



Newsletter of the Southern California Chapter: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.
 March 2005 website: www.ashrae-socal.org Vol. 50, No. 7

MARCH 1, 2005 MEETING INFO:

LES FRERES TAIX

1911 Sunset Blvd., Los Angeles, California

5:30 Tech Program: Mold Reduction & Energy Conservation Using Ultraviolet Lights

Speaker: Mr. Victor Neuman, P.E., US Airconditioning Distributors

6:05 Social Hour (Fun Time!)

6:45 Dinner

\$27 with reservation
 \$30 without reservation
 \$10 student member

Meal choice will be salmon or chicken. We will not be offering the filet this month.

7:45 Main Program: High Performance School Design Practices – “CHPS”

Speaker: Mr. Randall Higa, P.E., Southern California Gas Company

9:00 Meeting Ends

Reservations: Dale Au or Brenda Montmarquet (626) 961-9640, Fax (626) 961-9041 by Mon., Feb. 28, 2005.

MARCH MAIN PROGRAM: HIGH PERFORMANCE SCHOOL DESIGN PRACTICES – “CHPS”

Randall Higa will be speaking about High Performance School Design Practices and “CHPS,” otherwise known as the Collaborative for High Performance Schools.

CHPS began in November 1999 with the California Energy Commission calling together the utilities to discuss the best way to improve the performance of schools. A few years later, CHPS became a 501(c)3 non-profit corporation and produced its first set of Best Practices Manuals.

The purpose of the Collaborative for High Performance Schools (CHPS) is to encourage the construction of energy efficient, high-performance K-12 schools in California by combining resources that are currently available from the California IOUs and various environmental groups, municipal utilities and state and federal agencies. CHPS has developed informational materials, web sites, best practices manuals, and workshops targeted towards engineering and architecture firms as well as school board officials who are involved with the design of new and renovated schools. CHPS has also developed an Eligibility Criteria patterned after the US Green Building Council LEED (Leadership in Energy and Environmental Design) that provides a scoring mechanism for determining the level of school building performance. CHPS participants have also developed a series of “showcase” schools throughout California that will be used to demonstrate the viability, constructability and benefits of high performance school buildings.

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President's Message

*Don La Marr, President,
Southern California Chapter,
ASHRAE*

Good afternoon to all Southern California ASHRAE members.

Our meeting in February was held on February 1, 2005 at Les Freres Taix. First, for the tech session, we had Sidney Schiff informing us about Legionella and Water Treatment. At the conclusion of his discussion, it appeared as if no one wanted to visit a public facility any time in the near future. Second, for the main program, Dr. Anthony Carter of Blackhawk Engineering gave us a detailed presentation on "White Rust and Chemical Water Treatment;" especially for cooling towers. We were all enlightened on the best ways to avoid white rust and how to treat a pre-existing occurrence of white rust.

The next meeting will be held on Tuesday March 1, 2005 at Les Frere's Taix. The technical session will feature Mr. Victor Neuman of US Airconditioning Distributors, who will be speaking about Mold Reduction & Energy Conservation using Ultraviolet Lights. The main speaker will be Mr. Randall Higa of the Southern California Gas Company, who will be speaking on the subject of "High Performance School Design Practices and "CHPS".

Remember that Chad Herrick and David Kuo will be going to the Western Regional CRC from May 5 to May 7 in Honolulu, Hawaii. Please give them any subjects you would like them to discuss at the CRC.

In our previous plea of 12-31-04, regarding membership renewal, 30 members have renewed their membership in our chapter. However, although we picked up these returning members, we are still running behind schedule for renewals that are now due. If this includes you, please step up and renew now. If you have renewed already, please get one of your business associates who is not a member to please join at this time. As of today's date, we still need to obtain 50 to 70 renewals and/or new members.

Mark Mosley has a new chair person for the spring seminar, June Yang of Syska & Hennessey. The topic is shown in a different section of the newsletter.

Joe Ablay has finalized arrangements for our spring golf tournament. It will be held on May 11, 2005 at Brookside Golf Course in Pasadena next to the Rose Bowl. Joe has formed a committee of 4 people but will need more to work the event itself. Please contact Joe at "jablay@iciglobalgroup.com" if you are able to assist. Remember the golf tournament is our main fundraiser for operating costs for next year.

At this time I would again like to ask all principals of our industry- engineers, contractors, and owners- to get involved and get your associates involved in our ASHRAE Chapter. Only you can make it happen.

March Main Program (continued)

CHPS is currently working on an update of the "Best Practice Manuals" with a release date later in 2005 to coincide with the implementation of 2005 Title 24 Standards. There will be a public review where everyone will be able to view the draft manuals and provide comments. More information will be available at www.chps.net.

Mr. Randall Higa has been with the Southern California Gas Company for 12 years. He has been working in the residential and commercial building industry promoting energy efficiency. During that time, he also managed various regulatory proceedings, written tariffs and prepared testimony. Prior to SoCalGas, for 13 years, he worked for the following Engineering and Architectural firms; Albert C. Martin Associates, CTG Engineers, and Malcolm Lewis Associates where he designed and managed various commercial and institutional projects including hospitals, schools, office buildings, retail, labs, and data processing facilities. He is a member of several professional organizations and currently serves in the ASHRAE 90.1 Technical Committee as a board member of the Collaborative for High Performance Schools. He has taught the Environmental Controls courses and an Energy Efficiency Design seminar at Cal Poly Pomona and UC Irvine Extension. He graduated from the School of Engineering and Applied Sciences at UCLA and has taken a graduate Architecture course in Building Climatology and Energy Conservation Design. He is a registered Mechanical Engineer in the states of California and Nevada.

MARCH TECHNICAL PROGRAM: MOLD REDUCTION AND ENERGY CONSERVATION USING ULTRAVIOLET LIGHTS

The science and technology of using Ultraviolet-C (UVC) lights in conjunction with cooling coils will be discussed.

Case studies will be discussed for a hospital and a school district where the retrofit of UVC lights reduced mold in the buildings and showed significant energy savings by cleaning the coils and causing less air pressure drop.

Mr. Victor Neuman is a registered professional engineer with US Airconditioning Distributors. He is a recipient of ASHRAE's Distinguished Service Award for his publications on hazardous building ventilation systems and is past Regional Vice Chairman of Region X of ASHRAE.

THE CURMUDGEON SPEAKS

By John Tamney

Well, where the devil are all you people? Out of our more than 300 Chapter members, we are lucky to get 40 or 50 people to show up at the monthly meetings. Nowadays we get mostly the Board and Committee members, the old timers, and a smattering of vendors and engineers. Years ago we had 75 to 100 attendees.

Has everyone forgotten the benefits of attending the monthly meetings? Our programs are designed to educate and hopefully entertain our membership, and to keep them up to date on industry practice.

But then there are other benefits. I have always attended as many meetings as possible. Why? In my earlier days in this field, the meetings were where I was able to corner the vendors who wouldn't call me back. Worked like a charm. It is also a way to get to form lasting friendships with your colleagues who can be a tremendous help to you when you least expect it. Over the years I have received a lot of help in solving technical problems just by asking people questions at the meetings. Our members are always willing to help and it saves reinventing the wheel. And even if you think you already know everything about the subject of a program, I have always come away with a new understanding or perspective.

Perhaps the problem is breaking free of the traffic problems in just getting around Los Angeles. But it is worth your while to make that effort to attend now and then, and I am sure you won't be disappointed.

If you have some feedback you would like to give me, please e-mail me at johnetiii@sbcglobal.net.

LEE SANDAHL

by Pat Lanphere, So. Ca. ASHRAE Historian

If you ask Lee Sandahl what he is doing these days, he will probably tell you, "not much, I play some golf and I go into the office about three days a week to pick up my mail."

I would guess, however, that when a long time client of Key Mechanical Engineers requires a design for a mechanical system for a high-rise building or a shopping mall, Lee's expertise is requested and appreciated.

It's a "long jump" from service manager of Gray Autograph dictating equipment in 1949 to President of KMI ENGINEERS in 1972, where he served until 1995. In those years he spent a couple of years aboard the U.S.S. Everett (1951-1952) as a gunnery officer during the Korean Conflict, 2-1/2 years with Keller Tool Co. selling and servicing pneumatic tools, and then got his "Big Break" with an opportunity to work as an Engineering Salesman for the rep firm of Air Conditioning Supply Co.

He tells the story of a message from the sales manager of ACS posted on the company bulletin board one Monday morning. It announced the start of a "sales contest" among the ACS sales team and "the winner gets to keep his job!" The threatening and effective challenge came from non-other than a Mr. Louis Horsefield. (Where have we heard that name before? Oh yes, "Senior Student").

Lee evidently enjoyed the 5-1/2 years helping to design and sell systems including the company's primary lines of General Electric, New York Blower, and Drayer-Hanson equipment. He passed his E.I.T. test in 1958, went to work for Key Air Conditioning Co. as an estimator/salesman in 1960, and passed the California P.E. Exam. in 1963. In March of that year Lee became Vice-Pres. and Chief Engineer of all projects for Key Engineering Company. Working closely with his partner Robert Heisler, who was then President of the company, and also President of Key Mechanical

Industries, they have had great success from 1963 until the present time.

In 1972, Lee Sandahl took the reins as President of the renamed company, KMI Engineers, and Vice President of Key Mechanical Industries. (KMI was closed in 1995) and held that position for 23 years until 1995. At that time he gave up the management challenge to Richard Rivera as President of KMI Engineers and resumed as Vice-President of all engineering/design and supervision of projects.

He has held engineering licenses in at least 12 states as well as Canada.

His “high profile jobs”, (literally) include; Citizens Plaza, 30 Story, 700,000 sq. ft. Louisville, Ky., San Jose Plaza, 2-20 Story Offices, ea. 200,000 sq. ft., The 411 Bldg., 30 Story, 700,000 sq. ft., Milwaukee, Wi., Xerox Center, Santa Ana, Ca., 350,000 sq. ft., 16 Stories, and Chase Plaza, 400,000 sq. ft. 22 Story, Los Angeles, Ca.

He also has extensive expertise in shopping mall central plant systems including; Windward Mall, Kanehoe, Hi., South Coast Plaza I, II, III, Costa Mesa, Ca., Severance Center, Cleveland Oh., Port Plaza Mall, Green Bay Wi., Oxmoor Center, Louisville, Ky., Washington Square, Portland , Or., and College Hills Mall, Bloomington, Ill. These were just a few of the projects typically requiring 1500 tons or more in capacity.

Lee enjoys his golf at Friendly Hills Country Club, resides in La Habra Heights with his wife Marilyn, and has two sons and a daughter and six grandchildren. The family, the golf and picking up the office mail keeps him quite occupied these days.

MEMBERS' CORNER

By Ralph Panting

Please send any changes to me by fax: (562) 697-6296 or by email rpanting@acspecialties.com.

“Happy Birthday” wishes to the following members:

March Birthdays

3/1 John Clark
 3/1 Cirilo Gatilao
 3/1 Voytek Muszynski
 3/2 Hooshang Mozaffari
 3/2 Virak Dee
 3/3 Stanley Lintner
 3/3 Stone Chen

3/4 Donald Benkert
 3/4 Steve Pelaseyed
 3/5 Coleman Miller
 3/6 Christopher Pascual
 3/7 David Macready
 3/7 Trevor Candler
 3/8 Wei-Jih Yau
 3/8 Rodrigo Obeso
 3/9 Kenneth Horn
 3/9 Thomas Podgurski
 3/10 Robert Chandler
 3/10 Eaming Lee
 3/10 Robert Jones
 3/11 John Zeile
 3/11 Bent Wiencke
 3/11 John Green
 3/12 Lowell Downing
 3/12 John Murdaugh
 3/12 Daniel Reyes
 3/13 Alfred Asper
 3/13 Stephen Weiss
 3/13 David Witham
 3/14 Leovino Pabalan
 3/14 Marko Becir
 3/15 Ronald Sweet
 3/16 Victor Warren
 3/16 Carlos Navarro
 3/16 Bryan Jensen
 3/17 Michael Halossim
 3/17 Donald Dietiker
 3/17 Dale Christiansen
 3/19 James Howe
 3/19 Harold Phinney
 3/19 John Dorius
 3/21 Anilchandra Shenoy
 3/21 Phanh Phongsak
 3/21 Scott Adams
 3/22 Mansour Jafarkhani
 3/22 Alan Locke
 3/22 Kevin Wong
 3/23 John Tamney
 3/23 Arastoo Zahiri
 3/23 Gene Doucette
 3/24 Robert Accomando
 3/25 Kenneth Simon
 3/26 John Sundahl
 3/26 Gregory Powell
 3/26 Albert Robertson
 3/27 Robert Woods
 3/27 Cato Johnson
 3/28 Hofu Wu
 3/28 Steven Ivanick
 3/29 Thomas Zhao
 3/29 Fernan Siocon
 3/29 Gregory Pettey
 3/30 Todd Crane
 3/31 Fred Kharchekian



ASHRAE

CHAPTER/REGIONAL TECHNOLOGY AWARD APPLICATION SHORT FORM

INTRODUCTION:

This Short Form has been developed to stimulate more participation in chapter and regional competition.

This form is not intended to replace the full Society Technology Award Application form. Regional winners using the short form will be required to complete the full Technology Award Application form before their applications can be forwarded for Society Competition. (This form does not require extensive narrative, plans or photographs.)

INSTRUCTIONS:

- A. The individual submitting the Technology Award Application must be a current member of ASHRAE who had a significant role in the design or development of the project.
- B. Complete the "Short Form" and use it as the cover page.
- C. Provide a system schematic/diagram not larger than 11" x 17" in size. In addition, attach a brief narrative (maximum of 2 pages). The narrative should include the gross and net building areas applicable to the project, a description of the major building areas (i.e., operating rooms, laboratories, computer rooms, industrial processes, offices, warehouses) and a brief discussion regarding the following five criteria (if a criterion is not applicable, state accordingly):
 - Energy Efficiency
 - Indoor Air Quality
 - Innovation
 - Operation & Maintenance
 - Cost Effectiveness
 - Environmental Impact
- D. Submit your schematic, brief narrative, and completed form to your TEGA Chapter Chair for judging at the chapter level in accordance with their instructions.
- E. Winners in each category from the chapter competition will be submitted by the TEGA Chapter Chair to the Regional TEGA RVC Chair. Submit the appropriate number of copies as requested by your Regional RVC.
- F. It is highly recommended that each entrant confirm by letter (and retain a copy for record) to the owner that the owner has granted permission to submit this project to competition.
- G. International Awards. Award nominations from Region XIII are submitted through the TEGA Chapter Chair as described above. International nominations from outside Region XIII should be submitted to the Director of Technology at ASHRAE; these entries will be processed as regional winners.

NOTE: ASHRAE Technology Awards are the HVAC&R industry's most prestigious honor for efficient energy use in buildings and environmental system performance. While the awards do not certify responsible charge or professional license status, they do recognize outstanding design innovation and successful implementation.

CHAPTER/REGIONAL TECHNOLOGY AWARD - SHORT FORM

1. Category (Check One and indicate New or Existing, if applicable)
 - I. Commercial Buildings New or Existing
 - II. Institutional Buildings New or Existing
 - III. Health Care Facilities New or Existing
 - IV. Industrial Facilities or Processes New or Existing
 - V. Public Assembly New or Existing
 - VI. Residential New or Existing
 - VII. Alternative and/or Renewable Energy Use

2. Name of Building or Project: _____
City/State: _____

3. Project Description: _____
 - a. Project Study/Design Period: _____
 - b. Has the project been completed (Y/N): _____
 - c. If YES, date completed: _____
 - d. If NO, scheduled date of completion (or other explanation): _____

4. Entrant (ASHRAE Member with Significant Role in Project. If multiple entrants, all must be listed on this form):
 - a. Name: _____ Chapter/Membership #: _____
 - b. Address: _____

 - c. Telephone: (W) _____ (H) _____
 - d. Company: _____
 - e. Title: _____
 - f. Member's Role in Project: _____
 - g. Member's Signature: _____ Date: _____

5. Engineer of Record: _____

By affixing my signature above, I certify that the information contained in this application is accurate to the best of my knowledge. In addition, I certify that I have discussed this entry with the owner and have received permission from the owner to submit this project to the ASHRAE Technology Awards Competition.



Be our guest ... and attend this live, satellite broadcast from ASHRAE provided by Trane, a business of American Standard companies

when

Wednesday,
April 13, 2005

10:00a.m. – 1:00 p.m.

where

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SATELLITE BROADCAST/WEBCAST: MOLD IN OUR BUILDING ENVIRONMENT Wednesday, April 13, 2005

Concerns about mold in the building environment are no longer limited to just humid environments or North America. Mold is now a global concern for designers, contractors, building owners/operators and building occupants. Information on how to properly control moisture and humidity conditions in order to minimize mold will be presented in this broadcast/webcast sponsored by ASHRAE's Chapter Technology Transfer Committee (CTTC).

About the Presenters

Presenters will explore prevention of mold in new construction, methods for monitoring mold in indoor environments, detection of biological contaminants, solutions to prevent and/or alleviate mold problems and the legal issues relating to mold contamination.

PDH Credits

Earn 2 PDHs or 2 AIA Learning Units for viewing the Broadcast at a Site or the Webcast from your office.

How do you register for this event?

- Complete the form provided below.
- Contact your Trane sales office with this information.
- Registration deadline: **Wednesday, April 6, 2005**

To register: call (626) 435-1171, or fax this form to (626) 913-7153 or e-mail this information to laguilar@trane.com.

Yes! I plan to attend this Trane satellite broadcast:

Mold in our Building Environment- ASHRAE Sponsored Event

Your name _____

phone _____

e-mail _____

Your company _____

Number of attendees _____

Southern California Chapter ASHRAE 2005 SPRINGS GOLF TOURNAMENT

WEDNESDAY

MAY 11, 2005

Brookside Golf Course

Time: Sign in at 9:30 a.m.

Shotgun start at 12:30 pm.

Banquet & Dinner to follow

Limited to 120 golfers

Fees: \$135 per player

\$500 for Foursome

\$600 for Foursome and Hole Sponsor

Dinner only: \$40 per person

Texas Scramble

Awards:

Golf Awards, Door Prizes, Raffles

Company Sponsorships and Donation



Name Company Phone

1. _____
2. _____
3. _____
4. _____

Group Contact Name: _____ Phone: _____

Corporate Hole Sponsor @\$150 \$ _____

Additional Company Donation \$ _____

Totals \$ _____

Golf Chairperson: Joe Ablay Phone: (909) 843-6317 / Fax: (909) 498-0343

Please make checks payable to: Southern California ASHRAE
Send them to: Joe C. Ablay, PE
c/o Integrated Consultants, Inc.
20955 Pathfinder Road, Suite 100, Diamond Bar, CA 91765

SOUTHERN CALIFORNIA CHAPTER PROGRAM SCHEDULE

April 5, 2005: Different Location!

Location: Edison CTAC
Commercial Products Center
6090 N. Irwindale Ave
Irwindale, CA 91702

Tech Program: Tour of Refrigeration Lab
Speaker: SCE Representative

Main Program: SCE Energy Programs for 2005
Speaker: SCE Representative

May 3, 2005

Tech Program: Installation Bloopers
Speaker: Mr. Paul Wisdom, Western Allied
Main Program: To be determined
Speaker: To be determined

June 2005

Installation Dinner/Dance

WESTERN SECTION PROGRAMS

March 15, 2005

Location: Santa Barbara
Topic: To be determined

April 14, 2005

Location: Ventura
Topic: To be determined

May 10, 2005

Location: Santa Maria-Radisson Hotel
Topic: Primary Secondary/Multi-Pump Piping
Design
Speaker: Paul Goudsmit, Paco Pumps

June 14, 2005

Location: Santa Barbara
Topic: To be determined

HELP WANTED

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

JOEY JIRON,
William J. Yang & Associates:
847 N. Hollywood Way, Suite 100,
Burbank, CA. 91505
818-841-8888 Tel / 818-841-7900 Fax
e-mail: joey.jiron@wjya.net

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

SR. MECHANICAL ENGINEER

WLA office of large A/E firm has immediate HVAC engineer position for a licensed PE with minimum of 10 yrs experience in commercial design and central chilled water plants and 5 years experience in design of high reliability type buildings. Candidate will be responsible for design of critical data center HVAC systems throughout the United States. Strong written and verbal communication skills and working knowledge of AutoCad 14 required.

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**Wednesday, May 11, 2005
Brookside Golf Course**

See page 8 for details and form.

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Newsletter of the Southern California Chapter

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

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