

# FOG DISPENSER

Golden Gate Chapter



ASHRAE

**VOLUME XXXIX - NUMBER 2**

**NOVEMBER 2000**

## Meeting Notice

**Date:** Thursday, November 2, 2000  
**Place:** Pacific Energy Center  
851 Howard Street  
(Between 4<sup>th</sup> & 5<sup>th</sup> Streets)  
**Time:** Pre-Meeting  
Technical Seminar 5:00 p.m.  
Social Hour 5:30 p.m.  
Dinner 6:30 p.m.  
Meeting 7:30 p.m.  
Adjournment 8:30 p.m.  
**Cost:** \$35.00 Members and Guests with  
advance reservations, \$37.00 at the  
door.

*All reservations must be received by John Wintermeyer by email at [ASHRAE@atce.com](mailto:ASHRAE@atce.com) or by fax (see form in this issue) to: (415)788-6040 by Monday, October 30th.*

### **Pre-Dinner Technical Seminar 5:00 p.m:** *Liquid Overfeed and Low Temperature Supply Air Systems*

Our own Mike Scofield will present these energy saving concepts taken from his recently published article in Heating/Piping/Air Conditioning Magazine. See the article inside for more details. Call Mike at 707-829-2080 for reservations. Refreshments will be provided.

## November Program:

### Electric Vehicles

**Speaker:** Kent S. Harris, P.E.,  
Electric Transportation Technology  
Manager  
Pacific Gas & Electric Company

Just in time for higher gas prices at the pump comes our November program on electric vehicles! PG&E's Electric Car Guru will present to the chapter the latest concepts in advanced transportation technology, the benefits of electric vehicles, and how to get an electric vehicle!

On display for our meeting will be several of PG&E's electric vehicles so you can see for yourself that electric vehicles are a viable transportation option.

Kent Harris's position oversees PG&E's active investigation into electric transportation, its use of electric vehicles and its interactions with EV-related government agencies, environmental organizations, and industry coalitions. Harris joined PG&E's clean air transportation program in 1993 and before that was a Management Consultant for the Company beginning in 1984. Prior to coming to PG&E, Harris held consulting positions with Procter & Gamble's international manufacturing organization (Cincinnati). He is a registered professional engineer (California and Ohio) and holds Bachelor's and Master's degrees in Industrial and Human Factors Engineering from Georgia Tech.

*November is also Student night! We are looking for sponsors to cover the meeting costs for student attendees. Notify John Wintermeyer on your reservation if you are willing to sponsor a student.*

# Golden Gate Chapter President's Message

## November 2000



### Where are you Hugh?

Where are you Hugh?

Hugh Tuck, You asked for a ride to 8<sup>th</sup> and Harrison after the October meeting and as the newly elected President I offered you a ride. I could not find you after the meeting!

For those of you who missed the October meeting, this occurred after I had spoken from the podium saying that the Golden Gate Chapter ASHRAE is here to help and serve you. At that point Hugh asked for the ride. It may have seemed funny at the time, but I was serious about ASHRAE being here to help. After all, the entire board members of the Chapter are here because it was you who decided not vote us out. Okay, I understand some of you wanted to toss us out but forgot to send in the ballot because of you were too busy with the new economy!

The volunteer board members are here to serve you with our goal of “advancing the arts and sciences of heating, ventilation, air conditioning and refrigeration”. We try to achieve this by providing continuing education at the pre-dinner technical seminars, the yearly one day technical seminar and the monthly meetings.

While reviewing the Chapter Operation manual I noticed the following quote: “the President is also charged with the responsibility of seeing that the enthusiasm among chapter members is constantly stimulated.” So, in addition to helping you and ending the meeting at 8:30 PM, I will be there every month behind the podium to stimulate you and make sure the members’ enthusiasm does not ebb from its level at the October meeting.

P.S. November is Student Night so come and sponsor a student.  
Hugh - come to the meeting at the PG&E Energy Center and we will give you a ride!

At Your Service,

Ben Sun  
**Chapter President**

## **November Pre Meeting Technical Seminar:** ***“Liquid Overfeed and Low Temperature Supply Air Systems”***

Presented by:  
**Mike Scofield**, Conservation Mechanical Systems

Liquid overfeed direct refrigeration systems may be used to develop 40 degree supply air for variable air volume applications. New high induction diffusers are now available to introduce this super cold air directly into occupied areas using pinch down type VAV terminals. This concept offers the owner reduced energy costs and HVAC system installed costs as well as the return of rentable floor space.

Mike Scofield, President of Conservation Mechanical Systems, will present this topic taken from his feature article: “Joining VAV and Direct Refrigeration” from the September 1989 issue of *Heating/Piping/Air Conditioning Magazine*. Mike is the past President of the San Jose (1968-69) and Denver ASHRAE chapters and has recently served as President of the new Redwood Empire section of the Golden Gate ASHRAE chapter. In June 1988, he received the ASHRAE Journal Best Paper Award.

### **SECRETARY’S REPORT** NOVEMBER 2000

Wow, what a great start. First Robin James of Belimo (also a board member), gave a great mini seminar about valve sizing. Then we heard from Mike DeNamur of Comfort Systems U.S.A, who has helped us get through the issue of open protocols in Building Automation systems. While Mike was giving his presentation, Ross Sherrill let out a paroxysm of glee when the Giants made a 3 run home run at the bottom of the 9<sup>th</sup> inning, which led to a tie game (but unfortunately the Giant’s lost).

### **EMPLOYMENT OPPORTUNITIES**

**Taylor Engineering** is looking for HVAC design engineers to join us as we expand. We specialize in innovative large building HVAC and control system design, energy and indoor air quality analysis, and system commissioning. Current projects include the new GAP Headquarters building in San Francisco, GAP San Bruno Phase II, Electronic Arts II in Redwood City, Palm Inc. Campus in San Jose and the Title-24 Energy Standard for 2005. Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals and excellent presentation and writing skills. Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Design/build or field experience is also desirable. Excellent work environment in Alameda. High salaries for top performers.

Send resume to: Glenn Friedman, Taylor Engineering, 1305 Marina Village Parkway, Alameda, CA

Tel: (510) 749-9135. Fax: 510-749-9136

E-mail: [gfriedman@taylor-engineering.com](mailto:gfriedman@taylor-engineering.com)

# PACIFIC ENERGY CENTER

## Fall 2000 classes

For a current listing of classes visit the PEC's website at [www.pge.com/pec](http://www.pge.com/pec). All classes are FREE, but to guarantee a space, please register by calling 415-973-7268 or visiting our Web site ([www.pge.com/pec](http://www.pge.com/pec)) to register online.

Location and transportation: The PEC is located at 851 Howard Street, San Francisco between 4th and 5th Streets, just two blocks from the Powell Street Muni and BART station and just one block from the huge parking garage at 5th and Mission Streets.

We provide beverages at all classes and allow students time to go out for lunch during day-long classes.

### **Wednesday, November 1**

(note: this class was originally scheduled during September)

9:00 a.m. to 3:30 p.m.

#### **Title 24: Changes in Mechanical and HVAC Standards**

This in-depth workshop covers the HVAC requirements for the 1998 Title 24 Standard using two buildings as detailed examples. Topics include structure and scope of the Standard, application to existing buildings, compliance forms, mechanical system requirements, and tips for design to meet or exceed the Standard requirements. Attendees should have a working knowledge of mechanical system design.

Instructor: Mark Hydeman, Taylor Engineering.

### **Tuesday, November 7**

9:00 a.m. to 4:30 p.m.

#### **Data Collection and the Universal Translator**

The Universal Translator(tm) (UT) software grew to meet needs arising from the PEC's Tool Lending program. UT facilitates data management and analysis. Get hands-on experience processing data from a variety of sources such as data loggers and computers.

### **Wednesday, November 8**

1:00 p.m. to 4:00 p.m.

#### **SkyCalc and Skylighting**

Determining light levels and energy impacts from skylights is easy with SkyCalc, the Excel-based software package. This hands-on class will be taught by Jon McHugh of Hescong Mahone Group and includes a free copy of the software.

### **Wednesday, November 15**

9:00 a.m. to 4:30 p.m.

#### **CoolTools(tm) Design Guide Seminar**

Professional engineers Mark Hydeman and Steve Taylor present a unique and innovative process for designing life-cycle-cost-optimized chilled water plants. This seminar is based on the CoolTools(tm) Chilled Water Plant Design Guide and uses examples to illustrate the design process. Topics include optimizing chiller and tower selections, life-cycle cost procurement procedures, selection and application of pumping arrangements, flow rates and pipe sizes, control sequences, and commissioning. Attendees will receive copies of the CoolTools(tm) Chilled Water Plant Design Guide.

## **Tuesday, November 28**

9:00 a.m. to 4:30 p.m.

### **Integrated Building Design**

Discover how choices regarding external shading, building skin, daylighting, electric lighting, glazing, structural systems, and HVAC systems can be integrated in your design to create comfortable and energy-efficient indoor environments.

## **Wednesday, November 29**

9:00 a.m. to 3:30 p.m.

### **Title 24: Changes in Lighting Standards**

Learn how the revised Title 24 energy standards that took effect on July 1, 1999, affect the work of lighting professionals. Class developed and taught by the Illuminating Engineering Society, Golden Gate Section.

## **Monday, December 4**

10:00 a.m. - 12:00 noon

### **Designing an Energy-Efficient Kitchen**

Specifying equipment performance during the design of a kitchen results in increased productivity and long term energy savings. Learn how to use existing performance data to hold a spec and qualify equals and how this will increase the bottom line.

## **Wednesday, December 6**

9:00 a.m. to 4:30 p.m.

### **Direct Digital Controls**

Now that BACnet and LONWorks have brought interoperability and better networking options to DDC systems, how do facility managers take advantage of the new technologies? This full-day seminar covers the capabilities of these technologies and presents case studies for their application. Find out how to update existing DDC systems and add new features without replacing the old system.

**Looking for the Chapter's Committee Chairs? Visit the web site: [ggashrae.org](http://www.ggashrae.org)**

## **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#, E-mail Address and any changed contact information
4. Click on submit

# ASHRAE RESEARCH

## YEAR-TO-DATE INVESTOR LIST

Our year 2000 ASHRAE Research is off to a great start! The following corporate and individual Honor Roll investments have been received:

### *Corporate Honor Roll Investors (\$150.00 or more)*

<i>ATI Engineering Services</i>
<i>Flack + Kurtz, Inc.</i>
<i>JYA Consulting Engineers</i>
<i>Laws &amp; Associates</i>
<i>Marelich Mechanical</i>
<i>Norman Wright Mechanical Equipment Corp</i>
<b>R. F. MacDonald Company</b>

### *Individual Honor Roll Investors (\$100.00 or more)*

<i>Wasil Popow</i>	<i>Cory Palmer</i>
<b>Carl Jordan</b>	<i>Edward Arens</i>
<i>Joe Olivier</i>	<i>Edgar DeGuzman</i>
<i>John Roth</i>	<i>Bob Levi</i>
<i>John Wintermeyer</i>	<i>Ben Sun</i>
<i>Kent Lim</i>	<i>Bernard Beckius</i>
<i>Lane Loyko</i>	<i>Shlomo Rosenfeld</i>
<i>Mark Hydeman</i>	<i>Robert Voelz</i>
<i>Max Sherman</i>	<i>Lewis Brooks</i>
<i>Robin James</i>	<i>Dennis Thompson</i>

Our chapter has completed the requirements of the Full Circle Award – all board members plus the RP Chair have contributed at the individual honor roll level!

**All contributions are tax-deductible and should be made to:**

**ASHRAE Research**  
**c/o Cory Palmer**  
**Norman Wright Mechanical Equipment Corp.**  
**99A South Hill Drive**  
**Brisbane, CA 94005**  
**415-467-7600 phone / 415-467-0900 fax**  
[cpalmer@norman-wright.com](mailto:cpalmer@norman-wright.com) e-mail



# ASHRAE Golden Gate Chapter

# Photo Gallery – captions by Mike Scofield.



Happy GGASHRAE Campers



Cory Palmer



Pre-dinner smiles



Sun, Marshall and Sturm Awards



Speaker Mike deNamur and Joe Olivier.



Vic Neuman and Bob Levi



Robin James



Mark Hydeman and President Ben Sun

# ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

*For Thursday November 2nd, 2000*

**Email:** John Wintermeyer [ASHRAE@atce.com](mailto:ASHRAE@atce.com) *preferred method of communication!!!!*

**FAX:** (415) 788-6040

*Please cancel your reservation if you cannot attend the meeting.*

***Cancellations must be received by the Tuesday prior to the meeting.***

FROM: \_\_\_\_\_

COMPANY: \_\_\_\_\_ Phone: \_\_\_\_\_

Please make \_\_\_\_\_ reservation(s) for the following people (fill in names below):

_____	_____
_____	_____
_____	_____

Give Us A Call, Our Complete Sales, Engineering Design  
and Service Capabilities Make A Difference



**R.E. MacDonald Co.**

*SERVING YOU SINCE 1956*

25920 Eden Landing Road • Hayward, CA 94545-3816 • 510/784-0110 • FAX 510/784-1004

Visit our website at [www.rfmacdonald.com](http://www.rfmacdonald.com)

BOILERS • PUMPS • METERS • PARTS • SERVICE • SALES