



2010 ACEEE Summer Study On Energy Efficiency in Buildings The Climate for Efficiency is Now

August 15 - 20, 2010

Asilomar Conference Center

Pacific Grove, California

CONFERENCE CALENDAR

OCTOBER 23, 2009

Abstracts due to the ACEEE Summer Study office

JANUARY 8, 2010

Authors notified of abstract status — acceptance letters sent and instructions for preparing papers posted

FEBRUARY 2010

Registration materials available

MARCH 5, 2010

First drafts of refereed papers due to designated Panel Leaders

APRIL 16, 2010

Reviewed drafts sent to authors

MAY 7, 2010

Papers due to Panel Leaders for final review

MAY 14, 2010

Final refereed papers due to ACEEE

JULY 15, 2010

Conference registration deadline (late fee in effect after this date)

AUGUST 15 – 20, 2010

Summer Study

CONFERENCE ARRANGEMENTS

The Summer Study will be held August 15-20, 2010 at the Asilomar Conference Center in Pacific Grove, California. Information about accommodations at Asilomar will be provided in registration materials.

The Early Bird Registration Fee for the full conference is \$775; the Regular Registration Fee is \$875 (both fees include a set of conference proceedings). The One-day fee is \$450.

All speakers must pay the registration fee. The conference will be conducted in a casual atmosphere. The dress is also casual.

The 2010 ACEEE Summer Study is the 15th biennial ACEEE conference on Energy Efficiency in Buildings. A diverse group of professionals from around the world will gather at this preeminent meeting to discuss the technological basis for, and practical implementation of, reducing energy use and climate impacts associated with buildings. Presentations and discussions will relate to the theme, “The Climate for Efficiency is Now.” Global activities related to energy efficiency in buildings are rapidly expanding, in part to stimulate world economies, but also to avoid the worst consequences of climate change and resource depletion. To achieve its full potential, however, this energy efficiency “engine” needs to address sustainable development and climate issues that go beyond buildings. Well integrated programs, technologies, and financing sources need to be developed. A new generation of multi-disciplinary practitioners, researchers, and policymakers needs to be trained and quickly deployed to solve the closely-coupled energy efficiency and climate problems that we face. Come to the 2010 Summer Study, where you can share your ideas and engage in dialogue with leading thinkers, visionaries, and luminaries in the field, while experiencing the magnificent natural setting of Asilomar.

We invite you to contribute your most creative work in the following areas:

- energy technologies and information technologies and practices
- market transformation
- design and performance of buildings
- program design, implementation, and evaluation
- human and social dimensions of energy use
- utility regulation, strategies, and policy
- sustainable communities
- integrating energy efficiency and climate change policies
- workforce training

2010 ACEEE Summer Study on Energy Efficiency in Buildings

The Climate for Efficiency is Now

Abstracts

Abstracts should relate to the panels described. There are three general categories for abstract submission:

- Oral Presentation
(Presentation + Published Paper)
- Visual Presentation
(Display + Published Paper)
- Display Presentation
(Display + No Published Paper)

Authors may submit more than one abstract in each category, but only one abstract per "lead author" will be accepted and the lead author will be expected to present the resulting paper. Only one presentation by an author will be allowed. If you are "lead author" on more than one abstract selected, you will be asked to designate a co-author as "lead author." Your abstract may be accepted for a category other than the one you have chosen; therefore, it is important that you rank your abstract submissions in order of priority. To ensure a balanced program, ACEEE reserves the right to exclude papers at any point in the publication process.

Every author is required to register (pay registration fees) to attend the Summer Study. If the registration fee is not received by the deadline date, July 15, 2010, the author's paper will not be scheduled for presentation or published in the proceedings.

The following criteria will be used for selecting papers for the Summer Study:

- Presentation of new material (must not have been presented at another conference or published in another proceedings)
- Relevance of topic to the conference theme
- Likelihood of stimulating discussion and debate
- Clarity of thought and presentation

The Summer Study is intended to be a participatory event and actively seeks knowledgeable reviewers to assist in the peer review of submitted papers. If you wish to volunteer as a reviewer, please fill out the Reviewer Request Form.

Refereed Paper (for Oral or Visual Presentation)

Authors with accepted abstracts will prepare a draft paper that will be peer reviewed and returned to the author for revision. Authors will then submit a final paper to be included in the published proceedings. Authors may be asked to provide the names of up to three potential peer reviewers for their papers. Final papers are limited to 12 pages. Each author of a Refereed Paper for Oral Presentation will be allotted 20 minutes for their presentation at the Summer Study. Authors of a Refereed Paper for Visual Presentation will be assigned to a two-hour display session.

Display Presentation

This category is designed for the presentation of material not suited to a refereed paper. Examples include interactive software, operable technologies, video displays, or complex graphics.

Display sessions, scheduled on two afternoons, are designed so that participants may circulate and discuss these presentations with their authors. Authors will be assigned to a two-hour display session, and will have an area approximately 10' x 8' for their displays.

Instructions for Authors

Abstracts must not exceed 250 words of text. The following information must be included at the top of each abstract:

- a. Title of Abstract
- b. Category:
 - I. Oral Presentation
(Presentation + Published Paper)
 - II. Visual Presentation
(Display + Published Paper)
 - III. Display Presentation
(Display + No Published Paper)
- c. Selection of Panel (by Panel number)

Do not include authorship or institutional affiliation on the abstract.

Submit abstracts online:
<http://www.aceee.org/conf/10ss/10ssindex.htm>

Or, if mailing abstracts, send them to:

ACEEE Summer Study Office
Attn: Rebecca Lunetta
P.O. Box 7588
Newark, DE 19714-7588 USA

2010 Summer Study Organizing Committee

Robert Hawsey (Co-Chair)
National Renewable Energy Laboratory
Craig Wray (Co-Chair)
Lawrence Berkeley National Laboratory

Rebecca Lunetta, Glee Murray,
Lori Nachman, and Steven Nadel
American Council for an Energy-Efficient Economy

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PANEL DESCRIPTIONS

Abstracts from outside the U.S. are encouraged and will be included in all relevant panels below.

1

Residential Buildings: Technologies, Design, Performance Analysis, and Building Industry Trends

PANEL LEADERS: **Patrick Hughes**, *Oak Ridge National Laboratory* and **Ryan Kerr**, *Gas Technology Institute*

SESSION TOPICS: Building science and engineering focus on retrofitting existing housing and new construction technologies; envelope load reduction; energy-efficient and demand-responsive equipment, appliances, and systems for building services; systems and whole-house integration including smart controls and on-site thermal/electrical renewable energy and distributed generation in general; design software and interoperability; performance analysis/modeling; performance monitoring; benchmarking/rating/labeling; commissioning and diagnostics.

2

Residential Buildings: Program Design, Implementation, and Evaluation

PANEL LEADERS: **Chip Fox**, *San Diego Gas & Electric Company* and **Gregory Thomas**, *Performance Systems Development*

SESSION TOPICS: How to design and implement effective residential energy efficiency, renewable energy, green technology, and load management programs and policy initiatives, including: trend analyses; key market drivers and market diffusion models; consumer behavior and value; training requirements; new/overlooked energy saving opportunities; lessons learned about markets and/or impacts including new construction and building retrofits; single- and multifamily housing; low-income weatherization programs; innovative financing; and miscellaneous electric loads; peak loads; hot water distribution loads; space heating and cooling loads.

3

Commercial Buildings: Technologies, Design, Performance Analysis, and Building Industry Trends

PANEL LEADERS: **Tianzhen Hong**, *Lawrence Berkeley National Laboratory* and **Paul Torcellini**, *National Renewable Energy Laboratory*

SESSION TOPICS: Building science and engineering focus on retrofitting existing buildings and new construction technologies; energy-efficient and demand-responsive equipment and systems for space conditioning, lighting, daylighting, and water heating; building systems integration; occupant comfort; design software and interoperability; performance analysis/modeling; smart, integrated control systems; performance monitoring; benchmarking; commissioning and diagnostics; on-site use of renewables.

4

Commercial Buildings: Program Design, Implementation, and Evaluation

PANEL LEADERS: **Dru Crawley**, *U.S. Department of Energy* and **Skip Schick**, *Northwest Energy Efficiency Alliance*

SESSION TOPICS: Designing and implementing energy efficiency and peak demand reduction programs for commercial buildings; lessons learned

from programs targeting commercial buildings; programmatic challenges in promoting or advancing energy efficiency and progress towards zero energy buildings and deep energy retrofits; R&D programs; incorporating advanced/emerging technologies and strategies into deployment program design and implementation; commissioning and performance contracting; efficiency and productivity; renewables programs.

5

Utilities: Energizing Efficiency

PANEL LEADERS: **Richard Sedano**, *The Regulatory Assistance Project* and **Peter Turnbull**, *Pacific Gas & Electric Company*

SESSION TOPICS: The evolution of utility-sponsored energy efficiency and demand response programs in competitive and monopoly systems; reliability-focused integrated energy efficiency and demand response programs; energy efficiency as a resource; the role of advanced metering and rates with regard to energy efficiency; regulatory barriers to comprehensive energy efficiency; successful models of cooperation between ESCOs and utilities; matching program administrative models with state and local utility markets; and, roles of local government agencies in successful program deployment.

6

Revolutionizing Market Transformation

PANEL LEADERS: **Mike Mernick**, *ICF International* and **Ben Taube**, *Southeast Energy Efficiency Alliance*

SESSION TOPICS: Design, implementation, and performance of programs that intervene in markets to cause lasting increases in buyer demand for, and availability of, energy-efficient products and services, including: market conditioning; training; education; financial incentives; technology procurement; and government procurement initiatives, as well as market assessment and market research that inform these initiatives.

7

Human and Social Dimensions of Energy Use: Trends and Their Implications

PANEL LEADERS: **Ingo Bensch**, *Energy Center of Wisconsin* and **Christopher Payne**, *Lawrence Berkeley National Laboratory*

SESSION TOPICS: The exploration of the most complex component of energy-using systems: the people who design, create, acquire, and use energy-consuming devices; lessons from various disciplines to illuminate how to best understand and influence human choices that affect energy consumption with particular insights explicitly linked to theoretical frameworks of social science disciplines.

8

Energy Efficiency and Climate Change: Integrating Policies

PANEL LEADERS: **Marilyn Brown**, *Georgia Tech* and **John Wilson**, *Energy Foundation*

SESSION TOPICS: Energy as an element in state, regional, and national strategies, programs, and plans; climate policy and Clean Development Mechanism as a driver for energy efficiency;

energy efficiency in air quality planning; the design and impact of energy policies and tools including building codes, equipment standards, financial incentives, education and labeling, voluntary programs, and R&D for energy efficiency; community-scale and local energy initiatives; state and national energy efficiency programs; international experience with, and coordination of, energy efficiency policies; cap-and-trade issues; integrated efficiency and climate modeling.

9

Strategies for Appliances, Lighting, Electronics, and Miscellaneous End Uses

PANEL LEADERS: **Ammi Amarnath**, *Electric Power Research Institute* and **Matthew Forshey**, *AEP*

SESSION TOPICS: Trends and patterns in the use of appliances, devices, and other products; energy consumption patterns in the miscellaneous product sector, such as televisions, set top boxes, computers and monitors, networking devices, etc.; research on standby, low power and active mode(s); trends in new product technology; impacts on product energy consumption from new network and communications functionality; product opportunities to save energy and water; domestic and international voluntary and mandatory product initiatives; product labeling efforts; monitoring and testing; improvements in appliance efficiency and lighting efficacy.

10

Workforce Training for a Clean Energy Economy

PANEL LEADERS: **Monica Brett**, *Southwest Energy Efficiency Partnership* and **Joe Deringer**, *Deringer Group*

SESSION TOPICS: The exploration of how we provide training for people who can design, construct, operate, and maintain buildings that can actually achieve low energy potential; how we implement continuing education; addressing barriers that reduce the effectiveness of current training; proposing steps to help overcome key barriers.

11

Sustainable Communities: Systems Integration

PANEL LEADERS: **Ray Cole**, *University of British Columbia* and **Ian Theaker**, *Halsall Associates*

SESSION TOPICS: Whole community energy and resource efficiency and integration; community-scale renewables and energy supply and storage; transportation and location efficiency; building location impacts on energy use; sustainable community planning, transit-oriented development, new urbanism and energy/resources use; sustainable community certification and labeling; community engagement; integrated resource planning; policies and programs for community utilities and services; water and wastewater efficiency, treatment, and planning.

12

Display Presentations

PANEL LEADERS: **Elizabeth Doris**, *National Renewable Energy Laboratory* and TBD

DISPLAY ITEMS: Interactive software; video displays; charts and graphs; photographs; etc.



American Council for an Energy-Efficient Economy

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The Climate for Efficiency is Now

Who Should Attend? Individuals interested in addressing energy efficiency and climate change issues associated with buildings through innovative technologies, programs, and policies are encouraged to attend, including representatives from industries and utilities; architects; builders; financial and insurance professionals involved with buildings; clean-tech investors; manufacturers of building products, appliances and equipment; building owners and operators; engineers; government personnel; energy and climate researchers and educators; and consultants. Be sure to sign up early for this opportunity to participate in a unique blend of presentations and informal meetings.

Deadline for Abstract Submission: October 23, 2009

ABSTRACT COVER SHEET

Please include one cover sheet for each abstract submitted. List lead author first. (Please print legibly.)

TITLE OF ABSTRACT
AUTHOR(S) NAME(S)
COMPANY/ORGANIZATION

Author for Correspondence (not necessarily lead author):

NAME	
COMPANY/ORGANIZATION	
ADDRESS	
CITY, STATE, ZIP, COUNTRY	
TELEPHONE/WORK	CELL
E-MAIL	

CATEGORY OF SUBMISSION (please check one)

- Oral Presentation (Presentation + Published Paper)
- Visual Presentation (Display + Published Paper)
- Display Presentation (Display Only)

Panel Number(s) to which abstract is submitted:

1ST CHOICE:	2ND CHOICE:	3RD CHOICE:
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Panels:

- 1 Residential Buildings: Technologies, Design, Performance Analysis, and Building Industry Trends
- 2 Residential Buildings: Program Design, Implementation, and Evaluation
- 3 Commercial Buildings: Technologies, Design, Performance Analysis, and Building Industry Trends
- 4 Commercial Buildings: Program Design, Implementation, and Evaluation
- 5 Utilities: Energizing Efficiency
- 6 Revolutionizing Market Transformation
- 7 Human and Social Dimensions of Energy Use: Trends and Their Implications
- 8 Energy Efficiency and Climate Change: Integrating Policies
- 9 Strategies for Appliances, Lighting, Electronics, and Miscellaneous End Uses
- 10 Workforce Training for a Clean Energy Economy
- 11 Sustainable Communities: Systems Integration
- 12 Display Presentations

REVIEWER REQUEST FORM I would like to be a reviewer. I am qualified to review for the following panel numbers: ____; ____; ____; ____.

MY AREA OF EXPERTISE IS:	
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Submit each abstract by October 23, 2009

via ACEEE's Web site: <http://aceee.org/conf/10ss/10ssindex.htm>
or by mail to: ACEEE Summer Study Office
Attn: Rebecca Lunetta P.O. Box 7588, Newark, DE 19714-7588 USA

NOTE: Abstracts will not be accepted via e-mail or fax. If you have any questions about the abstract submission process, please contact Rebecca Lunetta at (302) 292-3966 or rlunetta@verizon.net.