

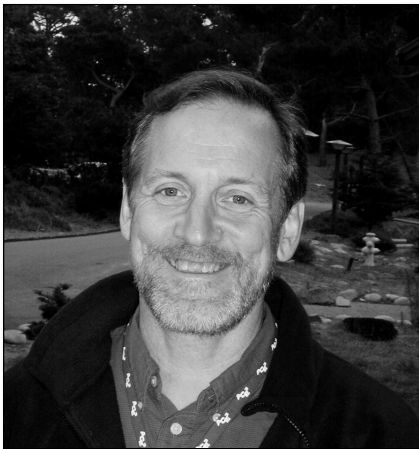
THE GRAPEVINE

ACEEE Summer Study at Asilomar, California

Tuesday, August 20, 2002

Forecast: Skies Clearing, Efficiency Increasing, Storms Possible

by Bill Prindle



ACEEE Deputy Director
Bill Prindle

For more than a decade, the idea of using energy efficiency as a pollution prevention tool has been analogous to the old saying about the weather: everyone talks about it, but nobody does anything about it. To be sure, some gains have been made:

- The ENERGY STAR program in 2000 prevented the emission of 35 million metric tons of carbon equivalent and 160,000 tons of nitrogen oxides.
- The 1990 Clean Air Act Amendments created sulfur dioxide credits for energy efficiency.
- EPA has experimented with allowing efficiency measures to be part of state implementation programs (SIPs) for oxides of nitrogen emissions.
- Groups like the Climate Neutral Network and the Climate Trust are pioneering market-based approaches to verifying, banking, and trading emissions offsets.
- States are spending nearly \$1 billion annually on public benefit efficiency programs.
- Some states are beginning to justify efficiency policies in part for their air quality benefits.

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Industrial-Strength Plenary

Summer Study participants will be treated to a busy plenary tonight with four business leaders delivering their perspectives on energy efficiency and environmental affairs.

Tom Cox is a leader of the Sustainable Design Initiative for the Hoffman Corporation, where he is responsible for merging sustainable concepts into the company culture and into project vocabulary. He serves on the Board of Directors of the Wisconsin Green Building Alliance and is a technical advisor to the Energy Center of Wisconsin's Daylighting Collaborative. Cox was the architectural designer and project manager for Hoffman Corporation's new corporate office facility, which has been recognized by the EPA and the Wisconsin Focus on Energy Program with the ENERGY STAR label.

James Garrison Crawford is the director of regulatory affairs for The Trane Company and its parent corporation, American Standard, Incorporated. Crawford serves as a representative to the Montreal Protocol and the Framework Convention on Climate Change, the Alliance for Responsible Atmospheric Policy, the Business Council for Sustainable Energy, and other bodies. Crawford also serves on several technology advisory committees, including the Technology Council of ASHRAE and several ASHRAE technical committees. He is frequently consulted on questions relating to building systems technology, as well as on efficiency and policy matters dealing with private sector responses to global environmental issues.

Paul Walitsky, who has worked in the lighting industry for more than 35 years, is the manager of environmental affairs for Philips Lighting Company. He is responsible for environmental compliance for all

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Familiar Faces from New Places



Larry Kinney and Howard Geller form a clean SWEEP.

Two faces familiar to all past participants at the Summer Study have a new affiliation listed on their nametags. They are Howard Geller and Larry Kinney.

Geller is now the executive director of SWEEP, the Southwest Energy Efficiency Project. He started SWEEP last year after bidding farewell to Washington, D.C., and ACEEE—an organization he started more than two decades ago. He chose to locate SWEEP's headquarters in Boulder, Colorado. (Could you find a more different environment from D.C. outside of Alaska, Howard?)

SWEEP is a joint project of ACEEE and the Land and Water Fund of the Rockies. Its mission is to promote greater energy efficiency in the six-state region of Colorado, Utah, Arizona, New Mexico, Nevada, and Wyoming. This is a high-growth region where energy efficiency efforts have been lagging behind other regions and air pollution is a growing concern given the area's many coal-fired power plants.

Folks who have known Geller for a while may also notice an elusive, but tangible, difference in him. He is now Dr. Geller, having recently received his Ph.D. from the University of Sao Paulo, in Brazil.

Beside hiring himself at SWEEP, Geller has recently brought Larry Kinney on board. Kinney preceded Geller in Boulder by about 2 years, having moved from his long-term home in Syracuse, New York, a few years ago to work for E-Source. After E-Source was bought up by McGraw-Hill in their corporate bid for unrelenting growth, Kinney decided to join SWEEP with its solid commitment to energy efficiency and environmentalism.

Geller and Kinney are at the Summer Study throughout the week. Kinney will be presenting a paper with Alex Moore on Tuesday morning. Is anyone surprised the topic is refrigerators?

Technology Showcase, Wednesday 1:00 pm – 5:00 pm in Merrill Hall

Booth 17: CMC Energy Services

The Snug-Shade window system is three shades in one: a clear shade which is an insider window; a solar tinted Mylar shade for the summer; and a thermal window shade that provides privacy and darkness at night. Drafts are eliminated because the shades are sealed along the sides, top, and bottom of the window. The Snug-Shade can be custom-fitted and installed in a matter of minutes, without requiring special tools.

Booth 8: Florida Solar Energy Center

This display will showcase the newly developed Gossamer Wind ceiling fans. These fans feature aerodynamically optimized blades that move 40%-50% more air than traditional flat-bladed fans. The fans also feature temperature-responsive controls that vary fan speed to improve interior comfort. In addition to three AC models available

at Home Depot, we will also show a newly developed DC fan that will operate on photovoltaic power.

Booth 16: Davis Energy Group

Davis Energy Group, located in Davis, California, is an engineering firm that, among other things, is active in technology development (but not manufacturing). The NightBreeze system they are displaying is an integrated, variable speed heating and ventilation cooling system that is designed to eliminate compressor air conditioning in mild climates, reduce cooling load in warmer climates, save fan energy in both seasons, and improve indoor air quality. The product was developed under California Institute for Energy Efficiency and California Energy Commission programs and was licensed to a manufacturer who got cold feet. The product on display is very similar to what is currently being tested in three houses, and will hopefully be manufactured in the near future.

Explore A Nearby Kelp Forest

Are you a certified diver? Would you like to join a few of us for a dive in the kelp beds just off Cannery Row? There is no current, the depths are no more than

40 ft, and there's lots to see. If this sounds intriguing, come to a brief coordination gathering to work out the details. We'll meet on Tuesday afternoon at 5:30 pm on the steps outside of the main Asilomar registration desk, facing the dining hall.

Informal Sessions

2:00 pm – 4:00 pm

Strategic Issues for Buildings Efficiency Technology

Jerry Dion, U.S. DOE, Office of Energy Efficiency & Renewable Energy
Location: KILN

Clearing the Air: Opportunities for Energy Efficiency in Emerging Emissions Trading and Offset Markets

Dale S. Bryk, Natural Resources Defense Council
Location: NAUTILUS

Commercial Packaged Refrigeration: Low-Hanging Fruit for Energy Savings?

Steve Nadel, ACEEE
Location: SCRIPPS

Accountability for Achieving and Sustaining Energy-Efficient Building Operation

Floyd Barwig, Iowa Energy Center
Location: TRITON

Tools for Rating Commercial Building Energy Performance

Adam W. Hinge, Sustainable Energy Partnerships
Location: FRED FARR FORUM

Energy Efficiency Initiatives in China: Current Status and Future Opportunities for U.S.-China Cooperation

Zhang Ruiying, Energy Foundation
Location: ACACIA

California Energy Efficiency Policy

Chris Chouteau, PG&E
Location: VIEWPOINT EAST

Why Educating and Involving Students in Energy Efficiency Works

Merrilee Harrigan, Alliance to Save Energy
Location: HEATHER

Midwest Energy Efficiency Alliance: Update & Analysis of Programs & Processes to Date

Alecia Ward, Midwest Energy Efficiency Alliance
Location: EVERGREEN

HUD's Energy Task Force Action Plan

Robert Groberg, HUD
Location: CURLEW

Small HVAC Controls—Problems, Solutions & Specifications

Cathy Higgins, New Buildings Institute
Location: TRITON

Small-Scale Combined Heat & Power

Dale Stanton-Hoyle (TRC)
Location: TOYON

2003 Commercial Buildings' Energy Consumption Survey (CBECS): Changes to the Questionnaire

Martha Johnson, EIA
Location: OAKSHELTER

Extemporaneous Teaming

The Iowa Energy Center and the New Buildings Center discovered that they were both scheduled to host informal sessions from 2:00 pm – 4:00 pm today in the same room, Triton. Deciding that slugging it out would be decidedly undignified, they are instead joining forces to present a shared session.

No More Anticipating

If you searched in vain yesterday for Chris Chouteau's informal session on California's energy efficiency policy, pine no more. That session will be held today from 2:00 pm – 4:00 pm in Viewpoint.

Youth and Energy: Reap the Benefits

Originally advertised as "Greening Schools, Greening Students," the Alliance to Save Energy's informal session today, "Why Educating and Involving Students in Energy Efficiency Works," will focus on the rewards of turning students into energy efficiency ambassadors. Come find out how the Green Schools program has convinced teachers and administrators to use valuable class time to deal with energy issues and churned out enthusiastic, newly converted, energy-conscious citizens. With their help, this program has achieved concrete energy savings through school retrofits and ENERGY STAR purchases.

Plenty of Plenary Speakers

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the Philips Lighting facilities in North America. He is a certified hazardous materials manager (which, after Sunday night's keynote, would make him a great editor for *The Grapevine*) and is licensed in New Jersey as an industrial wastewater treatment plant operator. He is a member of the Board of Directors of the Energy Services Coalition and a member of the U.S. Green Building Council Committee on LEED for Existing Buildings. He was part of the EPA/ industry negotiations that developed the Universal Waste Rule for lamps.

Graig W. Young is the vice president for architectural products for Southwall Technologies, Incorporated, in Palo Alto, California. He chairs Southwall's New Product Development SWAT Team committed to developing new, film-based solutions for improving performance in the architectural glazing market. Young has been active in the window industry for over 30 years in the residential and architectural markets as both a manufacturer and a supplier. His experience with eight different companies in top management and senior sales and marketing management positions has resulted in the successful introduction of several new window and window related products.

All this experience should make for a rich offering of perspectives from the industry side and a fruitful discussion. See you there.

Seeking America's Best

ACEEE is conducting a project to identify, review, catalog, and publicize exemplary utility-related energy efficiency programs in the U.S., including public benefits programs. Programs selected will be profiled in an ACEEE report and will receive certificates of recognition. For more information, talk to Marty Kushler or Dan York this week, or visit the ACEEE Web site [www.aceee.org] and click on the link, "Seeking America's Best Energy Efficiency Programs." Nominations will be accepted through the end of August.

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Yet we still lack substantial markets for energy efficiency driven by specific regulatory policies for clean air or climate change. In short, while we have all learned to tout and quantify the benefits of energy efficiency for pollution prevention, we have yet to fit efficiency into the harness of a fully functioning policy regime.

All this may be about to change. There is extensive debate in Washington, and some legislative action, on new policies for improving air quality and addressing climate change. Multipollutant clean air policy is the new buzzword. For Democrats (and one prominent Senate Independent), "multi" tends to mean four pollutants: sulfur dioxide, nitrogen oxides, mercury, and carbon dioxide. Some would like to see fine particulates added to that list. For Republicans, "multi" usually means three pollutants: sulfur dioxide, nitrogen oxides, and mercury.

Senator Jeffords (Independent-Vermont) shepherded a four-pollutant bill through the Senate Environment and Public Works Committee in June. The Bush administration also introduced its three-pollutant Clear Skies bill this year through the sponsorship of Senator Smith and Congressman Tauzin. Both policies use the cap-and-trade system that has worked well for sulfur dioxide, though the Jeffords bill sets more stringent caps and earlier timetables for reaching them. The Tauzin and Smith bills will form the other end of the spectrum from the Jeffords bill as the debate on this issue moves into the next Congress.

Energy efficiency is already an active topic in the multipollutant policy debate. Efficiency is clearly indicated as a compliance option in the Jeffords bill, and the Administration and the private sector generally support efficiency options as offering added flexibility. ACEEE and others have developed discussion papers and other documents to begin working out the all-important details. Issues to be resolved include monitoring and verification, additionality (ensuring that savings would not have occurred anyway), aggregation, and the geographic and time dependency of impacts.

Summer Study 2002 has its own "multi-p" program in which we have created multiple possibilities for discussion of these issues. Today, Tuesday, there is an informal session at 2:00 organized by NRDC's Dale Bryk and ACEEE's Dan York. In Panel 9, yesterday's Session 2 focused on efficiency and air quality. By attending these sessions and reading these papers, we hope that you will become part of the debate that determines how efficiency will gain marketable value under future pollution reduction regimes.