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**1st Meeting of the new Fiscal Year!!**

**The Future of Actuation**

**Werner Buck, President – Belimo Air Controls,  
USA and Canada**

Location: World Trade Club  
World Trade Center, #300  
(in the Ferry Building)  
San Francisco

Date: Thursday, October 7<sup>th</sup>, 1999

Time: 5:30pm Social Hour(No host)  
6:30pm Dinner  
8:00pm Program  
9:00pm Formal Meeting Adjournment

Cost: \$35.00 Members and Guests

All reservations must be received by Edgar De Guzman at [edeguzman@accoair.com](mailto:edeguzman@accoair.com) or fax to 650/594-4915, by Monday, October 4<sup>th</sup>.

If you need to cancel, please do so by Tuesday, October 5<sup>th</sup>.

*Valet parking is available on the north side of the Ferry Building.*

**ACTUATOR OF THE FUTURE**

Mr. Werner Buck, President of Belimo Air Control USA, will present the Actuator of the Future. Mr. Buck recently presented a technical seminar in the Winter ASHRAE meeting in Seattle. He will tell us about which direction the leading edge of actuator is heading and what is coming and what is available today.

Werner can also tell you about how Belimo integrated three different BAS control systems. He did it at the Belimo Headquarter in Danbury by using the ASHRAE BACnet standard. Werner can tell you how it was accomplished without the marketing hype and the various issues of Interoperability BAS based on real operating buildings. By the way, the Belimo HQ has more BAS vendors than the 450 Golden Gateway project here in the “Baghdad by the Bay”. How many vendors ? You asked... Well, come to the meeting and find out.

## PRESIDENT'S MESSAGE

**What Can I Do To Help?** It is with great pleasure and gratitude that I write to you from my cushy new office as Chapter President. You have bestowed both an honor and an obligation on me and I will do my best to live up to your expectations. I have the privilege to serve in the capacity as head of one of the largest and most active chapters in our society, and in turn, I have the obligation to make this chapter work as smoothly as possible. Along that line I encourage you to contact your Board if you have thoughts about how we can better serve you. Don't be shy, please bring your ideas forward, we serve at your pleasure and in your interest. This, fellow member, is your privilege. Your obligation is to help us get the job done.

In contrast to my efforts over the past four years to modernize the chapter operations using electronic media and the web, I plan to ring in the new millenium with an old-fashioned theme, Volunteerism. I received the gavel with many of our critical chapter committees empty or in disarray. I am concerned not for how it reflects on me, but rather how it hampers our ability to serve you. The competency and dedication of my colleagues on this Board is simply not enough, we cannot run this chapter without your help. With the gavel, I inherited the obligation to make tangible to you the mutual benefits of volunteerism. Each month, my column will feature one of the many great volunteers that have made this chapter what it is.

Perhaps an example would help: Imagine us all in a big Galley being chased by a horde of hungry sea dragons. You hired me to beat the drum but only the Board members on the left side are rowing...you get the picture.

### **The Big Perspective.**

Last Spring, I attended the funeral of one of our members, Ron Kammerud. Like many in our chapter, Ron's contributions were largely at the Society level and we rarely saw him at the chapter meetings. But at the Society level, I can attest that he labored tirelessly and produced great works, volunteering many hours of his time, and covering his expenses from his own pocket.

I had known Ron only in the context of our work, but over the years I developed a great respect for him, he was one of the most competent and dedicated people that I have ever met. I mourned for the work that he had left undone, but the greater tragedy was the loss of Ron, his humor, his quirks and his friendship. His funeral was attended by friends and colleagues from across the country, and one by one they repeated the same story, awe for his work, respect for his person. What a tragedy that he died so young, what a gift that he lived at all... It is hard to put your arms around why anyone chooses to volunteer, but I got a glimpse at Ron's funeral. Working together we can produce great works, but more importantly the process of working together produces great people and friendships.

Our first Fog Dispenser is dedicated to Ron Kammerud and Don Bryant. Like Ron, Don Bryant was a great volunteer who produced a lasting effect both in product and in process. Among his many accomplishments, Don founded our HVAC/R co-sponsored certificate program with the University of California Berkeley Extension. Don built this program through vision, leadership, hard work and his dedication to our chapter. Don did not benefit financially from the program, but he did benefit from knowing that he had touched so many lives. Hundreds of professionals in our chapter have attended these classes and dozens of chapter members have taken on the challenge and experienced the joy of teaching. Don's legacy continues to serve this chapter and has spawned similar programs in Sacramento (with UC Davis) and San Jose (with UC Santa Cruz). In his memory and with respect to all the volunteers living and dead that make this Society work for us, I propose that we adopt the motto, **What Can I Do To Help?**

### **A Final Shot**

A delivery man was taking a load of penguins to the zoo when his truck broke down. Realizing he was in a pickle, he flagged down a passerby and asked if he could help. "Friend," he asked, "could you please take my penguins to the zoo?" The passerby, being the sort that volunteers, agreed and off he went followed by the penguins. Some time passes and the delivery man gets the truck started. As he heads to the zoo he sights the passerby with penguins in tow headed in exactly the opposite direction. "What's this," he asked, "I thought you were going to take my penguins to the Zoo?" "Good sir," replied the passerby, "we have been to the Zoo now we are going to a movie."

*Respectfully submitted,  
Mark Hydeman, Chapter President*

*Tom White, Former President of the Golden Gate Chapter, passed away in June of this year. Mike Scofield was asked to deliver a eulogy at his memorial service on June 16<sup>th</sup> in Mountain View.*

## **Tom White Eulogy**

For those of us who knew Tom professionally, I would like to outline a few of his contributions to our HVAC Industry.

Tom joined ASHRAE in 1938. He served as President of our Golden Gate Chapter in 1952-53 and sponsored the formation of the Sacramento ASHRAE Chapter during his term in office. As Director and Regional chairman for Region X, Tom guided the Steering Committee which founded the San Jose ASHRAE chapter in 1965. His Society Honors and Awards are too numerous to list, but a few highlights are:

Distinguished Service Award	1969
Regional Award of Merit	1978
Fellow	1981
Gold Ribbon History Award	1985
50 Year Distinguished Member Award	1988
Andy Boggs Service Award	1994

And, next week in Seattle, Tom was to have received the ASHRAE Exceptional Service Award.

I first met Tom in 1960 when I was fresh out of college. He was my first boss at American Blower Company. I feel blessed to have learned proper business morals and ethics from such an outstanding mentor. Tom had a very simple business philosophy, which I have never forgotten, "It's easier to do business with friends than enemies."

We'll all miss our old friend, Tom White.



## 1999/2000 COMMITTEE CHAIRS

How do you turn a 20 hour task into a 10 hour task? Simple, your split the load between volunteers. These committees serve you the members, and we need your help to do the work. Contact a committee chair and offer your services or contact a Board member to fill a vacancy.

Position	First	Last	Business	Phone	Fax	Email
Region X DRC	Kent	Peterson	P2S Engineering, Inc.	562-497-2999	562-497-2990	kwp@p2seng.com
President	Mark	Hydeman	Cymetrics, LLC	415/255-1192	415/255-1193	hydeman@buildingscience.org
President-Elect	Benjamin	Sun	FLACK & KURTZ	415/398-3833	415/433-5311	bpsun@sf.fk.com
Treasurer	Joseph	Olivier	ESS ENGINEERING	415/296-9760	415/296-9761	jro@essinc.com
Secretary	Kent	Lim	KENT MAN LIM & COMPANY	415/822-1232	415/822-6437	
Board of Governors: Past-President	Ernie	French	NORMAN WRIGHT EQUIPMENT CORP	415/467-7600	415/467-0900	efrench@norman-wright.com
Board of Governors: 2nd Year Board Member	Edgardo	De Guzman	ACCO INC	650-594-0182	650-594-4915	edeguzman@accoair.com
Board of Governors: 1st Year Board Member	Robert	Levi	CARRIER CORPORATION	510/563-5713	510/563-5733	robert.f.levi@carrier.utc.com
CRC Delegate (President-Elect)	Benjamin	Sun	FLACK & KURTZ	415/398-3833	415/433-5311	bpsun@sf.fk.com
CRC Alternate (Secretary)	Kent	Lim	KENT MAN LIM & COMPANY	415/822-1232	415/822-6437	
Membership Promotion Committee Chair	Ronald	Eng	CARRIER CORP	510-563-5701	510-563-5733	ronald.eng@carrier.utc.com
Student Activities Committee Chair	Robin	James	Belimo Aircontrols	707/745-5998	707/745-5999	rjames@belimo.com
Chapter Program Committee Chair (President Elect)	Benjamin	Sun	FLACK & KURTZ	415/398-3833	415/433-5311	bpsun@sf.fk.com
Historian	Roy	Gifford	PCL CONSTRUCTION SERVICES INC	213-747-0734	213-747-0745	
Refrigeration Committee Chair	Glenn	Friedman	AMERICAN MECHANICAL SVCS	510-772-6011	510-486-8037	gfriedman@ars.com
Research Promotion Committee Chair	Cory	Palmer	NORMAN WRIGHT EQUIPMENT CORP	415-467-7600	415-467-0900	cpalmer@norman-wright.com
Technical, Energy & Government Activities Committee Chair	Gary	Margadant		707/257-3351		gasm@napanet.net
Newsletter Editor	Debbie	Marshall	Paco Pumps	510-639-3200	510-639-3337	dmarshall@flow-products.com
Honors and Awards Chair	Gail	Brager	UNIVERSITY OF CALIFORNIA	510/642-1696	510/643-5571	gbrager@socrates.berkeley.edu
Website Chair	Robert	Marcial	University of California CEDR	510-849-9057		rmarcial@uclink4.berkeley.edu
Database Chair	Allan	Daly	Ove Arup & Partners California	415-957-9445	415-957-9096	allan.daly@arup.com
Codes Committee Chair	Dick	Glumac	GLUMAC & ASSOCIATES	415/421-1164	415/398-0596	
Attendance Committee Chair	Richard	Charles	C & B CONSULTING ENGINEERS	415/442-0110	415/882-7747	rac@cbengineers.com
Auditing Committee Chair	Tbd	Vacant				
Tennis Committee Chair	Tbd	Vacant				
BAEC Committee Chair	Thomas	Reinarts	KELLER & GANNON	415/621-1199	415/864-3681	tom.reinarts@keller-ganno
Golf Committee Chair	Charlene	Sturm	AIR TREATMENT CORP.	510/655-3990	510/655-7966	
Honor Roll Committee Chair (Research Chair)	Cory	Palmer	NORMAN WRIGHT EQUIPMENT CORP	415-467-7600	415-467-0900	cpalmer@norman-wright.com
Marbles Game Committee Chair	Leslie	Hanohano	NORMAN WRIGHT EQUIPMENT CORP	415/467-7600	415/467-0900	lhanohano@norman-wright.com
PAOE Committee Chair (Past-President)	Ernie	French	NORMAN WRIGHT EQUIPMENT CORP	415/467-7600	415/467-0900	efrench@norman-wright.com

Position	First	Last	Business	Phone	Fax	Email
Product Show Committee Chair	Cory	Palmer	NORMAN WRIGHT EQUIPMENT CORP	415-467-7600	415-467-0900	cpalmer@norman-wright.com
Publicity Committee Chair	Mike	Scofield	CONSERVATION MECHANICAL SYSTEMS	707/829-2080	707/829-3142	cmscofield@aol.com
Reception Committee Chair (Membership Vice Chair)	Ronald	Eng	CARRIER CORP	510-563-5701	510-563-5733	ronald.eng@carrier.utc.com
Redwood Empire Section President	Pat	Bailey	GEOPRAXIS INC	707/996-9408	707-939-8702	pbailey@geopraxis.com
Roster Committee Chair (1st Year Board Member)	Robert	Levi	CARRIER CORPORATION	510/563-5713	510/563-5733	robert.f.levi@carrier.utc.com
Seminar Committee Chair	Luek	Vaneveld	TAYLOR ENGINEERING	510/749-9135	510/749-9136	lvaneveld@taylor_engineer
Weather Data Committee	Nenad	Saric	ATI ENGINEERING SERVICES	925-648-8800	925-648-8818	nsaric@atiengineering.com

### June 1999 Meeting Minutes:

Alas, due to the informality and hilarity of the “You Know When You Are Married To/Live With an Engineer When .....” meeting last June, no minutes were taken. Back to routine next month.

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### Don't Forget!!

If you have an employment opportunity the Fog Dispenser will gladly display your ad with a \$50.00 contribution to the Research Fund. Contact Debbie Marshall at 510/39-3200, 272 or [dmarshall@flow-products.com](mailto:dmarshall@flow-products.com) for further information.

### HAVE YOU MOVED?

Members, please help us keep track of you. If you have recently changed your address, phone, fax or email, please make sure that Society's database is up to date. Call 1-800-5-ASHRAE or change information on Society's website at <http://www.ashrae.org/>. If you want to make changes on-line follow these steps:

- 1) Click on "Membership Records" under the "Members-Only Section" (note you will need your membership # and pin which are on your membership card).
- 2) Click on "Address Change"
- 3) Enter your Name, Membership#, EMail Address and any changed contact information
- 4) Click on submit

### Student Activities Corner

I'm looking forward to another great year of Student Activities. There will be a lot of opportunities throughout the year to introduce students to our organization and the different career paths available within the Heating, Ventilation, Air Conditioning, and Refrigeration Community. I am looking for some volunteers to join the Student Activities Committee. If you are interested please contact me at (707) 747-0835 or [rjames@belimo.com](mailto:rjames@belimo.com) <<mailto:rjames@belimo.com>> .

To start the year ASHRAE is having a 2000 Student Design Project Competition. The 2000 competition focuses on the design of a two-story building to be constructed on a college campus in Greenville, South Carolina. The original drawings and complete project information can be easily downloaded from the 2000 Student Design Project Competition found under the Student Activities Section of the ASHRAE Home Page at [www.ashrae.org](http://www.ashrae.org) <<http://www.ashrae.org>> . A hard copy can be obtained if you don't have access to the Internet. Project judging will begin in May 2000.

ASHRAE Announces Funding for Undergraduate Senior Projects or Technical School Projects:

The Undergraduate Senior Project Grant Program provides grants to engineering, technical and architectural schools worldwide with the goal of increasing student knowledge, learning and awareness of the HVAC&R industry throughout the design and construction of senior projects. Grants are to be used to fund equipment and supplies for engineering or architectural senior projects and 2-year technical school projects, which could mean up to \$5,000 in aid. Application must be received at ASHRAE by December 1<sup>st</sup> from a faculty member. For more information please contact Robin James at [rjames@belimo.com](mailto:rjames@belimo.com) <<mailto:rjames@belimo.com>> or (707) 747-0835.

**1998-99 ASHRAE RESEARCH  
ANNUAL REPORT  
GOLDEN GATE CHAPTER**

Congratulations and thank you to each of the Golden Gate Chapter members listed below who contributed to ASHRAE Research in 1998-99. Each of you helped the Chapter exceed our Research goal while giving back to our industry.

**INVESTORS OF MORE THAN \$1,000**

Flack + Kurtz Consulting Engineers  
Golden Gate ASHRAE Chapter  
Kent M. Lim & Company, Inc.  
SMACNA – Greater Bay Area  
Norman Wright Mechanical Equipment  
Pacific Gas and Electric Company

**INVESTORS OF \$501 to \$1,000**

Chevron Corporation  
Thomas A. Gilbertson  
L. Lane Loyko  
Gayner Engineers  
Pacific Coast Trane

**INVESTORS OF \$251 to \$500**

Richard Charles  
Mark Hydeman  
Frank Mayhew  
Dennis Thompson

**INVESTORS OF \$151 to \$250**

Air Filter / Control Corporation	Clyde Equip. Co.
Air Treatment Corporation	ESS Engineering No. Cal.
Ajmani & Pamidi Incorporated	Glumac International
American Cons. Engineers	R. F. MacDonald Company
American Mechanical Services	Phoenix Controls Corporation
C & B Consulting Engineers	Tempco Equipment Company
Carrier Corporation	Edward B. Ward Company

**INVESTORS OF \$101 to \$150**

Airco Sys., Inc.	Hendrik Mouw	John Small
Gail Brager	MHC Engineers Inc.	Steven Taylor
DMG North Inc.	PLA Corporation	Gerald Yaffe
JYA Consulting Engineers	Nenad Saric	Yamas Company Inc.
Keller & Gannon	C. Mike	York International
Laws & Associates	Scotfield	
	SJ Engineers	

**INVESTORS OF \$100**

Robert Caughey	Robert Levi	Daniel B. Reiter
Leo Copper	Kent Man Lim	Dart
Barb. Dilts	Charles McLaughlin	Rinefort
Todd Elmgren	Dale Missimer	Shlomo Rosenfeld
Ronald Eng	James Nemechek	Mike Rubio
Gustav Fehlhaver	John O'Brien	Albert Scavino
Ernie French	John Oldham	Max Sherman
Richard Frenzel	Joseph Olivier	Benjamin Sun
Karl Guttman	Jack Palmer	Ted Jacobs
Paul Irwin	Paragon Controls Inc.	Engineering Group
Carl Jordan	Richard Porter	Robert Voelz
Miklos Kisaday	James Quinn	John Ward
John Kniveton	Wasil Popow	Osamu Yamauchi
Glen Leggoe	Thomas Reinarts	Arthur Zigas

**INVESTORS OF \$50 to \$99**

Edward Arens	Robert Davis	Robert Linford
Fred Bauman	Robert DeChene	David Lintott
Arnold Bletnitsky	Edgardo DeGuzman	Eugene McCabe
Elizabeth Brimberry	Kevin Dowling	John Pataye
Brooks Enterprises	David Jump	Peterson Mechanical Inc.
The Brose Company	John Karmiris	Steven Rottmayer
James Brugger	John Kellebrew	Ronald Yaffe
Emanuel D'Albora	Sonny Kwok	Richard Yates
James Davis		

**INVESTORS OF \$10 to \$49**

Jorge Del Mayo	Shin-Hwa-Ho Henry	David Penney
Herbert Diffenbaugh	Huddleston	Alex Ramos
Ronald Gregory	Gordon Kaung	Sherrill Engineering
Peter Hartdegen	Thomas Main	Joy Shonfeld
Heat Transfer Equipment	Fernando Palacios	Stephen Sprague
Jose Herrera	Cory Palmer	

In my first year as Research Promotion Chairman for our Chapter, I have an aggressive target to reach, thanks to Bob Levi's success with Research in recent years. Checks payable to ASHRAE Research can be sent to:

Cory Palmer  
c/o Norman Wright Mechanical Equipment Corp.  
99A South Hill Drive  
Brisbane, CA 94005  
phone: 415.467.7600 ext. 110  
e-mail: cpalmer@norman-wright.com

**Items from the Redwood Empire Grapevine**

Dinner Meeting – September 15, 1999

Commissioning – Stories from the Field

Speakers will be Don Felts, an independent consultant and Leo Copper, a Redwood Empire Section of ASHRAE who makes sure HVAC systems work right. Don works with corporate and public clients on the design of energy efficient buildings and systems. He is highly involved in the development of software tools that can be used to diagnose problems relating to the performance of energy using systems in commercial buildings. He has worked as a mechanical engineer, a lighting designer, an architect and as an adjunct professor of architecture at the University of New Mexico. Leo will offer suggestions on how to make several standard HVAC systems work better, using case studies from buildings he has commissioned.

Topics will include insight into testing and balancing, and how to properly set up a PI (proportional-integral) loop.

**Next Meeting in the Redwood Empire**

Dec. 1 “We’ll Never Do That Again!”  
 Adobe Creek Clubhouse, Petaluma  
 Social Hour 5:30pm;  
 Dinner 6:30 pm.

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**SAVE YOUR \$\$\$**

By buying the 1999-2000 GGASHRAE voucher for \$270. The voucher is good for **all-9 meetings and will also save you the hassle of monthly expense filing and record keeping.**

The Golden Gate ASHRAE board heard you! We know the \$35 for an ASHRAE dinner is high and that is why we are offering you an all-9 meeting dinner voucher. The voucher will cost you \$270 for 9 meals. (Drinks not included). The vouchers are transferable to other people.

So, Who will buy voucher Numero Uno? Call to reserve your lucky voucher number. We may even have a year-end raffle for all the voucher users? Did you forget Mr. Sun was the one who raffled-off a 7day trip for two to Hawaii when he was Research Chair a few years ago. By the way, who recalls the winner of that trip? Top prize for the 1999-2000 voucher users: TBD by Mr. “Hey, what is in for me?” Sun. Call him to

reserve your voucher number. His direct telephone line is 415-402-2234.

**Mark your Calendars for these upcoming programs:**

Month	Program
October 7, 1999	Future of Actuators
November 4, 1999	New Technology- Fuel Cell or Or Web Based O & Manuals
December 2, 1999	Joint meeting with San Jose Chapter in San Mateo Marriot. Fundamental perspective on Chilled Water system
January 6, 2000	Thermal Engineering and the Human Body
February 3, 2000	Green Building Research at the NIST Or Web Based O & Manuals
March 2, 2000	Whining in the office?
April 6, 2000	Product Show
May, 2000	Field Trip Monterey
June 1, 2000	VAV System Design: Problems and Opportunities

Some programs may change due to the availability of speakers.

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**Looking For All Good Candidates**

Although it pains me to do this, I must resign my position as Editor of the Fog Dispenser after this year. I’ve enjoyed this experience greatly, meeting some of you, nagging some of you to get your material in to me by the deadlines, etc. We are looking for someone to take over the reins. If you, or someone you know, is interested in this position please contact Kent Lim @ 415/822-1232 or Debbie Marshall @ 510/639-3200, 232, [dmarshall@flow-products.com](mailto:dmarshall@flow-products.com).

What a great way to get started with the Golden Gate Chapter if you haven’t already. It’s a tremendous experience and can be a lot of fun!

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**New Staff at Guttman & Blaevoet**

Rick Schwab, senior engineer and Nav Patel, senior engineer.

***CLYDE EQUIPMENT COMPANY, INC.***  
MANUFACTURERS REPRESENTATIVES  
**3470 MT. DIABLO BLVD., SUITE A120, LAFAYETTE, CA 94549**  
**(925) 299-9180 / FAX (925) 299-9186**

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