

# SOL AIR

Newsletter of the Southern California Chapter: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.  
November 1999 website: [www.ashrae-socal.org](http://www.ashrae-socal.org) Vol. 45, No. 3

NOVEMBER MEETING INFORMATION

## November 9, 1999: Membership Night

Les Freres TAIX,  
1911 Sunset Blvd., Los Angeles, CA

5:30 **Tech Forum**  
**Code Changes**  
Speaker: Mr. Fady Mattar,  
L.A. County Building & Safety

6:05 **Social Hour (Fun Time!)**  
**Product of the Month**  
Laminar Flow Module on Display  
Greg Bashe of Clean Room Services  
will demonstrate a working model of a  
Laminar Flow Module. He will also  
demonstrate the certification process  
with a particle counter.

6:45 **Dinner Menu: Skaneateles Clam Bake**  
***Authentic Upstate New York Clam  
Bake***  
Steamed Clams  
Broiled Chicken  
Italian Sausage  
Corn on the Cob  
Salt Potatoes (Pick your own from a  
Chasen's Boiling Pan)  
Mixed Green Salad

**Dinner Prices:**  
\$23 with reservation  
\$25 without reservation  
\$10 student member

7:45 **Main Program**  
**Engineered Smoke Control Design**  
Speaker: Mr. Paul Macila

9:00 **Meeting ends**

*For reservations, please fax to Jennifer Farr, fax  
(310) 671-1467 or phone (310) 671-6915 by  
Monday, November 8, 1999.*

## November Main Meeting Engineered Smoke Control Design

by: **Ralph Panting**

Speaker Paul C. Miclea, P.E. will talk about the need of public transit projects and safety awareness. He will review major current projects from around the world and recent tunnel fires with details about the Baku subway fire. He will also review NFPA 130 standards and ventilation systems for the design of tunnels.

Paul has 35 years of experience in managing and performing engineering design for a variety of projects. He is a Registered Professional Engineer with degrees in mining technology and is presently employed by Kaiser Engineers in Oakland, California. This should be an interesting talk so please plan to attend.

## November Technical Meeting Code Changes

by: **Ralph Panting**

Fady Mattar from Los Angeles County, Building and Safety will give an update on current code changes for 1999 and 2000. As in the past, this Technical Forum could get interesting. Please bring all your questions.

## October Main Meeting Recap Vertical Turbine Pump

by: **Bob Brennan**

October's Main Program was on the vertical turbine pump, and its applicability to the HVAC world, presented by Mr. Bob Nugent, P. E., of Sterling Fluid Systems, Peerless Pump Division. Mr. Nugent reviewed many of the fundamentals of this style of pump and its primary use in HVAC – as a cooling tower pump unit. Some key points:

- Vertical turbine pumps are generally mounted over a sump with the bowl assembly(-ies) submerged but can

also be supplied as a canned unit with a suction line piped to the can.

- Vertical turbine pumps are a high specific speed pump, often used with multiple stages for high discharge head applications.
- This type of pump generally offers higher efficiency and therefore lower brake horsepower.
- Be sure to derate the efficiency of the pump per the performance curve notes if necessary (typically when few stages are used).
- Always observe what Net Positive Suction Head (NPSH) is available (NPSHA) against what is required (NPSHR).
- Likewise pay close attention to submergence and sump design to avoid vortexing.
- Occasionally a mixed flow pump or an axial flow pump will be the optimal choice (very high flows at low heads).



*Bob Brennan presents certificate to our Main Meeting Speaker Bob Nugent of Sterling Peerless Pumps.*



*Michael Gallagher receives recognition from Paul Dedona for his presentation on Handling Small 24-Hour Loads with DX Cooling.*



## Will's Testament

by Will Clark

Many of you may have recently read an article from ASHRAE society regarding mentoring. Mentoring is a key objective for not just society, but for each individual chapter. The Southern California Chapter has on different occasions sponsored official mentoring programs throughout the years. This year, we also have a mentoring style program that allows you to help make a new member feel at home at ASHRAE. So you ask, how do I become a mentor? Simply let our membership chairman, Scott McDonald, know that you are interested in helping. If you see someone at a meeting that is new to the Chapter, go over and explain to them how the Chapter operates and what kinds of things they can participate in. It's as simple as that. But what a difference you will make in someone's first experience of ASHRAE.

Please touch base with Scott and let him know that you will be able to help throughout the coming year introducing new members to ASHRAE.

Scott McDonald - (626) 913-7123

## Annual Dinner Passes on Sale Now

Dinner pass books are being printed with 8 individual dinner tickets for the 1999/2000 ASHRAE year. These tickets can be shared with other members of your organization or feel free to invite a guest. These books will be sold at a discount from the dinner meeting price. For more information, contact David Kuo.

**American Society of Plumbing Engineers  
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**PRODUCT SHOW AND SEMINAR**

**November 3, 1999**

**The Gas Company Energy Resource Center  
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**Contact: Vivian Enriquez, C.I.P.E.  
(562) 424-8638**

## 1999-2000 ASHRAE Southern California Chapter and Western Programs

### SOUTHERN CALIFORNIA CHAPTER

#### DECEMBER 14, 1999: JOINT MEETING

Location & Time: TBD by Orange  
Chapter

Joint Meeting with Orange, Tri-County  
and SoCal

#### JANUARY 11, 2000: RESEARCH NIGHT

Location: Les Freres TAIX  
Tech Program: Variable Frequency  
Drives  
Speaker: TBD  
Main Program: IDEC  
Speaker: TBD  
Chairperson: George Orf

#### FEBRUARY 1, 1999: GOVERNMENT AFFAIRS NIGHT

Location: Les Freres TAIX  
Tech Program: Chillers  
Speaker: Mr. John Clark  
Main Program: Architect and  
Mechanical  
Liability Lawyer  
Speakers: Panel Discussion  
Chairperson: Bob Brennan

#### MARCH 7, 2000

Location: Les Freres TAIX  
Tech Program: Cooling Towers  
Speaker: Mr. Jerry Conklin  
K.H. Watts Co.  
Main Program: Energy Efficient  
Update  
Speakers: Panel Discussion  
(SCE and The Gas  
Co.)  
Co-chairs: David Kuo and  
Ishtiaq Chisti

#### APRIL 4, 2000: RESEARCH NIGHT

Location: Les Freres TAIX  
Tech Program: Boilers  
Speaker: TBD  
Main Program: Meeting Code for  
Minimum OSA per  
person with VAV  
Systems  
Speaker: Representative  
from Air Monitor  
Chairperson: Ron Sweet

#### MAY 5, 2000: STUDENT NIGHT

Location: Les Freres TAIX  
Tech Program: Microbial  
Contamination of  
Mechanical  
Systems  
Speaker: TBD  
Main Program: Ductliner Safety  
Issues  
Speakers: Panel Discussion  
Co-Chairs: Simon Turner and  
Paul Dedona

#### JUNE, 2000: INSTALLATION DINNER/DANCE

To be announced.

### WESTERN SECTION

#### NOVEMBER 9, 1999: SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT

Location: Mariann's Italian  
Villa, Santa Maria  
Speaker: Todd Noce, Mason  
Industries  
Time: 6:00 p.m. - Social  
Hour  
6:30 p.m. - Dinner  
7:30 p.m. - Main  
Program

### Help Wanted Column

Anybody wishing to place an ad in  
this column for an engineering or other  
position please submit your request to:

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Home e-mail: ralph\_judy@msn.com

Please make a donation of \$50 per ad  
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People looking for a job may place  
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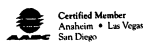
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