

Sol*Air

Newsletter for the Southern California Chapter of ASHRAE
December 2012, Volume 57, No. 4

FEATURES

December Meeting 1
Tuesday, December 4th, 5:45-8:45pm
Quiet Cannon, Los Angeles

Message From the President 2
Matt's Message: Words of wisdom and other general announcements.

YEA (Young Engineers in ASHRAE) 2
Membership & Mentoring

Chapter Schedule of Program 3
Information on dates, times, locations, themes, presentations and speakers.

Mike's Monthly Maintenance 4
Some little, everyday things....for everyday specifications

ASHRAE So-Cal Volunteer Opportunities 5
Get involved with the SoCal chapter!

Ed Schmidt Golf Tournament 6
Thank you for joining us for the 5th annual Edward Schmidt Memorial Golf Tournament

ASHRAE Scholarships 7
Spread the word about these great opportunities

Student Scholarship Raffle 8
Our goal is \$2000!

Letter from editor 8
Hello everyone! Christopher Torres is the new newsletter editor!

ASHRAE Student Sponsorship and Mentorship 8
Find out how you can get involved!

And More... 9
Sol*Air Supporters 9
2012-2013 Officers, Directors, and Chairs 10

December Meeting Information

Tuesday, December 4th, 2012

Theme: "Past President Night and Research Promotion Night"

Tri-County, Orange Empire, & So Cal Joint Meeting

5:45: Social Hour

7:00: Announcements, Dinner & Raffle

7:40: Main Speaker

"The ASHRAE Building Labeling Program" by William P. Bahnfleth, Ph.D., P.E., Pennsylvania State University, ASHRAE Society President Elect

8:45: Adjourn

Location: Quiet Cannon - 901 Via San Clemente Montebello, CA 90640

Dinner Choices: Stuffed Breast of Chicken, Baked Atlantic Salmon, & Primavera Alfredo (Vegetarian Option)

Cost: \$50 for Chapter Members / \$ 55 for Non-Members / \$15 for Students

*****We would like to make a special invitation to all the Past Presidents, we will be taking a group picture during the dinner*****

Register at www.ashrae-socal.org

Don't forget your money to buy raffle tickets to support scholarships! We have some great prizes this year, check out our goal chart on page 9

December Meeting Main Program

"The ASHRAE Building Labeling Program"

William P. Bahnfleth

Ph.D., P.E., Pennsylvania State University, ASHRAE Society President Elect



- William P. "Bill" Bahnfleth, Ph.D., P.E., Fellow ASHRAE, is a professor of architectural engineering at The Pennsylvania State University, University Park, Pa.

-As the Society's president-elect, Bahnfleth is a member of the Board of Directors and the Executive Committee and chairs Members Council, the President-Elect Advisory Committee and the Advocacy Committee. -He also serves as advisor for the Pennsylvania State University Student

Branch, a member of the CLIMA 2013 advisory Committee and Building Safety and Security Position Document Committee, and is an ASHRAE Distinguished Lecturer.

-Previously served as treasurer and two terms as vice president on the Board of Directors. -He is a recipient of an Exceptional Service Award, a Distinguished Service Award, an ASHRAE Technical Paper Award and a first-place Technology Award.

-Bahnfleth was awarded Bachelor (1979) and Master (1980) of Science degrees in mechanical engineering; a Bachelor of Music (1988) and a doctorate in mechanical engineering (1989) from the University of Illinois at Urbana-Champaign.

MARK YOUR CALENDAR FOR UPCOMING EVENTS

Tue 12-04-12 / 5:45pm / December Meeting – Joint Meeting / Quiet Canyon/ Pg1

Tue 01-08-13 / 5:30pm / January Meeting / Taix French Restaurant

Sat Jan 26-30, 2013 / TBD / ASHRAE's 2013 Winter Conference / Sheraton Dallas / Pg2

Fri Jan 28-30, 2013 / TBD / 2013 AHR Expo / Winter Conference / Pg2

Tue Oct 15-18, 2013 / TBD / IAQ 2013 / Vancouver, British Columbia, Canada / Pg2

December Meeting Information

(Continued)

Presentation

The ASHRAE Building Labeling Program

Bill's presentation will provide insights into ASHRAE's Building Labeling program known as Building Energy Quotient (BEQ). This building energy labeling program lets commercial building owners zero in on opportunities to lower building operating cost and make informed decisions to increase value. BEQ's In Operation rating applies an easily understood scale to compare a commercial building's energy use with similar buildings. What makes BEQ unique is the depth of the analysis upon which the rating is based.

YEA!

Young Engineers in ASHRAE

On November 15th the SoCal Chapter hosted the second YEA happy hour of the year. We had a great turn out, with attendees from local consulting companies, equipment manufactures and even a few local university representatives. It was a great opportunity to meet new people and learn about the type of work they are doing. The next YEA happy hour will be in 2013, so keep an eye out.

We will also be hosting a YEA facility tour in 2013, so if you have any suggestions for a location please send me an email.

If you are a recent graduate looking to transfer your student level society membership to a non-student level membership, you should consider the SmartStart program. This program provides reduced membership costs for recent graduates with the benefits of a full priced membership. The first year out of college you will pay \$20 for society membership and \$50 for years two and three. The easiest way to get more details and an application form is to google ASHRAE + SmartStart.



Thanks,
Michael Hass
Michael.Hass@arup.com

MATT'S MESSAGE

WORDS OF WISDOM FROM THE PRESIDENT

As President of the Southern California Chapter, I receive a great deal of correspondence from ASHRAE Society and I want to use this opportunity to pass along to you all some of most important upcoming topics. There is a lot going on both on the local level and at the society level for ASHRAE in the next few months. I encourage everyone to get involved, ASHRAE wouldn't exist without the participation of its members.

The 2013 Winter Conference takes place Jan. 26-30 at the Sheraton Dallas. To register and for complete Conference information, visit www.ashrae.org/dallas. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run Jan. 28-30. The Expo, www.ahrexpo.com, is held at the Dallas Convention Center.

Attendees at ASHRAE's 2013 Winter Conference, taking place Jan. 26-30 at the Sheraton Dallas, will be the first to learn about the latest goings-on related to Society standards as part of the technical program. The technical program features more than 200 sessions and offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits. Among the sessions is a seminar, "Conference Breaking News on Standards 90.1, 62.1 and 189.1". Updates on the activities of the committees overseeing Standards 90.1, 62.1, and 189.1 will be shared by the committee chairs.

Effective November 8, 2012, the CEC is reopening the Energy Partnership Program and is accepting applications from eligible entities. The Energy Partnership Program provides a wide range of technical assistance to local governments and public institutions, including: Conducting energy audits, reviewing existing proposals and designs, and developing equipment performance specifications. Cities, Counties, Special Districts, Public or non-profit colleges/universities, Public or non-profit hospitals, and Public or non-profit public care facilities are all eligible for the program. Applications are available from the Energy Commission's website at: <http://www.energy.ca.gov/efficiency/partnership/index.html>

With HVAC&R systems accounting for approximately a third of water consumption in a typical office building, the need to minimize water usage is a major consideration in the built environment industry. A standard to provide

baseline requirements for the design of buildings, site and mechanical systems is being developed by ASHRAE, the American Society of Plumbing Engineers (ASPE), the American Water Works Association (AWWA) and the U.S. Green Building Council (USGBC). ASHRAE/ USGBC/ ASPE/ AWWA Standard 191P, Standard for the Efficient Use of Water in Building, Site and Mechanical Systems, is currently open for public comment from Oct. 26 until Dec. 10, 2012. To comment on the proposed standard or for more information, visit www.ashrae.org/publicreviews. The proposed standard covers HVAC&R and non-HVAC&R systems including: evaporative heat rejection, humidification systems, thermal storage, ground source pump systems, water heating systems, laboratory facilities and residential appliances. It would not apply to storm water management.

ASHRAE announces a call for abstracts for IAQ 2013, Environmental Health in Low-Energy Buildings. The conference will examine IAQ, thermal comfort, source control, air cleaning, ventilation, exposure and related environmental health concerns associated with low energy building design, construction, retrofit and operation. The conference, IAQ 2013, Environmental Health in Low-Energy Buildings, takes place Oct. 15-18, 2013, in Vancouver, British Columbia, Canada. This conference is co-organized by ISIAQ and is the 17th in the ASHRAE IAQ conference series. IAQ 2013 will review the state of knowledge of the balance of environmental health and energy efficiency in buildings and help define future education, policy and research directions. The roles of building, HVAC and passive system design and operation for achieving good environmental health in low energy buildings (both new and retrofit) are the core themes of this conference. For more detailed descriptions of each of the topic areas, visit

www.ashrae.org/iaq2013. The deadline for abstracts is Dec. 15, 2012. Abstracts, containing titles and 300 words or less summaries, should be submitted via the submission for at www.ashrae.org/IAQ2013.



Matt Church
2012-2013
President
ASHRAE
SoCal Chapter

 **Mark Your Calendars!** 

ASHRAE So Cal's 2012-2013 Schedule of Programs

December 4, 2012 (Quiet Canyon)

Theme: Past President Night

Technical Session: N/A

Main Program: The ASHRAE Building Labeling Program -- *William P. Bahnfleth, Ph.D., P.E., Pennsylvania State University, ASHRAE Society President-Elect*

January 8, 2013 (Taix)

Theme: Sustainability Night (RP)

Technical Session: The Future of Vertical, Quiet Air Design for Overhead and Underfloor Applications -- *Andy Bergman, Air Zone International*

Main Program: ASHRAE Building Energy Quotient (Benchmarking) Program or ASHRAE 189.1 -- *Kent Peterson, P2S Engineering Inc., Past President (Society)*

February 5, 2013 (Taix)

Theme: E-Week Night

Technical Session: Energy Efficient Pumping Solutions -- *Kevin Wong, Wilo USA*

Main Program: TBD -- *Devin A. Abellon, Business Development Manager - Engineering Services, Uponor Engineering*

March 5, 2013 (Proud Bird)

Theme: Women in Engineering Night

Technical Session: Facade Engineering and Sustainability -- *Karen Mozes, MS Eng, LEED AP BD+C, Principal, Green Dinosaur*

Main Program: TBD -- TBD

April 2, 2013 (Taix)

Theme: Refrigeration Night (RP)

Technical Session: TBD -- *Bill Brown, Chief Systems Engineer, ACCO Engineered Systems (TBD)*

Main Program: TBD -- *Peter Narbonne, Executive Vice President, ACCO Engineered Systems (TBD)*

May 7, 2012 (Taix)

Theme: Student Night

Technical Session: Student Activities (TBD) -- *Joe Chin, Regional SA Chair, Christine Lazo, So Cal Student Activities Chair (TBD)*

Main Program: Solar Decathlon 2013 (TBD) - *- SCI-Arc, Caltech Team (TBD)*

Mike's Monthly Maintenance

Some little, ever da thin s.... or ever da s eci ications

Last column of 2012. Time to clean out the junk drawer to cover various small things about which I've made notes this year.

First, a question: What do instantaneous water heaters and water source heat pumps have in common? And how does that relate to your piping detail for each?

Think, "cleaning". Remember that instantaneous water heaters can be used for both domestic water heating and comfort conditioning water loop heating. Particularly for domestic water heating, most O & M manuals recommend an annual removal of the scale that builds up in the heat exchanger from the heating of the city water that runs through the heater. I've learned that even in building heating applications it is needed every 3 years or so. I'll bet a lot of plumbing designers don't think about that. The manuals go on to note that if domestic water is being heated, it is necessary to use a descaling compound that is safe for use in a drinking water system. Vinegar is one of the recommended descaling solutions, although there are others. But that begs the question, how is a service tech supposed to circulate the descaling solution? The answer relates to the connecting piping, and the ball valve with a hose connection that is recommended to be installed on both the inlet and outlet piping, between the isolation valves and the heat exchanger. If there are hose connections on both lines, a technician can do two things. He can cross-connect supply water to the return side of the heat exchanger, then reverse flush the heat exchanger into a bucket, thereby physically back flushing crud out of the heat exchanger and leaving it visible in the bucket. He can also use a similar procedure with a pump and bucket to circulate the descaling solution of his choice. Many water heater manufacturers have one piece valves available specifically for this purpose and recommend their installation with the heater. I'll note again that even in a closed loop heating system application, the descaling process will be necessary every few years, and the valves with hose connection should be installed.

I hope you have leaped ahead of me to see how water source heat pumps are similar. The coaxial heat exchangers used in the heat pumps pass the water through tiny orifices. These can get plugged with very little cause. I've found that if little or no minerals are involved (rust flakes, dirt or piping debris), a simple reverse flush with enough flow and pressure will usually clean them out. But if mineral deposits are part of the obstruction (typical in an open tower application), a descaling solution is needed. Unfortunately, we seldom have these valves and generally have to add them...at a much higher cost than if they had been installed with the unit. I would consider this to be essential when a heat pump is used on an open condenser water loop, regardless of the level of strainer used. For closed loops with only copper piping you might justify not using them, but if you have a significant amount of steel piping present (risers are typically steel), the valves are likely to eventually be needed due to rust particles.

The next subject concerns a frequent cause of service calls. When ever equipment needing a condensate drain system serves multiple units (in a ceiling; on a roof; or anywhere), problems can occur for many reasons. As time passes and units get added or other work is done surrounding the units, a drain system that might originally have been OK moves further away from being OK. Eventually, problems happen. I've noticed that when TI revisions are performed, something that is almost never examined by the consultant is the existing drain system. In many cases it would be better to simply scrap the old system and run new lines....properly supported....with a union at each p-trap. And when laying out any multi-unit drain system, reflect on how such a system is to be cleaned when it gets plugged. Remember that if a central



by Mike Gallagher
mgallagher@wasocal.com

line is used with multiple branches to individual units, you can't use compressed air to blow out an individual line...the air will simply find an alternate path to escape. Since isolation valves are a dicey proposition for permitting individual line pressurization (too easy for a nitwit in the ceiling to inadvertently close it), what I've found to be most effective is unions at the major pipe branches. This lets a service tech disconnect the run that is blocked and blow backwards. If just a couple of units share a branch line, they can each be disconnected (at their p-trap union) and plugged to permit the air to be forced to the drain line that needs to be cleared.

When installing rooftop units, remember that you have two choices: downshot through a curb or side discharge with roof duct penetrations. The cheaper, noisier way is downshot on a roof curb, which also exposes the area beneath the unit to water if the unit leaks rain water or the condensate drain plugs. The slightly more expensive way is to utilize side discharge, supporting the unit on the roof and providing a separate roof penetration for the supply and return ducts adjacent to the unit. The result will be quieter and less of a water risk.

Remember that the newer replacement units are usually more efficient...and usually physically larger. If space is tight, be sure to check size,

Mike's Monthly Maintenance (Continued)

configuration and clearance. Remember, you probably have a high voltage electrical panel on the AC unit that will require a minimum amount of clearance. If you are working in a ceiling, joists will often limit that electrical panel clearance. On a roof, the parapet wall or other AC units are common causes of inadequate clearance. Unit replacements on a crowded roof or in a crowded ceiling often require some unit relocation.

Finally, here is a subject that gets no attention: exhaust fan selection. The next time you select a belt drive centrifugal exhaust fan of any type (in-line, dome exhaust, up blast, what ever), think about your standard selection method. Pick the fan. Then compare that selection to the next larger size at the same conditions. Look at the reduced brake horsepower. Then think about how many hours the fan will operate. The standard selection of yesteryear is usually not the best selection today. And you can often reproduce these results a second time if you go up two sizes. The added benefit is sound. Larger fans mean lower RPM and less noise.

Happiest of holidays. And as always, let me know if any questions.
mgallagher@wasocal.com



ATTENTION ALL SO-CAL MEMBERS!
Your chapter needs you!

ASHRAE So-Cal Volunteer Opportunities

There are many ways to help our chapter make a lasting impact on our local HVACR industry. If we chip in together, each task can be quick and easy to accomplish.

Take a look at the list below. See something that you can do? Have other ideas that you'd like to implement? Well don't delay. The time for participation is now!

All efforts will be recognized at each general meeting and on the Sol*Air newsletter. All levels of involvement are needed and appreciated.

Please contact your membership chair Christine Lazo at christine@vertisys.net to get involved. We're excited to have you join the active So-Cal ASHRAE team!

Membership Promotion

Membership Promotion Outreach

- Recruit (2) new ASHRAE members
- Include the Join ASHRAE slide in your next lunch and learn presentation

Retention Outreach/Calling Campaign

- Call (5) members to remind them to renew society and chapter membership
- Call (5) members to encourage them to renew chapter membership

Mentorship

- Sponsor and mentor (1) student membership, \$20 + mentorship
- Mentor (1) new member or YEA member
- Advise a team in the Student Design Competition – minimum 2 hrs total instruction/guidance.

Attendance and Reception

Welcome guests at the door during general meetings

Research Promotion

RP Outreach / Calling Campaign

- Outreach (5) members/companies for donation for ASHRAE research promotion

Raffle Chair

Promote Raffle ticket sales during the meetings

Raffle Prizes

- Wine
- Gift Cards
- Sport/Concert Tickets
- Time Share
- Promotional Items
- HVAC Resources
- Donations for Student Scholarships

Student Activities

- Donations of HVACR relevant books (new or used)
- Providing internships/part-time jobs for enrolled college student members
- Post student internships for FREE on ASHRAEjobs.com

YEA – Young Engineers in ASHRAE

Represent YEA in any ASHRAE committee
YEA Mentorship

- YEA member to sponsor and mentor (1) student membership, \$30 + mentorship
 - YEA member to pair with ASHRAE member for mentorship
 - YEA member to mentor a team in the Student Design Competition
- YEA member to present YEA program to Student Branches

Sol*Air Newsletter

- Newsletter Editor: Compile, edit, and publish monthly Sol*Air newsletter
- Write an HVACR related article for the Sol*Air Newsletter
- Advertise on Sol*Air

General Meeting Sponsorship

Silver, Gold, Platinum Sponsorship of a monthly general meeting

5th Biannual Ed Schmidt Memorial Golf Tournament



On November 5th at La Canada Flintridge Country Club the 5th Biannual Ed Schmidt Memorial Golf Tournament became a reality on a beautiful but very hot day. One hundred and eight members of Southern California ASHRAE, the air conditioning industry, sponsors, friends and family of Ed's, and their guests teed off to help raise money for scholarships for college students pursuing a degree in engineering. Funds for scholarships were raised by sponsorships, playing golf, buying golf balls for the helicopter drop, buying a mulligan package, joining the golfers for the dinner, and by buying raffle and auction tickets. Overall we were able to clear a surplus of over \$23000.00 all of which will go completely to the scholarship fund. Part of the surplus, \$500.00, came when Travis Sage the Principal of Green Dinosaur donated his winnings from the helicopter drop.

This year we were very fortunate to have numerous members of the industry become sponsors. Southern California Edison became a special supporter by arranging a donation of 140 sleeves of golf balls for the tournament. ACCO Engineered Systems and Trane became Platinum Sponsors. Southland Industries became a Gold Sponsor. Ferguson, Green Dinosaur, Siglers, Vertical Systems, and Western Allied became Silver Sponsors. Can Fab, Dawson Company, Dickerson and Associates, and DMG became Half Sponsors. We would especially like to thank Paul Delaney, Jeff Marrs, Patrick Bronson, Don Harrisberger, Steve Adams, Travis Sage, Mark McKee, Blair Boyce, Mike Gallagher, Bill Prosser Jr., Frank Dunn, Phil Trafton, and Ron Sweet for making the commitments for the above sponsorships.

We would also like to thank our Tee sponsors: Air Conditioning Specialties, Air Treatment, Burke Environmental, Carniglia Construction Co., Carrier, D. Burke Mechanical, Engineered Comfort Systems, Golfsmith, Graycon, Inc., KSR Associates, Mason West, M.W. Sausse Co., Inc., Norman S. Wright, Roger Dunn, Signature Sales, Steve K. Kaiser, Thermal Air Co. Inc., TK1SC, USACD, Weil Aquatronics, Western Allied, and Yorba Linda Friends.

We would also like to thank our special friends who donated our raffle and auction prizes: Aaron Deutch, B. J. 's Restaurant, Braemar Country Club, Chris MacKnight of South Coast Water, Corner Bakery Café, Frank Salas Photography, Hotel Casa Del Mar, In-N-Out Burger, La Canada Flintridge Country Club, Los Angeles Dodgers, Martin Roberts Fine Art, Nirvana Grill, Pacific Symphony, Rubicon Theatre Company, Santa Anita Park, Sawdust Festival, South Coast Repertory, Terranea Resort, The Balboa Bay Club and Resort, The Laguna Playhouse, The Schmidt/Goodwin Family, The Smith Family, Windward Sailing Club, Antonello Restaurant, April Trafton, Frankie's Italian Kitchen, and Ron Bradford of Signature Sales.

The results of the golf tournament are as follows:

1st Place Gross- Mike Page, Dan Boute, John Esparza, and Jorge Sanchez
2nd Place Gross- Jerry Conklin, Sean Oblenis, Stefan Long
1st Place Net- Brian James, Lory Larson, Paul Delaney, Michael Ursem
2nd Place Net- Mike Crane, Bob Curran, Mark Suzda, Darrin Cuneo
Closest to the Pins- Alex Doyle #1, Don La Marr #7, Stefan Long #11
Longest Drives- Mark Suzda #5, Sue Clineff #12
Putting Contest- Richard Rivera

The committee that made this happened was:

Co-Chairman – Joey Jiron
Co-Chairman- Don La Marr
Registration and Raffle- Linda Schmidt
Raffle and Recruiting- Phil Trafton
Raffle prizes- Chris MacKnight

Again thanks to all and may the scholarship committee, under the leadership of Clay Lampman make us all proud with their selections of students for scholarship awards as they have in the past years. We would like to thank the non-committee volunteers, Christine Cloutier, Victoria Schmidt, Christine Lazo, and Jeff Hui who gave their whole day to make this a successful event.

For further information, contact Joey Jiron at joeyjiron@aol.com



ASHRAE Scholarships 2013-14

Integrated design is changing the way buildings are designed, constructed and operated; different professionals each bring an important element to the table that results in a successful, sustainable building. Education is no different: Students bring the ambition, ASHRAE offers the financial support, and together they create an educational degree that will lay the foundation for a sustainable career.

Please help ASHRAE promote the availability of more than 20 Society scholarships for the 2013–2014 school year, available to high school seniors entering college through senior undergraduate engineering students.

Two High School Senior Scholarships—\$3,000 each

Three Engineering Technology Scholarships—\$3,000 each

Six Regional and University-Specific Scholarships—\$3,000–\$5,000 each

11 Undergraduate Engineering Scholarships—\$3,000–\$10,000 each



“The support the scholarship provides has relieved an enormous worry about the cost of tuition. The Willis H. Carrier Scholarship has solidified my involvement in ASHRAE and motivated me to work hard to complete my degree so that I can contribute as much to the HVAC&R industry as Willis H. Carrier has.”

-Patrick McGrail, 2012-2013 recipient of the Willis H. Carrier Scholarship, secretary of the ASHRAE Kansas State Student Branch

Annual Application Deadlines:

December 1 for Undergraduate Engineering, Regional and University-specific Scholarships.

May 1 for Engineering Technology and High School Senior Scholarships.

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For a list of available scholarships, complete eligibility requirements, and an application, visit www.ashrae.org/scholarships

Get Your Ad in BOTH Sol*Air *and* the Chapter Website!

Job Postings: \$200 per half page

Business Cards: \$200 per year / \$50 per month

Contact: Christopher Torres

solair.editor@gmail.com



ASHRAE STUDENT SPONSORSHIP & MENTORSHIP

By Christine Lazo

Do you remember long nights of studying, endless exams, and bowls and bowls of ramen as a student? For some of you it may have been long ago. For a YEA member it may feel like yesterday. Even as a working student, every single penny counted during that time.



Several of our local college students have indicated financial hardship in paying for their ASHRAE dues this year. So the active body is reaching out to you, the ASHRAE community, to help keep our future HVACR associates strong and involved.

You as an active ASHRAE member have the power to make a difference in these student's career paths. \$30 will sponsor an ASHRAE student's membership as well as team you and that student as a mentor/mentee pair. Help a college student eliminate economic boundaries and turn "I can't" into "I can."

Please contact the Student Activities Chair, Christine Young, at christine.young@dmghvac.com for details.

ASHRAE RESOURCE
PROMOTION

To make a contribution, please visit:
www.ashrae.org/contribute

LETTER FROM THE EDITOR

Christopher Torres

Hello everyone! My name is Christopher Torres and I will be your new newsletter editor! I am very excited to meet everyone at the December meeting.

Thanks to everyone who contributed to Sol*Air this month! We are always looking for more articles and ways to improve the newsletter. If you would like to contribute to Sol*Air, please e-mail your articles, photos, suggestions to: solair.editor@gmail.com



2012-'13 STUDENT SCHOLARSHIP RAFFLE

Sept > 175
Oct > 80
Nov > 120

Total: 375
Goal: 2000

\$2,000



\$1,500

\$1,000

\$500

\$ 120 > Nov

\$ 80 > Oct

\$ 175 > Sept

Adapted by Christiana Roberts © 2011

Sol* Air Supporters

Thank You!



DAWSON CO.
YOUR FLUID TECHNOLOGY RESOURCE
IN BUSINESS SINCE 1948
WWW.DAWSONCO.COM

FRANK DUNN TEL. 626-797-9710
EXECUTIVE FAX. 626-798-4659
VICE PRESIDENT EMAIL: FDUNN@DAWSONCO.COM

1581 W. SECOND ST.
POMONA, CA 91766



Sales & Service
Manufacturers Representative

STATE LICENSE NUMBER 401293

(714) 905-9718 Mobile
(714) 897-1036 Office
(714) 894-7586 Fax
Scott.Neithercut@dbsales.net

SCOTT J. NEITHERCUT
SALES ENGINEER

11582 MARKON DRIVE, GARDEN GROVE, CA. 92841
WWW.DBSALES.NET



WESTERN ALLIED CORPORATION

P.O. Box 3628
12046 Florence Avenue
Santa Fe Springs, CA 90670

Chad Herrick P.E., LEED AP
cherrick@wasocal.com
Contractors #198821

tel 562-944-6341, x205
fax 562-944-7092
cell 562-650-1090

RE	AERCO.....	UNFIRED WATER HEATERS AND HIGH EFFICIENCY CONDENSING BOILERS.
EP	APCO.....	SILENT CHECK VALVES, AIR VALVES
R	BELL & BOBBETT.....	HYDRONICS, PUMPS AND HEAT EXCHANGERS
E	DOMLINE.....	PACKAGED WATER HEATERS AND TANKS
S	DOMESTIC PUMP.....	CONDENSATE HANDLING EQUIPMENT
E	BOULDS B&L.....	WASTE WATER PUMPS & ACCESSORIES
N	DRISWOLD CONTROLS.....	PRESSURE INDEPENDENT AND BALANCE VALVES
T	HOFFMAN SPECIALTY.....	STEAM & HOT WATER SPECIALTIES
I	MC DONNELL & MILLER.....	LEVEL, FLOW AND SAFETY CONTROLS
N	METRAFLEX.....	EXPANSION LOOPS & EXPANSION JOINTS
G	PETE'S PLUG.....	TEMPERATURE-PRESSURE TEST STATIONS
	RAYPAK.....	WATER HEATERS, BOILERS AND TANKS
	REFRIGERATION RESEARCH.....	REFRIGERATION PIPING SPECIALTIES
	SLANT FIN.....	FINNED TUBE RADIATION & BOILERS
	SQUARE D.....	VARIABLE FREQUENCY DRIVES, SOFT START/DIODE CONNECTS, SAFETY DISCONNECT SWITCHES
	WESSELS.....	FILTRATION SYSTEMS AND PRESSURE VESSELS



WESTERN ALLIED CORPORATION

P.O. Box 3628
12046 Florence Avenue
Santa Fe Springs, CA 90670

Mike Gallagher P.E.
mgallagher@wasocal.com
Contractors #198821

tel 562-944-6341, x250
fax 562-944-7092
cell 562-650-1064

E-mail: dmckinney@burkeenvironmental.net

BURKE BURKE BURKE BURKE BURKE BURKE

David McKinney
Director of Sales

BURKE ENVIRONMENTAL LLC
Air Filtration Products and Purification Systems
12839 Chadron Avenue Hawthorne, CA 90250
PHONE: (310) 220-2283 • FAX: (310) 671-1467
CELL: (310) 293-3760
www.burkeenvironmental.net



BRUCE LASKEN

Phone: (626) 333-9942
Fax: (626) 855-4811
Cell Phone: (626) 991-9163
Ext. 5413
blasken@elmcoduddy.com

15070 Proctor Ave.
City of Industry
California 91746
www.elmcoduddy.com



weil aquatronics
Engineered Pumps and Hydronic Equipment

JIM WEIL

800.747-8677
818.244-5582
619.233-1716 San Diego
702.388-7300 Las Vegas
818.247-0083 Fax

115 E. Palmer Ave.
Glendale, CA 91205-3186
jim@weilaquatronics.com
Cell: 714.679-9514
www.weilaquatronics.com

Bob Franco
New Business Development
CSLB #665136

LUVATA

Luvata ElectroFin, Inc.
27633 Commerce Center Drive
Temecula, California 92590-2521

951 699 8528 ext 302
951 587 9738 Fax
866 488 0217 Toll Free
903 316 5324 Mobile

bob.franco@luvata.com
www.luvata.com/electrofin

Coil & Cabinet Coating Services

Toro Aire
HVAC engineered products
fans • dampers • air distribution • terminal units • sound control

VICTOR PETRING
Direct Line: (714) 939-9501 Ext. 152

(714) 939-9500 Phone
(714) 939-9800 Fax
victor@toroaire.com

1654 S. Lewis Street
Anaheim, CA 92805
www.toroaire.com

AIR CONDITIONING SPECIALTIES COMPANY

RALPH PANTING
rpanting@acspecialties.com

(562) 694-8543
(714) 738-7711
850 East La Habra Blvd. • La Habra, California 90631
www.acspecialties.com

FAX (562) 697-6296



weil aquatronics
Engineered Pumps and Hydronic Equipment

BOB BRENNAN

800.747-8677
818.244-5582
619.233-1716 San Diego
702.388-7300 Las Vegas
818.247-0083 Fax

115 E. Palmer Ave.
Glendale, CA 91205-3186
bob@weilaquatronics.com
www.weilaquatronics.com

Title 24 Data Corp
www.title24data.com title24@frazmtn.com
800-237-8824 FAX 661-245-6374

Dennis A. McClain
President, Certified Energy Plan Checker
633 Monterey Trail (P.O. Box 2199)
Frazier Park, CA 93225-2199

TEM TOTAL ENVIRONMENTAL MANAGEMENT, INC.
Portable Cooling Division

JIM HINDMAN
SALES MANAGER

24 Hr. Toll Free: 800-876-0096 Cell: 562-755-9797
E-mail: jimh@temcool.com Office: 714-678-3300
1415 N. Burton Place, Anaheim, CA 92806

EMERGENCY COOLING

Donald F. Dickerson Associates
— consulting engineers

Phillip M. Trafton, CPD, LEED AP
Principal

(818) 385-3600
(310) 277-1865
FAX (818) 990-1669
pmtrafton@dfdsa1.com

6840 Hayvenhurst Avenue
Second Floor
Van Nuys, California 91406

Honeywell

Hamid Yazdchi
Western Regional Sales Manager
Commercial Business Unit

Honeywell Analytics
Honeywell
405 Barclay Blvd
Lincolnshire, IL 60069
847-955-4028
818-832-6600 Fax
818-462-1532 Cell

www.honeywellanalytics.com
hamid.yazdchi@honeywell.com

SPECIFICATIONS

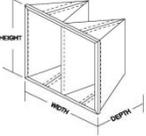
- OSA MIST MOISTURE SEPARATOR
- HIGH PERFORMANCE SYNTHETIC MEDIA - ANTIMICROBIAL TREATED
- MEDIA IS BONDED TO THE ENTIRE PERIPHERY OF THE HEADER ELIMINATING AIR BYPASS
- MERV 8 - ASHRAE 52.2 (E2)
- EFFICIENCY 90% - ASHRAE 52.1
- RESISTANCE 90% - ASHRAE 52.1
- INITIAL PRESSURE DROP - @ 1 W.G. (E20)
- UL CLASS 2

NOTE:
Actual Depth 1"
SprayClean Media
Header: 316 Galvanized Steel
Header: Available Stainless Steel
(P.O. #100 078)

CALIFILTER
45390 Control Monitor
Temecula, CA 92590

CALIFOG CALIFILTER

OSA AIR FILTER MIST/MOISTURE SEPARATOR
PLUS MERV 8 EFFICIENCY
Contact Email: service@weilcorp.com
Office: 951.302.9030



CAPTIVEAIRE
Commercial Kitchen Ventilation

Brian Neesan E.I.T.
Regional Manager - Los Angeles Office

1123 Washington Ave., Santa Monica, CA 90403
phone: 310.876.8505 • fax: 919.747.5639
tech service: 866.784.6900
email: brian.neesan@captiveaire.com
www.captiveaire.com

Sol*Air is published by the Southern California Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Los Angeles. *Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission of the Chapter.*

2012-2013 Board of Governors and chairs

Position	Full Name	Email
Officers		
Chapter President	Matthew R Church	matt.church@dmghvac.com
Chapter President Elect	Scott J Neithercut	scott.neithercut@dbsales.net
Chapter Secretary	Edwin Hornquist	edwin.hornquist@sce.com
Chapter Treasurer	Christine C Cloutier	christine.cloutier@hdrinc.com
Director-Past-President	Jeff Landreth	jlandreth@greendinosaur.com
Membership and Attendance		
Director Membership and Reception	Michael D Hass	michael.hass@arup.com
Chapter Membership Promotion Chair	Ma'ayan Karl BenNaim	maayan.bennaim@jci.com
Chapter Membership Promotion Co-Chair	Christine M Lazo	christine@vertisys.net
Chapter Attendance and Reception	Jim D Toda	todajam@yahoo.com
Chapter Attendance and Reception Co-Chair	Saman Halabian	shalabian@syska.com
Resource Promotion Chair	Jackson Beauchamp	jackson@vertisys.net
Chapter Raffle Chair	Aaron Deutsch	aaron@drymaxxair.com
Chapter Raffle Co-Chair	Michael Hass	michael.hass@arup.com
Student and Misc. Activities		
Director Student and Other Activities	Christine M Lazo	christine@vertisys.net
Chapter Student Activities Chair	Christine A Young	christine.young@dmghvac.com
Chapter E-Week Chair	Christine A Young	christine.young@dmghvac.com
Chapter YEA	Michael D Hass	michael.hass@arup.com
Chapter Historian	Clay Lampman	cala_eng@earthlink.net
Chapter Coordination Chair (BOMA, USGBC,etc)	Dave Carson	dave.carson@dmghvac.com
Public Relations and Correspondence		
Director Public Relations and Golf Events	Jay A Madden	maddenjay@sbcglobal.net
Newsletter Editor	Christopher Torres	chtorres@calpoly.edu
Website	Karine Leblanc	k.leblanc@us-ac.com
Golf	Joey Jiron	joeyjiron@aol.com
Golf	Omar Chamma	ochamma@trane.com
Technical Activities		
Director Chapter Technical Transfer	Andrew Reilman, PE	areilman@syska.com
CTTC Co-Chair	Howard Ho	hho@syska.com
Chapter Seminars	Salman Ilyas	salman.ilyas@arup.com
Chapter Refrigeration	Jay A Madden	maddenjay@sbcglobal.net
Chapter Technology Awards	Ricson Chude	ricson.chude@sce.com
Chapter Sustainability Chair	Luke McGuire	lmcguire@syska.com
Standing Committees and Chairs		
Roster Chair	Jeff Landreth	jlandreth@greendinosaur.com
Scholarship Co-Chair / Audit	Ishtiaq Chisti	ishtiaq.chisti@sce.com
Scholarship Co-Chair / Awards	Clay Lampman	cala_eng@earthlink.net
Scholarship Investment Fund / Audit / Awards	Phil Trafton	pmtrafton@dfda1.com
Budget and Audit Co-Chair	Don LaMarr	
Executive Secretary	Sue Colvin	suecolvin@sbcglobal.net

