

CHAPTER OFFICERS

TOM REINARTS PRESIDENT
 BARBARA DILTS PRESIDENT-ELECT
 FRAN SCHOLL SECRETARY
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 GINO COLACCHIA

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BAEC	TOM REINARTS	PROGRAM	BARBARA DILTS
CODE	OPEN	PUBLICITY	ELLEN PIERCE
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ENERGY CONSERVATION	OPEN	REFRIGERATION	LEWIS BROOKS
FOG DISPENSER	CHRISTINE NOLL	RESEARCH PROMOTION	ROY GIFFORD
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HONOR ROLL	OPEN	SEMINAR	DENNIS THOMPSON
MEMBERSHIP	ERIC TINGLOF	TENNIS	WAYNE HUMPHREY



Golden Gate Chapter
ASHRAE
 370 Brannan Street
 San Francisco, CA 94107



Thanks, Gino, for a great year!!



GOLDEN GATE CHAPTER  **ASHRAE**

VOLUME XXX No.1

OCTOBER 1990

MEETING NOTICE

DATE: THURS., OCTOBER 4, 1990
 SOCIAL HOUR: 5:30 P.M.
 DINNER: 6:30 P.M.
 LOCATION: ENGINEERS CLUB
 160 SANSOME STREET
 SAN FRANCISCO, CA
 COST: \$25.00 (INCLUDES DESSERT)
 NOTE: PLEASE PHONE OR FAX YOUR
 DINNER RESERVATION TO
 BARBARA DILTS AT PG&E
 BY NOON ON TUESDAY AT THE
 LATEST. A FAX FORM IS
 ENCLOSED FOR YOUR
 CONVENIENCE.
 PHONE: 973-3570
 FAX: 973-8494

OCTOBER PROGRAM

The first meeting of the year is also "Membership Night." Bring a friend or colleague who may be interested in becoming a member of the Golden Gate Chapter. The program will introduce PG&E's New Construction Rebate Program. Dennis Nugent will explain what incentives are available for installing more energy efficient equipment in new commercial buildings. Dennis has been instrumental in the design of the program and presently works with developers, architects, and the design community to assist those who use the program.

Barbara Dilts

HONOR ROLL

BarryBlower  TOSHIBA HOUSTON  **IMECO** INC  

DATA AIR **McQuay** **Jenn Fan**

Wilfred G. Gee, President
 Hank Shastany, Sales Engr.
 Jerry Gogas, Sales Rep.
 Blake Blakely, Sales Engr.
 Glen Leggoe, Sales Rep.
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 Stacy Francis, Inside Sales Rep.
 Gina Nibbi, Inside Sales Rep.
 Sharon Zhou, Compt.
 Sonia Celaya, Exec. Sect.
 Alison Rigsby, Sect.

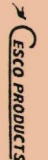


PRIME AIR, INC.
 Your "PRIME" Contact for HVAC Equipment

Philip Chew, Divn. Mngr.
 Dedre Fox, Inside Sales Rep.
 Mark Sierra, Inside Sales Rep.
 Norma Hinderlie, Sect.
 Colleen Dutra, Accts, Rec.
 Nina Chung, Accts. Pay.

Mechanical Office, 700 S. Claremont St. Suite 111, San Mateo, CA 94402 (415)348-0555 Fax(415)579-7880
 Air Distribution/Warehouse, 1291 Whitethorn Way, Burlingame, CA 94010 (415)342-7917 Fax(415)342-2846

  ZONE-ALL   

National Controlled Air **IP VENT PRODUCTS** 

PRESIDENT'S MESSAGE



The program is developing nicely. There are some slots open, so if you have a suggested topic or know of a great speaker, talk with your Program Committee. Preparations for our social sporting functions are being made. This year the tennis tournament will continue its long tradition and we will once again have our golf outing. Hopefully, these activities will attract a lot of support from beginners, duffers, pro's and ringers. There should be something for everyone.

I look forward to being your President and helping make this an eventful year. Any suggestions that you have for this year's activities are appreciated and will be acted upon.

Tom Reinarts
President

It seems like only last week when new Officers were installed and Gino conducted his last meeting. Time flies when you're having fun. I think that everyone will agree with me that Gino did a great job as our President. He worked very hard and his efforts were reflected in all areas of chapter operations -- thanks, Gino, for a job well done.

Your new Officers and Board have been busy working over the summer months to get the new year organized. This year we want to emphasize PARTICIPATION. We want to increase general membership, meeting attendance, program attendance, committee volunteers and participation in Society activities. The more people that actively participate, the better our program will be and the less work will be required from all involved. Most Committee Chairs have been filled; however, we would like to have a Vice Chair for each committee. That will allow more people to participate making succession of the following year's Chairperson easier. We have a need for everyone, even if your available time is limited. Please let one of the Officers or Directors know if you can help.

Increase Your Professional Knowledge -
Help Your Chapter Earn PAOE Points -

Attend ASHRAE's
Professional Development Seminar (PDS)

**"DDC for HVAC
Monitoring & Control"**

November 13-14, 1990

in

San Jose

For a complete program brochure and registration information, contact Marietta Henry at ASHRAE Headquarters (404-636-8400).

WE BRING GOOD THINGS TO LIGHT

What a dynamic group of individuals you are -- accomplished, supportive and generous with your commitments. I know this through phone conversations, ASHRAE meetings, and your participation in the past.

This year I have the awesome task of publicizing your accomplishments. In order to serve you and insure you receive deserved recognition, I need your help. If you have any newsworthy items about yourself or fellow members, please let me know. The sky's the limit -- we have the FOG DISPENSER, ASHRAE Insights, ASHRAE JOURNAL, plus the media.

Public awareness of technological advancements researched by our members further enhances Society image and insures proliferation by attracting new members with common interests and goals.

Your input is needed and will be most appreciated; I look forward to hearing from you.

Ellen P. Pierce
621-1199
Publicity Chairperson

RAFFLE CREDITS

The June Raffle was a tremendous success, with credits going to the Heublein Corporation. Gene Valerio was the big winner of the night. He received a Methusala of Italian wine. I wonder if he's finished it yet??

OUTSTANDING MEMBERS

Two Golden Gate ASHRAE members were recognized at the Society's 1990 Annual Meeting in St. Louis, Missouri, in June.

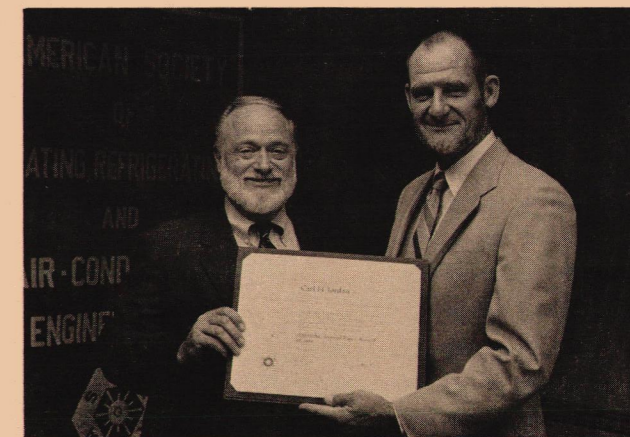
Richard A. Charles, P.E., President of Charles & Braun Consulting Engineers, was honored with a Distinguished Service Award for his continuing dedication to the Society. In addition to his current post as Society Treasurer (1990-91), Charles has served as Past President of the Chapter; Regional Director and Chairman for the Education Council, Publishing Council, CLIMA 2000 Planning Committee and Presidential Ad Hoc Committee on Regional Reorganization.

The prestigious 1989 Journal Paper Award was presented to Carl H. Jordan, P.E., Consulting Mechanical Engineer. Jordan is a fellow of the Society and a Past President of Golden Gate Chapter. "Central vs. Local HVAC Fan Systems for Highrise Office Buildings," was recognized as the best paper published in the ASHRAE Journal for the year 1989. The award-winning paper compares central vs. local HVAC fan systems based on a variable air volume system.

Congratulations to both of you!!



Society President David Butler and Richard Charles



Society President David Butler and Carl Jordan

DO YOU KNOW A PROSPECTIVE NEW MEMBER?

Contact Membership Chair:
Eric Tinglof (415) 467 - 8680

MAIL, FAX or PHONE NEWS TO:

FOG DISPENSER
Christine Noll, Editor
c/o Ted Jacob Engineering
1763 Broadway Street
Oakland, CA 94612-2105

Telephone (415) 763 - 4880
FAX (415) 763 - 5099

FOG DISPENSER

COPY DEADLINE

Meeting Date	Copy Deadline
November 1, 1990	October 12, 1990
December 6, 1990	November 14, 1990
January 3, 1991	December 14, 1990
February 7, 1991	January 15, 1991
March 7, 1991	February 15, 1991
April 4, 1991	March 13, 1991
May 2, 1991	April 12, 1991
June 6, 1991	May 15, 1991

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 (415) 495 - 4552

1990 - 1991 Officers

- Thomas ReinartsPresident
- Barbara S. DiltsPresident - Elect
- Frances N. SchollSecretary
- Steven T. Taylor.....Treasurer

Board of Governors

- Richard Leao
- Richard Paillon
- Gino Colacchia

**MINUTES OF THE JUNE MEETING
JUNE 7, 1990**

1. The June General Chapter meeting was called to order by President Gino Colacchia. This was Member Recognition and Companion Night.
2. Self-introductions were followed by approval of the Minutes of the May meeting. We had 24 companions and guests attending.
3. Tom White presented a brief history of our Chapter from its founding in 1937 as a Chapter of ASHVE to the 50th Birthday celebration in 1987. The Presidential Gavel, a gift of the Sacramento Chapter was passed to Tom Reinarts, our new Chapter President.
4. Tom Reinarts reported on the CRC in Hawaii:
 - * Golden Gate was runner-up for most Chapter members at CRC.
 - * John Lewis was honored for a hospital system.
 - * The Fog Dispenser was runner up for the newsletter award.
 - * A motion to use restraint on spending for the ASHRAE 100th birthday passed unanimously. Golden Gate had proposed a similar motion last year.
 - * Another motion proposed a promotional brochure to introduce ASHRAE to prospective members.
 - * A motion to promote the profession to students by supporting coop programs was also passed.
5. Roy Gifford reports that over \$5000 has been contributed to ASHRAE Research by Chapter members and their companies. Very good! Thanks, Roy for your leadership.
6. Jack Kniveton announced that the annual tennis tournament would be the next day at the Harbor Bay Club in Alameda. They expect about 28 players.
7. York, Dupont and PG&E will present a seminar on Chillers, CFC'S and the PG&E New Construction Rebate Program on July 11, NOON-2p.m., at the Holiday Inn on Fisherman's Wharf.
8. The raffle this month was an exceptional success, especially when Gene Valerio won the Methusala of Italian wine.
9. Highlights of the past year:
 - * We have a new Constitution and Bylaws!
 - * Meeting attendance increased, even at \$25 for the meals.
 - * Local Student Night included students from Cal and S.F. State.
 - * We presented our second \$500 Chapter Scholarship.
 - * The Roster is now on disk and for the first time included member business cards.
 - * The Board and Committee Chairs are assembling a Chapter Operations Manual to make life easier for future leaders.
 - * Tom Gilbertson, Region X Research Promotion Chair, has created a traveling award, to be known as the Thomas J. White Research Promotion Award, for the Chapter in Region X with the most outstanding Research Promotion efforts.
10. Certificates and plaques were presented to all those members who have served as committee chairs this year. They and the folks on their committees deserve our thanks for all the work which has made this such a successful year.
11. Dart introduced the new scholarship to be administered by the Chapter. The Eric Thor Andresen Scholarship honors Eric Andresen who was killed in an accident this spring. His friends and associates have donated over \$5000 to the scholarship.
12. The new officers for 1990-91 are Tom Reinarts - President, Barbara Dilts - President Elect, Fran Scholl - Secretary, Steve Taylor - Treasurer, Rich Leao - Sr. Board Member, Rich Paillon - Board Member, Gino Colacchia - Past President.
13. The meeting adjourned at 9:15.

Respectfully Submitted,

Barbara S. Dilts

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX
FOR THURSDAY, OCTOBER 4, 1990

TO: BARBARA DILTS - PG&E - (415) 973-8494

PLEASE MAKE _____ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
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_____	_____
_____	_____

FAX EARLY! CALL BARBARA (973-3570) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

STUDENT SPONSORSHIP

- ** I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR _____ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.

- ** I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR _____ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO _____ PER MEETING, AND/OR, A TOTAL OF _____ PER YEAR.

SIGNATURE: _____

COMPANY: _____ PHONE: _____

ASHRAE GOLDEN GATE CHAPTER 1989-1990

CHAPTER OFFICERS

GINO COLACCHIA PRESIDENT
TOM REINARTS PRESIDENT-ELECT
BARBARA DILTS SECRETARY
FRAN SCHOLL TREASURER

BOARD OF GOVERNORS

STEVE TAYLOR
RICHARD LEAO
SHERMAN BROWN

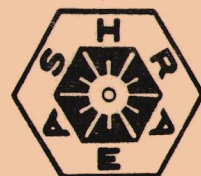
COMMITTEE/CHAIRPERSONS

AUDITING
CODE
EDUCATION
E.J.C.
ENERGY CONSERVATION
FOG DISPENSER
GOLF
GOVERNMENT AFFAIRS
HISTORIAN
HONOR ROLL
MEMBERSHIP
PROGRAM

JOHN LEWIS
STEVE TAYLOR
GAIL SHILLER
TOM REINARTS
TOM MCKEWAN
CHRISTINE NOLL
OPEN
BOB BRAUN
BOB PHILLIPS
MATT GOFF
ERIC TINGLOF
TOM REINARTS

SEMINAR
RAFFLE
RECEPTION
RESEARCH PROMOTION
ROSTER
S.F. ADMIN CODE
SCHOLARSHIP
TENNIS
PUBLICITY
PRODUCT SHOW
REFRIGERATION

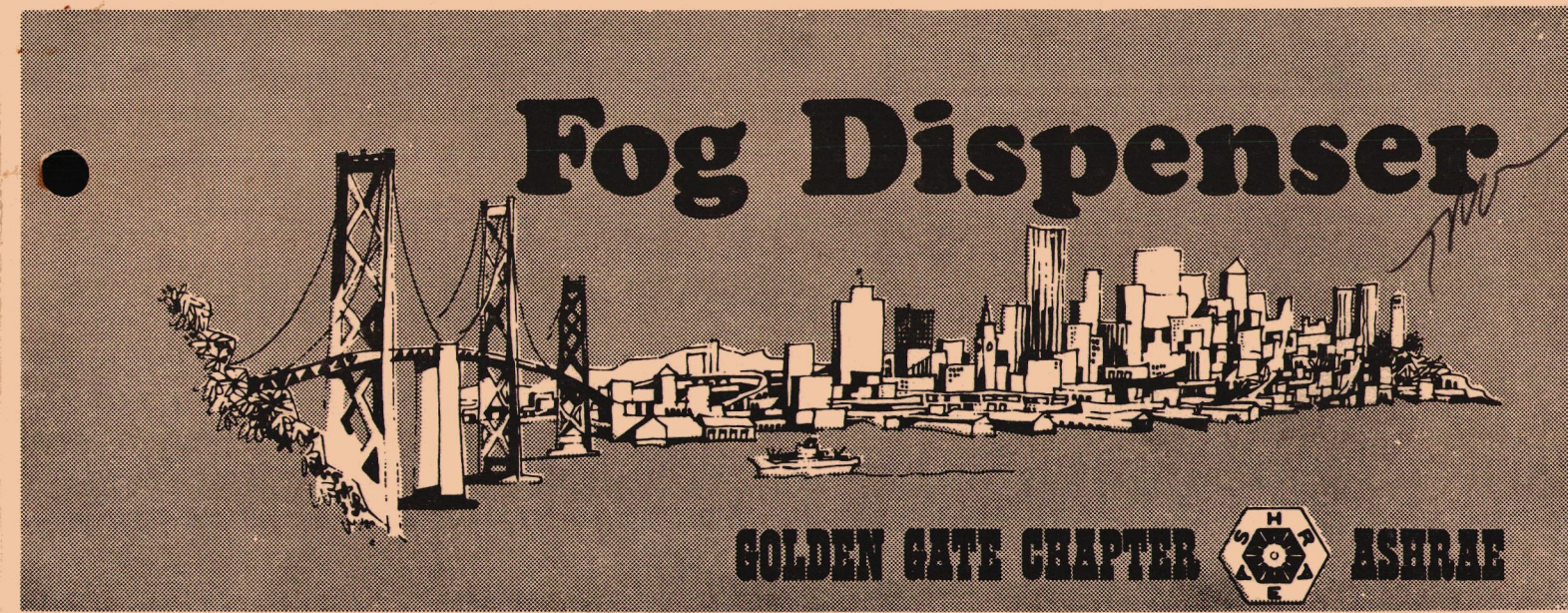
BEN SUN
TIM PROVO
SHAN CONRY
ROY GIFFORD
JIM TAYLOR
PETE JOHNSON
DAN REITER
JACK KNIVETON
LISA HOLMES
DAVE RIFKIN
LEWIS BROOKS



Golden Gate Chapter
ASHRAE
370 Brannan Street
San Francisco, CA 94107



Thomas M. Reinarts
Keller & Gannon
P.O. Box 42430
San Francisco, CA 94142



Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIX No.9

JUNE 1990

MEETING NOTICE

DATE: THURS., JUNE 7, 1990
SOCIAL HOUR: 5:30 P.M.
DINNER: 6:30 P.M.
LOCATION: ENGINEERS CLUB
160 SANSOME STREET
SAN FRANCISCO, CA
COST: \$25.00 (INCLUDES DESSERT)
NOTE: PLEASE PHONE OR FAX YOUR
DINNER RESERVATION TO TOM
REINARTS AT KELLER & GANNON
BY NOON ON TUESDAY AT THE
LATEST. A FAX FORM IS
ENCLOSED FOR YOUR
CONVENIENCE.
PHONE: 621-1199
FAX: 864-3681

JUNE PROGRAM

The June meeting will bring to a close the 1989-90 fiscal year. The theme of our June meeting is current "Membership." We will not have a formal program but will be acknowledging the contributions and accomplishments of our members. We will also be honoring our past Chapter Presidents and our companions. You are encouraged to bring your companion to the meeting. It should prove to be a lot of fun. Please get your reservations in early. The club is planning a special meal for us--complete with dessert!

Tom Reinarts

HONOR ROLL

NORMAN WRIGHT MECHANICAL EQUIPMENT CORPORATION
2398 JERROLD AVENUE
SAN FRANCISCO, CA 94124
TEL: (415) 777-5333 FAX: (415) 641-4413

Jack Kniveton

Rich Leao Jim Plakos
Larry Kent Sal Giglio
Celina Reagan Shan Conry
Linus Quinlan Mike Cadoo

PRESIDENT'S MESSAGE



Our Chapter will not meet the months of July, August, and September. Our first meeting for the 1990-91 chapter year will be held at the Engineers Club, Thursday, October 4th. The Board will continue to meet through the summer months in preparation for next year's activities. Barbara Dilts will be in charge of programs for next year. Please contact Barbara and give your suggestions. We are also interested in re-establishing mini workshops before the main meetings. We need a volunteer to chair this position.

Jack Kniveton has organized our Tennis Tournament, which will be held Friday, June 8th, at the Harbor Bay Club, Alameda. Contact Jack or Wayne Humphrey if you plan to attend at this late date.

"Research Promotion" - Have you made a contribution? This is your last opportunity. Please contact Roy Gifford and mail him your donation. Thank you for your support.

Well, another year has passed for the Golden Gate Chapter. The position of President was very challenging and rewarding. Thank you for your contribution to our Chapter. Let's make our June meeting a time of celebration and fellowship.

Gino Colacchia
President

A WARM RESPONSE TO COOL STORAGE

The ASHRAE Technical Seminar was very successful, with 90 people attending. Special thanks to all of those who participated!

Ben Sun
Technical Seminar Chairman

Our June meeting will be the last meeting for our Chapter year. We will dedicate the meeting to the installation of new officers, honors and awards, and past presidents. Following our tradition, we would like you to invite your companion to attend with you.

I would like to thank each one of you for helping me to serve as your president. The success of our Chapter is attributable to the willingness of its members to serve one another. This year we had 26 members share various committees, that's great. I would also like to thank the members that served within each committee.

I am pleased to announce the results of our elected board members for next year. Tom Reinarts will be our next President, Barbara Dilts will be President Elect, Fran Scholl will serve as Secretary, Steve Taylor will be Treasurer, Rich Leao, Rich Paillon, and Gino Colacchia will serve on the Board of Governors. The installation of officers will take place at our June meeting. Their term of office shall begin July 1st.

NEW START-UP

Environmental Support Products, Inc. (ESP) is a Manufacturer's Representative specializing in computer room air conditioning equipment, custom-built air handlers, power conditioning and distribution, 415 Hz frequency converters and UPS systems. The principals of ESP are Ken Horsfall, Steve Tharp and Dick Dundas. The address is:

23785 Cabot Blvd., Suite 312
Hayward, CA 94545
Phone: (415)785-2107
FAX: (415)785-7934

ENGINEERS AVAILABLE

The Jewish Vocational Service, a non-sectarian, no fee placement agency, helps Soviet emigres find jobs in this country. Many of the emigres are HVAC/mechanical engineers with years of experience and technical knowledge.

These soviet engineers are well-qualified for engineer or drafting positions where they will have an opportunity to become familiar with local regulations and procedures. Through the San Francisco Private Industry Council, JVS can offer employers financial incentives for hiring individuals via on-the-job training contracts. Up to one-half of the trainee's salary will be reimbursed for the duration of the training period. This is a wonderful opportunity to hire and train new employees with the help of financial incentives! JVS' Employer Development Specialist, Sandra Shuhert, will provide information about JVS services and client referrals. She will talk to employers about job listings and referring qualified candidates. No fee will be charged for listing, referrals or placements. Interested employers can call her at (415)391-3595.

NEW MEMBERS

Please welcome the following new members to our Chapter:

Bob Polizzi
Steven Davis

California Hydronics
National Air Balance

Eric Tinglof
Membership Chairman

CHAPTER ETA REPORT

Society has directed the Energy and Technical Affairs (ETA) Committee to assist in collecting a data base of PEER REVIEW PARTICIPANTS. The number and complexity of Symposium and Technical Papers as well as Handbook Chapters makes this data base of great importance. The ETA Committee requests that you volunteer your expertise to help Society. With 50,000+ membership we should have at least as many participants in this data base. Users, Installers, Manufacturers, Salesmen, Professors and Engineers are all needed. You do not need to know everything on a subject, none of us do. Please fill out an ASHRAE BIOGRAPHICAL RECORD, if required, and an ASHRAE PEER REVIEW PARTICIPANT form. If a paper needing your expertise surfaces you may be contacted, then again you may not, however your availability is of prime importance. This is your opportunity to contribute technical knowledge back to Society in return for what you've received. If you know of individuals who would make good reviewers please don't hesitate to communicate this need to them.

An ASHRAE TECHNICAL REVIEW PARTICIPANT INFORMATION form is reproduced for those with a current (three years or less) ASHRAE BIOGRAPHICAL RECORD on file at Society. Those lacking current forms should contact the ETA Chairman and come to a meeting to pick them up. We look forward to seeing you at the next meeting.

TECHNICAL REVIEWER REQUIREMENTS:

ASHRAE MEMBER
ASHRAE BIOGRAPHICAL RECORD FORM (current)
ASHRAE PEER REVIEW PARTICIPANT INFO. FORM

NON-MEMBER
ASHRAE REVIEWER DATA FORM
ASHRAE PEER REVIEW PARTICIPANT INFO. FORM

DO YOU KNOW
A PROSPECTIVE NEW MEMBER?
Contact Membership Chair:
Eric Tingloff (415)467-8680

MAIL, FAX, or PHONE NEWS TO
Christine Noll, Editor
FOG DISPENSER
c/o Ted Jacob Engineering
1763 Broadway
Oakland, CA 94612-2105
(415) 763-4880 Telephone
(415) 763-5099 FAX

Fog Dispenser	
COPY DEADLINE	
Meeting Date	Copy Deadline
June 7, 1990	May 16, 1990

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: (415)495-4552.

1989-1990 Officers
Gino Colacchia.....President
Thomas Reinarts.....President-Elect
Barbara Dilts.....Secretary
Frances Crisp.....Treasurer

Board of Governors
Steve Taylor Richard Leao
Sherman Brown

**MINUTES OF THE MAY MEETING
MAY 3, 1990**

The May General Chapter meeting was our annual field trip. This year we visited Maxwell Laboratories, Brobeck Division. This East Bay company produces accelerators for industry and for the research community. After a brief discussion of high energy physics, we were shown the machine currently being produced. The discussion included production issues such as radiation, and details on the future uses of the machine in research and industry.

This field trip was a little different than many in the past and was attended by over forty members. Following the field trip, we adjourned to Spenger's for dinner.

Respectfully Submitted,

Barbara S. Dilts

PG&E REBATE PROGRAMS

PG&E is again offering incentive programs for the installation of energy efficient equipment. The Customized Gas and Electric Program offers rebates for all projects that reduce the use of PG&E gas or electricity. The New Construction Rebate Program offers incentives for new buildings which exceed Title 24. For details, call your local PG&E representative.

Barbara S. Dilts

MOVING UP

Gail Schiller Ph.D., recently received a tenured position at UC Berkeley as an Associate Professor. She truly deserves it, we all know how dedicated she is to her students. Congratulations, Gail!!

UC CONTINUING EDUCATION FOR ENGINEERS

Sixteen men and women engineers during the Fall 1989 and Spring 1990 semesters completed the four basic courses in the HVAC & R curriculum earning eight units of post-graduate credit in Mechanical Engineering. In addition, they earned the Certificate of Accomplishment awarded by the Golden Gate Chapter, ASHRAE. Several earned additional credit by completing either one or both of the two additional related courses in the HVAC & R Curriculum.

Listed below are their names and units earned:

FALL SEMESTER 1989

Robert Leon Barkalou	8 units in ME
Ollie D. Bingham	12 units in ME
Roger W. Blair	12 units in ME
Steve Chan	8 units in ME

SPRING SEMESTER 1990

Woubabeba Bekele	8 units in ME
Mark A. Boseh	8 units in ME
Cory D. Chaplin	8 units in ME
Hany M. Farag	8 units in ME
Robert J. Fong	8 units in ME
Robert B. Hogue	10 units in ME
Brian J. Larkin	8 units in ME
Meredith T. Owens	10 units in ME
Angela A. Palazzolo	10 units in ME
Suzanne M. Perkins	10 units in ME
Allen D. Sherman	8 units in ME
James W. Young	12 units in ME

On behalf of the UC Continuing Education in Engineering Staff and the students, I would like to express our appreciation and thanks to the Instructors for their assistance in making this HVAC & R Curriculum a successful program.

University of California Extension will offer Air Conditioning and Heating Psychrometry and Load Calculations Course 469 in the Fall of 1990. The course will be held on twelve Mondays, starting September 17, 7-9:30 PM at UC Extension Center, 55 Laguna St., San Francisco.

For further information concerning the course and how to enroll, call (415)642-4111.

Don Bryant
Coordinator

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX
FOR THURSDAY, JUNE 7, 1990

TO: TOM REINARTS - KELLER & GANNON - (415) 864-3681

PLEASE MAKE _____ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FAX EARLY! CALL ELLEN (621-1199) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS

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STUDENT SPONSORSHIP

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SIGNATURE: _____

COMPANY: _____ PHONE: _____

ASHRAE GOLDEN GATE CHAPTER 1989-1990

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COMMITTEE/CHAIRPERSONS

AUDITING
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 E.J.C.
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 FOG DISPENSER
 GOLF
 GOVERNMENT AFFAIRS
 HISTORIAN
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 MEMBERSHIP
 PROGRAM

JOHN LEWIS
 STEVE TAYLOR
 GAIL SHILLER
 TOM REINARTS
 TOM MCKEWAN
 CHRISTINE NOLL
 OPEN
 BOB BRAUN
 BOB PHILLIPS
 MATT GOFF
 ERIC TINGLOF
 TOM REINARTS

SEMINAR
 RAFFLE
 RECEPTION
 RESEARCH PROMOTION
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 SCHOLARSHIP
 TENNIS
 PUBLICITY
 PRODUCT SHOW
 REFRIGERATION

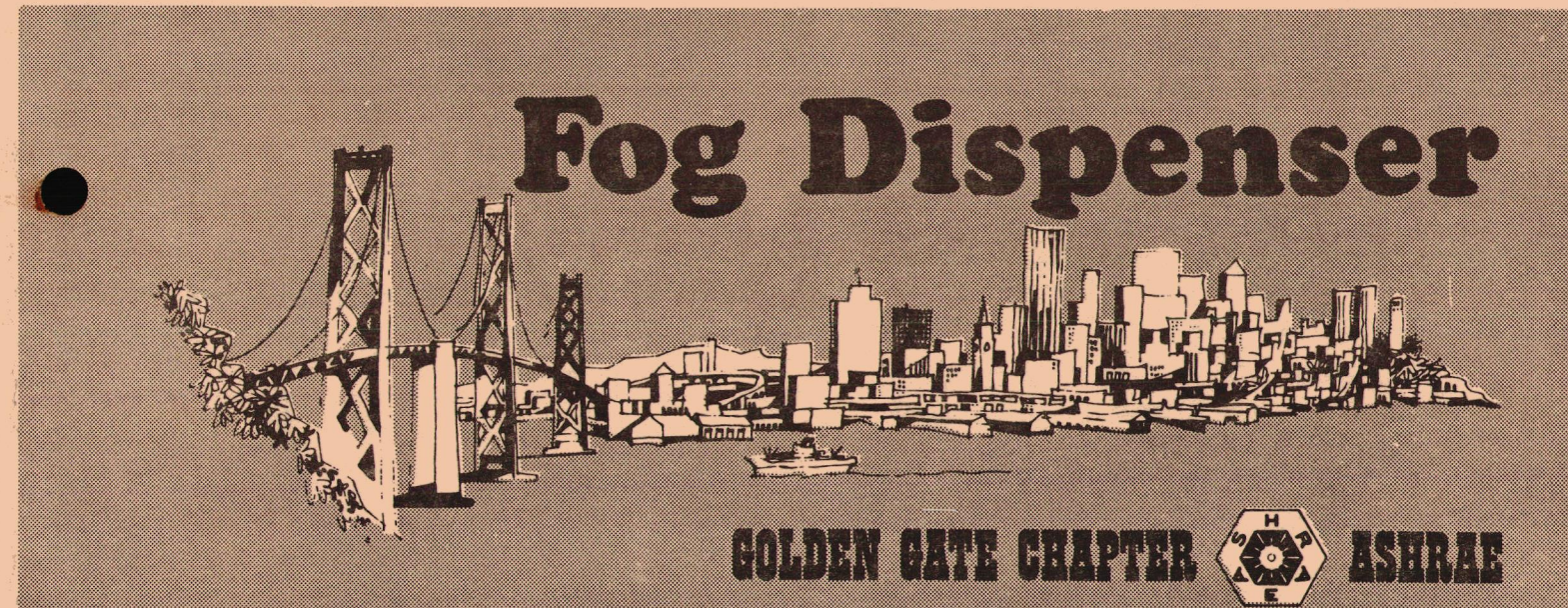
BEN SUN
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 SHAN CONRY
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 LISA HOLMES
 DAVE RIFKIN
 LEWIS BROOKS



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 370 Brannan Street
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Barbara Dilts
 2425 Acton Street
 Berkeley, CA 94702



GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIX No.8

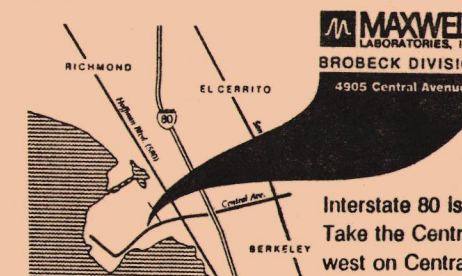
MAY 1990

MEETING NOTICE

MAY PROGRAM

DATE: THURS., MAY 3, 1990
 MEET: 6 P.M. AT MAXWELL LABORATORIES, INC.
 4905 CENTRAL AVENUE
 RICHMOND, CA 94804-5803
 PHONE : 524-8664
 DINNER: SPENGER'S IN BERKELEY (APPROX. 7:30 P.M.)
 NOTE: PLEASE PHONE OR FAX YOUR TRIP AND DINNER RESERVATIONS TO TOM REINARTS AT KELLER & GANNON BY NOON ON TUESDAY AT THE VERY LATEST. A FAX FORM IS ENCLOSED FOR YOUR CONVENIENCE.
 FAX: 864-3681
 PHONE: 621-1199

Our May meeting will be a field trip to Maxwell Laboratories, Brobeck Division to learn about electron accelerators and storage rings. The staff at Maxwell Brobeck will discuss the machines and how they are being used in industry for research, development and production. We will have a chance to see the accelerator magnets, extraction devices (wigglers) and other accelerator components. After the meeting we will adjourn to Spengers (about 7:30 P.M.) for dinner.



Tom Reinarts

Interstate 80 is the easiest approach. Take the Central Ave. exit and head west on Central - under 80, and then over 580.

HONOR ROLL

ANNOUNCING A
PRODUCT SHOWCASE AND TECHNICAL SEMINAR
 AND A
20TH ANNIVERSARY CELEBRATION
 WEDNESDAY MAY 9 AND THURSDAY MAY 10
 AT OUR OFFICE AND WAREHOUSE

CHECK YOUR MAIL OR CALL US FOR AN ANNOUNCEMENT BULLETIN



REDWOOD CITY

PHONE 415 - 367 - 8310

PRESIDENT'S MESSAGE



Your board has begun to plan for next year's Chapter's operations. We are in need of Committee Chairpersons and assistance to run our Chapter. Please consider this opportunity to volunteer your time and efforts. Contact Tom Reinarts and let him know your interests.

Our final meeting of this year will be held June 7th. The meeting will be dedicated to honors and awards along with the installation of Board Members. We would like you to invite your companion and enjoy an evening of fun and fellowship with one another.

Gino Colacchia
President

Our May meeting will not be held at the Engineer's Club. Following our tradition, the May meeting will be a field trip. Tom Reinarts has arranged for our Chapter to visit Maxwell Brobeck Laboratories in Richmond. We will see, first hand, the design and manufacturing of an electron accelerator and storage ring.

Ben Sun and his committee have organized a terrific seminar for this year. By now you should have received the seminar flyer. The subject will be Cool Storage and Low Temperature Air System Design and Application. If you have not made your reservations, it is still possible to call Ben Sun and sign up. The seminar will be held Wednesday, May 2nd. The seminar is one of our main sources of revenue. Your attendance will be educationally rewarding and an asset to our Chapter.

Roy Gifford is our Research Promotion Chairman. You should have received his letter requesting your contribution to ASHRAE Research. Please write your check out to: ASHRAE, Golden Gate Chapter. Tag your check "Research Fund" and mail it to: Roy Gifford, 209 Poshard St., Pleasant Hill, CA 94523.

IN MEMORY

Eric T. Andresen, a mechanical engineer with Glumac & Associates and formerly with Flak & Kurtz, died Sunday, April 15 at age 29, in a motorcycle accident.

At Glumac, Eric was the authority on thermal storage systems, and was relied on for his skills in computer simulation. He was also part of a group of engineers designing projects directly on CAD.

A graduate of Penn State University, Eric was an excellent tennis player, had a passion for music and was known for his gregarious personality.

He is survived by his sister, Denise, of San Francisco, and his parents, Flemming and Svava Andresen of Lincoln, Nebraska.

The family requests that contributions be sent to the Golden Gate Chapter ASHRAE Scholarship Fund, in memory of Eric Andresen, c/o Glumac & Associates, Inc., 275 Battery, San Francisco, CA 94111.

EMPLOYMENT OPPORTUNITIES

ENGINEERS WANTED

Innovative San Francisco consulting engineering firm, a leader in energy-efficient design, seeks experienced Mechanical and Electrical Engineers. Mechanical positions include analysis and/or design of HVAC Systems, Central Plants, Process Equipment, Controls, TES and Cogeneration. Electrical position includes the design of Building Power Systems, HVAC Controls, Energy Management Systems, Cogeneration, and Lighting. Preferred qualifications include B.S., 3 years experience, professional registration. Full benefits, excellent work environment, profit sharing. Equal Opportunity Employer. Send full resume to:

Newcomb Anderson Associates
151 Union Street, Suite 200
San Francisco, CA 94111

HVAC/PLUMBING ENGINEER/DESIGNER

Design Engineering Services, Inc., an innovative leader in Mechanical Consulting and CAD design, provides each employee with a Mac II workstation, a challenging diversity of projects and the opportunity to bring your experience and education to help build the future with a progressive engineering team. We are looking for a competent engineer or designer with experience suitable for project management. Field experience and P.E. desirable. Send Resume and Salary Requirements to:

Hank Huddleston
Design Engineering Services, Inc.
116 New Montgomery St., Suite 815
San Francisco, CA 94105

INSIDE SALES ENGINEER

Position open for self-motivated individual, preferably a graduate engineer. Responsibilities include estimating and sales in the HVAC commercial and industrial markets. Contact Chuck Shane, TEMPCO Equipment Co. at (415)467-8680 if interested.

HVAC ENGINEER

Exciting opportunity for a licensed mechanical engineer to be manager of a 4 man engineering department with an HVAC healthcare design building corporation headquartered in Seattle. Major clients are in California and 16 other states as far east as Tennessee. Position requirements: licensed, 5 years experience with HVAC, familiar with Trace 1 & 2 software, familiar with California codes. For further information please call Gailmarie Frank at HealthCare Recruiters, (303)595-9533.

HVAC ENGINEER

Fabulous opportunity with a large architectural firm in North Carolina to be in charge of the mechanical engineering department in a satellite office in Raleigh, North Carolina. The licensed engineer will be in charge of all HVAC work for medical office buildings and hospitals. Engineer must be a self-starter and enjoy working independently. For further information please call Gailmarie Frank at HealthCare Recruiters, (303)595-9533.

RAFFLE CREDITS

Thanks to Metal Industries Foundation for their generous donation towards the April Raffle.

Timothy Provo
Raffle Chairman

NEW MEMBERS

Please welcome the following new members to our Chapter:

Philip Chew	Prime Air
Gary Lawrence	Pribuss Engineering
Kim Sorensen	
Kenneth Hill	Eichleay Engineers
Mark Abramson	Newcomb Anderson Associates

Eric Tinglof
Membership Chairman

KNOW A PROSPECTIVE NEW MEMBER?
Contact Membership Chair:
Eric Tinglof - (415)467-8680

MAIL, FAX, or PHONE NEWS TO:

Christine Noll, Editor
Fog Dispenser
c/o Ted Jacob Engineering
585 Mandana Blvd., Suite 10
Oakland, CA 94610
(415)763-4880 Telephone
(415)763-5099 FAX

Fog Dispenser

COPY DEADLINE

Meeting Date	Copy Deadline
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May 3, 1990	April 13, 1990
June 7, 1990	May 16, 1990

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: (415)495-4552.

1989-1990 Officers
Gino Colacchia.....President
Thomas Reinarts.....President-Elect
Barbara Dilts.....Secretary
Frances Crisp.....Treasurer
Board of Governors
Steve Taylor Richard Leao
Sherman Brown

**MINUTES OF THE APRIL MEETING
APRIL 5, 1990**

ATTENDANCE: 95 MEMBERS, 10 GUESTS

1. The April General Chapter meeting was called to order by President Gino Colacchia. This was also Local Student's Night. Five students from U.C. Berkeley and five from S.F. State attended.
 2. Ahmad Gangi, from S.F. State, and Gail Schiller, from U.C. Berkeley, were introduced. The Chapter thanks both for their support of the student groups at their universities. Students also introduced themselves and told us of their special interests and projects.
 3. Self-introductions were followed by approval of the Minutes of the March meeting.
 4. Bob Braun recently spoke to students at U.C. Berkeley. Thanks to Bob and all the other Chapter members for their support of our student groups.
- Nominations for Chapter Offices were opened to nominations from the floor. You will receive your official ballot in the mail shortly. New Officers will be installed at the June meeting.
6. The CRC is in Hawaii this year. Make your plans now. Also, let Gino know you attended so we can claim our earned PAOE points. See you there.
 7. The May field trip will be to the Maxwell Brobeck Labs in Richmond. This company produces accelerators for government and for private industry. Join us to see some of this exciting technology.
 8. Roy Gifford has mailed all members a letter to encourage your contribution to ASHRAE Research. Please contribute to this valuable research.
 9. The annual technical seminar on "Cool Storage and Low Temperature Air System Design and Applications" happens on May 2. Ben Sun, Marie Madden and Dennis Thompson have a great program planned. Call them if you need details.

10. The Second Golden Gate Scholarship for a student in the Bay area was presented to Kristin Heinemeier. Kristin is a graduate student at U.C. Berkeley and the Secretary and Treasurer of the ASHRAE Student Chapter. Congratulations to Kristin and thanks to all who make this scholarship possible.
11. Greg DeLuga, principal engineer for life safety systems for Landis & Gyr Powers, presented our program on Smoke Control Systems. He highlighted what we've learned about smoke hazards and the changes that have resulted in the approaches to smoke control. The design for a good smoke control system can be rather complex and requires not only automated controls, but manual override control as well. Since smoke control is part of the overall HVAC system and life safety system, care must be taken that all systems work well together. Even the best system design must be thoroughly tested. The group had a number of questions after the presentation.

Respectfully Submitted,

Barbara S. Dilts

CECO WORKSHOP

A free public workshop covering the basics of San Francisco's new Commercial Energy Conservation Ordinance (CECO) will be held Wednesday, May 23rd from 10:00 A.M.-12:00 P.M. in Room 2007 of the San Francisco Federal Building, 450 Golden Gate Avenue. To register for the workshop, call 451-CECO.

MOVING ALONG

This is to announce that Ted Jacob Engineering Group, Inc., has moved to a newly renovated art deco building in downtown Oakland. The new address is:

1763 Broadway
Oakland, CA 94612-2105
Phone: (415)763-4880
FAX: (415)763-5099

ASHRAE GOLDEN GATE CHAPTER

FIELD TRIP RESERVATION FAX
FOR THURSDAY, MAY 3, 1990

TO: TOM REINARTS - KELLER & GANNON - (415) 864-3681

PLEASE MAKE 1 RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL PARTICIPATE IN THE FIELD TRIP TO MAXWELL BROBECK.

Barbara Dilts _____

ALSO

PLEASE MAKE DINNER RESERVATIONS FOR 0 PERSONS FOLLOWING THE FIELD TRIP TO SPENGLERS IN BERKELEY.

FAX EARLY! CALL ELLEN (621-1199) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

ASHRAE GOLDEN GATE CHAPTER 1989-1990

CHAPTER OFFICERS

GINO COLACCHIA
TOM REINARTS
BARBARA DILTS
FRAN CRISP

PRESIDENT
PRESIDENT-ELECT
SECRETARY
TREASURER

BOARD OF GOVERNERS

STEVE TAYLOR
RICHARD LEAO
SHERMAN BROWN

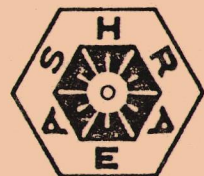
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PROGRAM

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STEVE TAYLOR
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TOM REINARTS
TOM MCKEWAN
CHRISTINE NOLL
OPEN
BOB BRAUN
BOB PHILLIPS
MATT GOFF
ERIC TINGLOF
TOM REINARTS

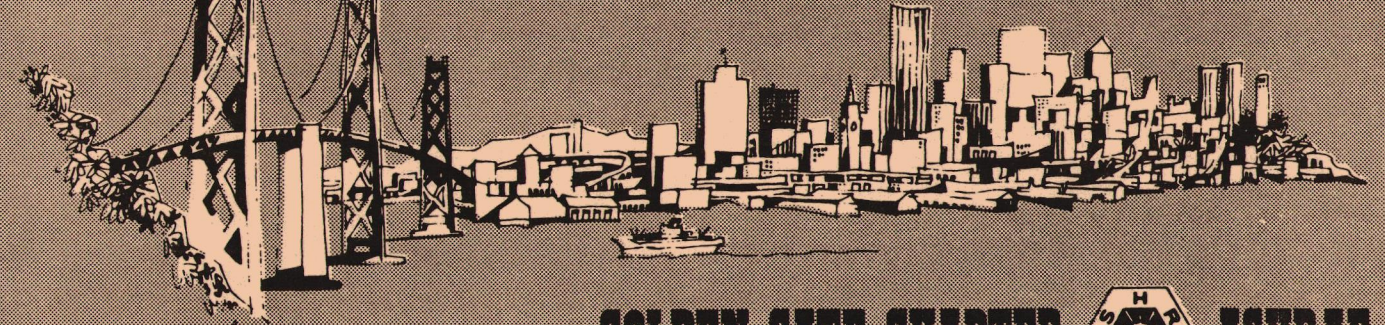
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DAN REITER
JACK KNIVETON
LISA HOLMES
DAVE RIFKIN
LEWIS BROOKS



Golden Gate Chapter
ASHRAE
370 Brannan Street
San Francisco, CA 94107

Fog Dispenser



GOLDEN GATE CHAPTER  **ASHRAE**

VOLUME XXIX No.7

APRIL 1990

MEETING NOTICE

DATE: THURS., APRIL 5, 1990
SOCIAL HOUR: 5:30 P.M.
DINNER: 6:30 P.M.
LOCATION: ENGINEERS CLUB
160 SANSOME STREET
SAN FRANCISCO, CA
POST: \$25.00 (INCLUDES DESSERT)
NOTE: PLEASE PHONE OR FAX YOUR
DINNER RESERVATION TO TOM
REINARTS AT KELLER & GANNON
BY NOON ON TUESDAY AT THE
LATEST. A FAX FORM IS
ENCLOSED FOR YOUR
CONVENIENCE.
PHONE: 621-1199
FAX: 864-3681

APRIL PROGRAM

Compliance with laws, ordinances and regulations governing smoke control continues to be very elusive. Our April program is titled, "NFPA 92A - Smoke Control Systems."
Greg DeLuga, principal engineer for life safety systems for Landis & Gyr Powers, will be our speaker. Greg will discuss the overall impact of NFPA 92A and what the specific requirements and solutions are.
Greg is well-qualified to speak on smoke control, as he served on NFPA's Smoke Management Committee that developed the standard. He is a registered professional engineer and a member of ASHRAE, NFPA and SFPE.

Tom Reinarts



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- * HUMIDIFICATION AND DEHUMIDIFICATION PRODUCTS
- * CHILLERS - AIR, EVAPORATIVE AND WATER COOLED, SCREW OR RECIPROCATING COMPRESSORS (UTILIZING ENVIRONMENTALLY PREFERRED REFRIGERANT R-22)
- * EVAPORATIVE AIR CONDITIONING - DIRECT, INDIRECT AND COMBINATION

PRESIDENT'S MESSAGE



We have entered into the last quarter of our Chapter year. Tom Reinarts has worked hard to plan exciting meetings with great topics and speakers. Our April meeting will deal with the subject of smoke control. Our May meeting will be a field trip to the Stanford Linear Accelerator. Our final meeting will be in June, which has been set aside for honors and awards.

We have included a listing of the nominees selected to serve office in 90/91. In accordance with our current bylaws, we will accept additional nominations from the floor at the April meeting. At that time, nominations will be closed and a ballot will be mailed to each member for your vote.

CRC is scheduled for May 15 in Honolulu, Hawaii. Early registration must be submitted by April 15. Please call me if you need additional information.

Cy Hanson, our Regional Director, attended our March meeting. Cy announced to our Chapter that Dick Charles was nominated to serve as Society Treasurer. Dick has worked very hard serving ASHRAE for many years. He is an effective leader in our Society. This nomination allows Dick to be eligible to become Society President. Congratulations, Mr. Charles, we are all very proud of you!!!

Martin Kraft, of the ASHRAE Journal has contacted us to request local articles on modernization and retrofitting buildings in the San Francisco Bay Area. They will feature this topic in the July issue of the Journal. These articles must be submitted prior to April 20. Let me know if you have worked on this type of project.

Our April meeting will be dedicated to local students. Our Chapter has diligently pursued the local universities in an effort to increase our Student Membership. With the persistence of Chapter members, such as Gary Harbison, Dart Rinefort, Carl Jordan, and many other volunteers, we now have an active ASHRAE Student Chapter at UC Berkeley. Gail Schiller, Assistant Professor with UC Berkeley, is the Faculty Sponsor for the Berkeley Chapter. Gail is also our Education Committee Chairperson.

During our April meeting, we will be awarding this year's scholarship to a local student. Our Scholarship Chairman, Dan Reiter, will present the award. Please invite a student to attend this meeting. Tom Reinarts has sponsors for the student dinner ticket. Let Tom know if you plan to invite a college student.

Hope to see you all at the April meeting, invite a friend to attend!

Gino Colacchia
President

TENNIS TOURNAMENT

Friday, June 8th 1-4 p.m.
Harbor Bay Club in Alameda

We expect a large turnout of players of all levels and will group by ability so that everyone has a fine day of tennis. Lunch and soft drinks will be included. Contact Co-chairman Jack Kniveton (415)777-5333 or Wayne Humphrey (415)589-8313 if you have any questions. A sign-up sheet will be mailed with the May Fog Dispenser.

SCHOLARSHIP AWARDED TO KRISTIN HEINEMEIER

I am happy to announce the presentation of the second GOLDEN GATE CHAPTER SCHOLARSHIP at this April meeting. The choice was difficult because all of the applicants were well qualified, but one student was selected as the best. This student is Kristin Heinemeier: a graduate student at UC Berkeley, Secretary and Treasurer of the ASHRAE Student Chapter at UC Berkeley and author of publications in ASHRAE Transactions and an ASHRAE Technical Bulletin. Congratulations, Kristin!

Thanks to the applicants for their efforts. Thanks to Gail Schiller and Ahmad Ganji for their help in getting the students involved. Thanks to Carl Jordan, Gary Harbison, Don Bryant, and Dart Rinefort for serving on the selection committee. Thanks to all members and companies that made donations to the fund. All of these people made this GOLDEN GATE CHAPTER SCHOLARSHIP possible.

Again, congratulations Kristin!

Dan Reiter
Scholarship Committee Chair

NEW MEMBERS

Please welcome the following new members to our Chapter:

- | | |
|-----------------|-------------------------------|
| Craig E. Brown | The Brown Co. |
| Don Druyanoff | Trane Co. |
| Michael Cory | Vann Engineering |
| Gloria Nugent | PG&E |
| Jeff Blaevoet | Ove Arup & Partners |
| Dennis Nugent | PG&E |
| Nancy Munro | PG&E |
| Al Alexy | York International |
| Michael Hansen | Jacobs Engineering Group |
| Maryam Ebke | Flack + Kurtz |
| Rob Linford | Linford Air |
| Eduardo Roberto | Linford Air |
| Will Dubrul | ECLAT |
| Dale Davis | Bentley Engineering |
| Alex Brown | G.E.Z. Architects & Engineers |

Eric Tinglof
Membership Chairman

EMPLOYMENT OPPORTUNITIES

MECHANICAL ENGINEER

Looking for self-starter with good background in "wet side" HVAC design and installation. Duties include estimating, purchasing and project management. Salary negotiable and commensurate with ability and potential. Excellent career opportunity with stable local mechanical contractor.

Phone (415)647-0696 for appointment. Send resume to Western Plumbing & Heating Co., Inc., 600 Treat Avenue, San Francisco, CA 94110.

**MECHANICAL ENGINEER/DRAFTER
HVAC, PLUMBING, FIRE PROTECTION**

A multidisciplinary engineering firm is seeking a talented Mechanical Engineer or Designer with a minimum of 5 years experience in areas of HVAC, plumbing, fire protection and process piping. Familiarity with IBM personal computer and AutoCAD is a plus.

Please send your resume and salary requirements to Foster Engineering, Inc., 847 Howard St., San Francisco, CA 94103.

SPECIAL INVITATION

Join BETA/ASHRAE - SAN JOSE CHAPTER for the big event of the year; a MICRO-BREWERY TOUR/ TASTING/ DINNER. APRIL 10; tour every 15 minutes; starts at 6:00PM. Dinner seating/taste testing - 7PM - \$20.00 Food and Brew. PLACE: TIED HOUSE CAFE & BREWERY, 954 Villa St., Mountain View (between Bailey Ave. and Castro St., near Evelyn Ave., on Villa). Reservations: Saul Villanveva (408)255-1321; Jack Zarour (415)852-1129.

KNOW A PROSPECTIVE NEW MEMBER?
Contact Membership Chair:
Eric Tinglof - (415)467-8680

MAIL, FAX, or PHONE NEWS TO:

Christine Noll, Editor
Fog Dispenser
c/o Ted Jacob Engineering
585 Mandana Blvd., Suite 10
Oakland, CA 94610
(415)763-4880 Telephone
(415)763-5099 FAX

Fog Dispenser

COPY DEADLINE

Meeting Date Copy Deadline

April 5, 1990	March 14, 1990
May 3, 1990	April 13, 1990
June 7, 1990	May 16, 1990

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1989-1990 Officers
Gino Colacchia.....President
Thomas Reinarts.....President-Elect
Barbara Dilts.....Secretary
Frances Crisp.....Treasurer
Board of Governors
Steve Taylor Richard Leao
Sherman Brown

**MINUTES OF THE MARCH MEETING
MARCH 1, 1990**

1. The March General Chapter meeting was called to order by President Gino Colacchia.
2. Self-introductions were followed by approval of the Minutes of the February meeting.
3. Roy Gifford talked about what ASHRAE Research is doing for the industry and urged us all to contribute to the Chapter Research Promotion campaign.
4. Ben Sun announced that the Spring Technical Seminar will be May 2. Start making plans now to attend. Bring a friend and a colleague.
5. Our Chapter receives PAOE points for all Associate Members who convert their memberships to full Member. The forms are simple and the price is right--FREE. Eric Tinglof has the forms.
6. The CRC is in Hawaii this year. Regions X and XI are combining. Come and find out what's happening in our regions and enjoy friends and colleagues from the West. Gino has registration forms.
7. Cy Hansen, Regional Director of Region X, joined us this month with news from the Winter Meeting in Atlanta.
 - * Dick Charles has been nominated for Treasurer of Society. Congratulations!!
 - * Carl Jordan has been nominated for an award for his article in the Journal. Yea, Carl!
 - * Bob Braun has been elected a Fellow of the Society...an honor well deserved!
 - * Standard 90.1 is FINALLY finished and published. Read all about it in the Journal, especially Steve Taylor's section.
 - * The Life Members' Club has contributed \$2000 to the Cal Poly Workshop. THANKS!
 - * Tom White was elected Secretary/Treasurer of the Life Member's Club. Congratulations, Tom!
8. Gail Schiller is working on a proposal to promote HVAC as a career choice for students. Call her with ideas.
9. Carl Jordan announced that we have 3 applicants for the \$500 Chapter Scholarship.
10. Dick Charles shared some observations on our Chapter from Society. Even though Golden Gate may be known as the "Renegade Chapter," we have "real" Bylaws, at last; we had non-profit status 20 years before Society encouraged it. Don Bryant's continuing education program has become the model for Society. And, Gail Schiller has demonstrated for all how students can become actively involved in ASHRAE activities. Impressive!
11. Glenn Cass and Chuck Siu of Galson Technical Services were our speakers on asbestos abatement and management. Many of us will come into contact with asbestos in the course of our jobs. They shared information on types of asbestos, methods of analysis for asbestos, current laws governing removal and health standards with regard to asbestos. Some aspects of asbestos removal are still controversial. We need to stay tuned to developments in asbestos management. It may be important to our health, too.

Respectfully submitted,

Barbara S. Dilts

ELECTION OF OFFICERS

The Nominating Committee has nominated the following people for election of Chapter Officers and Board Members for 1990-91. Nominations from the floor will be accepted at the April Chapter meeting. You will then receive the official ballot in the mail.

President-Elect:	Barbara Dilts
Secretary:	Fran Scholl
Treasurer:	Steve Taylor
Incoming Board Member:	Richard Paillon

Gino Colacchia automatically becomes Past President. Tom Reinarts automatically becomes President. Rich Leao automatically advances to Senior Board Member.

ASHRAE GOLDEN GATE CHAPTER

DINNER RESERVATION FAX
FOR THURSDAY, APRIL 5, 1990

TO: TOM REINARTS - KELLER & GANNON - (415) 864-3681

PLEASE MAKE 1 RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

Barbara Ditts

FAX EARLY! CALL ELLEN (621-1199) IF YOU HAVE ANY LAST MINUTE CHANGES IN PLANS

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

STUDENT SPONSORSHIP

- ** I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR _____ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.

- ** I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR _____ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO _____ PER MEETING, AND/OR, A TOTAL OF _____ PER YEAR.

SIGNATURE: _____

COMPANY: _____ PHONE: _____

ASHRAE GOLDEN GATE CHAPTER 1989-1990

CHAPTER OFFICERS

GINO COLACCHIA
TOM REINARTS
BARBARA DILTS
FRAN CRISP

PRESIDENT
PRESIDENT-ELECT
SECRETARY
TREASURER

BOARD OF GOVERNERS

STEVE TAYLOR
RICHARD LEAO
SHERMAN BROWN

COMMITTEE CHAIRPERSONS

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EDUCATION
E.J.C.
ENERGY CONSERVATION
FOG DISPENSER
GOLF
GOVERNMENT AFFAIRS
HISTORIAN
HONOR ROLL
MEMBERSHIP
PROGRAM

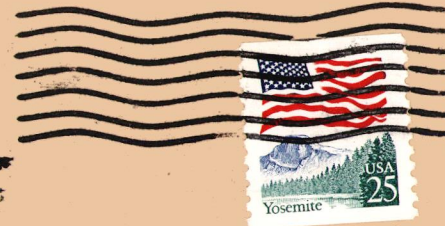
JOHN LEWIS
STEVE TAYLOR
GAIL SCHILLER
TOM REINARTS
TOM MCKEWAN
CHRISTINE NOLL
OPEN
BOB BRAUN
BOB PHILLIPS
MATT GOFF
ERIC TINGLOF
TOM REINARTS

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RAFFLE
RECEPTION
RESEARCH PROMOTION
ROSTER
S.F. ADMIN CODE
SCHOLARSHIP
TENNIS
PUBLICITY
PRODUCT SHOW
REFRIGERATION

BEN SUN
TIM PROVO
SHAN CONRY
ROY GIFFORD
JIM TAYLOR
PETE JOHNSON
DAN REITER
JACK KNIVETON
LISA HOLMES
DAVE RIFKIN
LEWIS BROOKS



Golden Gate Chapter
ASHRAE
370 Brannan Street
San Francisco, CA 94107



Robert W. Phillips
260 Trianon Way
Los Altos, CA 94022



Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIX No.6

MARCH 1990

MEETING NOTICE

DATE: THURS., MARCH 1, 1990
SOCIAL HOUR: 5:30 P.M.
DINNER: 6:30 P.M.
LOCATION: ENGINEERS CLUB
160 SANSOME STREET
SAN FRANCISCO, CA
\$25.00 (INCLUDES DESSERT)
PLEASE PHONE OR FAX YOUR
DINNER RESERVATION TO TOM
REINARTS AT KELLER & GANNON
BY NOON ON TUESDAY AT THE
LATEST. A FAX FORM IS
ENCLOSED FOR YOUR
CONVENIENCE.

MARCH PROGRAM

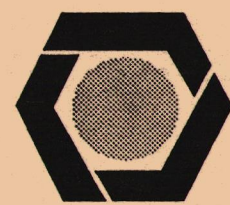
The March program should not only be very interesting but very valuable to all of us. Our topic is asbestos abatement and management. We are fortunate to have Glenn Cass and Chuck Siu of Galson Technical Services as our speakers. They will discuss:

- *Current Laws and Regulations
- *Abatement Techniques
- *O & M Precautions
- *Hazards of Substitute Materials
- *Future Regulations

Both Glenn and Chuck are extremely well qualified to bring us up-to-date on this important subject. Hopefully, we can make attendance at this meeting our biggest this year.

Tom Reinarts

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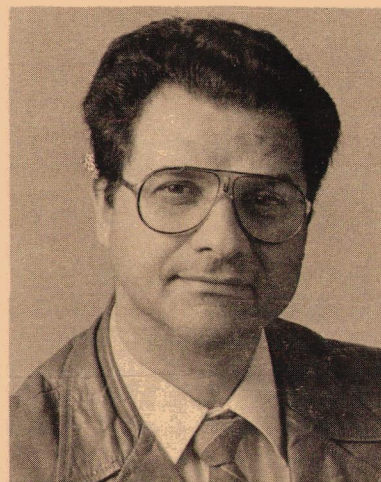
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PRESIDENT'S MESSAGE



Our new by-laws have been issued to Society for their review and approval. Many thanks to the committees hard work, especially Tom White. We appreciate the contribution given by the office of Keller & Gannon, who typed the documents into a word processor program, at their expense.

This year our Technical Seminar will be held May 2. Our chairman is Ben Sun. Now is the time to volunteer support. Give Ben a call.

We have invited our Regional Chairman, Cy Hansen, to attend the March meeting. Cy will update us on the activities of the Region and Society.

We are enjoying an increase in meeting attendance this year. However, we miss many of our members who have not been able to attend. Why not call a friend and invite them to join us. We have a great membership. See you at dinner.

Gino Colacchia
President

I have joined the firm of Vann Engineering. You may contact me by telephone at: (415)827-0220 or FAX 827-0352. Please continue to send mail to my home address.

Our reception committee is in need of volunteers. Shan Conry can use help with the setting up of the badge displays prior to the meeting. Please call Shan at 777-5333.

This years C.R.C. is scheduled for May 16, 17, and 18, in Honolulu. The schedule of activities should be available by our March 1 Chapter Meeting. Hotel and C.R.C. reservations must be made by April 15, to qualify for fee discounts. Tom Reinarts and Barbara Dilts will prepare this years Chapter Report, and serve as delegates. This is your opportunity to submit motions and resolutions to the region. Your input must be submitted to Tom Reinarts by 4/2/90, to be included in our report.

We kicked off our drive for Research Promotion during the February meeting. Roy Gifford and his committee will be contacting you to request financial donations. We need your support to make this year successful for ASHRAE research.

MEMBERSHIP UPGRADE

If you are an associate member and have been for a few years, now is a good opportunity to apply for advancement to full membership status. And it's free! In addition, the Chapter receives recognition from society (PAOE points) for each membership upgrade. Forms and qualification requirements will be available at the March Chapter meeting or contact Steve Taylor at (415)834-2430.

EMPLOYMENT OPPORTUNITIES

SENIOR HVAC ENGINEER

Immediate opportunity for Senior HVAC Engineer capable of complete design responsibilities for commercial office systems. Contact Vince Aiello at Vann Engineering, Concord office. Phone 827-0220.

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FEBRUARY RAFFLE CREDITS

The February Raffle had a Valentine's theme. The following companies donated:

- Hueblein Corporation
- Mica Foundation

Thank You!!

-Timothy Provo

KNOW A PROSPECTIVE NEW MEMBER?
Contact Membership Chair:
Eric Tinglof - (415)467-8680

MAIL, FAX, or PHONE NEWS TO:

Christine Noll, Editor
Fog Dispenser
c/o Ted Jacob Engineering
585 Mandana Blvd., Suite 10
Oakland, CA 94610
(415)763-4880 Telephone
(415)763-5099 FAX

Fog Dispenser

COPY DEADLINE

Meeting Date Copy Deadline

March 1, 1990 February 9, 1990
April 5, 1990 March 14, 1990
May 3, 1990 April 13, 1990
June 7, 1990 May 16, 1990

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: (415)495-4552.

1989-1990 Officers
Gino Colacchia.....President
Thomas Reinarts.....President-Elect
Barbara Dilts.....Secretary
Frances Crisp.....Treasurer
Board of Governors
Steve Taylor Richard Leao
Sherman Brown

**MINUTES OF THE FEBRUARY MEETING
FEBRUARY 1, 1990**

1. The February General Chapter meeting was called to order by President Gino Colacchia.

2. Self-introductions were followed by approval of the Minutes of the January meeting.

3. The Nominating Committee presented their nominations for 1990-91 officers:

President Elect Barbara Dilts
Secretary Fran Scholl
Treasurer Steve Taylor
Board Member Richard Paillon

Gino Colacchia becomes the Past President, Tom Reinarts becomes the Chapter President automatically. Rich Leao will be serving the second year of his two year term on the Board.

4. Research Promotion Night - Roy Gifford, our Research Promotion Chair, announced this year's campaign. ASHRAE has the largest non-profit, non-public research program in the United States. Last year Society collected over \$1 million from individuals and corporations. Roy reminded us that this is our opportunity to "give back to the industry some of what's been given to you." Let's make this year's campaign really successful.

5. Engineer's Week is Feb. 18-24. Tom Reinarts is our Chapter coordinator. If you will be involved in any Engineers' Week activities, let Tom know. If you aren't, call Tom to volunteer.

6. Marie Hoch, our Fog Dispenser editor, has left the industry. We will miss her. Christine Noll has agreed to become the new editor. Thanks, Chris! Best of everything to BOTH of you.

7. Tom White, in his last act as Chapter Historian, presented a HUGE check to Bob Phillips for \$34,500. Call Bob or Tom for the history.

8. This month's Raffle had a Valentine's theme.

9. **SEND IN YOUR RESERVATIONS!** At noon on Tuesday before the meeting Tom had only 50 reservations, 77 by Wednesday, and 93 on Thursday. **SURELY** we can do better than that! Those of you with late reservations will receive

big meal tickets, and may get an alternate meal. Folk are getting better about reservations, but slowly.

This month we had a computer demonstration session prior to the meeting. Several software vendors demonstrated their products to many of the members who were interested. Many were.

11. Bill McNearny from McDonnell Douglas spoke on "CADD for Building Owners and Engineers." Automation solutions are much more common today. Prices have gone down as speed has gone up. Computers now provide an overall perspective to all involved through improved, shared information and communications. Automating the design process can save 30-300% in time while providing clear plans and a system for document management. However, customization of the software is vital. We should be seeing even greater changes in the coming years.

Respectfully submitted,

Barbara S. Dilts

ANNOUNCEMENT

Vic Bach, a long time Chapter member, has become the President-elect of the MCAA (Mechanical Contractors Association of America). ASHRAE and MCAA have a close affiliation. Congratulations and the best of luck to you Vic!

TECHNICAL SEMINAR

The subject of the 1990 Golden Gate Chapter Technical Seminar will be "Cool Storage and Low Temperature Air Systems Design and Applications".

Date: Wednesday, May 2, 1990

Place: PG&E Auditorium, San Francisco

Topics: Design of Systems, Control Strategies of Systems, Case Study (Workshop Style)

For more information, please call Ben Sun at 398-3833.

ASHRAE - GOLDEN GATE CHAPTER

DINNER RESERVATION FAX
FOR THURSDAY, MARCH 1, 1990

TO: TOM REINARTS - KELLER & GANNON - (415) 864-3681

PLEASE MAKE _____ RESERVATIONS. FOLLOWING ARE THE NAMES OF THOSE WHO WILL ATTEND.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FAX EARLY! CALL ELLEN (621-1199) IF YOU HAVE ANY LAST-MINUTE CHANGES IN PLANS

PLEASE MAKE CHECKS PAYABLE TO "ASHRAE"

STUDENT SPONSORSHIP

- I WOULD LIKE TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO ATTEND OUR MEETINGS AND AM WILLING TO SPONSOR _____ STUDENT(S) AT \$20 EACH IF ANY ARE INTERESTED IN ATTENDING.
- I WOULD LIKE TO MAKE A LONG-TERM COMMITMENT AND PROVIDE THE OPPORTUNITY FOR _____ STUDENT(S) TO ATTEND ASHRAE MEETINGS AT \$20 EACH, UP TO _____ PER MEETING, AND/OR, A TOTAL OF _____ PER YEAR.

SIGNATURE: _____

COMPANY: _____ PHONE: _____

ASHRAE GOLDEN GATE CHAPTER 1989-1990

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TOM REINARTS
BARBARA DILTS
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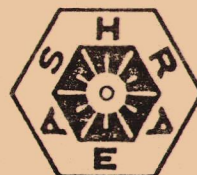
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Golden Gate Chapter
ASHRAE
370 Brannan Street
San Francisco, CA 94107



Robert W. Phillips
260 Trianon Way
Los Altos, CA 94022



Fog Dispenser

GOLDEN GATE CHAPTER  ASHRAE

VOLUME XXIX No. 5

FEBRUARY 1990

MEETING NOTICE

FEBRUARY PROGRAM

DATE: THURS. FEB. 1, 1990
SOCIAL HOUR: 5:30 P.M.
DINNER: 6:30 P.M.
LOCATION: ENGINEERS CLUB
160 SANSOME STRET
SAN FRANCISCO, CA
COST: \$25.00

NOTE: Please FAX or phone your dinner reservation to Tom Reinarts at Keller & Gannon by NOON on Tuesday at the very latest. A FAX form is enclosed for your convenience

FAX:864-3681 PHONE:621-1199

The theme of our February meeting is, "Research Promotion." The program will have as its topic, "Computers." We will have a workshop at 5:30 p.m. where we will have hands-on data and CADD demonstrations. The tables for ASHRAE's 1989 Fundamentals Handbook are now available in a computer format and will be demonstrated. In addition, we will have CADD workstations. The meeting program will deal with CADD applications for engineers and building owners. The program should be very informative and beneficial to all fo us. Encourage your friends and associates to Attend.
... Tom Reinarts

HONOR ROLL



PRESIDENT'S MESSAGE



Are you planning to attend the winter meeting in Atlanta, Georgia? It's the second week in February. Let's have a good turnout from our chapter.

February 18th thru 24th is National Engineers Week. Tom Reinarts is our Chairman for its coordination. Please let Tom know if you are planning any activities that week. Our chapter is given P.A.O.E. points for any activities.

Plan on attending the February meeting early. Tom Reinarts will have the speaker set up a selection of computer software for your review.

We will once again offer a \$500 scholarship to a local college student. The award will be given at the April meeting. Get the word out! Dan Reiter is our Scholarship Chairman. The Scholarship Committee will be releasing applications, call Dan.

We are accomplishing our goals. Thanks to your help, our meeting attendance is up, nearly all dues have been paid, new membership is going well, and dinner reservations are better than ever. The committee chairmen and chairwomen are all busy working on Chapter activities.

Marie Hoch will be leaving our industry next month, and will therefore resign as our Fog Dispenser Editor. We all appreciate her hard work and dedication to produce such a quality newsletter. Thank you, Marie. Fortunately, Christine Noll has agreed to take over as Fog Dispenser Editor starting with the next issue. Thank you- Chris!

Gino Colacchia
President

As we enter the month of February we are half way through our calendar year. The second half will be as exciting and more eventful.

We have established the February meeting as Research Promotion Nite. Roy Gifford is our Chairman this year. We have been challenged by our society to contribute an average of \$44 per each member in Region X. Our Regional goal is \$180,000. The Society goal is \$1,400,000. Tom Gilbertson is Vice Chairman of Research Promotion for our region. He will update us on the society activities at the February meeting.

The nominating Committee held its first meeting to select candidates for election to our Chapter Board. Serving on this years Committee is Bob Linford, Jack Kniveton, Carl Jordan, and Mike Rubio. The nominees will be presented to the Chapter at the March meeting, and elections will be held in April.

BELATED CREDITS FOR DECEMBER 1989 RAFFLE!

The following companies contributed to the December raffle gifts:

- AIRCO
NATIONAL CONTROLLED AIR CANADA
GOW SUPPLY
VENT PRODUCTS CHICAGO

-Tim Provo

TENNIS TOURNAMENT
save the date, mark your calendar

Friday, June 8th - 1-4 p.m.
Harbor Bay Club in Alameda

We expect a large turnout of players of all levels and will group by ability so that everyone has a fine day of tennis. Lunch and soft drinks will be included. Contact Co-chairmen Jack Kniveton (415) 777-5333 or Wayne Humprey (415) 589-8313 if you have any questions. A sign-up sheet will be mailed with the May Fog Dispenser.

-by Jack Kniveton

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For a complete program brochure and registration information, contact Marietta Henry at ASHRAE Headquarters (404-636-8400).

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Contact Membership Chair:
Eric Tinglof - (415)467-8680

Mail or Phone News to:

Christine Noll, Editor
Fog Dispenser
c/o Ted Jacob Engineering
585 Mandana Blvd., Suite 10
Oakland, CA 94610
(415)763-4880 Telephone

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Meeting Date Copy Deadline

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MINUTES OF THE JANUARY MEETING
JANUARY 4, 1990

1. The meeting was called to order at 7:30 p.m. by President Gino Colacchia.
2. The Minutes of the December meeting were approved as published in the Fog Dispenser.
3. The Nominating Committee nominees, Carl Jordan, Jack Kniveton, Mike Rubio, Bob Linford and Gino Colacchia, will be elected at the February meeting. People interested in serving on the Chapter Board should contact Carl.
4. The Chapter Constitution and Bylaws Committee carefully considered all recommendations submitted to them. Carl Jordan moved that the Chapter accept and adopt the Constitution and Bylaws published in the Fog Dispenser as amended by the two paragraphs on committee names that were omitted and some editorial changes. A copy distributed at the meeting included the two paragraphs and most of the editorial changes. Tom Reinarts seconded the motion. The vote was unanimous, well over the 2/3 vote of attending members required. We may do this again in about 50 years...if Tom White will help us.
5. U.C. Extension classes this semester: Temperature Controls, taught by Frank Mayhew, starts February 6. System Design, taught by Bob Braun and Dick Friedman, starts February 5. Call Don Bryant for more information.
6. Jack Kniveton was presented with a "Major Givers' Gift" in recognition of his support of the Cal Poly Endowment.
7. The Chapter Tennis Tournament will be Friday, June 8, at the Harbor Bay Club in Alameda. Contact Jack Kniveton or Wayne Humphrey. Should be fun!
8. Ben Sun announced that the April Tech. Seminar will be on Thermal Storage and Low Temp. Air Systems. If you want to help, or have ideas for speakers, call Ben.
9. ASHRAE is chairing National Engineers' Week February 18-24. Call Tom Reinarts for more information. We'll receive PAOE points for Engineers' Week activities.
10. Jim Harrington conducted the Membership raffle for folk who brought in 16 new members.
11. Leo P. Reilly, a lawyer with Keough, Cali and Reilly, presented a very interesting discussion of the "10 Rules to Effective Negotiations." Most Americans rarely negotiate or barter. We are sometimes at a disadvantage in dealings with people of other cultures. The two most important rules are the first: Be Patient, and the last: Be Positive.
12. The February program will be on "CADD Applications for Engineers and Building Owners." Demonstrations of various programs including the one for ASHRAE Fundamentals will begin at 5:30. Come early.

Respectfully submitted,

Barbara S. Dilts