

**HALF-DAY Event**  
**Wednesday, October 29, 2008, SPONSORED AND HOSTED BY**  
**2000 University Avenue, East Palo Alto, CA 94303**  
**9:00 AM – 2:00 PM**



**Topic:**

**“ALTERNATIVE ENERGY DEMYSTIFIED”**

***“Everything You Ever Wanted To Know, But Were Afraid To Ask”***

At time when investment in and development of clean technologies is at an all time high, it is important to understand the market realities surrounding the renewable energy phenomenon. During this half day seminar a team of experts will explore the following key issues surrounding the industry:

1. Carbon Emissions, Carbon Trading and Fuel Efficiency: We will explain the basics of the Kyoto Protocol and what it requires member countries to do? We'll also investigate the history and impact of carbon emissions on our planet and explain the policy and workings behind the proposed carbon trading (cap and trade) regime. We'll also explain the objectives of “fuel efficiency” in minimizing total energy needs and also in reducing carbon emissions from fossil fuels.

2. Economic Drivers and Impact of Credit Crisis: We will look at the economic drivers in the sector, and what needs to be done to promote development to a level at which renewable energy becomes a viable alternative to fossil fuels. To date Silicon Valley has been relatively unaffected by the general economic malaise which has affected other parts of the US, in large part due to the booming cleantech industry. We'll look at the impact of the credit crisis on a sector which is much more capital intensive than computer-related technologies generally pursued by Silicon Valley investment dollars.

3. SWOT Analysis of Major Renewable Energy Alternatives: We'll provide an overview of the strengths, weaknesses, threats and opportunities facing each of the main renewable energy alternatives (Solar, Wind, Biofuel, Nuclear), and identify the realities about current and near-term-projected cost of renewable energies compared to carbon producing fossil fuel alternatives. We'll also identify key technological breakthroughs needed before reliance upon fossil fuels can be truly minimized.

4. Solar Focus: Solar energy is considered by many as the most significant potential source of renewable energy. We'll take an in-depth look at the technological underpinnings of the different solar technologies in the market today (xSi, thin film, thermal and concentrators) and the companies adopting and developing these technologies. We'll also look at the suite of transactions being undertaken in an entire solar energy life-cycle (from silicon procurement, through technology development and licensing, to power purchase agreements), and will also present our distilled picture of the industry as a whole once the core technologies are adopted and standardized and the industry undertakes an inevitable period of consolidation.

**Speaker Introductions: Please see next page for detailed bios.**

**Moderator: Richard Horton, Partner with DLA Piper US LLP**

**Panelists: Don Augenstein, Institute for Environmental Management**

**John Benemann, Institute for Environmental Management**

**Mark Demarest, Principal, Noumenal Intellectual Capital Development**

**Daniel Kammen, Director, Renewable & Appropriate Energy Laboratory (RAEL)**

**Blake Simmons, Manager of the Energy Systems Department at Sandia National Labs**

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**Hosted and Sponsored by: DLA Piper US LLP**

2000 University Avenue, Palo Alto, CA 94303 (650) 833-2000

For directions, please see following page or the following link:

<http://www.dlapiper.com/global/about/offices/office.aspx?office=12&show=directions>

**Meeting Format:**

8:00 AM – 9:00 AM	Continental Breakfast and Registration
9:00 AM – 9:15 AM	Welcome by Richard Horton, Partner with DLA Piper and Program Introduction
9:15 AM – 10:00 AM	Mark Damarest's Presentation - Environmental Securities: Bridging the Gap from Dirtytech to Cleantech with Carbon Trading
10:00 AM – 10:15 AM	Networking Break
10:15 AM – 11:30 AM	Don Augenstein, Institute for Environmental Management John Benemann, Institute for Environmental Management, Inc. Blake Simmons, Sandia National Laboratories
11:30 AM – 11:45 AM	Networking Break
11:45 AM – 12:30 PM	SWOT on Clean-Tech Panel Discussion: The Skinny on Wind, Water, Biofuels and Nuclear
12:30 PM – 1:00 PM	Richard Horton's Presentation on Solar Focus: The Solar Revolution and the Technological Roadmap to Fossil Fuel Independence
1:00 PM – 2:00 PM	Buffet Lunch Dr. Daniel Kammen's Keynote Presentation

**Registration:**

<b>LES Members Registration Fees are:</b>	<b>\$75. if paid by Friday, October 24, 2008</b> <b>\$95. if paid after Friday, October 24, 2008</b>
<b>Non-LES Members Registration Fees are:</b>	<b>\$85. if paid by Friday, October 24, 2008</b> <b>\$105. if paid after Friday, October 24, 2008</b>

**Register online and pay with a credit card:**

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**\*Members of the following organizations will receive the LES Member rate:**

ALM, Bay Bio, The Churchill Club, International Business Forum, LARTA, Ocean Tomo, Practicing Law Institute, San Jose Bio, Tech Connect

*\*To receive the Partner organization registration discount please click on the Silicon Valley Chap Mtg PARTNER link on the LES Chapters calendar page.*

**SPONSORED BY:**



**Participating Organizations:** NASA, Churchill Club, Bay-Bio, San Jose Bio Center

**Wednesday, October 29, 2008 Event**

**SPONSORED AND HOSTED BY DLA Piper US LLP**

**“Accelerating Solar Innovation & Commercialization – Everything You Ever Wanted To Know, But Were Afraid To Ask”**  
**Speakers’ Detailed Bios**

**Moderator:**

**Moderator:** [Richard Horton](#) is a technology sector specialist and represents US, Australian and offshore multinationals throughout the US and the Asia-Pacific region in a broad range of complex technology sector transactions and advice, as well as intellectual property litigation and pre-litigation infringement counseling. He is admitted to practice in both California and Australia and actively advises clients under both US and Australian law.

Richard began his legal career in Australia, coming to the United States in January 2000. Before joining DLA Piper, he spent 3 years as a partner in the San Francisco office of Minter Ellison and 5 years in the technology and corporate group of the Palo Alto office of Skadden, Arps, Slate, Meagher & Flom. Prior to leaving Australia, Richard was a senior associate in the Sydney office of Mallesons Stephens Jaques and spent 12 months on secondment with Australia’s dominant telecommunications company, Telstra Corporation.

Mr. Horton speaks regularly before the Computer Law Association, the Licensing Executives Society, the Practicing Law Institute, the IP Society, and the Computer Law Association (now iTech Law).

**Panelists:**

[Don Augenstein](#), M.Sci. Biochemical Engineering, 1973 MIT, then worked in both large companies/start-ups: Dynatech, EnBio, ExxonMobile, EPRI, EMCON, and IEM, Inc.

[John Benemann](#), B.S. Chemistry and Ph.D. Biochemistry, UC Berkeley, then UC San Diego, again UC Berkeley (Sanitary Engineering Lab), EPRI (“Biofuels – a Survey,” 1978), EnBio, Georgia Tech. (Professor) and for past 20 years consultant

Biomass provides somewhat less than 5% of the primary energy consumption in the U.S., but is the major current source of energy for the majority of humanity, the lower income populations in developing countries, who rely on wood, charcoal and agricultural residues and wastes for their minimal fuel needs. Liquid biofuels - ethanol, biodiesel, and so-called next generation biofuels - are the main hope of the U.S., Europe and other developed countries to replace gasoline and diesel transportation fuels with a renewable fuels, to deal with both global warming and depleting oil resources. New biotechnologies for ethanol from lignocellulosic biomass, biodiesel from microalgae, and hydrocarbon fuels and even hydrogen from all biomass resources, are being developed thought to replace much of our current oil demand. However, combustion of biomass for power and heat are expanding and may remain as the major use biomass for energy applications

Photosynthesis underlies all these processes, and biotechnology can provide new tools to substantially increase the productivity of agriculture, forestry and novel plants such as microalgae. Increased photosynthetic efficiency could greatly expand biofuel resources, including from biomass plantations for lignocellulosic biomass or sugar and starch crops

The greatest potential of biofuels is as a component of other economic activities - agriculture, forestry, and, in particular, waste treatment - rather than as stand-alone processes. Methane from wastes, in particular from bioreactor landfills, can be implemented now and provide significant quantities of electricity, while greatly reducing greenhouse gas emissions. Biodiesel from algae would, for the foreseeable future, be a by-product of wastewater treatment.

Even with only current and prospectively near-term practical technologies, biofuels could provide, in combination with other plausible renewable energy technologies, most, even all, the fuel and energy required for a sustainable economy and enduring society.

[Daniel M. Kammen](#) is Professor in the Energy and Resources Group Energy and Resources Group (ERG) , Professor of Public Policy in the Goldman School of Public Policy and is Professor of Nuclear Engineering in the Department of Nuclear Engineering at the University of California, Berkeley . He is also the founding Director of the Renewable and Appropriate Energy Laboratory (RAEL). From 1993 - 1998 Kammen was an Assistant Professor of Public and International Affairs in the Woodrow Wilson School of Public and International Affairs at Princeton University. Kammen

played a key role in developing the interdisciplinary Science, Technology, and Environmental Policy (STEP) Program at Princeton, that awards undergraduate and masters certificates and a doctoral degree. He was STEP Chair from 1997 - 1999 and co-chair before that. In July of 1998 Kammen joined the interdisciplinary Energy and Resources Group (ERG) at the University of California, Berkeley as an Associate Professor of Energy and Society. Kammen is a Fellow of the American Physical Society and a Permanent Fellow of the African Academy of Sciences. Dr. Kammen's research interests include: the science, engineering, management, and dissemination of renewable energy systems; health and environmental impacts of energy generation and use; rural resource management, including issues of gender and ethnicity; international R&D policy, climate change; and energy forecasting and risk analysis. He is the author of over 90 journal publications, a book on environmental, technological, and health risks (*Should We Risk It?*, Princeton University Press) and numerous reports on renewable energy and development. He has been featured on radio, network and public broadcasting television and in print as an analyst of energy, environmental, and risk policy issues and current events. His recent work on energy R&D policy appeared in *Science*, and *Environment*, and has been featured on PBS, KQED, CNN, and in many newspapers via the Reuters news service.

[Blake Simmons](#) is the manager of the Energy Systems Department of the Sandia National Laboratories and the Vice-President for Deconstruction at the Joint BioEnergy Institute. A chemical engineer by training, his expertise includes biofuel cells, nanophotonic materials, microfluidics, nanofluidics, desalination, biomineralization and enzyme engineering. Most recently, he has been studying enzymes isolated from extremophile organisms that could be applied to the deconstruction of lignocellulosic biomass into biofuel material. He is also leading a research effort into the development of ionic liquids as a means of processing biomass.



**REGISTRATION FORM**

**LES-SVC October 29, 2008 HALF DAY EVENT Hosted by DLA Piper US LLP  
PLEASE NOTE – ALL REGISTRATIONS ARE HANDLED BY LES HQ!**

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<http://iweb.usa-canada.les.org/iweb/Events/CalendarEventsListView.aspx>

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*\*To receive the Partner organization registration discount please click on the Silicon Valley Chap Mtg PARTNER link on the LES Chapters calendar page.*

For questions regarding online registration please contact

Curtis Gore, LES Membership & Chapter Coordinator  
[cgore@les.org](mailto:cgore@les.org) (703) 299-8209

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

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Are you an LES Member?  Yes  No

How did you hear of this event? \_\_\_\_\_

Please let us know if you have any special dietary requirements. \_\_\_\_\_

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By registering for this event, you agree that LES may maintain your name and employer information completed in the registration form, as necessary, for its activities including that LES may publish the information on its website and in a list of registrants available to LES members and to meeting attendees. Reproduction of the list of registrants is not authorized and its use for general mailings for similar purpose, including use as a general mailing list for invitation to functions at LES meetings not specifically authorized by the LES or as a general mailing list for business solicitations, is prohibited.

LES Members: \$75. if paid by 10/24/2008  
\$95. if paid after 10/24/2008  
NON-Members: \$85. if paid by 10/24/2008  
\$105. if paid after 10/24/2008

**METHOD OF PAYMENT:**

**Total Payment:** \$ \_\_\_\_\_  
(LES reserves the right to charge the correct amount if different from the total payment listed.)

No refund of registration fees will be given after October 24, 2008.

**Enclosed is my check,** drawn on a U. S. bank, in U. S. funds, made payable to **LES** (Licensing Executives Society USA and Canada, Inc.) **Please put “LES-SVC 10/29/08 Event” in the memo section of the check.**

**Mail check and this completed form to:**  
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FAX (703) 836-3107**

**For more information or questions, please visit:  
[www.les-svc.org](http://www.les-svc.org) or contact:**

**Julie Alsing – LES-SVC Coordinator  
Email: [julie@alsing.net](mailto:julie@alsing.net)  
Phone: (510) 223-7810**

MAP TO  2000 UNIVERSITY AVENUE, EAST PALO ALTO, CA 94303-2214

Our East Palo Alto office is conveniently located near the University Avenue interchange at US 101 within the University Circle office complex. Visitor parking is in the rear of the building. The main entrance is located in the front of the building, facing the courtyard. Driving directions are below.

**From the South Bay; Highway 101 North - San Jose to Palo Alto:**

- Exit University Avenue in Palo Alto
- Head West on University Avenue and cross over Highway 101
- Turn right onto Woodland Avenue
- Make an immediate right into the University Circle office complex
- Please park on the left side of the building in the visitors parking lot

**From the Northern Peninsula; Highway 101 South - San Francisco to Palo Alto:**

- Exit University Avenue in Palo Alto and stay in the middle lane
- Head West on University Avenue for approximately .13 miles
- Turn right onto Woodland Avenue
- Make an immediate right into the University Circle office complex
- Please park on the left side of the building in the visitors parking lot

**From the South Bay; 280 North/South - San Jose/San Francisco to Palo Alto:**

- Exit Sand Hill Road and Head East
- Turn right onto Arboretum Road
- Turn left onto Palm Drive/University Avenue
- Head East on University Avenue for approximately 1.7 miles
- Turn left onto Woodland Avenue
- Make an immediate right into the University Circle office complex
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**From the South Bay; Los Gatos to Palo Alto - 85 North to 101 North:**

- Take 17 North to 85 North towards Mountain View
- 85 North merges into 101 North in Mountain View at Shoreline Blvd
- Exit University Avenue in Palo Alto
- Head West on University Avenue and cross over Highway 101
- Turn right onto Woodland Avenue
- Make an immediate right into the University Circle office complex
- Please park on the left side of the building in the visitors parking lot

**From the East Bay; 880 North/South to the Dumbarton Bridge:**

- Exit Interstate 880 at the Dumbarton Bridge (Hwy 84) (Toll for autos is \$2.00)
- After crossing the Dumbarton Bridge Hwy 84 becomes Bayfront Expressway
- Make a left onto Willow Road
- Merge onto Hwy 101 South towards San Jose
- Exit University Avenue in Palo Alto and stay in the middle lane
- Turn left onto University Avenue heading West
- Turn right onto Woodland Avenue
- Make an immediate right into the University Circle office complex
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