

# SOL AIR

Newsletter of the Southern California Chapter: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.  
January 2000 website: [www.ashrae-socal.org](http://www.ashrae-socal.org) Vol. 45, No. 5

## JANUARY MEETING INFORMATION

### January 11, 2000 Life Members Night

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

- 5:30 Tech Forum  
*3D-CAD Systems & Estimating Software*  
Speaker: Mr. Greg Davis
- 6:05 Social Hour (Fun Time!)
- 6:45 Dinner  
\$23 with reservation  
\$25 without reservation  
\$10 student member
- 7:45 Main Program  
*Underfloor Air Conditioning*  
Speaker: Mr. Jim Reese,  
York International
- 9:00 Meeting Ends

#### LIFE MEMBERS NIGHT

At our January meeting, we will be celebrating the many Life Members of The Southern California Chapter of ASHRAE. Please come and join us in honoring the New Life Members and also the many current Life Members.

Please specify beef or fish when making reservations. For reservations, please fax to Jennifer Farr, Fax (310) 671-1467 by Monday, January 10, 2000.

## JANUARY MAIN MEETING

### Under Floor Air Conditioning

by: Paul Dedona

More and more new construction projects feature Under Floor Power, Voice, and Data cabling systems. This has led to increased interest in Under Floor Air Conditioning designs. Mr. Jim Reese of York International will discuss the benefits of this technology as well as the problems encountered by engineers and contractors during design and construction.

## JANUARY TECH FORUM

by: Greg Davis

Using 3D CAD, engineers benefit from increased productivity, while better serving the construction industry resulting in lower total project costs.

Although the technology has been in place for a few years, the applications that allow efficient Computer Aided Design have more recently been developed. Despite the advancing technology, some engineers are still utilizing hand drawings. Now, with AutoCAD as an industry standard, training is readily available to make the transition to computer aided design much easier. By using a CAD-based design product, resulting drawings are done much faster, are more accurate, and are cleaner to read than hand drawings. More importantly, CAD drawings are much faster to modify.

The Contracting industry is now moving towards 3D CAD drawings as a standard. In three to five years, all design will be done using products based in 3D AutoCAD. The reason for the change boils down to costs. The mechanical contractor using 3D CAD can save detailing costs, coordination costs, costs for developing As-Built Drawings, and fabrication costs.

Additionally, 3D CAD Packages contain intelligence, allowing the engineer to provide catalog and engineering data for designed equipment on the drawings in little time.



## Will's Testament

by: Will Clark

### WELCOME TO THE NEW MILLENNIUM!!

It's hard to believe we have finally reached the year 2000. It's amazing to think of all the advances that have taken place in our industry over the last 100 years. As you know, ASHRAE has played a key role in those developments.

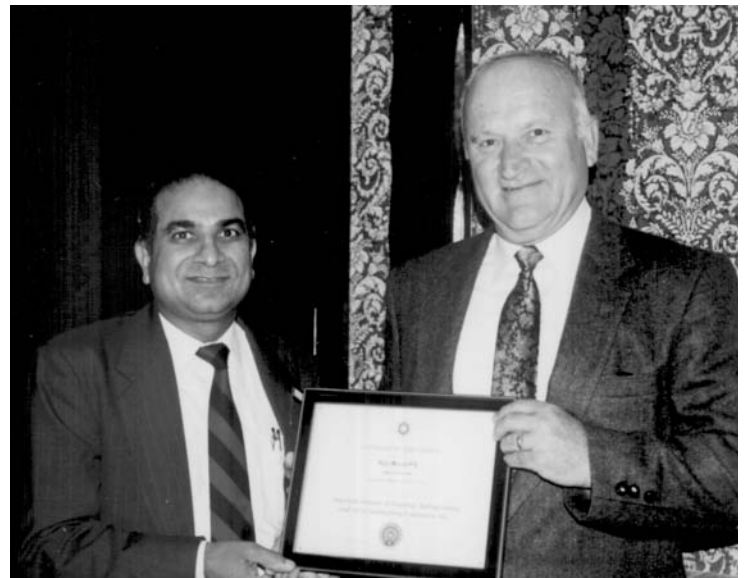
I challenge you to start the new Millennium off by committing yourself to continue your involvement in ASHRAE. The sharing of ideas, offering of guidance to new members, developing innovative designs and showcasing our successes are all key activities in ASHRAE. Let's leave a legacy in the HVAC industry so that the next generation can look back and also have something to aspire to.

Thank you all for your support and we look forward to making the second half of the '99 / '00 ASHRAE year an interesting and exciting time.



### December Main Speaker

Mr. Milton Meckler, PE, from Meckler Engineers Group, gave a talk on "Flexible Cooling Facility." Our joint meeting held on December 14th at The Gas Company Energy Resource Center, was very successful thanks to Milton's presentation on indirect cooling towers used at the Marine Corps. Logistic Base in Barstow, California.



### November Main Program

Paul C. Miclea, PE, PMP, (right) gave a presentation on "Fire Safety" on large public tunnel projects. His talk presented various methods of fire containment with emphasis on performance and effectiveness. Sudhir Agrawal presents him with a Certificate of Appreciation.



### November Scholarship Award

Frank E. Dunn, Vice President of Sales from the Dawson Co., is the big winner of the scholarship raffle for his \$235 contribution to the Scholarship Fund. This truly was a bidding war to the end. This large pan that Frank and Mary Johnson from Siemens, are holding is from Chasens Restaurant in West Los Angeles. The pan was donated by Mike Burke of Burke Engineering for the Scholarship Raffle. Thanks to Frank and Mike for their participation in this special raffle.

## REGION X CRC

by: Sudhir Agrawal

This year the Region X CRC will be held at Vancouver, Canada on May 11, 12 and 13th, 2000. I will be your Chapter representative as Delegate and Bob Brennan will be the Alternate. You, as member may have several ideas to make the ASHRAE better. You may see the Society's role differently. You may want Society to function differently. You, as members have voice in the Society. We will be your spokes person, your formal means of communication to the Society. Bob and I are requesting you to come forward with some motions, which we can carry for you to the CRC. After the motion is passed through the Region X CRC, it will be formally submitted to the Society at the Counsel meeting for adoption. There is no limit to the number of motions from any Chapter. There are 10 Chapters represented at Region X. Our Chapter (Southern California Chapter) is the largest and the strongest. Our Past President Mary Johnson will summarize various activities of our Chapter throughout the year 1999-2000. I will present this summary at CRC as your Delegate. We also get PAOE points for our attendance at CRC. I encourage you all to attend Chapter's Board of Directors monthly meetings and bring your motions for CRC.

At CRC, we also bring forward the name of the Regional Vice Chairpersons for Research promotion, Refrigeration, Membership, TEGA, Historian etc, for any openings at the Region. Our Chapter has held all these position at various times. Currently, Cindy Callaway is Region X RVC for Refrigeration.

The Chapter encourages attendance of our chapter Chairperson for Membership, Research Promotion, TEGA, Refrigeration, and Historian at CRC. The Chapter funds a part of the expenses. There are training sessions conducted at CRC in all of these areas. Various Chapters representatives share their experiences. This information is very useful, in conducting and improving our Chapter operation.

So I encourage all of you to be a part of the ASHRAE and make a difference at the Society. You as member can steer the Society in the direction you desire. Please bring your request to me or Bob and we will translate it to the official motion form and present at the CRC. You can fax me at (213) 922 7536 or E-mail me at Agrawals@mta.net or call me at (213) 922 7233.

## STUDENT ACTIVITIES: JANUARY 2000

by: Clay Lampman

Many of our industry leaders are concerned about the **future of our industry**. These leaders have stated, "We are facing a grim prospect of a dangerously low supply of trained engineers in our field. It is time for us to go high profile and make the HVAC industry an exciting field for our young men and women to pursue a higher education." We must become pro-active to reach out to college and university engineering students to follow studies related to our industry. We should also encourage high school students to consider an engineering career.

By establishing **Student Chapters of ASHRAE** on college/university campuses, we can bring the engineering student closer to considering the HVAC industry upon graduation. Our chapter sponsors a student chapter at Cal Poly-San Luis Obispo and CSU-Long Beach. Initial contacts have been made at CSU-Northridge, Loyola Marymount, Cypress, CSU-Los Angeles, Cerritos, Cal Poly-Pomona, Cal Tech, Harvey Mudd, Mt. Sac and USC.

Starting in February, our **Scholarship Committee** will be contacting the various local colleges and universities with the 1999-2000 requirements. If you are aware of a student that you feel is scholarship material and has an interest in our industry, please contact me.

We are looking for **chapter members to be a liaison** to these engineering departments of our local educational institutions. The goal is to coordinate Chapter activities with the students and to help maintain and/or form a Student Chapter of ASHRAE. If you have some interest in or are a past graduate of any of these institutions, **please give me a call** so we can discuss the details of being a liaison. We need your help if we are going to improve the future supply of trained engineers for our industry.

To improve our communications with educational institutions, we are **expanding the SOL\*AIR's mailing list** to include more of the faculties of each of the engineering departments in our area. Each issue of SOLAIR shows the Chapter activities that can be of interest to their students. We will also expand our E-mail address for a quick line of communication with the faculty members. If you know of any **Point of Contact** that needs to be made, please call me.

We have established a "Job Shop" portion on our home page which can be used as a clearing house of **student job placements**. By posting a student job on the home page, we can interest students to look at our industry as a profession.

We need to locate a Chapter Member to coordinate Student jobs.

Activities during **Engineers' Week** (February 2000) will be a continuing venture that the Chapter started last year. The goal will be to reach beyond the colleges and universities to the local secondary schools. Our Chapter President has pledged to steer the Chapter toward this activity. Plans are underway to define the program. If you have any ideas of the type of activities that would be of an interest to students of all ages, please call me.

To contact me, you can phone me at (626) 355-8979, Fax (626) 355-5829 or E-mail to [cala\\_eng@earthlink.net](mailto:cala_eng@earthlink.net). You can also contact Mike Burke at (310) 671-6915, Fax (310) 671-1467 or [burkeenv@earthlink.net](mailto:burkeenv@earthlink.net). Your Chapter President and I hope that concerned Chapter members will **"Step up to the Plate"** and lend a hand. Your efforts can greatly affect the future of our HVAC industry.

## TEGA THOUGHTS

by: Jay Purcell

I want to take a brief moment out of your hectic schedule to talk about TEGA. For the newly initiated, TEGA is not a computer virus. As a matter of fact, TEGA actually aims to overcome two of the most damaging ailments facing any Society: anonymity, and failure to positively influence community (or impotence).

TEGA or the Technical, Energy & Government Activities committee, intends to assist ASHRAE in avoiding these two ailments by accomplishing the following:

- Inform Chapter members of available ASHRAE technical material
- Inform Chapter members of Society-level technical activities
- Encourage Chapter members participation in technical activities at local, regional and Society level
- Provide Chapter input to Society on standards, publications, research, handbook, and position papers through Technology Council

Furthermore, TEGA assists Chapters in:

- Developing local and regional recognition of ASHRAE's authoritative position
- Responding to public issues within ASHRAE's scope
- Developing liaisons with the local community regarding technical issues

To facilitate participation in TEGA there are several awards programs:

- Technology Awards
- Government Affairs Award
- Dan Mills Award

Of course, these Awards have a positive benefit to the individual and our Chapter, as well as the Society as a whole.

You're probably wondering how YOU can be a part of the TEGA experience. I would be lying to you if I said that parts of this program don't involve tedious administrative tasks, which is especially true where the Awards programs come into play. Don't worry, I'm here to help you.

Obviously, virtually every Committee in ASHRAE has PAOE objectives. TEGA is no different. Our objective is to achieve the maximum PAOE target of 500 points. Points are awarded as follows:

TECHNICAL AWARD	Points
Each entry into chapter competition	10
Each chapter entry into regional competition	50
Each chapter entry into Society competition	25
GOVERNMENT AFFAIRS AWARDS	
Each chapter entry into regional competition	50
PRESENTATION ON HVAC&R TECHNOLOGY	
Each presentation on HVAC&R Technology to a professional or business group of 10 or more individuals	50
BONUS	
Each presentation by an ASHRAE Technical Committee (TC) Member to the local chapter or professional organization or business group of 10 or more individuals	50

To start, I would like you to ask yourself a simple question "Have I made a HVAC&R related presentation within the last six months?" If the answer comes up "yes", then please call me at 714-850-3448, and I will prepare the appropriate documentation. If the answer is "no", then call me and I will work with you to set up such a presentation for Sempra Energy Services<sup>1</sup> (my Company). Conducting and documenting just 10 of these presentations will assure our Chapter of at a minimum achieving the maximum PAOE points.

1. "Sempra Energy Services Company" is not the same company as SDG&E/SoCalGas, the utilities. Sempra Energy Services Company is not regulated by the California Public Utilities Commission, and you do not have to buy Sempra Energy Services Company's products or services to continue to receive quality regulated service from the utilities.

I am also encouraging everyone to start thinking about how much local, regional or national recognition for one of your fine HVACR project could mean to your personal career and/or your company's future success. As the year progresses we will need to start the administrative process necessary to submit such a project for a Technology Award.

On a more general note, we shouldn't simply strive to achieve the PAOE objectives. Our Chapter contains some of the foremost experts in their fields, and that deserves recognition. This fact also implies that we all have a responsibility to make this world a better place to live in. One way to do that is by disseminating our knowledge and experience. TEGA aims directly at that target. I am confident that TEGA can help us avoid those two pesky ailments, but YOU and I will need to play an active role. In February, I will be sending out a projects questionnaire to all active Chapter members. This questionnaire will try to narrow down the list of projects that our Chapter can proffer for a Technology Award.

Please feel free to call, or e-mail, me at any time for more information on TEGA and how YOU can play a part in its objectives. My name is Jay Purcell, and I am the Director of Project Development for Sempra Energy Services. You can reach me at 714-850-3448 or at [jpurcell@sna.sempra-esco.com](mailto:jpurcell@sna.sempra-esco.com).

## 1999-2000 ASHRAE SOUTHERN CALIFORNIA CHAPTER PROGRAMS

### SOUTHERN CALIFORNIA CHAPTER

#### FEBRUARY 1, 2000: GOVERNMENT AFFAIRS NIGHT

Location: Les Freres TAIX  
Tech Program: UV Sterilization for Supply Air  
Speaker: Mr. Jeff Beck  
Main Program: Microbiological Contamination of Mechanical Systems  
Speakers: Mr. Simon Turner  
Co-chairs: Simon Turner  
Paul Dedona

#### MARCH 7, 2000:

Location: Les Freres TAIX  
Tech Program: Cooling Tower Fundamentals  
Speaker: Mr. Jerry Conklin  
Main Program: Energy Efficiency 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: SCAQMD Regulations for Boilers  
Speaker: Mr. Bob Jones

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: Chiller Fundamentals  
Speaker: Mr. John Clark  
Main Program: TBA  
Co-Chairs: Paul Dedona

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

To be announced.

## HELP WANTED COLUMN

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

RALPH PANTING  
Air Conditioning Specialties Co.  
850 E. La Habra Blvd.  
La Habra, CA 90631  
(562) 694-8543  
Fax: (562) 697-6296  
e-mail: [ralph\\_judy@msn.com](mailto:ralph_judy@msn.com)

Please make a donation of \$50 per ad made payable to:  
ASHRAE Southern California Chapter

People looking for a job may place an ad without donating.

**INSIDE SALES SUPPORT/  
ESTIMATOR**

**Duties:** Assisting Sales Engineers with design and cost estimation of custom HVAC equipment; preparing scope letters, quotations, submittals, orders; and answering customer inquiries.

**Requirements for Position:** Substantial Computer Software Knowledge; Windows '98/Office '97, and adaptability to learn custom engineering design software. Familiarity with the construction bid process, Blueprints, Mechanical Equipment Schedules, and Specification Sections. Detail-oriented, exhibiting strong attention to accuracy. Good multi-task prioritization and time management skills. Good grasp of spatial relationships & proportions. Clear written & verbal communication skills. Understanding of the importance of superior customer service. Electrical/Mechanical aptitude. HVAC or Engineering coursework, or new college graduate (AA or BA) welcome.

**Salary:** Negotiable, depending upon level of expertise and applicable experience.

**Benefits:** Medical Insurance, Paid Vacation, 401K, ESOP, Tuition reimbursement for approved continuing education courses.

Please Respond to: Gloria Dunkerly  
DMG Corporation  
2603 Pacific Park Drive  
Whittier CA 90601  
e-mail: [gloria@dmg-la.com](mailto:gloria@dmg-la.com)  
ph: 562-692-1277 x 241  
fx: 562-695-8282




**American  
Air Balance  
Company**  
Air • Sound • Hydronic

**Bob Conboy**  
Tel: 714/693-3700  
Fax: 714/693-9509

4887 East La Palma Avenue  
Suite 708  
Anaheim, CA 92807  
E-Mail: [aabc@deltanet.com](mailto:aabc@deltanet.com)

Certified Member  
Anaheim • Las Vegas  
San Diego



**Peter H. Narbonne, P.E.**  
Chief Engineer/Vice President

**air conditioning company, inc.**  
Established 1934

6265 San Fernando Road  
Glendale, California 91201-2214  
Telephone: 818-244-6571 Ext. 2403  
Fax: 818-247-6533

Mechanical Contractor License #120696

**AIR CONDITIONING  
SPECIALTIES  
COMPANY**



**RALPH R. PANTING**

(562) 694-8543  
(714) 738-7711

FAX (562) 697-6296  
850 East La Habra Blvd. • La Habra, California 90631

e-mail: [burkeenv@earthlink.net](mailto:burkeenv@earthlink.net)

**BURKE  
BURKE  
BURKE  
BURKE  
BURKE  
BURKE**

**Paul F. Dedona**  
Director of Marketing & Sales

**BURKE ENVIRONMENTAL INC.**  
6819 West Blvd., Inglewood, CA 90302-1832  
(310) 671-6915 • Fax: (310) 671-1467



**Mike Poyer, Sales Engineer**  
(818) 550-0377 • Fax (818) 550-0379  
Phone (800) 937-7222 • (800) YES-SCACD  
Pager (213) 240-5616 • Phone (626) 854-4616

**Southern California  
Air Conditioning Distributors**  
16900 CHESTNUT STREET  
CITY OF INDUSTRY, CALIFORNIA 91748-1012

World's Largest Air Conditioning Equipment Distributor

**CPV Indoor Environmental Services**  
a division of CALIFORNIA POWER-VAC

**MIKE PARKINSON**

- Mechanical Hygienic Maintenance
- Air Duct Cleaning & Sanitizing
- HVAC Video Inspections & Surveys
- LIC. #665136 (C-20/C-38)

**(805) 295-6901 • (800) 557-4247**

Pager (805) 290-8982  
FAX: (805) 295-6941

25433 RYE CANYON ROAD  
VALENCIA, CALIFORNIA 91355

**C  
R  
S CLEAN ROOM SERVICES**

Laminar Flow Benches Clean Rooms  
•Certification •Repairs •Sales

**Greg Bashe**

9019-C Oso Ave. • Chatsworth, CA 91311  
Tel. (818) 701-6453 • Fax (818) 701-6520  
E-Mail: [greg\\_bashe@cleanroomservice.com](mailto:greg_bashe@cleanroomservice.com)

**CTR**  
THE COOLING TOWER REPAIR & RETROFIT COMPANY, INC.


**Beverly Ayn Bender**  
President

1815 W. 205th St., Suite 206  
Torrance, California 90501  
Phone: (310) 783-4546  
Fax: (310) 783-4718

CONTRACTOR'S LIC. #735346

Wayne Freiman  
Air Conditioning & Refrigeration Department  
Vocational Technical Division

**CYPRESS COLLEGE**



9200 Valley View Street, Cypress, CA 90630-5897  
(714) 484-7231 • Fax (714) 527-1077  
e-mail: [www.cypress.cc.ca.us](http://www.cypress.cc.ca.us)



**DAWSON CO.**  
FOUNDED 1948

**FRANK E. DUNN**  
VICE PRESIDENT  
GENERAL SALES MANAGER  
PHONE: 626-797-9710

MAIN OFFICE & WAREHOUSE - ALTADENA, CA 91001-5901  
2124 LINCOLN AVE. P.O. BOX 10001  
FAX: 626-798-4659 [Fdunn@Dawsonco.com](mailto:Fdunn@Dawsonco.com)

Phillip M. Trafton, C.I.P.E.  
EXECUTIVE VICE PRESIDENT

**donald f. dickerson associates**  
— consulting engineers

LOS ANGELES HEADQUARTERS (818) 385-3600  
5900 SEPULVEDA BOULEVARD (310) 277-1865  
SUITE 101 e-mail dfda@aol.com  
VAN NUYS, CA 91411 FAX (818) 990-1669


**Eberhard SMC**

Mechanical Architectural Sheet Metal  
General

Charlie Ioimo


15228 Raymer Street, Van Nuys, CA 91405  
(818) 373-7584 Fax (818) 782-5099  
License #689956

**ENGINEERED COMFORT SYSTEMS**



Henry Chu  
Sales Engineer

10700 Norwalk Boulevard  
Santa Fe Springs, CA 90670  
(562) 944-3236  
FAX (562) 941-5523



**LOS ANGELES AIR BALANCE CO., INC.**  
AIR SOUND HYDRONIC PROFESSIONALS

Eddie Alejandro, P.E.  
President

1848 W. Eleventh St., Suite N Upland, CA 91786  
Email: LAAirBal@aol.com  
Website: http://www.airbalance.org

Tel. 909/931-2656  
Fax: 909/931-2654  
Pgr: 909/603-6502  
800-429-6880

**LENNOX INDUSTRIES INC.**

**JERRY PASCO**  
Commercial Territory Manager

12775 Reservoir Street  
China, California 91710  
phone 909.627.7647  
fax 909.627.6370  
voice mail 800.323.3356 box 0593  
pager 310.936.3164



**Marley Cooling Tower**  
A United Dominion Company

John Rees  
HVAC Products Manager

The Marley Cooling Tower Company  
500 Kraemer Blvd., Suite 311  
Brea, CA 92821  
Tel 714-672-9100 Fax 714-572-9925  
Pager 213-267-7918  
email: reesjp@marleyct.com

**PACO**

Pumps Johnston Pump

**PAUL M. GOUDSMIT**  
SALES REPRESENTATIVE  
PUMPS, PARTS & SERVICE

3215 Producer Way  
Pomona, CA 91768

Phone: (909) 594-9959, Ext. 338  
Fax: (909) 594-1335  
e-mail: pacola@flow-products.com

**Phoenix Controls Corporation**

Providing precision airflow controls for critical room environments, including:

- laboratories
- hospital isolation rooms
- vivariums
- clean rooms
- pharmaceutical process areas

www.phoenixcontrols.com  
Represented locally by:  
George Yardley Company, Inc.  
(714) 241-7700

**QUALITY COMPRESSOR**  
Air Conditioning & Refrigeration Compressors



REMANUFACTURERS, SALES & PARTS

- Trane
- Carrier
- Copeland
- Worthington
- Dunham-Bush
- York, etc.

available from stock:  
www.QualityCompressor.com  
7500 S. GARFIELD AVENUE  
BELL GARDENS, CA 90201 (562) 806-5185 FAX: (562) 806-5191


John A Clark  
District Manager  
Worldwide Applied Systems Group



**TRANE**

Los Angeles Sales District  
The Trane Company  
17760 Rowland Street  
City of Industry CA 91748  
TEL/FAX 626 435 1188  
johnaclark@trane.com

An American Standard Company




**VAISALA**

Antti Korhonen  
Branch Manager  
HUMIDITY/DEWPOINT/CO<sub>2</sub>/PRESSURE

Vaisala Inc.  
5 Buttonwood Street  
Irvine, CA 92614-7546  
http://www.vaisala.com

Tel. (949) 651-0407  
Toll Free (888) VAISALA  
Fax (949) 651-9743  
antti.korhonen@vaisala.com



**Valley Mechanical Services**  
AIR CONDITIONING • ENERGY MANAGEMENT

21600 Oxnard Street  
Suite 2100  
Woodland Hills, CA 91367  
TEL: (818) 716-2654  
FAX: (818) 716-2605


Carlos Villarreal  
General Manager

State Contractors License No. 746605

**K.H. WATTS COMPANY**  
INCORPORATED  
REPRESENTING

BALTIMORE AIRCOL COMPANY, INC. • CERAMIC COOLING TOWER COMPANY  
ALFORD PUMPS & GRISWOLD • HCl TERMINATOR VALVES  
HITACHI VFD'S • FUJIKI LUX CORPORATION • UNISOURCE CONTROLS

JERRY J. CONKLIN  
SALES ENGINEER



1815 WEST 205TH STREET • SUITE 106 • TORRANCE, CA 90501  
TELEPHONE: (310) 783-4710 • FAX: (310) 783-4718  
VOICE MAIL EXTENSION # 18  
E-MAIL: jconklin@worldnet.att.net  
FIELD OFFICE PH: (805) 493-5820 • FIELD OFFICE FAX (805) 241-7838




**well aquatronics**  
Engineered Pumps and Hydronic Equipment

Bob Brennan

Toll Free 1-800-74-PUMPS

Tel: (818) 244-5582 Fax: (818) 247-0083  
e-mail: weilaqua@aol.com

115 E. Palmer Ave. • Glendale, CA 91205-3122



**WONG & GOTAMA, INC.**  
Building Systems Consultants

Simon S. Wong, P.E.

13160 Mindanao Way, Marina del Rey, CA 90292  
tel: 310.827.3332 fax: 310.822.5511  
e-mail: SSWong@earthlink.net



## **TOUR TO METRO RED LINE SUBWAY MECHANICAL ROOMS**

Date: January 20, 2000 (Thursday)  
Time: 2:00 p.m.  
Meeting Place: North Hollywood Station  
5350 Lankershim Blvd.  
N. Hollywood, CA 91602  
Directions: Take 10 west to 101 north, on 101  
north exit at Lankershim, right on  
Lankershim and proceed for approximately  
three miles, station is at right hand side of  
Chandler.  
Contact Person: Sudhir Agrawal, (213) 922-7233  
e-mail address: agrawals@mta.net  
Notes: No tennis shoes allowed.  
Safety vest, self rescue and hard hat will be  
provided.

Published by the Southern California Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Los Angeles. Statements made herein are not expressions of the Society or of the Chapter. Republication of material printed herein is expressly forbidden without Chapter authorization.

## **Southern California Chapter 1999-2000 Board of Directors**

President . . . . . William W. Clark, Jr.  
President-Elect. . . . . Sudhir Agrawal  
Secretary . . . . . Bob Brennan  
Treasurer . . . . . John Clark  
Director . . . . . Mike Burke  
Bob Jones  
Bob Woods  
David Kuo  
Editor: . . . . . Ralph Panting  
Editorial Office:  
850 E. La Habra Blvd., La Habra, CA 90631  
(562) 694-8543 / Fax: (562-697-6296)

<http://www.ashrae-socal.org>

---

## **Newsletter of the Southern California Chapter** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Mail Change of Address to:

Southern California Chapter of the American Society of Heating,  
Refrigerating and Air Conditioning Engineers, Inc.

JODY RUSLING, Executive Secretary  
1942 Endicott Road, San Marino, California 91108  
Fax: (626) 285-9568

---