

CSHE



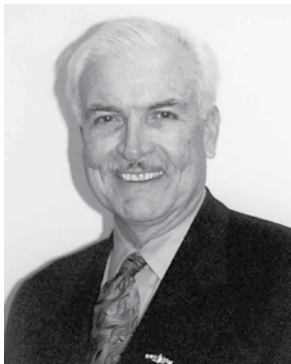
Engineering News

CALIFORNIA SOCIETY FOR HEALTHCARE ENGINEERING, INC.

JUNE 2010

VOL. 39 NO. 2

Humidification in Operating Rooms



*Tony Moddesette
Past President CSHE
Member Hospital Building Safety Board*

New requirements will soon be enacted which will effect humidity levels on surgical site infections, patient outcomes, and comfort in the context of OR design parameters and implications for clinicians. Although these requirements will not appear in the building code until

July, 2012, the Office of Statewide Health Planning and Development (OSHPD) will soon issue a Policy Intent Notice to allow for an immediate alternate method of compliance. These changes have come from years of concentrated efforts by the Hospital Building Safety Board (HBSB). The history for these changes started several years ago.

For years California hospital engineers have been struggling with humidifiers. Most often the humidifiers were of no practical use and were permanently turned off.

In 2005, changes in OSHPD, Facility Development Division (FDD) leadership produced a more cooperative and collaborative environment. The HBSB with CSHE member representation began lobbying to review the humidity requirements of the California Building Code (CBC). California hospitals were spending millions of dollars installing humidifiers that were never used.

During that time, with the assistance of CSHE, we started gathering humidity data from hospitals statewide. We also began researching the basis of the code required relative humidity (Rh) limits. It soon became apparent that the Rh levels were based upon environmental concerns and procedures that were no longer valid. Static electricity concerns with anesthesia gases and infectious risks issues were no longer a concern.

In 2007, the HBSB established an Ad Hoc Committee chaired by Tony Moddesette to pursue recommendations to modify the code. Communication with various elements of National Fire Protection Association (NFPA); and American Society of Heating Refrigerating, and Air Condi-

Humidification *continued on page 3*

CSHE Receives ASHE Platinum Chapter Affiliation Award!!



*Patrick Silvestri
CSHE Vice President*

Congratulations to CSHE for receiving the highest award from the American Society Healthcare Engineering (ASHE). This is the first time that CSHE has received this award since its inception in 2004. CSHE

has received Gold, but never Platinum.

To be eligible for this highest of awards there are several stringent requirements. In some cases CSHE not only met the requirements, but “doubled” the required element. We provided “double” the educational programs and “double” the communications. This says volumes about CSHE and meeting our primary goal of providing educational opportunities for our membership.

ASHE also provides these same important elements, but on a more “global” level. It is important to know that ASHE is an important partner with CSHE and more members need to be involved in both organizations. The value of networking both on the websites and in person provides valuable information for all of us so we can do our jobs more effectively.

Very special thanks to all involved, statewide chapter officers, State Board of Directors, and the Board’s Executive Committee. However, as we all know the people that really made this happen were Marty Schoonderwoerd, CSHE State President, Roger Richter, CSHE Executive Director, and last but not least Joyce Jones our program manager.



*Martin
Schoonderwoerd,
CHFM, SASHE
CSHE State President*

About 12 years ago, I made the mistake of missing a chapter meeting when elections were being held. As often happens when you are absent from a key meeting, you are nominated for a position, and Dave McIntosh, CSHE San Diego Chapter President nominated me for chapter vice president for the election. Dave shared that tidbit with me later, but I decided, "Why not give it a try?"

That unplanned event has developed over the years into something that I never anticipated. It has helped my career, opened doors, and helped me make contacts that have brought great benefit to me, my hospital, and my hospital system. I soon found out that by getting involved in my professional society, it brought far more benefits than the demands and time commitments it required. With the ever-increasing knowledge I gained about my chosen healthcare profession, I continued to run for offices in CSHE and in ASHE. In hindsight, missing that chapter meeting many years ago was perhaps the most influential event in my healthcare career (not that I endorse missing

chapter meetings...). I have since thanked Dave McIntosh for that nudge needed to get me involved.

The best advice I can give anyone in a healthcare management or leadership position is to get involved in your CSHE chapter and join ASHE. The time demands are really not that great and the benefits received make it all worthwhile. In retrospect, you will be amazed at how much you have grown in your profession. Your involvement as a leader in CSHE and ASHE, including taking advantage of the varied educational opportunities, is an investment in your future and can help you earn certifications such as the ASHE Certified Healthcare Facility Manager (CHFM) and the Mechanic

Evaluation and Certification for Healthcare (MECH) CHM (Certified Healthcare Mechanic). That professional growth can help open doors to promotions and better jobs. CSHE and ASHE exist for the members and are run by the members. None of us have all the answers, but knowing who you can call to help find those answers and solve a problem or compliance issue gives you an advantage. The networking connections I have obtained from leadership roles in CSHE and ASHE by mere exposure alone is mind-boggling when I look back.

Do yourself a favor – get involved. Run for chapter officer. Volunteer for committees. You will be glad you did. Thanks again, Dave.

CSHE 40th Annual Institute

The CSHE 40th Annual Institute will be held, April 20-21, 2011 at the Hyatt Regency Embarcadero, San Francisco with a welcome reception on Wednesday, April 20. Thursday will feature management and technical educational sessions and a vendor show. The annual banquet will be held Thursday evening aboard the Hornblower with an evening cruise in San Francisco Bay. The committee is planning regulatory and legislative sessions on Friday concluding at 12:30 p.m. Mark your calendar and plan to join your friends and colleagues in San Francisco.

The CSHE Newsletter is published quarterly. The advertising closing date for the September issue will be August 12, 2010.

For advertising requirements and information, contact CSHE at (916) 552-7639 Fax: (916) 552-7617.

Martin Schoonderwoerd, CSHE State President; Roger Richter, Executive Director; Joyce Jones, CSHE Program Manager; Teri Frost, CSHE Database Administrator; Lezlee Willems, graphic designer.

tioning Engineers (ASHRAE) indicated that there was no or very limited data to support the current code. Research suggested that code values were more comfort related than safety or clinical.

Safety issues concerning surgical fires or medical equipment from static electrical discharges were researched and it was determined that with the current design and construction that gases used were no longer a valid concern.

Infectious Control concerns were researched. Latest data suggested that Rh above 60% was a significant risk for infection, but Rh less than 30% was not a valid clinical risk but more of a comfort issue.

Jon Rosenberg, M.D. from the California Department of Health Services and Marguerite Jackson, RN, Ph.D., a HBSB

public member from the University of California, San Diego conducted research of the latest published data and determined that Rh <30% did not present an increase in the risk of infection to the patient. They prepared a white paper documenting their findings, and opinions, which was presented to the HBSB Ad Hoc Committee.

The California Hospital Association (CHA) contacted Centers for Medicare and Medicaid Services (CMS) to inquire if a change to the CBC lowering the Rh values would be supported by CMS. CMS response they would follow national recognized guidelines and code, not state established code. This response by CMS effectively stopped the HBSB's effort to modify the CBC.

In November 2008, the HBSB Ad Hoc Committee sent a request to the Centers for Diseases Control (CDC); Depart-

ment of Energy (DOE); American Society for Healthcare Engineering (ASHE), Association for Professionals in Infection Control and Epidemiology, Inc. (APIC) and ASHRAE that they undertake a joint research to determine the proper limits for humidity levels in hospitals.

ASHRAE agreed and established a working group with members from ASHE, APIC, University of Minnesota, ASHRAE and HBSB Ad Hoc Committee. The working group conducted due diligence and submitted proposed change requests to ASHRAE Council. As a direct result of the group's efforts they recommended to change the ASHRAE Standard 170-2008 humidity requirements to a minimum of 20% for short stay rooms.

The ASHRAE Council approved the changes in April 2010.



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OSHPD Takes Steps to Address Project Delays

Roger Richter

CHA, Sr. V.P. Professional Services

CSHE Executive Director

Due to the mandated state furloughs and hiring freezes, the Office of State-wide Health Planning and Development (OSHPD) has once again been experiencing delays in plan review and area compliance activities. OSHPD staff are hopeful these delays will be minimized once the furloughs end in July. In the meantime, effective this week, OSHPD has announced two activities to assist in minimizing project delays:

Establishment of Rapid Review Unit

New projects submitted to the Sacramento Office with an estimated construction cost of \$100,000 or less may be eligible for Rapid Review Unit processing.

For the purpose of determining Rapid Review Unit eligibility, the estimated construction cost excludes imaging equipment costs, design fees, inspection fees, offsite improvements, and fixed equipment costs, including but not limited to sterilizers, chillers, and boilers.

Additional information on the program can be found on the OSHPD website at: www.oshpd.ca.gov/FDD/Plan_Review/rapid_review.html, or by contacting Diana Acosta, Supervisor, Rapid Review Unit, at 916-440-8440 or dacosta@oshpd.ca.gov.

Changes in Regional Assignments

Changes in OSHPD region staffing have occurred to ensure more efficient use of resources. Effective June 1, counties within

the mid-state region have been transferred to the Central and North Los Angeles regions. Three counties in the Central region have been transferred to the North region. A map of the new regions is available at: www.oshpd.ca.gov/FDD/Plan_Review/Regions.html. A complete directory of OSHPD staff in each region is available at: www.oshpd.ca.gov/FDD/About_Us/Contact_Us/FDD-PhoneList.pdf.

oshpd.ca.gov/FDD/Plan_Review/Regions.html. A complete directory of OSHPD staff in each region is available at: www.oshpd.ca.gov/FDD/About_Us/Contact_Us/FDD-PhoneList.pdf.



American Society for Healthcare Engineering
of the American Hospital Association

ASHE Annual Conference

The ASHE Annual Conference & Technical Exhibition will be held on July 11-14, 2010 in Tampa, Florida.

Registration materials may be obtained at www.ashe.org.

FOURTH ANNUAL NORTHERN CALIFORNIA SEMINAR

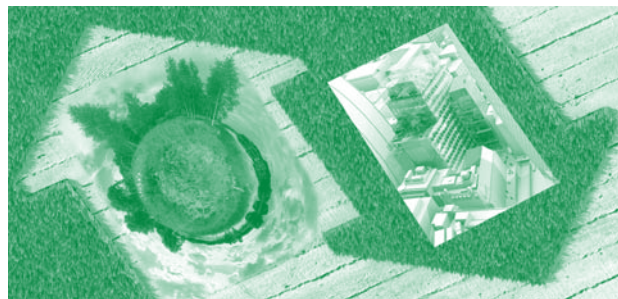


California Society for Healthcare Engineering, Inc.

“Going Green: Concept Versus Reality”

Thursday, October 28, 2010

8:00 a.m. – 3:30 p.m.



Crowne Plaza Hotel – Concord

45 John Glen Drive, Concord, CA 94520

Toll Free: 877-276-4600 • Fax: 925-689-5326 • www.crowneplaza.com

Stay after the Seminar for Golf at the Buchanan Field 9-Hole Executive Golf Course

ASHE Region 9 Representative

2010 CSHE Board of Directors

In July, ASHE will announce that they have opened the electronic voting for election of Region 9 representative. The states within Region 9 are California, Nevada, Utah and Arizona. The ballot for Region 9 will have two candidates for this two year office. One of the two candidates is from California – Ken Gomes, CHFM, the other is from Utah. The CSHE Board of Directors has endorsed **Ken Gomes**, CHFM, Assistant Vice President at Emanuel Medical Center in Turlock for ASHE Region 9 Representative. Ken is a past CSHE Board member and was the ASHE Emerging Leader in 2006. Please

join us in supporting **Ken Gomes for ASHE Region 9 representative.**

Voting will be open to all ASHE members at the conference in Tampa, Florida. If you are not a current ASHE member but attending the conference, your registration fee includes a year's membership and will allow you to vote at the conference. Ask at the ASHE booth about the computers available for members to vote.

On-line voting will open in mid-July. ASHE members can vote online after the announcement that the election is open. Voting will be open for approximately three weeks, to vote log into ASHE at www.ashe.org with your ASHE membership number.



Ken Gomes for ASHE Region 9!!



Sutter Tracy Community Hospital is a full service hospital located in Tracy, CA.

Tracy is a thriving community with affordable housing and is situated just 60 minutes east of San Francisco. We are conveniently located near the Sierra Nevada mountain range, Yosemite National Park, and California's river delta. We are currently seeking a full-time:

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Qualifications:

- An Associate Degree in Mechanical or Electrical Engineering, or equivalent education and experience of 5+ years in managerial position.
- 5 years healthcare engineering experience with 2 years supervisory experience.
- Knowledge of practices used in building operation and maintenance, including life safety codes and building codes applicable to healthcare facilities. (TJC, Title 22, NFPA, UBC, UPC)

Skills/Experience:

- Computer literate: word processing, spreadsheets, database management, and windows based computer maintenance management systems preferred.
- Must be able to interpret schematic drawings, blueprints, diagrams, operational and equipment descriptions and specifications.
- Ability to read, write, hear, and verbally communicate in English to the degree required by the job.

- Demonstrated ability to estimate labor and material cost for budgetary, operational and timely job completion.
- Must be able to travel in and out of Stanislaus County, including transcontinental travel.
- Must possess a valid California Driver's License, and proof of liability insurance.
- Must demonstrate excellent written/verbal interpersonal communication and problem solving skills.
- Ability to manage own time and schedule own tasks. Must have initiative to work efficiently, without constant supervision and direction.

We have a reputation for excellent patient care and a high level of job satisfaction amongst our employees. We offer competitive salaries, comprehensive benefits, good employment incentives and a wonderful quality of life. Please send your resume to GrijalGF@sutterhealth.org, or visit our website at www.suttertracy.org. EOE

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McQuay and Daikin, with the intent of accelerating development of new, innovative, highly reliable and energy-saving HVAC systems for the global market. These technologies, products and services are accessible at the company's interactive showroom and training facility in Jersey City, N.J. – the Daikin McQuay Solutions Plaza.

As a core value, McQuay values environmental stewardship and employs sustainable manufacturing practices within its facilities. The company has achieved ISO 14001:2004 certification in its Owatonna and Faribault, M.N. manufacturing facilities.

McQuay products and services are provided through a worldwide network of dedicated sales and service offices. For more information or the name of your local McQuay representative, call 800-432-1342, or visit www.mcquay.com.



Hilti in Healthcare

Hilti offers customers in the Healthcare industry resources and a total system solution approach to assist engineers, architects, general contractors, facilities maintenance superintendents, as well as mechanical, electrical, telecom and interior finishing contractors working in Healthcare applications.

Dust and Noise Control

Hilti HEPA vacuums and clean tools minimize dust caused by construction activities. Hilti offers a range of power tools, vacuums, insert tools and accessories to significantly reduce dust emis-

sions produced by work where large volumes of dust are generated.

Firestop Systems

Hilti provides products and services to help you with barrier management. These products include sealants, sprays and mortar, cast-in and sleeve devices, collars, wrap strips, putty pads and sticks, as well as boards, plugs and blocks. Independent Professional Hilti Accredited Firestop Specialty Contractors (HAFSCs) are a valuable option to Healthcare professionals to help ensure proper installation and facility code compliance.

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Hilti MI/MQ Strut Systems are used to support surgical lighting, medical equipment, x-ray, patient lifts, toilet

partitions and other suspended equipment to provide a flexible, efficient and upgradable solution for overhead medical equipment versus traditional red-iron supports. Hilti also provides anchoring solutions to meet the latest codes and approvals.

Cable Management

Hilti cable management solutions increase contractors' productivity in premise wire electrical installations, as well as reduce issues in future cable installations by isolating cables in an orderly fashion.

Visit www.us.hilti.com for more details on how Hilti serves the Healthcare industry. To contact a Hilti representative, in the U.S. call: 800-879-8000 (in Spanish: 800-879-5000).

CSHE 39th Annual Institute in Newport Beach Exceeds Expectations!



*Joseph Henry,
2010 CSHE
Annual Institute
Chair,
CSHE Orange
County Chapter
President*

The 2010 CSHE Annual Institute was held at the luxurious Fairmont-Newport Beach in April. The institute was considered to be a huge success, and exceeded expectations, with over 300 attendees, and a sold out vendor fair, which celebrated the newest products and services. A great deal of this year's success can be attributed to our speakers, sponsors and vendors. We appreciate you!

Among the most popular of this year's Management Tracks were "OSHPD Regulatory Update" and "Standardized Emergency Codes in California." A popular Technical Track was "Proper Care and Feeding of Your Diesel Powered Emergency Generator." Friday educational sessions were highlighted by a multi-agency accreditation panel discussion; and a marquee session with George Mills from The Joint Commission, who received high praise for his presentation.

The annual banquet was held at the Marconi Automotive Museum in Tustin. The night was filled with good food, good friends, and a showroom full of the most expensive cars and motorcycles on the planet.

Jeff Hankin (not in attendance) and Chuck Peek received CSHE Outstanding Member Awards and Dan James was awarded the CSHE Distinguished Member Award. Congratulations to Jeff, Chuck and Dan!

The CSHE Board of Directors and institute planning committee wish to thank all of the volunteers for their support and contributions to the tremendous success of this institute.

Mark your calendars and join your friends and colleagues when CSHE celebrates their 40th annual institute at the Hyatt Regency Embarcadero in San Francisco, April 20-22, 2011.

Photos from the CSHE 39th Annual Institute can be viewed on the home page of the website at www.cshe.org. Many thanks to Rick Barker, CSHE Redwood Chapter President AND photographer extraordinaire.



Ken Gomes presenting 2009 Outstanding Member Award to Chuck Peek.



Tony Moddesette presenting 2009 Distinguished Member Award to Dan James.



CSHE State President Martin Schoonderwoerd and his wife, Vicki take a ride!

CSHE Second Annual Institute Golf Tournament • Newport Beach

Chuck Peek
Institute Golf Tournament Chair
President Central Valley Chapter

Once again, we have had a successful golf tournament in conjunction with the 39th annual institute. This year's event was held at the Oak Creek Golf Course in Irvine, CA a short drive from the Fairmont Hotel, which was the central location for the institute.

Facility engineers and sponsors enjoyed a wonderful day with great weather, delightful lunch and the joy of the afternoon on the green(s). Everyone seemed to be very pleased with the golf course for this year.

We would like to thank the following tournament sponsors for their generous support:

- Coast Environmental, Inc.
- Carsten's Yearly Analysis
- Day Construction Company
- Prime Healthcare Services
- Healthcare Security Services (HSS)
- Har-Bro, Inc.

Winners from this year's tournament are as follows:

1st place

Dennis Boyd, John Babb, Bruce Peterson and Ron Wilson — Score: 60

2nd place

Mike Cooper, Chuck Peek, Glenn Greene, and Brandon Greene — Score: 61

Most Honest Team

Trudi Lim, Eril Johnson, Ray Long and Brian Oliver — Score: a lot

Long Drive

Dean Sobcoviak, second year on a round

Closet to the pin

Mark McQuaid

50/50 winners

Sam Garkovich and Chuck Peek

We had a great time this year! Mark your calendar and join us at the Presidio Golf Course in San Francisco, April 20, 2011 at the CSHE 40th Annual Institute.

Till then, hit'm straight!



CSHE Kings River/Central Valley Joint Educational Conference

Bruce Peterson
CSHE Past President
CSHE Kings River Vice President

Success for the Central California CSHE Seminar! The Kings River/Central Valley Chapters Joint Educational Conference which was held on March 9, 2010 at the University of California San Francisco (UCSF) Medical School Auditorium on the campus of Community Regional Medical Center in Fresno, California. Approximately 75 members and guests from throughout the State attended.



UCSF auditorium.

This was the first CSHE Regional Educational Conference held in Central California in many, many years and had been a goal since Bruce Peterson, Sierra View District Hospital, was CSHE State Chair. According to Bruce, current CSHE Kings River Chapter Vice President said, “this conference has been a long-time coming and hopefully will continue in the future to serve the facilities throughout Central California.” Chuck Peek, Emanuel Medical Center and current CSHE Central Valley Chapter President said, “Outstanding job – kudos!”

Curt Douglas of the California Hospital Association (CHA) spoke on Hospital Incident Command System Structure and Operations. Mr. Douglas condensed the four plus hour training for this event. Mr. Douglas is available to present the training at your facility, which is a worthwhile program for all hospitals!

Cameron Bruce, Cameron Bruce & Associates, spoke on Joint Commission 2010 Standards and Survey Processes, and specific

changes to Physical Environment Standards. Cameron Bruce & Associates services are available on a contractual basis.



L/R Cameron Bruce, Bruce Peterson, Curt Douglas.

Bruce Peterson presided over the conference and served as master of ceremonies. Sponsorship for the event provided for the facilities, lunch, and gifts for the speakers. The committee wishes to extend a special ‘thank you’ to UCSF for providing the Lecture Hall and adjoining facilities to CSHE gratis. This event would not have been financially feasible without the conference sponsors:

- **Platinum Level:** Christiansen Group (George Christiansen) and Community Regional Medical Center (Stan Zulewski).



L/R George Christiansen (Christiansen Group), Bruce Peterson (Sierra View District Hospital, Kings River Chapter Vice President), Stan Zulewski (Community Medical Centers).

- **Gold Level:** BSK Associates and Duckworth Environmental
- **Silver Level:** ControlCo, Darden Architects, Grainger, Provost & Pritchard, and KONE Elevators. Thank you to BSK Associates staff Monica Van Natta and Laurie Hopelian for decorations, program, and poster materials; and a special ‘thank you’ to all the Community Regional Medical Center engineering staff for logistics and set up!

CSHE Welcomes 62 New Members

CENTRAL VALLEY

- Caron, Mark**
Sutter/Gould Medical Foundation
- Hunt, Juli**
Tecta America Sacramento
- Lesovsky, Brent**
LDA Partners, LLP
- Pivak, Anton**
St. Joseph's Medical Center

INLAND

- LeVesque, Dean**
Select Specialty Construction, Inc.

KINGS RIVER

- Anson, Scott**
Children's Hospital Central CA
- Brennan, Matthew**
Garratt-Callahan Company
- Evans, Todd**
Siemens Industry, Inc.
- Thomas, Larry**
L&H Airco

LOS ANGELES

- Archung, Harry**
EMCOR/Mesa Energy Systems
- Avila, Joseph**
Little Company of Mary Medical Center
San Pedro
- Hess, David**
Nalco Company
- Hickey, Mark**
Kaiser Permanente
- Holland, Timothy**
Cedars-Sinai Medical Center
- MacLean, Charles**
Advanced Restoration Specialists
- Morales, Wenceslao**
Greater El Monte Community Hospital
- Morrison, Adam**
South Coast Electrical
- Pelham, Mark**
Coast Plaza Doctors Hospital
- Sandoval, Manuel**
Silver Lake Medical Center
- Sarmiento, Nelson**
Silver Lake Medical Center

- Sieverson, Scott**
Little Company of Mary Medical Center
San Pedro
- Valenzuela, Brenda**
Silver Lake Medical Center

NORTHEASTERN

- Blair, Robert**
Enloe Medical Center
- Carmody, Bill**
L&H Airco
- Ellsworth, David**
HWA Sales
- Ralls, Matt**
City Building, Inc.
- Todden, Lorraine**
Catholic Healthcare West
- Trybus, Bryan**
City Building, Inc.
- Zeiher, David**
UC Davis Medical Center

ORANGE

- Coscarelli, Bob**
Camfil Farr, Inc.
- Harris, Keith**
Environmental Mold Services
- Holman, Diane**
British Petroleum Energy
- Moon, John**
Los Alamitos Medical Center
- Rodriguez, Danielle**
British Petroleum Energy
- Senes, BettyLynn**
Roel Construction Co., Inc.
- Ware, Kim**
Kontrol Kube –
Mobile Containment Solutions

SAN DIEGO

- Corey, Donald**
Scripps Green Hospital
- Elle, Erik**
Highland Commercial Roofing
- Engel, Michael**
Essrig Taylor Construction
- Foster, Scott**
Palomar Medical Center

- Garcia, Jose**
Rudolph & Sletten, Inc.
- Heckethorn, Clinton**
Scripps Green Hospital
- Johnson, Erik**
RBF Consulting
- La Placa, Spencer**
Surgery One
- Lee, Dodd**
Scripps Green Hospital
- Lim, Trudi**
RBF Consulting
- Logan, Patrick**
Scripps Green Hospital
- Ram, Armando**
Scripps Green Hospital
- Sarposo, Antonio**
Scripps Green Hospital

SAN FRANCISCO

- Amigone, Dan**
City Building, Inc.
- Bertao, Jerry**
Valley Memorial Hospital
- Conte, Cliff**
Occidental Energy Marketing, Inc.
- Goddard, Michael**
McCarthy Building Companies
- Hagberg, Scott**
City Building, Inc.
- Kelly, William**
Koffler Electrical Mechanical
Apparatus Repair Inc.
- Maciel, Mario**
Hill International, Inc.
- McMurray, Tim**
Tuolumne County
- Mendoza, Jose**
Hilti, Inc.
- Morrissey, Orion**
HDR Architecture, Inc.
- Nelson, Bill**
Follett Corporation
- Tsuda, Staci**
Clark Construction

SOUTH BAY COUNTIES

- Eberhard, John**
XL Construction

SAVE THE DATE

CSHE Los Angeles Chapter 20th Annual Seminar and Exhibit



CSHE in Conjunction with the Hospital Council of Southern California (HCSC)
Invites you to attend

“What It Means To Be Green”

An All Day Educational Event Focused on Green Innovation
September 23, 2010 • 8:00 to 4:30 p.m.

Monterey Hill Steak House & Banquet • 3700 West Ramona Boulevard • Monterey Park, CA
323-268-4177

Watch your email for the brochure and registration form



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Engineering, Inc. (CSHE)**

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