



ASSOCIATION OF
ENERGY ENGINEERS

Bay Area Chapter

NEWSLETTER

June 2003

Meeting Information Tuesday, June 24, 2003

AEE Bay Area Chapter Presents

“Stanford Central Energy Facility Tour”

Including 3rd Largest Ice Plant in the World

5:00 – 7:00 p.m.

Tour of Central Energy Facility

7:00 – 8:30 p.m.

Dinner and monthly meeting (at local eatery)

Location:

Stanford's Ice Plant

Cost:

\$20 Members

\$25 Non-Members

\$10 Students

Reservations:

Call Bruce Chamberlain at (510) 482-4420 ext. 227

Fax (510) 482-4421

Chapter website www.aee-sf.org

or email Bruce at bruce@energy-solution.com

See insert for more information.

President's Message Cont.

HERE WE GO AGAIN!!! UNEXPECTED STAGE ONE POWER ALERT

Ref: http://story.news.yahoo.com/news?tmpl=story&u-utilities_california_alert_dc_1 Dated May 28, 2003

Despite state officials' assurances of adequate power, on May 28th California energy officials declared a power emergency for the first time in a year. The stage one alert caught most Californian's off guard. Within the past week various state officials reassured the state that power shortages were unlikely this summer following an aggressive campaign to build new power plants and conserve energy. One of these reports, by the California Energy Commission, stated the state appeared in good shape and that power demand "will be reliably served ... through 2004-2006." It seems that we're not out of the woods yet but the good news for our industry is that more production and conservation is still required. There have been predictions that a shortage is still looming when business productivity resumes; more on this later.

AEE MEMBER SURVEY RESULTS OF ENERGY INDUSTRY

Ref: <http://www.aeecenter.org/> Dated May 28, 2003

A market survey, conducted by the Association of Energy Engineers (AEE), produced a list of proposals on a broad range of national energy policy topics. AEE developed the proposals based on responses obtained from a survey of the more than 9,000 members. Other topics include identification of market trends, income and salary data, and a comprehensive survey of energy services programs. Listed below are a few of the key findings. You can follow the link www.aeecenter.org for the full report.

- 95.5% of respondents indicate that a national energy policy should identify new energy supplies from a multitude of sources and promote energy efficiency
- 75.4% indicate global warming concerns need to be addressed
- 86.7% indicate distributed generation and cogeneration must be encouraged
- 78.2% indicate building and equipment codes should become more efficient
- 75.2% indicate environmental regulations should not be sacrificed

President's Message

Things are heating up around the state, which has revealed that there is still work to be done on our state's electrical system. The good news for our industry is that with the first power alert of the year comes the realization that we still need increased capacity as well as additional conservation. There is also interesting news regarding the opinions of our AEE membership as well as the announcement of AEE awardees, etc.

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Member At Large - Open

Interested in involvement?
Contact: Rory Moran
(510) 420-8987

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Volunteers Needed

The Northern California USGBC Chapter is seeking volunteers to help out at the chapter-endorsed Sustainable Hospitals Forum on June 25th in Oakland. The forum is sold out, so this is your opportunity to attend free-of-charge in exchange for a bit of your time.

Volunteers are needed to staff the breakout rooms, take continuing education unit (CEU) registrations, distribute speaker handouts, provide timekeeping signals to the speakers, guide attendees to next sessions and bathrooms, collect lost and found and generally be available for any problems that come up. These are prime staff positions because you will be able to attend most if not all of the break out session. You may also be asked to help with registration or other tasks during set up registration and the breaks.

For more information about the forum schedule, visit <http://www.cehca.org/events.htm>
If you are interested in volunteering, please contact Juli Abbott at jabbott@ghcp.com.



Secretary's Report

UC MERCED'S NEW CAMPUS PLANNING AND SUSTAINABILITY GOALS

Speaker: Allan Daly, P.E., *Taylor Engineering*

Mr. Daly, a principle at Taylor Engineering, updated the audience with work his firm is performing for the new UC Merced campus located near Yosemite National Park. The project occupies a vast open space area with an environmentally friendly approach to design. With a projected growth rate of 50,000 students in the next 2 years, the campus presents a challenge for planners, architects and engineers alike. AEE member Carl Brown represented UC in the overall campus design and engineering. Taylor Engineering was selected to design the mechanical system for a 90K sq. ft. classroom building. Their goals were twofold: 1. Minimize energy use (20% below TITLE 24) and 2. Maximize thermal comfort. The building also needed to qualify for a LEED's certification of "Silver" or better. Some notable design aspects include individual control of operable windows (with a switch override to prevent lost cooling when a window is open) and tight integration with the HVAC control system.

The building incorporates many architectural features, including sun breaks or "Brie Soleil" that affect the cooling load of 1.7 tons/1000 sq. ft. An unusual 18% window/wall ratio presents additional challenges to the designers.

Mr. Daly then discussed the method enlisted to select the mechanical system for the building. The Equest modeling program was used to compare costs and performance data for several types of systems. After analyzing the data, the "Pre-cool with indirect evaporative cooling" system presented the best choice with a total first cost of \$351K and an annual maintenance savings of \$10K, bettering the TITLE 24 savings by a whopping 36.7%.

As it turns out, through careful analysis, the "Green" system was not the most expensive component of the project. With infrastructure cost savings, the total first cost was \$285K Stay tuned for more innovative ideas that will come from this project.

John Clark
AEE Bay Area Chapter Co-Secretary

President's Message Continued

- 93.3% indicate investment tax credits and accelerated depreciation should be implemented to encourage adoption of efficient end use technologies
- 81.6% investment should be encouraged for new power generation and transmission lines

AEE INTERNATIONAL / REGIONAL AWARD RECIPIENTS

Ref: www.aeecenter.org

The results of the awards are in and there are a few names that you will undoubtedly recognize. Congratulations to all the recipients. You can follow the link www.aeecenter.org to get the complete list.

Thank you for your time.

Rory J. Moran



AEE Bay Area Chapter serves as a unique forum for the discussion of energy issues and concerns. AEE Bay Area Chapter provides common professional meeting ground for facility managers, design and specifying engineers, utility and vendor representatives and energy researchers to participate in vigorous peer-to-peer dialogue, learning and group discussion.

AEE Bay Area Chapter strives to provide quality professional development opportunities that build knowledge and skills through meetings, seminars and publications. Emphasis is placed on:

- Assessing the applicability of emerging technologies, and
- Improving the performance and reliability of current technologies.

Meetings are typically held on the fourth Tuesday of the month. All interested persons are welcome to attend, participate and join the Chapter. If you are interested in joining the AEE Bay Area Chapter, contact Stan Boghosian at (925) 933-8400, ext 212.

Do you know someone who might be interested in joining AEE Bay Area Chapter?

The benefits of joining include:

- Participating in exciting and informative programs
- Receiving a monthly newsletter containing information on meetings, events, and job openings
- Communicating with other energy professionals

For membership application:
**Contact Stan Boghosian
(925) 933-8400 ext 212**

Meetings are held on the fourth Tuesday of each month. All interested persons are welcome to attend, participate and join.



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