

2010 C.A.S.H. Annual Conference
High Performance Workshop Proposals

As of: 6/4/2009

Title: Facility Building Assessments: A New Way to Go Green!

Description: We like new! The feel of a new school complete with a lot of the latest gadgets and “stuff”. We don’t like “old” because most of the time old is due to lack of attention and less investment in the “cool stuff.” Is building a new school really the right answer, though? Would it be better to consider a green alternative to renovating and reusing rather than relocating and building new? Working with DSA’s CAPF, this session is intended to highlight why utilizing building assessments is a tool to measure a facilities utilization and long term life expectancy versus building a new facility.

Submitted as: **Workshop:** **Roundtable:** **Clinic:**

Length: 1 or 1.5 hours

Interested In Moderating: Yes

Submitted by: Julie Barrett

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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Legal Insights into Energy Options

Description: With global climate change and peak oil being key issues worldwide, this session will explore a variety of types of energy projects, including eligibility for new federal funding, solar projects, power purchase agreements, and other energy efficiency options. It will discuss legal requirements for various funding options and statutory schemes.

Submitted as: **Workshop:** **Roundtable:** **Clinic:**

Length: 1.5 hours

Interested In Moderating: Yes

Submitted by: Marilyn Cleveland

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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Achieving Grid Neutral or Zero Net Energy School Design in California

Description: The Division of the State Architect is recommending that all new schools in California be grid neutral. This presentation examines whether or not grid neutrality or net zero performance can be achieved and what the implications are for energy efficient design. As a case study, a detailed energy analysis of a new K-12 school located in Southern California has been carried out. The school which has been used for this investigation is LAUSD #12, a recently constructed elementary school located in the San Fernando Valley and

designed to meet the District's CHPS goals. The software program, eQuest, a whole building energy simulation software program, has been the primary analysis tool used for this purpose.

The key questions examined during this session will be:

1. How is grid neutrality quantified? How do the impacts of this definition differ from similar benchmarks such as net zero site, net zero source, net zero cost and net zero carbon?
2. What is the typical energy consumption profile at K-12 schools?
3. What design and technologies measures make sense to achieve grid neutrality? How do they change the energy consumption of a school building?

The new school has been modeled three dimensionally to demonstrate the typical implications of going beyond a typical LEED or CHPS design to achieve grid neutrality.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1.5 hours

Interested In Moderating: Yes

Submitted by: John Dale
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Enviaable Green

Description: Evergreen Elementary School District, PG&E and AEDIS Architecture & Planning have partnered to make Evergreen the most energy efficient school district in the Bay Area. Through innovative energy management strategies, existing facilities upgrades, and now the first grid-neutral school project in the Bay Area, Evergreen is well on its way to becoming truly Ever Green!

Submitted as: Workshop: Roundtable: Clinic:

Length: 1 hour

Interested In Moderating: Yes

Submitted by: John Diffenderfer
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Incorporating Sustainable Design Principals Responsively Into Your Next School Development Project

Description: Yes, your next School master plan, new construction or modernization project should be sustainable, it's good for the environment and good for people, however every "green" product that is on the market or sustainable design concept proposed may not be appropriate for the project that is being developed. As a matter of fact, a recent survey has shown that many of the certified sustainable projects that have been recently built could be performing worse than non-sustainable projects. This workshop will allow CASH conference attendees to understand how to responsibly develop and maintain your next sustainable project with fewer headaches and less liability.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1 or 1.5 hours

Interested In Moderating: Yes

Submitted by: Mark Graham
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: CHPS Realistically! Is It Really as Simple as "They" Make It Sound?

Description: What to expect in your first CHPS project. We explore the real costs, what to expect in planning and design, maintenance and real challenges in pursuing the green route.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1 hour

Interested In Moderating: Yes

Submitted by: Marcus Hibser
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: State of the Art Mechanical Systems

Description: Natural ventilation, heat recovery systems, integrated control system are changing the way classrooms are conditioned, in a sustainable way. The old BARD units are history, and districts will need to understand the implications of the new systems.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1 hour

Interested In Moderating: Yes

Submitted by: Marcus Hibser
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Sustainability Emerging at the Malibu High School

Description: This workshop will discuss the collaborative design effort between the community, the architect, the District and regulatory agencies, all while focused on sustainability. The scope consists of a three phase campus improvement project at Malibu High School which includes a new 40,000- square foot, two-story Administration, Library, and Classroom building, and renovations to an existing classroom building.

While relatively new to the concepts of sustainable design, a District representative will discuss embracing these strategies and maintaining them as a priority. The goal of the architectural design for Malibu High School is to provide a lasting contribution to the school and community, while responding to the unique site conditions, programmatic needs and regulatory requirements. In addition, the city and community of Malibu consider themselves innately and uniquely positioned to embrace sustainable design.

In this sense, sustainable design for the only local high school is as much symbolic as it is practical. It was widely discussed during design charrettes with the client, how the new facility could serve as a demonstration project and teaching tool for sustainable practice. Many design features integrate sustainable ideas that emphasize healthy and natural environments. Buildings are designed to function efficiently with minimal reliance on mechanical and electrical systems. Green roofs and landscaping are intended to improve building performance, manage storm runoff, and promote teaching environments. Solar collectors and wind turbines will help offset energy dependence. The primary mechanical system relies on radiant heating and natural ventilation for cooling. Geothermal is also under investigation as an integral part of the system. Where possible, materials from the demolished building will be reused in the new structure to supplement the extensive use of other recycled products.

Panelists will escort the audience through the challenges and opportunities brought forth during this collaborative design process and how dedicated commitment to the design intent results in an award-winning school to serve students and the community.

Submitted as: **Workshop:** **Roundtable:** **Clinic:**

Length: 1 hour

Interested In Moderating: Yes

Submitted by: Holly Hill
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Performance Contracting

Description: TAC just put on this same workshop idea for CASBO's annual conference and it was a hit! The idea is that most districts have an opportunity to invest in their existing facilities through the energy savings that can be generated through energy efficient upgrades to existing equipment. With the current fiscal outlook it makes even more sense for districts to at least get audits from Energy Service companies, the State of California or possibly their utility provider to try and better understand what if any their opportunities may be. The idea of performance contracting has been around for decades and is recognized by the State of California and the U.S. Dept. of Energy through the Energy Star program as being both a fiscally and environmentally sound way to improve existing facilities in the public sector. The most important aspect right now is generating awareness for this as a great solution for any districts that wish to reinvest in their facilities.

Submitted as: **Workshop:** **Roundtable:** **Clinic:**

Length: 1 hour

Interested In Moderating: Yes

Submitted by: David Klotz
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Developing and Managing “Green” Surplus Property for Profit

Description: Leasing property which has been sustainably developed and is advertised as LEED-“X” or “green” involves many issues which are new even to districts which have managed surplus property for many years. The panel will discuss a checklist of issues to address, including the difficulties inherent in assigning responsibility for maintaining conditions and developing meaningful consequences for failure to follow through.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1.5 hours

Interested In Moderating: Yes

Submitted by: Cheri Love
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: It Isn't Always Easy Being Green

Description: Designing and constructing sustainable projects offers substantial rewards, but can also lead to additional liability for all involved. Listen as an attorney, a construction insurance broker, an architect and a contractor identify crucial issues from their perspectives and provide tips for avoiding related claims. All panel members except the insurance broker will be LEED-accredited professionals.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1.5 hours

Interested In Moderating: Yes

Submitted by: Cheri Love
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: A Better Way to Finance Renewable Energy Projects: The National Development Council Model.

Description: Are you tired of hearing about Power Purchase Agreements where the District receives little of the benefit of the photovoltaic (PV) system? The National Development Council (NDC) is an established non-profit with a mission to help governments and non-profits finance their projects. The NDC model for financing renewable energy projects allows School Districts to access the valuable Federal Renewable Energy Tax Credits while keeping much more of the benefits of the new PV system. In the NDC model the District owns the system after 5 years with no cash buy-out and owns the Renewable Energy Credits. Payments for the system are fixed at a rate lower than your current electricity bill. The NDC model is designed to be flexible and can be tailored to your District to provide the best return on your investment and meet your specific goals. The panel

will discuss this exciting financing mechanism and how it is different from other models. We will also discuss the steps a District should go through to plan and build a PV system.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1 hour

Interested In Moderating: Yes

Submitted by: Mark Quattrocchi
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: American Canyon High School – The Programming, Design and Construction of a Green 21st Century High School.

Description: American Canyon High School is a new 2200 student high school being constructed at the southern end of the Napa Valley. This school is the first CHPS Verified project and won a 2008 CASH/AIACC Merit Award for Project in Design. The panel will discuss the innovative educational program, the unique and sustainable design and how the project has been constructed through a Lease-Leaseback contract. The design for school includes many green features including a 1 megawatt solar power system, numerous water saving features, extensive daylighting and a ground source heat pump mechanical system. The school will use less than half as much water and electricity as a standard high school.

Submitted as: Workshop: Roundtable: Clinic:

Length: any

Interested In Moderating: Yes

Submitted by: Mark Quattrocchi
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: Developing a Climate Action Plan

Description: This workshop will go through the steps of developing a Climate Action Plan. The first step is determining the District's carbon footprint. Then developing strategies to reduce that footprint to meet the guidelines of the recently passed AB 32. Then selecting and planning the implementation of best management practices that become a part of the Climate Action Plan

Submitted as: Workshop: Roundtable: Clinic:

Length: Any

Interested In Moderating: Yes

Submitted by: Bruce Rich
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: What is working? What is not- in Green Schools

Description: Post occupancy evaluations of green schools are becoming available- conducted by the National Research Council & Massachusetts Green Schools (CHPS & LEED) Post Occupancy Study, among others. Surprising and provocative issues are emerging. Where must the standards be raised to address the health of children? Are green building performing as predicted in the energy models? How do we refine design and operations to save energy & promote health & improve learning environments?

Submitted as: Workshop: Roundtable: Clinic:

Length: 1 or 1.5 hours

Interested In Moderating: Yes

Submitted by: Rob Samish
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: CHPS Operations Report Card Introduction

Description: CHPS will be releasing the Operations Report Card in January 2010. It is a program aimed at all existing schools, high and low performance alike, with the goal of moving them all towards high performance. It consists of benchmarking, analysis, and recommendations for improvements in five primary categories: energy efficiency, thermal comfort, visual comfort, acoustics, and indoor air quality. Maintenance, operations and a number of other factors are assessed as components of those categories. As a fully web-based tool (no paper!), the program is designed for simple, efficient application across districts' portfolios. This workshop would teach the participants how to use the program.

Submitted as: Workshop: Roundtable: Clinic:

Length: 1.5 hours

Interested In Moderating: Yes

Submitted by: Nick Semon
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Strands Submitted to: FM: HP: MO: P: SA: SC:

Title: How Can We Help You Control Your Energy Costs, the Utility Perspective

Description: Presentation of integrated energy management strategies and programs offered by the state's investor owned utilities. Topics covered will include, energy efficiency, demand reduction, and distributed generation (solar and wind). Panel members will represent each of the state's largest investor utilities and will provide overviews of their programs, with plenty of time for questions and answers.

Submitted as: **Workshop:** **Roundtable:** **Clinic:**

Length: 2 hours

Interested In Moderating: Yes

Submitted by: Bill Zeller

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Strands Submitted to: FM: HP: MO: P: SA: SC:
