willingness and eagerness to work for their client, plus Mr. Kridler emphasized the importance of picking a good mechanical engineer with a track record. The mechanical engineer should be sensitive to the architect's needs, should provide good documents and drawings and should make the architect look good to the client.

A question and answer session followed and here are some of the responses: Cy Hansen of the Reno Chapter commented that some furniture is now being made with its own air conditioning. The San Francisco building owners are becoming more sensitive to tenant's needs brought on by the 680 corridor rush. There is

currently no legal challenge to the City of San Francisco regarding its restrictions. The City is currently considering underground parking below Market Street. Clients are becoming more intelligent of good HVAC systems and are asking for lower prices.

The meeting was adjourned at 9:05 PM.

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**CARL JORDAN: HVAC ARCHAEOLOGIST**

From secret diggings near old downtown LaCrosse, Wisconsin, ASHRAE fellow Carl Jordan has unearthed a scroll found to be Johnson's New Handy Manual on Heating, Ventilating, Mechanical Refrigeration and Air Conditioning, copyright 1905. There is speculation that several long-lost engineering incantations taken from this incredible find were instrumental in SOM receiving an award for their work on Pacific Bell's facility in San Ramon. (rebuttals printed, space allowing. ed.)

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**NEW MEMBERS**

Mark S. Blamey, Gayner Engineers  
Wayne Huie, Linford Engineering  
Peter Waenink, HSO Technology  
Angela Zoll, East Bay Air Conditioning

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**RAFFLE**

Please note that the proceeds from the November meeting's raffle will be given to the Cal Poly Workshop fund. Buy your tickets early and often!

The October raffle's prizes were donated by RMR Associates (Bob Roach) and Air Treatment Equipment Corporation (David Eisenberg). All members/companies are welcome to donate raffle prizes or cash to purchase raffle prizes. In return, those donating will be mentioned in the Fog Dispenser and during the raffle. To make a donation of any

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Frances Crisp - 415/326-0750

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ASHRAE Delegation to China

By Atma Advani

Eighteen members of ASHRAE and ten spouses visited Republic of China meeting with Chinese engineers in Beijing, Xian, Shanghai, Guilin, Guangzhou and Hong Kong. Trip was sponsored by People to People International's Citizen Ambassador program. People to People was founded by President Dwight D. Eisenhower.

We gave seminars and had discussions with engineers and professors from China Committee for Engineering Construction Standardization, The Chinese Association of Refrigeration, The Shanghai Society of Refrigeration, Xian Jiotang University, Institute of Airconditioning - China Academy of Building Research and other people from various ministries.

China offers great opportunities for US exports and joint ventures. One thing that I noticed during my visit was a change in attitude and policy of the Chinese Government as regards to trade with outside world specially USA. Chinese have a great admiration for American people and our technology.

China is committed to develop oil, coal, railroad and power generating capacity by spending 247.5 billion dollars in the next fifteen years. China will host public utilities exhibition, Cipex 87, January 15-21 in Peking to help increase water, gas and heating supplies for its one billion citizens.

The Tyler and Trane Companies have planned to manufacture in China. Shanghai produced air conditioning equipment should reach the Chinese market in two years. Clarion Company has planned for production of car airconditioners in Guangdong Province, China. In an effort to meet the expanding need for HVAC systems and equipment, the International Heating, Air Conditioning and Ventilating Technology and Equipment exhibition, HAVEX China 87 will be held December 2-7, 1987 at the Shanghai Exhibition Center.

China's major problems are foreign exchange, co-ordination of various ministries, lack of free enterprise, port congestion, need for the latest technology and internal communications.

Every member of our group was impressed with the reception, warmth and friendliness of people we met. The determination of the Chinese for their country's industrial and economic growth is as great as the "Great Wall of China".



VOLUME XXVI NO. 1

OCTOBER 1986

MEETING NOTICE

OCTOBER PROGRAM

DATE: OCTOBER 2, 1986  
SOCIAL HOUR: 5:30 PM  
DINNER: 6:30 PM

The October meeting will be presented by Charles Kridler, Vice President, Gensler & Associates Architects. Mr. Kridler will discuss the project process from the Architect's standpoint. This should be an outstanding program to open our new season. Please come and hear the other side of the story.

LOCATION: Engineers Club  
160 Sansome St., 16th floor  
S.F., CA (415) 421-3184

NEW POLICY: RESERVATION CARDS MUST BE RECEIVED NO LATER THAN THE WEDNESDAY BEFORE THE MEETING (FOR THIS MEETING, JUST HURRY!). IF YOUR PLANS CHANGE, PLEASE BE SURE TO CANCEL DINNER RESERVATION(S) BY CALLING THE ENGINEERS CLUB BEFORE NOON OF THE MEETING DATE.

SPECIAL NOTICE

THE PRICE OF THE DINNER HAS INCREASED ONE DOLLAR TO \$17.50 PER PERSON. HOWEVER, THE NEW CLUB MANAGER HAS PROMISED TO PROVIDE TASTIER FOOD, ICE WATER AND BETTER SERVICE. THE JUNE MEETING EXPERIENCE WOULD SUGGEST THAT WE CAN ANTICIPATE BETTER MEALS AND SERVICE!

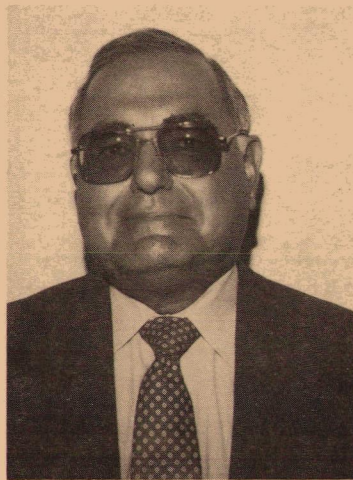
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PRESIDENT'S MESSAGE



Our first meeting is October 2nd at the Engineers' Club and we are privileged to host new Life members from our Chapter. The Society President, Fred Kohloss, will also be here to inspire us with the theme of his office "Develop our Human Resources".

Our Program Chairman and President-Elect Dart Rinefort has worked hard to bring us a fine schedule of meeting programs, so please make 1986-87 your ASHRAE year, renew old friendships, meet new people who have joined and enrich your intellect.

A recent decision by So. Cal and Golden Gate Chapters has reduced the cost of Region X Climatic Data Books to \$10.00/copy. Order them through Dart Rinefort at Glumac and Associates.

\*\*\*\*\*

JUNE 1986 MEETING MINUTES

ATTENDANCE: 49 MEMBERS
38 GUESTS

PRESIDENT NEMECHEK OPENED THE MEETING WITH SELF-INTRODUCTIONS. DON BRYANT ANNOUNCED THAT THE FIRST OF A SERIES OF FOUR HVAC COURSES AT UC EXTENSION WILL BEGIN JUNE 2nd, THE TOPIC WILL BE "AIR CONDITIONING AND HEATING PSYCHROMETRY". CERTIFICATES OF COMPLETION OF THE PREVIOUS SERIES OF COURSES WERE AWARDED TO TONY BANZON, DOMINIC KAN, OLIVER PANGILINAN, WILLIE HOWARD, PHIL OH AND CHUNG TAM BY DON, WHO ALSO REQUESTED ASSISTANCE IN TEACHING THE UPCOMING SERIES OF COURSES.

DICK CHARLES, REGION X CHAIRMAN, PRESENTED SEVERAL AWARDS TO THE CHAPTER INCLUDING A BELATED PRESIDENTIAL AWARD FOR '80-'81 TO DECEASED PRESIDENT JIM HOLDEN, CHAPTER HISTORIAN AWARD TO TOM WHITE AND REGION X CERTIFICATE OF APPRECIATION FOR CHAIRING THE SOCIETY WINTER MEETING TO TOM WHITE.

Now that summer vacation is over for many of you and I certainly hope you are rested, the Golden Gate Chapter once again resumes its productive pace. The Board meets all summer long getting set up for the 1986-1987 year, planning the new Seminar program, the CRC meeting in the Bay Area scheduled in April 1987, the 50th Anniversary party for the Golden Gate Chapter and Research Promotion, both from individuals and businesses.

The Committee Chairpersons are already in place and working to support the Chapter activities and goals. If you would like to serve, just call me; you will find the work enriching and the camaraderie enjoyable.

ASHRAE DELEGATION TO CHINA

PLEASE REFER TO THE NEXT PAGE FOR ATMA ADVANI'S REPORT ON HIS TRIP TO CHINA.

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EMPLOYMENT OPPORTUNITIES

SENIOR ENGINEER: HVAC, PLUMBING & FIRE PROTECTION. HOSPITAL EXPERIENCE. PLEASE RESPOND TO JOHN LEWIS & ASSOCS., 400 MONTGOMERY ST., SUITE 1203, SAAN FRANCISCO, CA 94104. (415) 398-5003.

\*\*\*\*\*

EMPLOYMENT WANTED

HVAC PROJECT OR FACILITIES MANAGER, 25 YEARS EXPERIENCE IN MANAGEMENT, CONSULTING, CONTRACTING, DESIGN, ESTIMATING, INSTALLATION, MAINTENANCE, R&D, MANUFACTURE, APPLICATION/SALES AND TROUBLE SHOOTING. ALSO HANDLE PLUMBING, PROCESS PIPING, ENERGY MANAGEMENT. -(BLIND AD; PLEASE RESPOND TO FOG DISPENSER EDITOR.)

Know a Prospective New Member?

Contact Membership Chairman: Frances Crisp - 415/326-0750

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Jim Nemechek

DICK CHARLES ANNOUNCED THAT THE 1987 REGION X CRC MEETING WAS GOING TO BE HELD IN SAN FRANCISCO.

AWARDS OF APPRECIATION WERE PRESENTED TO ALL THOSE WHO WORKED TO MAKE THE SOCIETY WINTER MEETING SUCH A SUCCESS:

- TOM WHITE, CHAIRMAN
- CARL JORDAN, ENTERTAINMENT
- JIM HOLDEN (DECEASED), RECEPTION
- JACK PALMER, FINANCE
- JIM TAYLOR, TRANSPORTATION
- GARY TREAT, WELCOMING
- WILMA JORDAN, LADIES ACTIVITIES
- JEAN AND CHUCK TARNOFF, HOSPITALITY
- RICH LEAD, PRESIDENT'S LUNCH
- GENE VALERIO, BANQUET
- JOHN BROSE, SESSIONS CHAIRMAN
- BILL CHAPMAN, INTERNATIONAL ACTIVITIES
- GLENN UMONT AND CHUCK MCLAUGHLIN, TREASURER

JIM NEMECEK WAS PRESENTED WITH A CERTIFICATE OF APPRECIATION IN RECOGNITION OF HIS OUTSTANDING PERFORMANCE AS CHAPTER PRESIDENT FOR THE YEAR 1985-86. KEVIN DOWLING, PAST PRESIDENT, HANDED OUT CERTIFICATES OF APPRECIATION TO VARIOUS CHAPTER MEMBERS WHO CONTRIBUTED TO THE SUCCESS OF THE CHAPTER OPERATION DURING THE PAST YEAR AS COMMITTEE CHAIRPERSONS:

- LANCE ALMON, FOG DISPENSER EDITOR
- FRAN CRISP, MEMBERSHIP
- GLENN CLAYCOMB, CODE
- STEVE TAYLOR, SEMINAR
- LUCY SANTOS, ROSTER
- JOHN LEWIS, AUDIT
- GARY HARBISON, EDUCATION
- NORM HUM, ENERGY
- DICK DEBRINE, GOLF OUTING
- BRAUN, GOVERNMENT AFFAIRS
- BOB ROACH, HONOR ROLL
- PHIL WILLIAMS, RAFFLE
- TED STALZER, RECEPTION
- TOM WHITE, HISTORIAN
- BARBARA DILTS, RESEARCH
- CARL JORDAN, SF CODE
- BRUCE MONTGOMERY, SCHOLARSHIP
- JIM LYNN, TENNIS OUTING

JIM NEMECEK TURNED OVER THE GAVEL TO DAVE RIFKIN AS INCOMING PRESIDENT. DAVE INTRODUCED THE BOARD MEMBERS FOR THE UPCOMING YEAR.

A RAFFLE WAS CONDUCTED AND WINNERS FRANK MAYHEW AND TOM JUDSON RECEIVED FREE DINNER TICKETS.

AFTER A BRIEF INTERMISSION, DAVE RIFKIN INTRODUCED THE SPEAKER FOR THE EVENING, DIANE WRIGHT, WHO PRESENTED A VERY INTERESTING TALK ABOUT HER EXPERIENCES AS A MARRIAGE COUNSELOR.

HVAC COURSES BEGIN IN SEPTEMBER

UC Berkeley Extension is offering two courses this fall from their HVAC-R curriculum. Beginning on September 22 in San Francisco, Don Bryant, an ASHRAE Fellow, teaches the course on systems analysis in HVAC design. Guest speakers from the industry participate throughout this 12-session course. A second, 12-session course on temperature controls for HVAC systems begins in Mountain View on September 24. The

course is taught by Frank Mayhew, an Applications Engineer with G.J. Yamas C. in So. San Francisco. Both instructors are members of the Golden Gate Chapter of ASHRAE.

For more information about enrollment in these courses or the HVAC-R curriculum, call Continuing Education in Engineering at UC Berkeley Extension, (415) 642-4151.

Please note that there is a Certificate of Accomplishment awarded for the completion of the four main courses in the HVAC&R curriculum at UC Berk. Ext. The Golden Gate Chapter is very supportive of this series of courses and Mr. Bryant wishes to thankfully acknowledge the special efforts of Robert Braun, Richard Friedman, Frank Mayhew, Fran Crisp, Gary Harbison, Gene Valerio, Al Scavino, Kim Schneider, Dick Porter, Tom Gilbertson and Jim Taylor.

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ENGINEERS CLUB MEMBERSHIP

The Engineers Club of San Francisco is offering a special opportunity to join the Club with an initiation fee reduction to \$150 through November. On 12/1/86 the initiation fee will rise to \$600.

The Club is entering its 75th year and is planning many improvements and upgrades to both the facility and its operation. Please give them your support.

\*\*\*\*\*

NEW MEMBERS

- Don Aumann, PG&E
- Bruce Barron, William Barron Co.
- John Chinn, Vickerman, Zachary, Miller
- Gary Cotter, Hanford Freund & Co.
- Florica Duncan, U.S. Navy
- Eric Ellisen, Capps, Staples, Ward, Hastings, Dodson
- George A. Fincher, George A. Fincher Co.
- Mark A. Gambardella, Syska & Hennessy
- Fred E. Jacob, Bentley Engr. Co.
- Eric C. Johnson, Amelco Mechanical
- Thomas J. Kell, Asmac Corporation

