

Joe Beck, ASHRAE Life Member, well respected engineer and representative of Atlas Heating for over 40 years died November 20. Joe was a very active member of the Golden Gate Chapter. We extend our sympathy to his wife, Sybil, and other surviving members of his family.

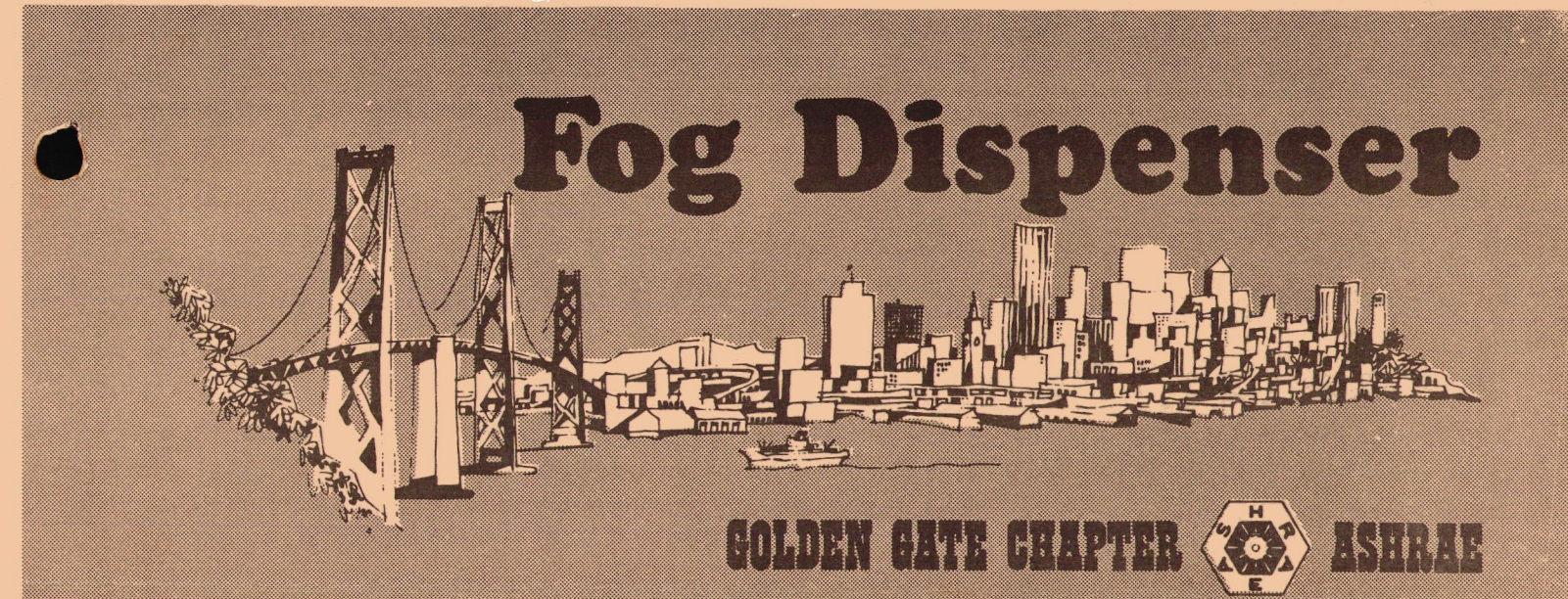
A memorial service will be held at the Unitarian Church in San Mateo on December 13th at 12:45PM.

FOR YOUR INFO:

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EMPLOYMENT OPPORTUNITY

Engineer/Designer/Draftsman wanted with min. 4 years HVAC experience (design/build). Please send resumes to: P.O. Box 5728, Concord, CA 94520.



VOLUME XXVII No. 3

DECEMBER 1987

MEETING NOTICE

DECEMBER PROGRAM

DATE: THURSDAY, DECEMBER 3, 1987
SOCIAL HOUR: 5:30 PM
PRE-MEETING WORKSHOP: 5:45 PM
DINNER: 6:30 PM
LOCATION: ENGINEERS CLUB
160 SANSOME ST.
SAN FRANCISCO, CA
(415) 421-3184

The December topic will be Commercial Humidification and Indoor Air Quality presented by Gary L. Berlin, Vice President of Nortec Industries. He will discuss how humidity control correlates with the modern working environment and what effect low humidity has on the operation of modern office equipment, the comfort of employees and the long term benefits.

NOTE: RESERVATION CARDS MUST BE RECEIVED NO LATER THAN TUESDAY, DECEMBER 1ST. IF YOUR PLANS CHANGE PLEASE CALL THE ENGINEERS CLUB (415-421-3184) OR SHERMAN BROWN AT TEMPCO (415-467-8680) NO LATER THAN NOON OF THE MEETING DATE.

** PRE-MEETING WORKSHOP (5:45 PM): Paul Robinson, Code Committee Chairman, will present a report and discussion on the proposed new Smoke Management Code. Anyone concerned with Life Safety design is encouraged to attend and participate.

RMR Associates, Inc.
Manufacturer's Representative

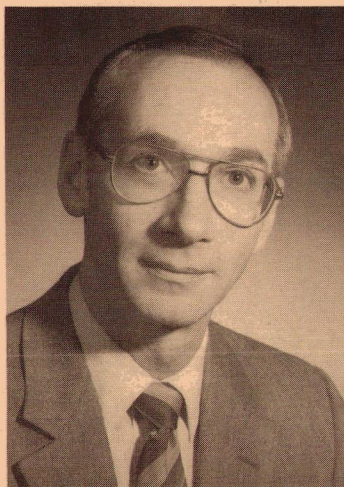
Air Handlers (Custom)
Coolers, Fluid
Cooling Towers
Evaporative Condensers
Dampers: Volume, Fire*, Smoke*,*
Combination Fire/Smoke,*
Backdraft, Barometric**

TEMROL
RECOLD
RECOLD
RECOLD

*POTTORFF**

*Stocked and/or available on a few days notice

PRESIDENT'S MESSAGE



The November meeting was a big hit with over 130 members turning out to hear Tom Gilbertson share some of his experiences about thermal storage systems. As it worked out, we also heard about a few of Bob Voelz's experiences (not all happy ones) as well.

Humidity control systems is the topic of our December meeting and that should prove to stimulate some interesting discussion also.

Dave Rifkin and his Committee consisting of Chuck Shane, Lew Brooks, Sal Giglio and Kim Schneider have turned in a sterling performance on the Product Show. There were over 90 booths displaying the latest and best products in the industry and the turn-out was excellent. Dave will give us a report on the financial results of the event at our December meeting but I can report that the preliminary calculations look \$\$\$\$ good! We owe a BIG THANK YOU to Dave and his Committee for the many, many hours they

donated to the organization and execution of this event.

Starting with our December meeting, we are reinitiating the Pre-meeting Workshop as a result of the interest expressed at our October meeting. The first program is being presented by Paul Robinson and the Code Committee on the proposed changes to the Smoke Management Codes being prepared by the ICBO task force. Our ASHRAE Committee has played a strong role in the formulation of the new code, fortunately resulting in some common sense and engineering judgement being reflected in the process. Anyone involved in the design of buildings subject to the Life Safety Code should attend and provide our Committee representatives with their input. Say it now or forever hold your peace.

Don't forget to round up a new member, turn in the \$20 dues payment on or before the December meeting night and become eligible for a special award to be presented at the January meeting. Also, please show your best hospitality to the new members and guests by introducing yourself and helping them meet other members.

See you at the December meeting.... bring a friend. Dart Rinefort, President

MINUTES OF NOVEMBER 5, 1987 MEETING

126 members and guests

- 1. The meeting was called to order by President Dart Rinefort at 7:32 PM.
2. Rod Keif, Cal Poly Faculty Adviser,

attended the meeting with 10 students. Rod requested our Chapter give input to him with respect to our experiences designing air filtration systems in hospitals. Cal Poly is working on a State grant to establish design requirements to eliminate moisture in hospital air filtration systems. Please contact Rod direct with your comments.

3. Dan Barrango gave input on this year's seminar topic which will be in the area of HVAC controls. Steve Guttman is our assistant chairman and gave an outline of this year's controls seminar. Please give your input to Dan and Steve. This year's seminar will be one you will not want to miss.

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5. Frank Mayhew advised that the U.C. Extension courses headed up by our Don Bryant will offer piping and temperature controls courses. Contact Frank or Don for course schedules and times.

6. Our speaker, Thomas A. Gilbertson, gave a synopsis report on Thermal Energy Storage Systems. Tom is Vice Chairman of ASHRAE Energy Committee, and a local consulting engineer. The report highlighted utility companies' problems due to peak loading due to commercial buildings. Tom holds patents on thermal energy products and has designed numerous ice storage systems. Tom expects major revisions to our standard design practices in the Bay Area when the PG&E electrical rate limiter expires within three years. This will force large energy users to implement thermal storage in new and existing commercial projects. We are very fortunate to have Tom as a member of the Golden Gate Chapter. His leadership and pioneering efforts in the area of thermal energy storage are respected worldwide.

7. The meeting adjourned at 9:37 PM. *****

CODE COMMITTEE UPDATE

The Golden Gate Code Committee continues to work with the Peninsula Chapter of ICBO on the proposed UBC code change dealing with

"Smoke Management." The most recent meeting was held on November 5, 1987 where time was spent reviewing technical comments made by other ICBO chapters and fire safety consultants. Portions of the proposed code which should be of interest are:

- 1. The change only deals with mechanical smoke management;
2. The code will only be for sprinklered buildings;
3. Pressurized elevator lobbies are not required at this time; and
4. The original requirement of six air changes per hour of exhaust for each smoke zone has been eliminated.

The next hurdle for the committee is to develop a test procedure which will be used by the building official to approve the system. The next meeting of the committee is scheduled for November 30, 1987, at 9:00 AM. The meeting will be held at the Owens-Corning Fiberglas office located at 10 Twin Dolphin Drive, Suite B230, Redwood City. Anyone wishing to comment can attend or send comments to Paul Robinson at Owens-Corning, phone 415-598-9550.

RAFFLE SPONSORS

Donations for the November meeting's raffle were provided by Carrier, Air Reps West and Hawke Engineers.

NEW MEMBERS

- Angelo B. Dominguez, Ted Jacob Engineering Group, Inc.
Leroy F. Eriksen, Bechtel National, Inc.
David A. Hofer, California Hydronics
Jack Lofy, MCC Powers
Michael Lucas, Syska & Hennessy
Suzanne T. McPherson, Rasmussen Ingle Anderson
Christine M. Noll, Keller & Gannon
Pablo J. Orozco, Johnson Controls International
Richard B. Rodkin, Illingworth & Rodkin, Inc.
Ireneo C. Tabasa, Bentley Engineers
Rosemary Vannucci, Bechtel Civil, Inc.
Jack Yousey, Guttman & MacRitchie

Know a Prospective New Member?

Contact Membership Chairman: Dan Vasquez-415/827-4040

Mail or Phone News to:

Lance Almon, Editor
FOG DISPENSER
Almon HVAC Sales
143 - 41st Avenue
San Mateo, CA 94403
(415) 571-5857

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Table with 2 columns: Meeting date, Copy deadline. Rows include dates from December 3, 1987 to June 5, 1988.

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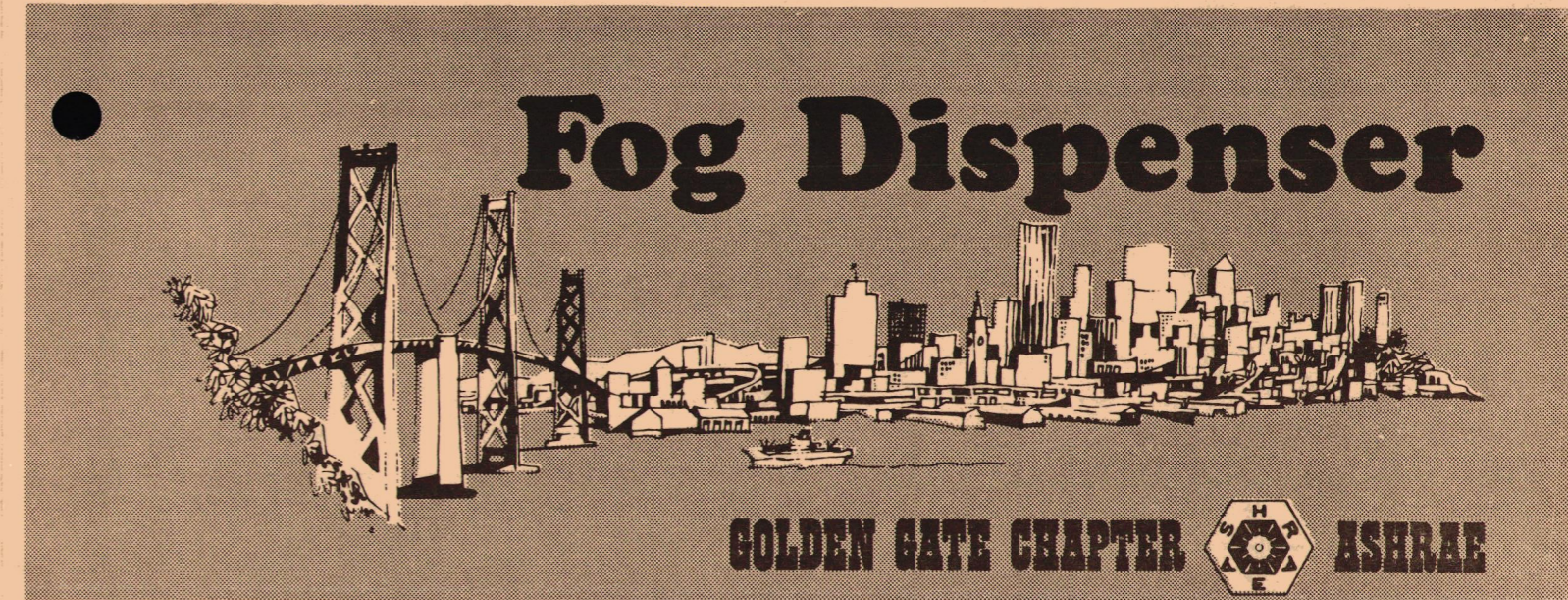
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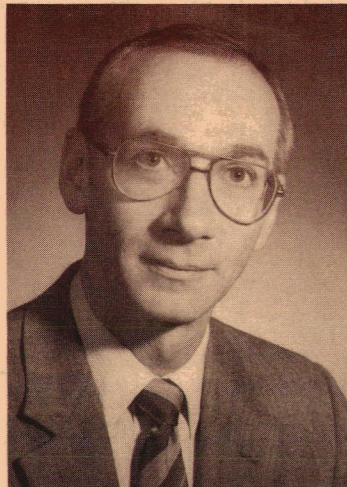
- Air Handlers (Custom)
Coolers, Fluid
Cooling Towers
Evaporative Condensers
Dampers: Volume*, Fire*, Smoke*,
Combination Fire/Smoke*,
Backdraft*, Barometric*

- TEMTRON
RECOLD
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Gino Colacchia ... Secretary
Tom Reinarts ... Treasurer

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Dave Rifkin

JOURNAL PAPER AWARD TO CHAPTER MEMBERS

Cal Jordan and Makio Goto, both of Skidmore, Owings and Merrill received Journal Paper Awards at the Nashville annual meeting, June 27-July 1. Their paper titled An Environmental System: The Pacific Bell Complex was published in the December, 1985 issue of the ASHRAE Journal.

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ROSTER DEADLINE

Membership renewals must reach Dan Vasquez, Membership Chairman, by November 5th in order to be printed in this year's Roster.

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NEW MEMBERS

- Leon Alevantis - Calif. Dept. of Health Services
- Michael Anderson - Newcomb Anderson Assoc.
- Dorel Anghel -- Guttman & MacRitchie
- Cheryl Baylie - MK-Ferguson
- Mark V. Belgarde - Gayner Engineers
- Keith D. Brummel - K.D. Brummel & Assoc.
- Peter Carmel - Applied Air Filters
- John Cerruti - Honeywell
- Leo Copper - Murakami Engineers
- John Cross - Simpson Sheet Metal
- Mark Curtis - Power Refrigeration
- Henry DeLima - DeLima Associates
- Tom Fewell - C.M. Service, Inc.
- Dennis Heller - G.J. Yamas Co., Inc.
- Wayne Humphrey - G.J. Yamas
- Morris D. Konhoff - Comm Air Mech Service
- David Lintott - Marwest Engineering Services
- Rob Meyer - PG&E
- Thomas G. Mossinger - Brown and Caldwell
- Bud Offermann - Indoor Environmental Engineering
- Ned Schiff - Westinghouse
- Lawrence Shea - ATS Products, Inc.
- Andy Smilovitz - Alameda Refrigeration
- Stephen Staneff - Johnson Controls International
- Roger Vandelip - Naval Facilities Engineering Command
- Charlie Wilcoxson - Wilcoxson Engineering

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RAFFLE DONATORS

APRIL, 1987 MEETING: Clyde Equipment, Acutherm and Carrier.

JUNE, 1987 MEETING: Keller & Gannon, Staefaa Controls, Barrington Systems, Bentley Engineers, Monteath Co., Atlas Heating, & Kurtz, RMR Associates, Lillard Co., Johnson Controls and Anderson, Rowe & Buckley.

OCTOBER 1987 MEETING: Harold Wells Associates, Redwood Mechanical, J.L. Meyers Co. and The Brown Co.

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POSITIONS AVAILABLE

Expanding S.F. A/E firm to begin offering Mechanical Engineering Services. Opening for Lead Mechanical Engineer with 8-12 years experience for start-up operation. Besides technical responsibilities, duties to include marketing, recruitment and project management. High degree of freedom. P.E. required. Top salary/benefit package for the right individual. Send resume to: GCA, 41 Sutter, #1762, San Francisco, CA 94104.

Prime Air, Inc. (formerly HGP Bay Area) has immediate openings available for outside and inside sales positions. Contact: Wilfred Gee at (415) 348-0555 or send resume to 800 S. Claremont Street, San Mateo, CA 94402.

CHIEF MECHANICAL ENGINEER : Architect Engineer firm. San Francisco based. HVAC, plumbing and controls for laboratories, clean rooms, manufacturing and computer rooms. Supervise dept. of 10 engineers, designers and drafters. Minimum 10 years experience & Calif. license. Salary open. Send resume to: J.K. 9 Stone Court, San Anselmo, CA 94960

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FUTURE DESIGN WORK COMPUTER DATABASE

Charon Information Systems, Inc. (Oakland, CA, 839-9422) now offers an electronic Construction Database with information about over 11,000 California construction projects. Access is through IBM-PC compatible computers with Hayes equivalent modems. Other services available include TRW credit reports on firms, E-Mail between subscribers and lists of Northern California architects, engineers and contractors.



VOLUME XXVII No. 2

NOVEMBER 1987

MEETING NOTICE

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 SOCIAL HOUR: 5:30 PM
 DINNER: 6:30 PM
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 SAN FRANCISCO, CA
 (415) 421-3184

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NOVEMBER PROGRAM

The November topic will be The Systems Approach to Thermal Energy Storage presented by Thomas A. Gilbertson, P.E. Mr. Gilbertson is a local consultant with his own firm. He will present five different system strategies, systems available and their impact on energy savings.

HONOR ROLL



JOHN ANDERSON

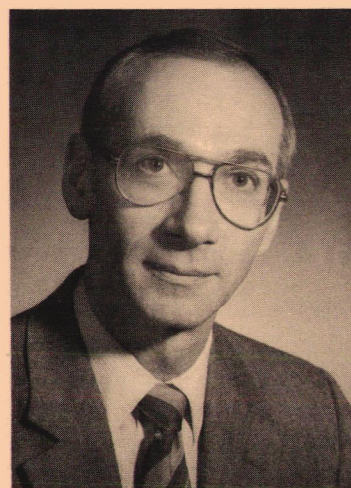
KEN LLOYD

DAN VASQUEZ

Representing

- LEADING EDGE: Commercial & industrial ceiling propeller fans
- YORK INTN'L : Unitary, split-system, rooftop, air-cooled chillers & central station air handlers through 50 tons
- GREENHECK : Power roof/wall exhaust fans, centrifugal blowers BI & AF 12" thru 73", in-line thru 60", commercial kitchen hoods
- SANYO : Ductless split-system heat pumps & air conditioning units
- LAMBERT : Gas-fired infra-red heating units
- POTTORFF : VAV Boxes, fire & S.F. approved smoke/fire dampers

PRESIDENT'S MESSAGE



Rogers.

Each year we ask members to sponsor the meal costs of the Cal Poly students. If you are willing to buy a dinner for one of the students, please contact Sherman Brown or any board member. We expect about 20 students this year.

Mark your calendars and plan to attend the Product Show on November 11th at Pier 3, Fort Mason. There are over 80 Exhibitors now signed up to display the best products in the industry. The show is for your benefit and the proceeds are for the benefit of the Golden Gate Chapter. Best of all, the admission is FREE.

Our Publicity Chairman, Eric Johnson, has been diligently working on the advertisement of the Product Show in the local news media and I thank him for his special efforts.

I'd like to remind you that our December meeting is New Member Night. I'm giving you plenty of time so you can round up a new member and bring him or her as your guest for the evening. If your guest joins the Chapter (dues paid) that evening, you will receive a special award for your efforts. Awards will be presented at the January meeting.

Final reminder: Dues renewals must be paid by the November meeting if you want your name in this year's roster. If you have not paid your dues yet, please be sure to bring your checkbook to the November meeting or send your \$20.00 to Dan Vasquez or any board member. See you November 5th. Dart Rinefort, President

We had an excellent turnout to our October meeting and those that were unable to attend missed out on an outstanding presentation by Bud Offermann on indoor air quality. Sherman has lined up another interesting program this month with Tom Gilbertson's talk on Thermal Storage Systems. Tom, as many of you know, has had considerable hands-on experience with Ice Storage systems and no doubt will be able to share the good and bad with us. I believe that the time has come for the use of thermal storage systems of one kind or another given the recent substantial increase in demand charges by PG&E.

Don't forget that November is our annual Cal Poly student evening as well. Be sure to attend so you can say "hi" to the students as well as faculty advisors Rod Keif and Bob

MINUTES OF OCTOBER 1, 1987 MEETING

Members: 63 // Guests: 12

- 1. The meeting was called to order by President, Dart Rinefort, at 8:27 P.M.
2. Cy Hanson - Region X Director, gave a report on ASHRAE Far East Conference, which was held in Singapore, September of 1987.
3. It was noted that Tom White will receive an award from ASHRAE Society for 50 years of service.
4. Dan Barrango will be our Chairman for this year's seminar. A questionnaire was issued during our October meeting requesting our comments regarding seminar topics.
5. It was discussed at our meeting the option to, once again, provide a pre-meeting workshop from 6:00 to 6:30 P.M. A straw poll indicated strong interest for this workshop program.
6. The ASPE/ASHRAE Product Show is scheduled for November 11, 1987 at the Fort Mason Pier #3. The admission for the product show is free. Dave Rifkin is the ASHRAE Chairman for the ASPE/ASHRAE Product Show.
7. It was noted that the Engineers Club will raise their dinner fee by \$2.00. The Board is considering alternate locations for our meetings, and would like input from our membership. Also, the Engineers Club was not able to provide two meetings during this current year for our normal Thursday meeting time.
8. Meeting Minutes of our June, 1987 meeting were approved by our membership. The motion was made by Bob Volez.
9. A raffle was conducted by Dave Eisenberg. We thanked the various firms that made contributions for the raffle gifts.
10. Our guest speaker was Frank Offermann, with the firm of Indoor Environmental Engineering. The topic was "Ventilation Effectiveness and Indoor Air Quality." Frank (Bud) gave us an enlightening presentation regarding his work in the field of indoor air quality research.
11. The meeting ended at 9:29 P.M.

plumbing, heating and air conditioning industry.

ADMISSION IS FREE. Your announcements, registration cards and tickets will be in the mail soon. Plenty of free parking is available at the Marina Green, with our own free shuttle bus between the Marina Green and Pier 3.

There will be non-host food and beverage service, a message center and door prizes.

Our latest equipment show was such a hit, we decided to have it again. Please allow 2 hours to review the exhibits. The committee urges that all exhibitors get their booth reservations in promptly as spaces are sold on a first come basis.

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GIRL SCOUTS LEARN ABOUT ENGINEERING

The Golden Gate Chapter has donated \$50.00 to the San Francisco Chapter of the Society of Women Engineers (SWE) for a special project they sponsored called "Sleep-over" Science.

The project was for 35 Girl Scouts to spend the night in the Exploratorium and to be introduced to the idea of becoming engineers. There were four 20 twenty minute lectures given on the topics of math, science, bridge building, thermodynamics and aerodynamics.

When the evening started, the girls acted bored, but by the end of the first talk, they were excited about the idea that engineering also affects them. All involved felt the pilot program was a complete success.

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MEMBERSHIP NIGHT

Membership night is at the December 3rd meeting. As an incentive, a bottle of wine will be given to any current member in good standing who brings in a new member (renewals are not eligible). A local application form and a check for \$20.00 (made out to ASHRAE - Golden Gate Chapter) are required at the meeting. The current member will receive a chit at the December meeting redeemable at the January meeting for the wine.

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EQUIPMENT SHOW ANNOUNCEMENT

The joint committee of ASPE and ASHRAE announces the Equipment Show that takes place on Wednesday, November 11, 1987 at Pier 3, Fort Mason, San Francisco. The exhibits will be open from 11am-9pm. There will be over 100 exhibits with the latest state-of-the-art materials and equipment services for the

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Published Monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107—Phone 495-4552 1987-1988 OFFICERS Dart Rinefort President Sherman Brown President-Elect Gino Colacchia Secretary Tom Reinarts Treasurer BOARD OF GOVERNORS Barbara Dilts Frances Crisp Dave Rifkin

NEWS RELEASE TO REGION X EDITORS

EDITOR'S NOTE: Aureleo Rosano is the Editor of THE AWARD WINNING DESERT HEAT EXCHANGER of the Tucson Chapter. I know Mr. Rifkin shares my appreciation for Mr. Rosano's style in his newsletter. Evidently, no Tucson Chapter members are able to restrain him!

This seminar should be great entertainment so consider letting Mr. Rosano blow you away with pneumatics.

1987-88 MEETING DATES & TOPICS

11/05/87 "Thermal Energy Storage - Building Design Approach" Thomas A. Gilbertson, P.E.

12/03/87 "Humidity Control: Commercial and Industrial Applications" Gary Berlin, Vice President, Nortec Humidifiers

01/07/88 "Technological Advances of the Compressor" Panel Presentation by TRANE (Scroll), Bohn (Screw), Carrier (Rotary)

02/04/88 "Energy Efficiency of New Buildings - LBL Research Projects" Dr. Art Rosenthal, Physics Professor Lawrence Berkeley Labs

03/03/88 "Electronic Box Control - Energy Efficiency" Kevin Cunningham, Project Manager, MCC Powers

04/07/88 "HVAC Duct Constuction Standards" John Stratton, Director of Technical Services, SMACNA

05/05/88 Tour of Anchor Steam Brewery, San Francisco. Review Refrigeration

06/02/88 "Special Topic" by Local Celebrity

QUESTIONS & SUGGESTIONS: Call Sherman Brown, Chairman 467-8680

PNEUMATIC HVAC CONTROL SEMINARS

Aureleo Rosano, the slightly zany President of Independent Control Company and Past President of the Tucson Chapter of ASHRAE, has completed a series of pneumatic control seminars in Albuquerque, Denver, Phoenix, Salt Lake City and Tucson.

Similar two-day presentations will be held in San Diego on Oct 6 & 7, Los Angeles on Oct 27 & 28, San Francisco Nov 17 & Nov 18, and in Las Vegas Dec 15 & 16.

Stressing the simplicity and inter-brand adaptability of pneumatics, the seminar emphasis is toward control system problem avoidance and solution, energy conservation techniques, but primarily on basic pneumatic understanding. One attendee remarks, "I really enjoyed a technical seminar in "english" for a change." Another says "Great job with no sales pitch." An engineer states, "This is the first time I've heard first hand what actually happens to our design after it leaves the office. "

Cost for each two-day seminar is \$135.00 for non-members of ASHRAE. Members of ASHRAE can attend for \$125.00, a \$10.00 discount. Light lunches, refreshments, and handout materials are included in the fee.

For a descriptive brochure, write: Rosano, Box 35033, Tucson, AZ 85740

1987-88 MEETING DATES & TOPICS

10/01/87 "Ventilation Effectiveness and Indoor Air Quality" Frank Offermann, P.E., Indoor Environment Engineering

11/05/87 "Thermal Energy Storage - Building Design Approach" Thomas A. Gilbertson, P.E.

12/03/87 "Humidity Control: Commercial and Industrial Applications" Gary Berlin, Vice President, Nortec Humidifiers

01/07/88 "Technological Advances of the Compressor" Panel Presentation by TRANE (Scroll), Bohn (Screw), Carrier (Rotary)

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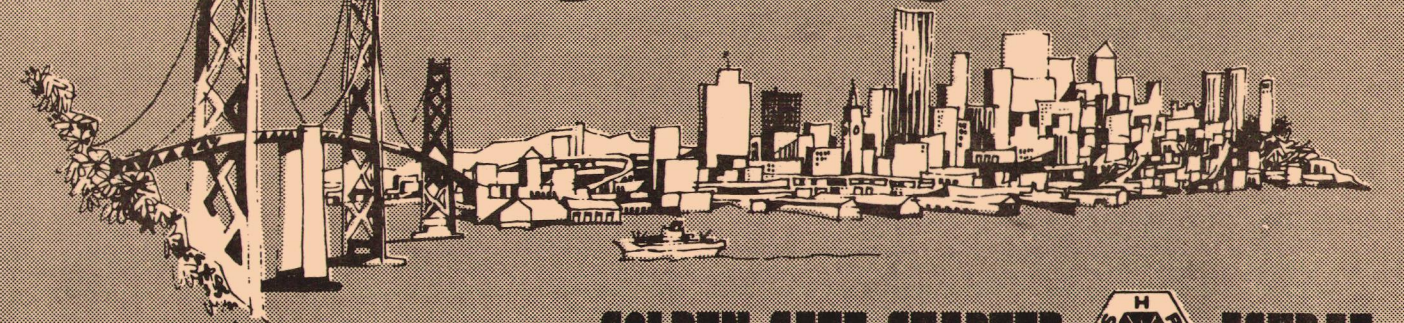
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Fog Dispenser



GOLDEN GATE CHAPTER  **ASHRAE**

VOLUME XXVII No. 1

OCTOBER 1987

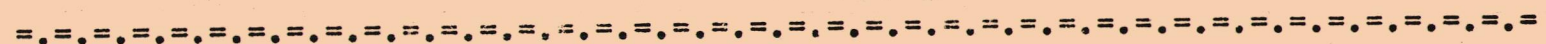
MEETING NOTICE

OCTOBER PROGRAM

DATE: THURSDAY, OCTOBER 1, 1987
SOCIAL HOUR: 5:30 PM
DINNER: 6:30 PM
LOCATION: ENGINEERS CLUB
160 SANSOME ST.
SAN FRANCISCO, CA
(415) 421-3184

NOTE: RESERVATION CARDS MUST BE RECEIVED NO LATER THAN TUESDAY, SEPTEMBER 29TH. IF YOUR PLANS CHANGE PLEASE CALL THE ENGINEERS CLUB (415-421-3184) OR SHERMAN BROWN AT TEMPCO (415-467-8680) NO LATER THAN NOON OF THE MEETING DATE.

The topic for October will be VENTILATION EFFECTIVENESS and INDOOR AIR QUALITY presented by Frank Offermann, P.E. Mr. Offermann is a consultant locally with the firm Indoor Environmental Engineering. He will present an overview of IAQ in commercial buildings with-respect-to supply and exhaust air configurations, test results in actual buildings and the relation to building codes.



HONOR ROLL

GLUMAC

GLUMAC & ASSOCIATES, INC. CONSULTING ENGINEERS

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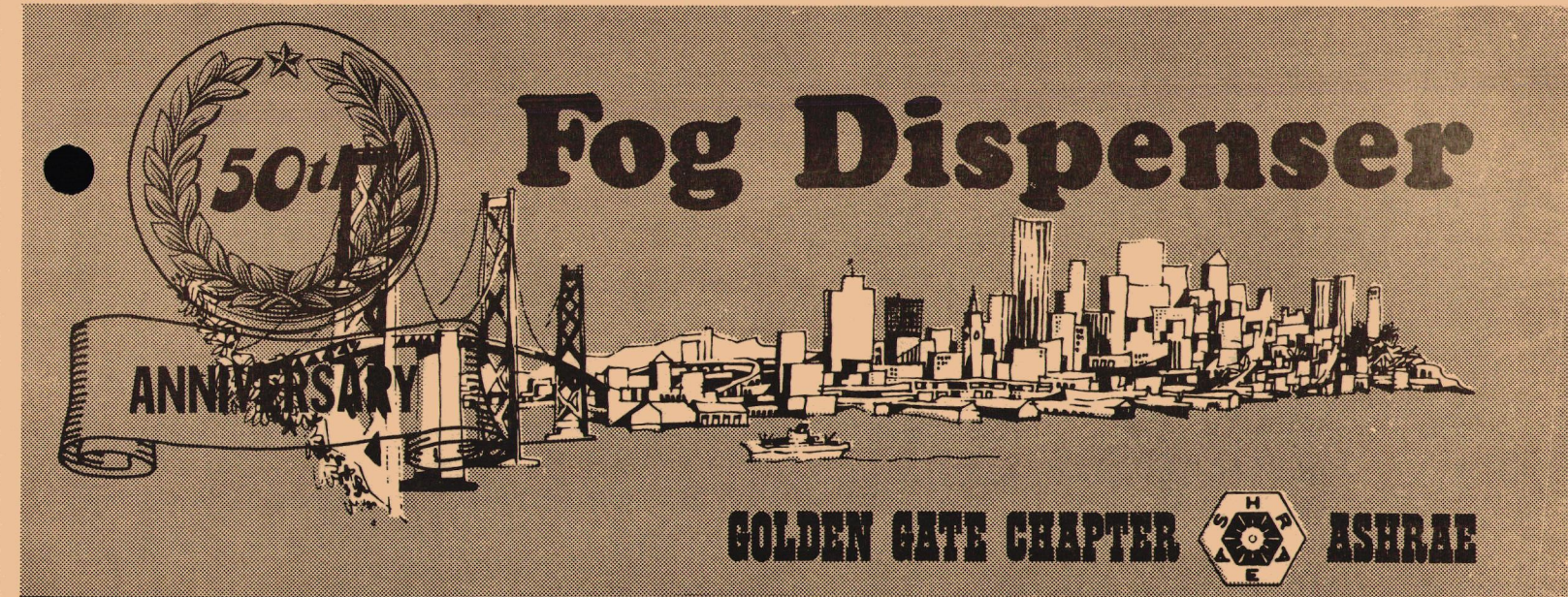
ASSOCIATES:

MARILYN P. MACLEAN
JOSE MANUEL GONZALEZ
THOMAS R. MCKEWAN, P.E.

SAN JOSE ENERGY SEMINAR

San Jose ASHRAE, in conjunction with, California Association of Building Energy Consultants would like to invite you to attend the 1987 Energy Seminar Program. This seminar will provide information on the new 1987 California Energy Commission Title 24 requirements. This seminar will focus on the requirements to fulfill the design criteria established by C.E.C. Special consideration will be given to familiarizing the attendees on the differences between 1986 and 1987 rules and how they apply to the more popular HVAC systems used in the South Bay Area.

Additional details and a registration form for this seminar are included as an insert for this issue of the Fog Dispenser.



MEETING NOTICE

JUNE PROGRAM

DATE: THURSDAY, JUNE 4, 1987
SOCIAL HOUR: 5:30 PM
DINNER: 6:30 PM
LOCATION: ENGINEERS CLUB
160 SANSOME ST.
SAN FRANCISCO, CA
(415) 421-3184

The June meeting is our traditional Awards Dinner/Past Presidents' night and meeting at which we install the new officers. Please plan to bring your spouse or friend.

NOTE: RESERVATION CARDS MUST BE RECEIVED NO LATER THAN WEDNESDAY, JUNE 3RD. IF YOUR PLANS CHANGE, OR YOU HAVE NOT MAILED IN YOUR CARD PROMPTLY, PLEASE CALL THE ENGINEERS CLUB (415-421-3184) OR LISA AT GLUMAC & ASSOC. (415-398-7667) NO LATER THAN NOON OF THE MEETING DATE.

Our speaker for this special evening is Beverly Tanner, CFP, President of Intravest Centaur Corp., a financial planning service. Beverly is a nationally recognized leader in the field, lectures at colleges and universities across the country and is frequently interviewed by the press on financial matters.

Bring your financial questions, your guests and enjoy the last meeting with us.

HONOR ROLL

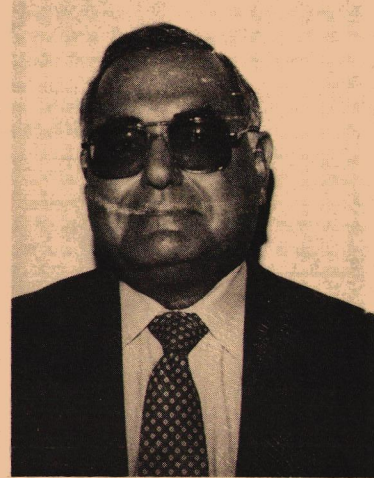
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TEMPERATURE CONTROLS
24 HR SERVICE

PRESIDENT'S MESSAGE



that goal. Developing Human Resources was our Society's presidential theme and I believe we did in fact develop our human resources.

Our incoming officers are well seasoned and qualified to carry on the Chapter's purpose and I urge you to support the new board as you have supported the current board.

Without getting gushy, I'd like to thank all the committee chairpersons, their committees and all the diligent workers who have served the Society so well this year.

For all those folks who have razzed me about the passport photo in the Fog Dispenser I'm going to take that picture and leave town.

Remember the June 4 meeting where we will display our original charter and honor those people that gave us the start. Tom White, a charter member, will say a few words. Dart Rinefort has an interesting speaker who will discuss financial matters concerning all of us and remember spouses are invited.

Have a pleasant summer, drive carefully and we'll see you all in the Fall.

GG Members elected to Reg. Offices

The Region X delegates elected the following members of the Golden Gate Chapter to Regional offices:

Tom Gilbertson - Vice Chairman.
Research Promotion continued...

Gene Valerio - Vice Chairman, Membership (Alternate)
Bob Braun - Vice Chairman, Education (Alternate)
Dick Charles - Director-at-Large
Congratulations to this outstanding group of GG Chapter members who have expressed their interest and willingness to continue to serve ASHRAE at the Regional and Society level.

50TH ANNIVERSARY CELEBRATION

Tom White's report:

The "Kick-off" for the Golden Gate Chapter's Golden Jubilee was held in the Merrie, Merrie Month of May at the Commissioned Officers' Open Mess, Naval Air Station, Alameda, and what a Merrie, Merrie time we had. The question was asked repeatedly, "Why don't we do this more often?". Why not? - We used to!

There were 12 Past Presidents and their wives along with past Society President Jack Chaddock and his wife. Jack is on sabbatical from his professorship at Duke University. Three more were due, but missed due to plane connections, an unfortunate fall and an extended tennis tournament.

The decor with candlelight and African Violet centerpieces was eye taking. To top it off, the room opened onto a well tended terrace.

The music was so good, the first couple on the floor was Ruth and Dick Friedman - he of the recent heart by-pass! This kept up to the point, that, at 11:45, we decided to ask the combo to play 'Good Night Sweetheart' or we may have been so exhausted, we would have had to spend the night - maybe in the brig.

Chapter historian, Tom White, gave a short talk on the Chapter's history. Although only chartered in June 1937, the Chapter was asked to, and did, host the Summer Meeting of the then ASHVE in 1941. The Heating, Piping and Air Conditioning Contractors Association had a concurrent meeting and joint sessions were held. Many an eyebrow was raised when reporting the Monday night Dinner, Entertainment and Dance at

the St. Francis Hotel was priced at \$3.50 per person. A joint luncheon at the same Hotel was \$1.25 and one at the Claremont Hotel was 85 cents. The Semi-annual Banquet and Dance in the Palm court of the Palace Hotel was all of \$3.50 per person. He swore on his Eagle Scout honor it was all true and promised to have a reproduction of the program at the June meeting for the 'Doubting Thomases'.

There were six very happy door prize winners, namely, Dick Friedman; Irving Alger (who with Barbara drove down from Sacramento); Sherman Brown; Jim Nemechek; Pete Hartdegen and Lance Almon.

The twelve African Violet centerpieces were given to the lucky persons who happened to be sitting on the specially marked chairs.

As an example of the happy spirit of the occasion, we asked the combo to take a break during dinner so their low background music wouldn't interfere with the lively conversations.

Maybe we should do this more often so those who missed out on this wonderful party will have a chance to enjoy another.

ASHRAE TENNIS

Tired of getting beat up by the Owner, Architect and General Contractor? Try ASHRAE Tennis. Relieve those frustrations. Beat up your friends at the Annual ASHRAE Tennis Tournament. The tournament is to be held at the beautiful Harbor Bay Club overlooking the Bay in Alameda. The entry fee is \$25.00 - cheap. Fee includes tennis, soft drinks, box lunch and a lot of fun. We even furnish the balls. However, due to tightening economic conditions, free limosine service to and from the airport for those of you flying in from out of town will not be possible this year. See entry blank enclosed for more information and directions to the courts.

OVER FOR ENERGY SEMINAR INFO.

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 - 35TH Street
Richmond, CA 94805
(415) 235-2789

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Dave Rifkin President
Dart Rinefort President-Elect
Sherman Brown Secretary
Gino Colacchia Treasurer

BOARD OF GOVERNORS

Tom Reinarts Barbara Dilts
Jim Nemechek

ASHRAE

presents

Fantasy Island Raffle

Just 100 tickets will be sold at only **\$30 each!** This means that your chances of winning are **truly fantastic!** All donations to benefit the Don Delaney Memorial Scholarship fund.

This unforgettable vacation package includes:

- Round trip jet airfare for 2, complete with hot meal service and wine enroute.
- Fresh flower lei greeting upon arrival in Honolulu.
- Round trip transportation to Kauai
- Accommodations for you and a friend for 7 nights at the deluxe class Poipu Beach Hotel on Kauai with ocean front room!

- 9.42% hotel room tax.
- Car: air conditioned, compact, automatic, Dollar-Rent-A-Car for 7 days, one per room, and unlimited mileage (gas, optional collision insurance additional).
- Porterage for two pieces of luggage at your hotel.
- Services of experienced tour hosts in our Honolulu office.

Purchase your raffle tickets at the next ASHRAE meeting from Dale Briggs. Only ASHRAE members are eligible. The drawing will be held at the June 9th meeting. Aloha and Good Luck!

*Westates Pacific
199-First St
Los Altos, CA
94022*



VOLUME XXVI NO. 8

GOLDEN GATE CHAPTER ASHRAE MAY 1987

MEETING NOTICE

DATE: SATURDAY MAY 9, 1987
 COCKTAIL HOUR: 7:00 PM
 DINNER: 8:00 PM
 LOCATION: COMMISSIONED OFFICERS' MESS, ALAMEDA NAVAL AIR STATION

NOTE: PLEASE ORDER TICKETS FROM TOM WHITE, 575-81 SO. RENGSTORFF AVE., MT. VIEW, CA 94040. COST PER COUPLE IS \$50.00. ONLY SPACE FOR THE FIRST 65 COUPLES THAT SIGN UP. HURRY!

MAY PROGRAM

Golden Jubilee Dinner Dance to celebrate the 50th Anniversary of the Golden Gate Chapter. Grand Door Prizes! Candlelight and wine atmosphere. Don't miss this extra special event!

(Editor's note: As of 4/25 space is still available, and in fact we really need bodies for this event! Please make your decision to attend now and also encourage your friends both within and outside the Chapter to attend this unique celebration.)

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- DRI-STEEM - HUMIDIFIERS
- LANCO - FAN COIL UNITS
- LOREN COOK - FANS OF ALL TYPES
- SAFE-AIR - FIRE DAMPERS
- THERMAL - AIR HANDLERS
- TURBO - THERMAL ENERGY STORAGE, ICE STORAGE
- WESTINGHOUSE - VARIABLE FREQUENCY DRIVES

PRESIDENT'S MESSAGE



dinner-dance at the Alameda Naval Air Station Officers' Mess. The price is very reasonable considering the excellent menu and setting. Tom White is handling reservations. If you desire to come and still have not reserved your place, call Tom White now at 415-964-4024.

June is not so far off and the June meeting is Spouses' night; we also honor Past Presidents and for that occasion our Chapter Charter will be honored. Tom White, our historian, has contacted charter members still residing in the area to share this milestone. We promise a short business meeting as Dart Rinefort's guest speaker will be a lady financial writer who will talk on finances. The subject will be of interest to all.

My most sincere thanks to all the committee people who put the CRC together and moved it to fruition.

APRIL MEETING MINUTES

Attendance: 82 members, 17 guests

1. The meeting was opened by President Rifkin with self-introductions.
2. President Rifkin discussed the Chapter's recent Acoustical Seminar and its success with 86 attendees. Matt Goff, Steve Guttman and Dan Barrango were recognized.
3. The March monthly minutes were approved as noted.
4. The New Roster of Officers for

By the time this newsletter reaches you the CRC (Chapters Regional Conference) will be concluded. Members who are not familiar with CRC will be interested in knowing that at these conferences the chapters of the region submit their recommendations for Society action. Key committees of the chapters also convene to discuss methods of improving the activities and building the Society's strength. For these reasons you can see why CRCs are important. The recommendations from CRCs all over the country are presented at the June meeting of the Society's Board. It is a time consuming process, but nevertheless democratic.

Golden Gate's May meeting will not take place; instead the Chapter will celebrate its 50th anniversary with a

Know a Prospective New Member?

Contact
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Frances Crisp-415/326-0750

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FOG DISPENSER
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Tom Reinarts Barbara Dilts
Jim Nemecek

- 87-88 were approved.
5. Tom Reinarts discussed CRC and encouraged all members to attend.
6. Tom White discussed the 50th Anniversary Jubilee Dance. It is May 9th with festivities beginning at 7:00 PM.
7. President Rifkin announced the ASPE/ASHRAE product show to be held November 3rd or November 10th at the Pier, San Francisco.
8. Dart Rinefort encouraged all members to nominate fellow members for upcoming regional positions at CRC.
9. Dart Rinefort introduced Grant Wong, Principal and Partner of Gayner Engineers. Grant is a graduate of U.C. Berkeley, Mechanical Engineering with an MBA also from Berkeley. He has been with Gayner over 20 years and spoke on HVAC systems for laboratories.
10. Grant discussed in detail the selection of hoods with specifics on: hood face velocity, hood location, hood control, hood usage and diversity factor. There are many types of hoods; each for its own application.
11. Hood Types: Conventional Bypass, Conventional VAV, Auxiliary Air Hoods, Walk in Hoods, Radio Isotope, Perchloric Acid, California, Process & Canopy.
12. Hood manufacturers determine the classification based on biological safety and research. Consult the hood manufacturer for guidelines.
13. The location of the hood in the room is critical; pay attention to hood face velocity and safety. The hood function when combined with HVAC is critical.
14. Several slides of local lab hood designs by Gayner Engineers were shown. An active discussion resulted.

Meeting adjourned at 10:05 PM.

SAN FRANCISCO CODE RULING UPDATE

Carl Jordan advises that the San Francisco Bureau of Building Inspection Code Ruling No. BC-402-1 defines "Atrium" as follows: "ATRIUM is an opening through two or more floor levels, other than enclosed stairways, elevators, hoistways,

escalators, plumbing, electrical, air-conditioning or other equipment, which is closed at the top."

This definition is reportedly taken from the 1982 UBC since the 1979 UBC has no provision for atriums.

ASHRAE CRC RECEPTION CONTRIBUTORS

Sincere thanks are extended to the following companies (and one individual!) for their support of the 1987 Region X CRC recently held at the Claremont Hotel.

Sponsors

- Norman S. Wright
- SMACNA - San Francisco
- SMACNA - Oakland
- Glumac and Associates
- Peter Hartdegen Co., Inc.
- Sherman Brown
- Westates Pacific

Donors

- California Hydronics
- Manville
- Air Reps West
- TK and Associates
- L.O. Schuelke
- PACO Pumps
- McLaughlin Associates
- Aronovsky & Associates

RAFFLE SPONSORS

Raffle sponsors for April were Carrier North American Operations, Clyde Equipment and Accutherm.

To donate prizes for upcoming meetings, please contact David Eisenberg at (415) 530-0430.

NEW MEMBERS

- Thomas K. Bowers
- Earl Mullins, Charles Salter Associates

SALE!!!!

**THE CLIMATE DATA BOOK FOR ARIZONA, CALIFORNIA,
HAWAII AND NEVADA IS ON SALE !**

The regular published price of \$17.50 has been reduced to \$10.00 per book (Full time students-\$5.00). Complete the order form below and send with your check to Dart Rinefort, & Glumac and Associates, Four Embarcadero Center, San Francisco, Calif. 94111.

ASHRAE CLIMATE DATA MANUAL

Send me _____ copies @ \$10.00 each (\$5.00 for full time students). Enclosed is my check for \$_____

Make checks payable to: So. Calif. Chapter/ASHRAE

NAME _____
MAILING ADDRESS _____
CITY _____ ZIP _____
PHONE _____

Order from: Dart Rinefort, & Glumac & Assoc., Four Embarcadero Center, San Francisco, Ca. 94111

Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE



APRIL 1987

MEETING NOTICE

APRIL PROGRAM

DATE: APRIL 2, 1987
SOCIAL HOUR: 5:30 PM
DINNER: 6:30 PM
LOCATION: ENGINEERS CLUB
160 SANSOME ST., 16TH FLOOR
SAN FRANCISCO, CA
(415) 421-3184

Our April program will feature Mr. Duane Hanson, P.E., Principal, Gayner Engineers, who will speak on the subject of HVAC systems for laboratories. Duane is one of the most experienced Engineers in this field and has graciously agreed to share some of his experiences and expertise with us.

NOTE: RESERVATION CARDS MUST BE RECEIVED NO LATER THAN WEDNESDAY BEFORE THE MEETING.
IF YOUR PLANS CHANGE, PLEASE CANCEL YOUR RESERVATION(S) BY CALLING THE ENGINEERS CLUB NO LATER THAN NOON OF THE MEETING DATE.

This will be one of the best technical programs of the year. Please mark your calendars and plan to attend.

HONOR ROLL

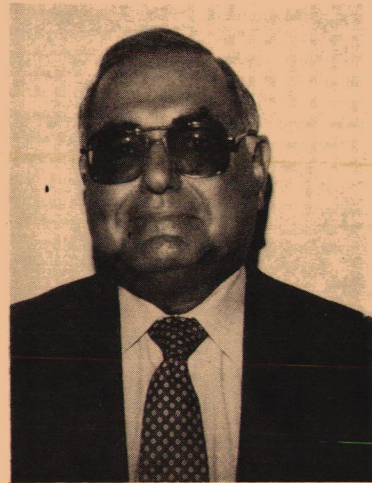
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PRESIDENT'S MESSAGE



I announced at the March meeting that the Society's Board of directors had approved an increase in the Society dues, effective July 1, 1987. As the leading Research and Technical society in the world today, costs of operation have been scrutinized by the Board and after much wrestling with budgets, programs and publications it was reluctantly decided to increase dues to avoid a deficit. Some benefits are through new services since the last dues increase, namely Insight, expansion of the technical content of the Journal, educational videotapes (one to be shown at the April CRC) and a soon-to-be published HVAC pocket handbook.

The Chapter board at this time has no reason to consider a Chapter dues increase.

A joint ASPE/ASHRAE Product Show will take place in the Fall of 1987 at Fort Mason. If you remember the last Product Shows, they were successful in both presenting new ideas to our members and providing funds to carry on Research projects. I will need at least 6 capable committee people to assist in this show - call me at 352-8200 if you are interested in working with me.

Activities that are currently occupying our time and effort are as follows:

- April 1: All-day Technical Seminar, "Designing the Acoustical Environment"
- April 23, 24, 25: Region X CRC at the Claremont Hotel, Oakland.
- May 9th: Golden Jubilee Dinner Dance at NAS, Officers' Mess, Alameda. Tom White is the Committee Chair - contact him for reservations at \$50.00/couple. This promises to be a very deluxe evening with good food, libation, music, dancing and door prizes in celebration of the Chapter's 50th Anniversary.

REMINDERS:

1. There will be no regular May meeting or field trip.
2. Send in your ballots for Chapter directors & officers slate. Count will be made public April 2nd.
3. All Chapter members are cordially invited to the April 23 Cocktail party at the Claremont to greet friends and delegates to the CRC. The technical session on April 24th will be on "Commissioning New Buildings", a new ASHRAE videotape presentation.

CODE COMMITTEE INFORMATION

A meeting has been scheduled for April 3, 1987 to review/rewrite UBC Code Change A-17-87-1, Smoke Management which was held for further study by the Fire and Life Code Committee of ICBO at the Annual Code Change Meeting in February, 1987. The meeting will be held at the So. San Francisco office of Owens-Corning Fiberglas located at 477 Forbes Blvd. The meeting is scheduled to begin at 9:30 A.M. and should wrap up by mid-afternoon. For further information contact Paul Robinson, 873-7950.

RAFFLE SPONSORS

Raffle sponsors for March were Syska & Hennessy, Pacific Pumping Co., Higash Associates, Van-Mulder Sheet Metal, Inc. and Design Engineering.

To donate prizes for upcoming meetings, please contact David Eisenberg at (415) 530-0430.

NEW MEMBER

Mahmoud Pajouhesh, Ajmani & Associates

Sacramento Valley Chapter
and
San Joaquin Delta Valley Chapter

of
A.S.H.R.A.E.

invite you to attend a
(black tie optional)

DINNER DANCE

Saturday, June 13, 1987

GRAND ISLAND MANSION
Walnut Grove, Calif.
(Map with ticket)

- 6:30 Hosted Champagne, Wine, Beer \$80/Couple - By June
- 7:30 Dinner - Champagne Poulet \$70/Couple - By May
- 8:30 Dancing - John Skinner Orchestra \$60/Couple - By April

Limited Accommodations
RYDE HOTEL
916-776-1318

Make Checks Payable to ASHRAE
Mail to Respective Chapters

Larry Marchiniak
March Equipment
8676 Fruitridge Rd.
Sacramento, CA 95826

Greg Gaut
Comfort Air
P.O. Box 1254
Stockton, CA 95201

Know a Prospective New Member?

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

Mail or Phone News to:
Lance Almon, Editor
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1986-1987 OFFICERS

- Dave Rifkin President
- Dart Rinefort President-Elect
- Sherman Brown Secretary
- Gino Colacchia Treasurer

BOARD OF GOVERNORS

- Tom Reinarts Barbara Dilts
- Jim Nemechek

Thank you for your continued support. It's your Society and the organization depends solely on your input of interest, energy and support.

MARCH MEETING MINUTES

Attendance: 85 members, 17 guests

1. The meeting was opened by President Rifkin with self-introductions.
2. The February minutes were approved as published.
3. Dan Barrango encouraged all to attend the upcoming Technical Seminars; remember proceeds go to ASHRAE Research.
4. Dan Vasquez encouraged individual contributions to ASHRAE Research; Golden Gate was 2nd in the nation last year! Individuals contributing \$125.00 or more will have their names published in the Fog Dispenser.
5. Tom Reinarts and Gary Harbison gave an update on CRC.
6. President Rifkin encouraged all to attend the Professional Development Seminars put on by the Society around the nation. Attendees help the Chapter gain PAOE points. Also, Society dues will increase July 1st.
7. Tom White spoke of the Grand Affair 50th Anniversary to be held May 9th. Sign up early.
8. The sample ballot was presented and approved.
9. Dick Charles said that Dick Friedman is recovering nicely at Alta Bates and encouraged all to say hello.
10. Dart Rinefort introduced Franklin Lew, Supt. Bureau of Building Inspection, City of San Francisco. Frank is a graduate of U.C. Berkeley Engineering and a P.E. in both civil and structural engineering. He is also a licensed building contractor.
11. Mr. Lew discussed his involvement with seismic safety and the Construction Inspection program.
12. Mr. Lew reviewed where his \$11 million budget goes and emphasized administrative services available. 15,000 building permits were processed last year, along with 90,000 inspections.

13. Prop. M will dry up available funds for Mr. Lew's department which will probably cause a building permit fee increase beginning July 1st.

14. Plan checking procedure is being upgraded. Mr. Lew encouraged all members to send positive letters to his department when they do a good job rather than just complaints.

15. The department's computer system is being upgraded and is expected on-line at year-end.

16. Mr. Lew asked all members to keep current with local codes; 1979 UMC, UBC; 1981 NEC and the UPC plumbing code. He sent a 'plea' for us all to be complete with our final plans to prevent department delay.

17. The question and answer session was lively. Suggestions to improve the quality of field inspectors; and there is not a refrigeration code in San Francisco.

18. Meeting adjourned at 9:25 p.m.

NOMINEES FOR REGIONAL OFFICES

As your Delegates and Chapter representatives to the upcoming Region X CRC meeting to be held at the Claremont Hotel April 23, 24 & 25, we respectfully request from the membership nominations for qualified persons to seek the following Regional X Offices:

1. Vice-Chairman: Energy Mgmt. (3 year term, begin '88)
2. Vice-Chairman: Research Promotion (3 year term, begin '88)
3. Vice-Chairman: Membership (3 year term, begin '90)
4. Vice-Chairman: Education (3 year term, begin '87)
5. Director-at-large (3 year term, begin '88)
6. Nominating Committee Member - Alternate (2 year term)

All of these positions are at the Regional level. Candidates must prepare biographies and letters expressing their willingness to serve for the prescribed term. The proper forms and further information can be obtained from either Dart Rinefort (453-4371) or Sherman Brown (467-8680). Please submit this

information to Dart or Sherman no later than April 15th.

DID YOU KNOW

...that all proceeds from the "Employment Opportunities" advertising in the Fog Dispenser go to the ASHRAE Research Fund? Please feel free to advertise often. Cost per ad is \$25.00; contact L. Almon, Fog Dispenser editor for details (235-2789).

...that some of the proceeds from the CRC Region X conference meeting April 23, 24 and 25 will be used to "enhance" our Chapter's 50th Anniversary Dinner Dance Party slated for May 9th.

MASTHEAD PHOTO

In honor of Golden Gate Chapter turning 50 and also hosting CRC, your editor has procured from Bechtel (at modest expense) a photo of the Bay Bridge and the City dating from the time when our Chapter was forming. If you appreciate this 'period piece', please say so with money! Proceeds beyond Bechtel's photo use fee will be donated to Research.

1987 CRC - COME JOIN US

The 1987 Chapters' Regional Committee Conference (CRC) will be hosted by the Golden Gate Chapter on April 23, 24 and 25. The Claremont Resort Hotel in the Berkeley hills will provide a dramatic setting for the Committee workshops and the general sessions which are so vital to the functioning of the Society.

A special feature this year will be the technical session on the "Commissioning of New Buildings". Roy Gifford of Willians and Burrows, Inc. will be the discussion leader.

The CRC is also an excellent opportunity to meet and talk with other ASHRAE professionals from all over our Region. You will have a

wide variety of opportunities from the golf and tennis tournaments on Thursday to the poolside buffet on Saturday. The President's Lunch and the Awards Dinner are regular CRC events which promise to be especially good this year.

If you haven't sent in your reservations for the 1987 CRC, don't wait any longer. Your Chapter President will have a few extra brochures.

The members of the Golden Gate Chapter are looking forward to seeing you in April.

ATTENTION!
GOLDEN JUBILEE DINNER DANCE

Our Don Bryant, Commander USN (ret.), has received approval from the Commander of the Alameda Naval Air Station for us to hold our Jubilee Dance in the Commissioned Officers' Mess (Open) on SATURDAY MAY 9th.

The Cocktail Hour with a cash bar featuring very competitive prices will start at 7:00 P.M.

For Dinner beginning at 8:00 P.M. delicious Roast Prime Rib of Beef au jus with your choice of medium rare or medium well, a baked potato, green beans almondine, cherry vanilla ice cream and a surprise will be served.

During dinner and then on until Midnight a four piece combo will play and sing foot tapping music from the 40's to the 80's.

ALSO: GRAND DOOR PRIZES!

And, all of this in an atmosphere of Candlelight and Wine!

The price is an unbelievable \$25.00 per person. Just think! That is but \$7.50 more than our regular meeting dinners.

Due to a competing affair, we have been moved to a room that can only accommodate 130 people or 65 couples. Get your checks in now so you won't be disappointed. Stags are welcome just so they don't monopolize the charming ladies.

Check/Reservation with meat specification should be mailed to either Tom White or Gino Colacchia.

GOLDEN GATE CHAPTER'S
GOLDEN JUBILEE CELEBRATION

On Saturday May 9th we have, thanks to Dan Bryant, a tentative agreement to hold a CANDLELIGHT AND WINE DINNER with prime rib au jus, music while we dine and dancing until midnight. All this for the unbelievable price of \$25.00 per person. Pending Don Bryant receiving approval from the Base Commander, this event will be held at the Commissioned Officers' Mess (Open), Naval Air Station, Alameda. There will be a limitation of 72 couples so send in your check/reservation ASAP to:
Approval Received
Tom White
575-81 So. Rengstorff Ave.
Mountain View, CA 94040

RAFFLE SPONSORS

February's raffle sponsors were SMACNA (S.F.), The Trane Co., McLaughlin Assoc., Energy Logics, Takahashi Consulting Engineers, Peter A. Hartdegen Co. and Hess, Greiner & Polland.

To donate prizes for upcoming meetings, please contact David Eisenberg at (415) 530-0430.

NEW MEMBERS

"Blake" Blakely, Hess, Greiner & Polland
Bob Ecklin, Western Hydronic Specialties, Inc.
Edgardo De Guzman, ACCO, Inc.
Paul Hanzel, Westates Pacific Co.
Jack Yousey, Newcomb Anderson Assoc.

EMPLOYMENT OPPORTUNITIES

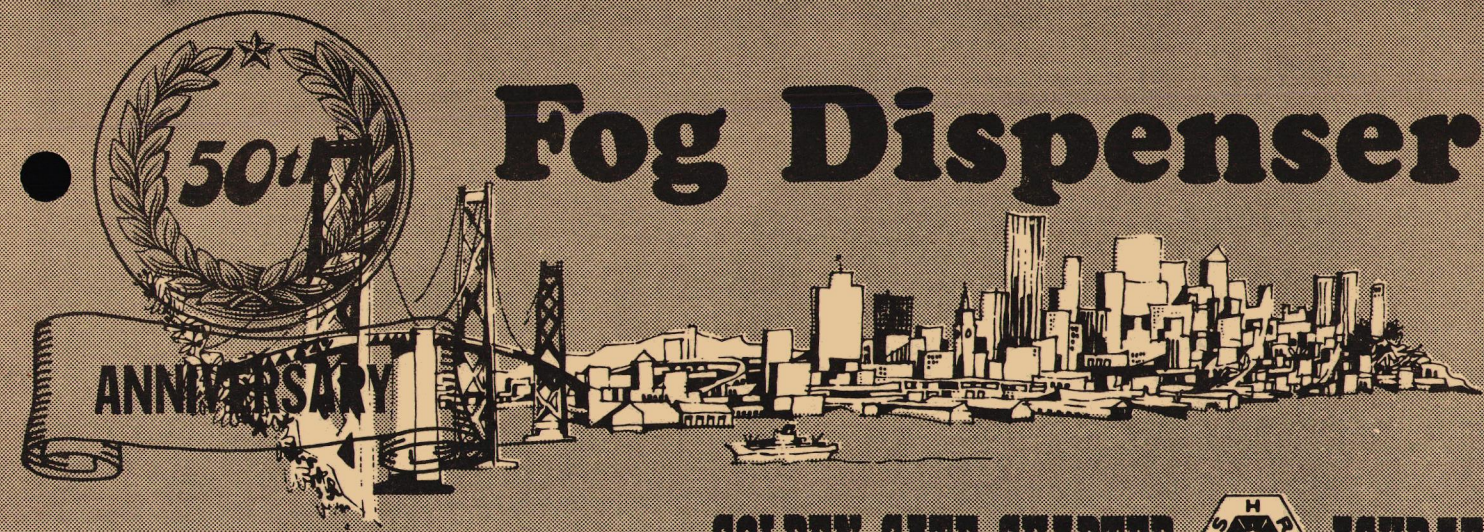
Well established Mfg. Rep. Corp. offering an exceptional opportunity for a highly motivated salesperson in electrical heating, both process and HVAC plus steam/fluid HVAC equipment.

You will be selling to a number of industrial/distributor and contractor accounts.

We require equivalent technical experience or an engineering degree plus 2-5 years industrial sales in Northern Calif.

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*Comp Don w/2 tickets -
Check for Don #100. ⁰⁰/_{xx}
acct 479*



Fog Dispenser

GOLDEN GATE CHAPTER  **ASHRAE**

VOLUME XXVI NO. 6

MARCH 1987

MEETING NOTICE

MARCH PROGRAM

DATE: MARCH 5, 1987
SOCIAL HOUR: 5:30 PM
DINNER: 6:30 PM
COST: \$17.50
LOCATION: ENGINEERS CLUB
160 SANSOME ST., 16TH FLOOR
SAN FRANCISCO, CA
(415) 421-3184

Our March program will feature Mr. Franklin Lew, Superintendent, Bureau of Building Inspection, City of San Francisco.

Mr. Lew will update us on City code issues and other matters relating to his department.

This promises to be an interesting and informative meeting. Please plan to attend.

NOTE: RESERVATION CARDS MUST BE RECEIVED NO LATER THAN WEDNESDAY BEFORE THE MEETING.

IF YOUR PLANS CHANGE, PLEASE CANCEL YOUR RESERVATION(S) BY CALLING THE ENGINEERS CLUB NO LATER THAN NOON OF THE MEETING DATE.

THANK YOU
FELLOW ASHRAE MEMBERS
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CONTROL INC.
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EUGENE L. VALERIO

- ASHRAE Member since 1957
- Past President, Golden Gate Chapter

ROBERT E. SWEZEY

- ASHRAE Member since 1963
- Past President, San Jose Chapter

JAMES G. NEMECHEK

- ASHRAE Member since 1970
- Past President, Golden Gate Chapter

JACK E. HIATT

- ASHRAE Member since 1965

MATTHEW R. GOFF

- ASHRAE Member since 1981



AIR FILTRATION AND CONTAMINATION CONTROL EQUIPMENT

MODULAIR

AIR BLENDER

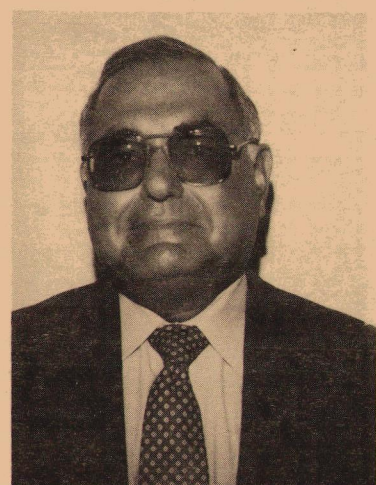
AIR SENTINEL

PURAFIL

THERMA-FUSER

VARI-COOL

PRESIDENT'S MESSAGE



The President's duties have never been easy but I have to say that the robust and energetic Committee Chairpersons of this Chapter make my role very pleasant indeed. It seems every way I turn there is something going on for ASHRAE and to name a few:

April 1 the Technical Seminar is being offered. This is a full day presentation on sound and vibration; a panel of leading experts will present the material.

April 23,24,25 Golden Gate hosts the CRC Region X meeting. All members are invited to assist the committee in producing a first class regional meeting. If you would like to help, call Gary Harbison at 653-7713 or Tom Reinarts at 621-1199.

May 9th the 50th Anniversary party for the G.G. Chapter will be held at

the Officers' Club, NAS, Alameda. Tom White is our Chairman and if you remember the 1986 Winter Meeting then you know what a fine party this shall be. We have only one limitation and that is 72 couples max., so it will be first call, first served. The food, beverages and music will be modestly priced and the quality will be excellent. This will be a Saturday night party. You can let your hair down and kick your heels.

There will be no May meeting or field trip.

June 4th will be awards and installation night and Dart Rinefort has a lady finance writer to tell us all about money matters. This meeting is also spouses' night.

My thanks to all the members who are contributing so much to make this an interesting year for the Chapter.

MARCH MEETING MINUTES

Attendance: 87 members, 14 guests

1. The meeting was opened by President Rifkin with self introductions.
2. The January monthly meeting minutes were approved as published.
3. Dick Charles, Regional Chairman, introduced Cy Hansen of Reno, who will be Region X Chairman after Mr. Charles. Dick encouraged all to attend CRC in April.
4. Matt Goff encouraged all to attend the upcoming seminar.

CODE COMMITTEE INFORMATION

The Uniform Building Code, Appendix Chapter 17, Smoke Management, Exhaust and Control, code proposal has been coauthored by the Golden Gate Chapter Code Committee and John (Gus) Dagenkolb, a Fire Protection Engineer. Their proposal was presented to the Fire and Life Code Committee of ICBO at the Annual Code Committee Meeting in San Diego on January 21-23, 1987 and was held for "further study" by the committee. This will allow time to make changes prior to the final approval by the total ICBO membership at their annual Business Meeting in Kansas City this September. The Peninsula Chapter of ICBO, feeling a need for this type of information in the code, has agreed to help "fine tune" this item along with ourselves and Gus. Their endorsement should help show building officials support for the subject.

The code committee will be holding a special meeting in late February to early March with all interested parties to make the needed corrections to their code proposal. An announcement will be mailed to the committee members.

CERTIFICATES OF ACCOMPLISHMENT

The following individuals have completed the four course curriculum in HVAC&R offered by UC Extension Division, Continuing Education in Engineering.

- Peter Daniel Davidson, Manager, China Basin Building
- Paul G. Fulkerson, Mare Island Naval Shipyard
- Richard A. Greco, Chief, Stationary Engr.
- Joel Hemsley, Kaiser Permanente
- William D. Summers, Atlas Heating & Ventilating
- Ray James Johnson, Kaiser Permanente
- Antonio D. Malonzo, Student
- Jan-Nan Tuan, Naval Air Rework Facility

5. Tom Reinerts, CRC Chairman, asked for \$300 contributions to be given to Bill Schultz to help fund this year's CRC. Committee volunteers are needed at CRC, please sign up.

6. President Rifkin encouraged all members to attend the Professional Development Seminars by ASHRAE this spring.

7. Don Bryant presented graduation certificates to eight recent graduates of the Air Conditioning Series of the UC Berkeley Extension (San Francisco). (These individuals are listed later in this issue.)

8. Dart Rinefort introduced Jay Miller, formerly with the Harper Group who spoke on: "Conception - Design - Construction - Operation and Maintenance of the new Harper Plaza Building". Jay was the director of facilities and is a graduate of the University of Syracuse Department of Architecture.

9. Mr. Miller presented slides and discussed the initial problems encountered with large Thermal Mass buildings. He discussed the elaborate controls and found it most economical to run the building HVAC system 24 hours a day versus start/stop.

10. The building had special HVAC design constraints such as chimney effect in atrium and the base load computer room. He concluded an excellent presentation by encouraging all owners to save energy and involve themselves with the total building.

11. Meeting adjourned at 8:58 pm.

THE CRC IS COMING

On April 23, 24 and 25 the Golden Gate Chapter will host twelve other ASHRAE chapters for the Region X Chapters' Regional Committee Conference.

Come meet some of the folk who make our Society function so successfully. Come enjoy the view of the Bay with friends from other chapters, or meet your favorite competitors on the tennis courts.

Send in your reservations today!

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 - 35th Street Richmond, CA 94805 (415) 235-2789

COPY DEADLINE

In order to meet our publication dates, we have established the following as the last possible date, that copy for the FOG DISPENSER can be in the editor's hands:

Meeting date	Copy deadline
March 5, 1987	March 20, 1987
April 2, 1987	April 24, 1987
May 7, 1987	May 22, 1987
June 4, 1987	September 18, 1987
October 1, 1987	

Published Monthly, October through June, by the Golden Gate Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, c/o Duplicating Associates, 370 Brannan Street, San Francisco, CA 94107—Phone 495-4552

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- Dave Rifkin President
- Dart Rinefort President-Elect
- Sherman Brown Secretary
- Gino Colacchia Treasurer

BOARD OF GOVERNORS

- Tom Reinarts Barbara Dilts
- Jim Nemechek

The Golden Gate Chapter of the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) in association with Pacific Gas and Electric is pleased to announce the annual Chapter Technical Seminar. This year's subject is "Designing the Acoustic Environment."

The seminar will focus on the impact of building design elements (eg. structures, walls, floors, air distribution systems, mechanical equipment, etc.) on a building's acoustical environment. The seminar will include presentations from Architects, Engineers, Acoustical Consultants, Manufacturers, Contractors and specialists in the field of acoustics. Of special interest will be the Case Study presentation on the Technical Building at George Lucas' Skywalker Ranch; this case study will be presented by the design professionals responsible for the building as well as a representative of Skywalker Ranch.

WHEN: **Wednesday, April 1, 1987**
7:45 am to 4:45 pm

WHERE: **Pacific Gas and Electric Auditorium**
245 Market Street, San Francisco.

FEE: \$120.00 for advance registration (before March 28)
\$150.00 after the advance registration deadline.
Price includes lunch, and a three-ring binder with seminar materials.

For further information contact: Matt Goff at (415) 834-2437 or Dan Barango at (415) 326-9115. Enrollment checks can be sent to:

ASHRAE TECHNICAL SEMINAR
Matt Goff
c/o Air Filter Control
1023 Chestnut Street
Redwood City, CA 94063



MEETING NOTICE

FEBRUARY PROGRAM

DATE: FEBRUARY 5, 1987
SOCIAL HOUR: 5:30 PM
DINNER: 6:30 PM
LOCATION: ENGINEERS CLUB
160 SANSOME ST., 16TH FLOOR
SAN FRANCISCO, CA
(415) 421-3184

Our February meeting will be presented by Jay Miller, former Operations Manager for the Harper Group who will describe the development of the newly constructed Harper Plaza Building from conception to occupancy and provide some extraordinary information about tuning up a building's HVAC system to achieve optimum operating efficiency.

NOTE: RESERVATION CARDS MUST BE RECEIVED NO LATER THAN WEDNESDAY BEFORE THE MEETING.
IF YOUR PLANS CHANGE, PLEASE CANCEL YOUR RESERVATION(S) BY CALLING THE ENGINEERS CLUB NO LATER THAN NOON OF THE MEETING DATE.

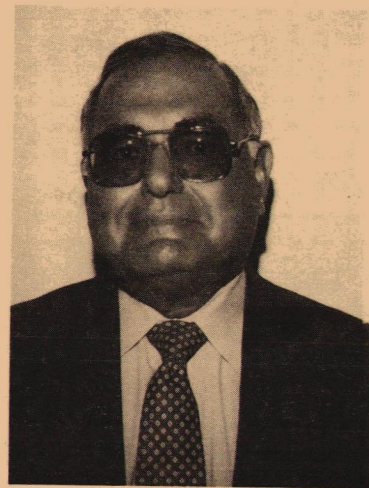
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USA COIL & AIR - Air handlers, fan coil units, all type coils, heat exchangers
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LISKEY-AIRE - Computer room AC systems-glycol/CW/Air-indoor chillers dual cool indoor units, 3 to 75 tons

PRESIDENT'S MESSAGE



action. The Chapter committee chairs in Education, Research, Energy Conservation, and Membership are urged to attend to meet with their peers and exchange information under the direction of the Regional Vice-Chairmen. Any chapter member is welcome to attend the CRC; this is a convenient way to observe the Society grass roots in action.

We will be back at the Engineers Club once more and hope to see you all there at the next meeting. Don Bryant's UC Extension program has graduated 8 students and the chapter takes pleasure in supporting their efforts. These students will be honored at the meeting.

JANUARY MEETING MINUTES

Attendance: 116 members, 22 guests

- 1) The meeting was opened by President Rifkin with self introductions.
- 2) The December monthly meeting minutes were approved as published.
- 3) A memorial service for Life Member Hunter McLaughlin was announced by Peter Hartdegen.
- 4) Gary Harbison asked all members to review Technical papers presented for ASHRAE publication.
- 5) Matt Goff, Seminar Chairman, announced April 8th as the date for Sound and Vibration Control Seminar.
- 6) The 1987 CRC meeting will be April 23, 24, 25 at the Claremont Hotel in Berkeley.

The good news is that the Seminar Committee is forging ahead to present a very fine technical and practical seminar on "SOUND AND VIBRATION CONTROL". I have seen the list of speakers and have to admit the best in the business are going to be sharing their expertise with the audience. Special bulletins and announcements will be in the mail to you shortly.

The printer says the 1987 Chapter Roster will be mailed this week and many thanks Sal Giglio for the effort in getting this project put together and to the membership.

CRC for Region X will be held at the Claremont Hotel Resort, Berkeley, on April 23 thru 25. Delegates from the region's chapters will come together to make recommendations to the Regional Chairman for Society

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 - 35th Street
Richmond, CA 94805
(415) 235-2789

COPY DEADLINE

In order to meet our publication dates, we have established the following as the last possible date, that copy for the FOG DISPENSER can be in the editor's hands:

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REFRIGERATING COURSE BEGINS FEB.2

A twelve-week course on Refrigerating Concepts begins at 7 pm on Monday, February 2, at the UC Extension Center in San Francisco. This third course in the UC Berkeley Extension's certificate curriculum is taught by Lewis Brooks, a Burlingame consultant with more than 30 years of experience in HVAC-R. The course fee is \$185.00 and enrollment is limited. For further information about enrollment in the course, please call Continuing Education in Engineering, UB Berkeley Extension; (415) 642-4151.

ENERGY SEMINAR - ALTERNATIVES

WHERE: Humbolt State University
Kate Buchanan Room
Arcata, CA

WHEN: March 7th - 8 am to 5 pm

TOPICS: Cogeneration, Passive Solar, Windpower, Lighting Mgmt., T-24 Update, Deregulation and other related subjects

For more information, contact: Hardy Fisher, (707) 826-3551

RAFFLE SPONSORS

January's raffle sponsors were Engineered Air, Tempco Equipment, Johnson Control, The Emde Co. and Air Filter Control.

To donate prizes for upcoming meetings, please contact David Eisenberg at (415) 530-0430.

NEW MEMBERS

- Dick Davis, Nortec
- Bob Slakey, Slakey Brothers
- Bill Sweet, Impell Corporation
- Joe Varner, Linford Engineering
- Russell Williams, Rolm

- 7) Dart Rinefort introduced the two guest speakers: Mr. John Stratton, technical director at SMACNA who spoke on Fire, Smoke and Radiation dampers. Mr. William Pachetti, consultant to SMACNA, also spoke.
- 8) Mr. Pachetti spoke of smoke removal and smoke control and the importance of removing smoke after the fire is out.
- 9) Fire damper shall be applied and installed in accordance with all applicable codes. The Fire Marshall is requesting that engineers show listing number on mechanical drawings.
- 10) Local officials can adopt stricter codes for local applications.
- 11) There was considerable question as to which reference book a mechanical engineer could feel safe to rely on. No answer was given which caused quite a discussion with local members; in particular - smoke dampers.
- 12) John Stratton spoke of NFPA 90A, UL555. There are new symbols now for marking fire and smoke dampers on drawings. Reference your SMACNA manual.
- 13) The installation of dampers, use of manual damper sleeves, and the flame test for dampers was discussed. Be sure to understand the new UL555 standard.
- 14) Dampers must have a UL listing before being installed.
- 15) A spirited discussion occurred.
- 16) Meeting adjourned 10:04 PM.

1987 CRC

Mark your calendars for April 23, 24 and 25 when Golden Gate Chapter will host the 1987 Region X Chapters' Regional Conference in Oakland. This will be a great opportunity to meet ASHRAE members from all over our region and to participate in the operations and policy of our Society.

installation

- d) Description of system, equipment and building use
- 3) "Air Conditioning" as defined by common usage at the time of installation using refrigeration.
- 4) Government funded projects are not eligible.
- 5) Project may be located anywhere within Region X boundaries.
- 6) So. California Chapter Historian will not participate.
- 7) Entries must be received by March 1987.
- 8) Awardee must be present at Region X CRC, April 23-25, 1987.
- 9) Judge for the award is Region X Historian. His decision is final.

HVAC-R CURRICULUM ADVISING

UC Berkeley Extension is considering offering two new courses as additions to their existing curriculum on heating, ventilating, air conditioning and refrigeration. As you know, a certificate of accomplishment is awarded by the Golden Gate Chapter of ASHRAE to students successfully completing the four-course curriculum.

Because these courses are intended to fulfill the needs of your industry, we would like to have your view about the topics that should be covered as course material.

Additionally, your participation as an instructor or guest speaker in these courses is always encouraged.
Course 1: Mechanical Equipment for Buildings: Maintenance Practices and Procedures

Course 2: HVAC-R Piping Design and Layout

Please contact Don Bryant, curriculum coordinator about your topic suggestions or your interest in participating in the program. Call or write Don at 244 Garces Dr., San Francisco, CA 94132; (415) 584-0765.

RAFFLE SPONSORS

December's raffle sponsors were Cal Hydronics, MCC Powers, G.J. Yamas and Karl Guttman.

To donate prizes for upcoming meetings, please contact David Eisenberg at (415) 530-0430.

NEW MEMBERS

David P. Feron, Lars Fagerstrom Consulting
 David A. Hofer, California Hydronics
 Habib A. Moon, Takahashi Consulting Engineers, Inc.



VOLUME XXVI NO. 4

JANUARY 1987

MEETING NOTICE

JANUARY PROGRAM

DATE: JANUARY 8, 1987
 SOCIAL HOUR: 5:30 PM (Cash bar)
 DINNER: 6:30 PM
 Cost: \$15.00 per person**

NOTE SPECIAL LOCATION:
 SUNG HUNG HEUNG RESTAURANT

 744 WASHINGTON ST.
 (The Engineers Club is unable to accommodate us due to the meeting's date).

** Reservations and dinner payment must be made in advance. Please send check by January 5th in the amount of \$15.00 per person payable to Golden Gate ASHRAE to Dart Rinefort c/o Glumac and Associates, Four Embarcadero Center, San Francisco, CA 94111, (415) 398-7667.

HONOR ROLL

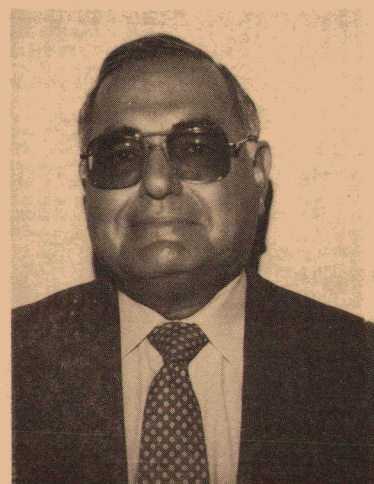
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 MANUFACTURERS' REPRESENTATIVE
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 OAKLAND, CA 94611
 (414) 530-0430

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861-8400 SMACNA

PRESIDENT'S MESSAGE



Six months of this term have passed and we are coming down the back stretch with lots of energy still being expended.

Tom Reinarts and his superb committee are diligently planning the CRC meeting for Region X on April 23rd through the 25th.

Matt Goff and his seminar committee are getting into the final stretch for the Sound & Vibration seminar in March; more news on this to follow.

Fran Crisp has signed up over 40 new members.

Tom White is putting his creative efforts into organizing the Chapter's 50th Anniversary Party scheduled for June along with the installation of new officers.

That's it in a nutshell. Here's wishing you all a very good New Year

and trust that you will all support ASHRAE in 1987 as we are really moving right along.

DECEMBER MEETING MINUTES

Attendance: 81 members, 13 guests

1. The meeting was opened by President Rifkin with self introductions.
2. Pres. Rifkin announced 40 new members and congratulated Fran Crisp on her excellent work. All new members were introduced.
3. November monthly meeting minutes were approved as published.
4. A letter from Cal Poly students was read; \$1900 will be sent from Golden Gate Chapter for Cal Poly Workshop.
5. Steve Taylor summarized the new Title 24 changes going into effect Jan. 1, 1987. He also discussed the 62-81 ASHRAE Standard and made his interpretations available through publication.
6. The upcoming CRC meeting is at the Claremont Hotel, Berkeley, April 23,24,25, 1987. Tom Reinarts is Chapter Chairman and Tom White will Chair Golden Gate's 50th Anniversary dance at CRC.
7. The UC Extension HVAC Curriculum was presented by Donald Bryant. Please contact him at 415-584-0765 if you are interested.
8. Raffle prizes were donated by G.J. Yamas, MCC Powers, Cal Hydronics and Guttman Assoc. Dick Frenzel was lucky enough to win

- twice.
9. After a short recess, Dart Rinefort introduced the guest speaker for the evening, Steve Trelease of Command Aire Corp. Steve is a Professional Engineer and a Grad. of Univ. of Illinois.
10. The closed loop system with boiler as supplementary heat source, the Heat Energy Recovery System, and the Balanced System were reviewed.
11. The packaged heat pump provides heating & cooling via a reversing valve. Relative system comparison costs were presented. In order of increasing cost: PTAC, 2 pipe fan coil, water source heat pump, central station VAV.
12. The Triwater system combines the heat pump system with fire sprinkler in the same pipe loop. It has NFPA 13 fire code approval gained in Portland, Ore., 1978. Beware of local codes.
13. Primary advantage: 50 to 70 cent per square foot lower first cost. The Triwater system does not impede fire sprinkler components.
14. According to NFPA 13, a check valve must be installed at inlet and an approved balance valve so as not to interfere with sprinkler system.
15. Triwater is a patented system concept. Any manufacturer can bid Triwater systems.
16. Earth coupled heat pump systems were also presented.
17. Question and answer session followed.
18. Meeting adjourned at 9:37 P.M.

Hunter McLaughlin, Life Member passed away on December 29th. The Chapter expresses sympathy to the McLaughlin family.

Alice Bryant, wife of ASHRAE Fellow Don Bryant, passed away on December 5th, 1986. Those of you who attended the '78 CRC hosted by Golden Gate Chapter will remember Alice for her devoted work at the Reception Desk. She and Don spent innumerable hours helping anyone with questions. We were highly commended for the smooth operation of all of the events. As one past president said,

"I have in the last many years attended many CRC's and this has been the best". The Reception Desk was credited with half of the success.

Alice would also sit in on Society committee meetings taking notes for Don when Don was tied up in another committee meeting. Although Alice was not an ASHRAE member, she certainly was an 'Honorary Member'. The Chapter expresses sympathy to the Bryant family. Golden Gate ASHRAE has lost a willing hand.

ANNOUNCEMENT re: TITLE 24

Second generation non-residential energy standards for office buildings go into effect January 1, 1987. If you are involved with office buildings, the standards are your primary concern. Detailed description of the new standards is available from:

California Publications Unit
1516 North St., M.S. #13
Sacramento, CA 95814

If you have specific questions, Steve Taylor at Linford Engineering (who served as a member of the CEC Professional advisory group) may be able to help. You may write to Steve (Linford Engineering, P.O. Box 449, Oakland, CA 94604) for a copy of the summary of the major new regulations affecting HVAC systems.

\$500.00 REWARD AVAILABLE

A \$500.00 reward is being offered to the Chapter from Region X which first identifies the oldest operating air conditioning system in Region X.

- RULES:**
- 1) In case of duplicate entries, only the first entry received will be considered.
 - 2) Entry must include the following:
 - a) Photographs of equipment
 - b) Approximate date of installation
 - c) Affidavit from present owner as to continuous use from date of

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 - 35th Street
Richmond, CA 94805
(415) 235-2789

COPY DEADLINE

In order to meet our publication dates, we have established the following as the last possible date, that copy for the FOG DISPENSER can be in the editor's hands:

Meeting date	Copy deadline
December 4, 1986	December 19, 1986
January 8, 1987	January 23, 1987
February 5, 1987	February 20, 1987
March 5, 1987	March 20, 1987
April 2, 1987	April 24, 1987
May 7, 1987	May 22, 1987
June 4, 1987	September 18, 1987
October 1, 1987	

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