



ADVANCED ENERGY STORAGE

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days hrs min sec
OCTOBER 11-14

STARTS IN 2010

SEMINARS AND SESSIONS

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Agenda

Tuesday Wednesday
Thursday

Conference Welcome

8:15am to 8:30am

Richard Smith of FullPower, Inc., Conference Co-Chairman will provide opening comments, preview the agenda and introduce the sessions for Tuesday. Speaker biographies and links to company websites can be found on the Speakers Page.

Advances in High Performance Materials

Session 1 - 8:30am to 10:15am



Robert Tressler



New carbon and Li+ materials structures, electrolytes and other material developments promote the performance, cost and manufacturability of new energy storage products.

Critical Issues proposed for discussion include:

1. What is the best cost vs. Performance for the chosen material?
2. How much voltage increase can currently available materials and electrolytes achieve?
3. Other than cost, what is the most important characteristic of your material?
4. What is the most significant barrier to your company as it approaches the market?

Contributing Speakers and Panel Members include:

Dr. Aaron Feaver, Vice President and CTO, EnerG2, Inc.
C. Joseph Farahmandi, President and CEO, Ionix Power Systems, LLC
Dr. Carl Nesbitt, CTO, Reticle, Inc.

Coffee Break

Break 1 - 10:15am to 10:30am



Coffee Break Sponsored by: EnerG2

High Power Components, Ultracapacitors and Batteries

Session 2 - 10:30am to 12:00pm

New products and technologies that will provide the building blocks for high efficiency energy storage.

Critical Issues proposed for discussion include:



Mark Cohen

1. What energy density and power density can be achieved in the next 5 years?
2. Are ultracapacitors and high power batteries complementary or competitors?
3. What are the three most important parameters required to dramatically increase the adoption of high power energy storage?
4. What are the most likely breakthroughs in cost or performance in the next 5 years?

Contributing Speakers and Panel Members include:

Mr. Richard Brody, Vice President of Business Development, PowerGenix, Inc.
 Mr. Harvey Wilkinson, Vice President of Business Development, Ioxus, Inc.
 Dr. Andrew F. Burke, ITS, UC Davis

Lunch

Break 2 - 12:00pm to 1:30pm



Lunch Sponsored by: KiloFarad International

Advanced Hybrid Solutions

Session 3 - 1:30pm to 3:00pm



John Miller

Advances in the combination of battery and ultracapacitor structures to optimize performance for specific applications or characteristics.

Critical Issues proposed for discussion include:

1. Which is most likely to be accepted by users, asymmetrical capacitors or hybrid capacitor/battery systems?
2. What applications are best served by high power batteries, ultracapacitors and hybrids?
3. Which applications will most likely be advanced with the availability of hybrid systems?
4. What are the best and worst attributes of hybrid energy storage systems?

Contributing Speakers and Panel Members include:

Dr. Ed Buiel, Vice President and CTO, Axion International Systems, Inc.
 Mr. Jeff Myron, Account Manager, JSR Micro, Inc./JM Energy, Inc.
 Dr. Michael Meinert, Head of R&D, Siemens AG, Mobility

Coffee Break

Break 3 - 3:00pm to 3:15pm



Coffee Break Sponsored by: JSR Micro - Materials Innovation

Integrated Systems and Power Electronics

Session 4 - 3:15pm to 5:00pm



Chad Hall



Combining the best power and energy solutions to achieve optimal energy storage solutions.

Critical Issues proposed for discussion include:

1. What needs to be developed in the electronics field to increase the adoption of high power storage devices?
2. What are the cost tradeoffs between electronic control and passive integration?
3. What applications are currently using electronics as part of the energy storage box?

Contributing Speakers and Panel Members include:

Dr. Abas Goodarzi, President, US Hybrid Corporation
 Mr. Joseph Ambrosio, General Manager, Electromotive Designs, LLC
 Steve Medwin, Director of Advanced Research, The Raymond Corporation

Conference Reception

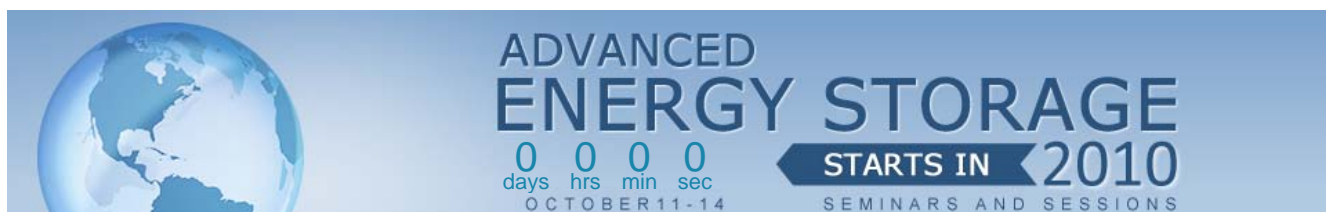


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Agenda

Tuesday Wednesday
Thursday

Sessions Resume

8:15am to 8:30am

Dr. Andy Burke, of the Institute for Transportation Studies at UC Davis, Conference Co-Chairman will provide introductory comments, preview the day's agenda and introduce the sessions for Wednesday. Speaker biographies and links to company websites can be found on the Speakers Page.

Automotive and Light Mobile Systems

Session 5 - 8:30am to 10:15am



Ahmad Pesaran



HYDROGENICS
Advanced Hydrogen Solutions



Maxwell
TECHNOLOGIES

The future of energy capture, storage and pulse power and the technologies' impact on the next generation of light mobile vehicles, automobiles, forklifts, and industrial haulers.

Critical Issues proposed for discussion include:

1. Other than cost what is the biggest barrier to large scale usage of high power energy storage?
2. What current applications using high power systems are in production?
3. Why is it taking so long to accept high power energy storage in automobiles, In spite of the significant demand for energy efficiency improvements?
4. What are the most likely near term applications in light mobile vehicles?

Contributing Speakers and Panel Members include:

Mr. Kevin Harris, Director of Business Development, Hydrogenics, Inc.
Mr. David Alexander, CEO, IVUS Energy Innovations
Mr. Mike Everett, Vice President and CTO, Maxwell Technologies

Coffee Break

Break 1 - 10:15am to 10:30am



Coffee Break Sponsored by: Teal

Heavy Transportation and Mass Transit

Session 6 - 10:30am to 12:00pm

QUANTUM
TECHNOLOGIES



The advantages of efficient, advanced energy storage provide environmental benefits to mass transit systems, industrial trucking and rail.

Critical Issues proposed for discussion include:

1. With the global success of using ultracapacitors on busses, what is the next likely production application?



David Mazaika



2. What is the most significant improvement required to create a larger market value for energy storage in heavy vehicles?
3. Why are trash trucks not using high power energy for hybrids?
4. What is the tradeoff between electrical energy storage and compressed gas and fluids?

Contributing Speakers and Panel Members include:

Mr. Jin Park, Senior Engineer, Nesscap, Inc.
 Mr. Jim Burns, President, L3 Research
 Mr. Rob Del Core, Director of Business Development, ISE Corp

Lunch

Break 2 - 12:00pm to 1:30pm



Lunch Sponsored by: FullPower, Inc.

Data Integrity and Enterprise Backup

Session 7 - 1:30pm to 3:15pm

Session Chair
 Pending



Energy storage to prevent the loss of critical data. The issues and solutions for integrating advanced energy components with flash memory, controllers and servers.

Critical Issues proposed for discussion include:

1. Which is most likely to be accepted by users, asymmetrical capacitors or hybrid capacitor/battery systems?
2. What applications are best served by high power batteries, ultracapacitors and hybrids?
3. Which applications will most likely be advanced with the availability of hybrid systems?
4. What are the best and worst attributes of hybrid energy storage systems?

Contributing Speakers and Panel Members include:

Joe Freiman, Senior Battery Technologist, Texas Instruments
 Lane Hauck, Technology Staff, Agiga Tech a Cypress Semiconductor Company
 Joe Rana, National Sales Manager, Tecate Group

Coffee Break

Break 3 - 3:15pm to 3:30pm



Coffee Break Sponsored by: Tecate Group

Stationary Power, Industrial and Power Quality

Session 8 - 3:30pm to 5:00pm



John Sowers

Making intelligent energy management systems that will have a significant impact on environmental advances.

Critical Issues proposed for discussion include:

1. What are the comparative advantages and disadvantages for energy storage between ultracapacitors, batteries and flywheels?
2. What are the most critical requirements for supporting stationary power using energy storage?
3. How significant is the industrial market place for smart meters, remote sensing and health monitoring?
4. Will more government regulation help or hinder the growth of energy storage in the industrial and smart grid markets?



BAE SYSTEMS

Contributing Speakers and Panel Members include:

Mr. Larry Stapleton, Vice President of Sales, Ballard Fuel Cells
 Mr. Mark Cohen, Product Director, ReliOn, Inc.
 Mr. Tom Apalenek, Senior Principle Systems Engineer, BAE Systems

Awards Ceremony and Industry Dinner Cruise



Sponsored by Ioxus, Inc., the first annual AES Awards Ceremony and Industry Dinner Cruise will take place Wednesday evening on the Bahia Belle. A "Turn of the Century", Mississippi-style sternwheeler, the Bahia Belle will host us as we cruise the waters of Mission Bay. We'll have a great opportunity to network with other industry leaders as we enjoy the perfect climate of San Diego in October. As we head back to the dock, we'll end the evening with a guest speaker and present the AES Award for Contribution to an Efficient Energy Future. Finally, we'll announce the winner of the Speaker's Apple iPad Contest and draw the winning entry for the Apple iPad Two-Minute Critical Issues Survey.

The first 100 conference registrations will receive complimentary Dinner Cruise admission, courtesy of Ioxus, Inc. Additional tickets will be available on-site for \$70.00 per person.

[More Registration Information](#)

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Sessions Resume

8:15am to 8:30am

Jim Nickerson, Administrator of Kilofarad International, will provide an overview of Kilofarad International and introduce the conference sessions for Thursday. Speaker biographies and links to company websites can be found on the Speakers Page.

Renewable Energy Generation, Utilities and Smart Grid

Session 9 - 8:30am to 10:15am



Lee Krevat



DRESSER-RAND



Advanced energy storage will be the enabling technology for renewable energy generation systems and power distribution networks.

Critical Issues proposed for discussion include:

1. Where are the major opportunities for energy storage in the smart grid?
2. What are the advantages and disadvantages of high power electrical storage systems for grid balancing
3. What role do the energy storage play in the total smart grid systems?
4. Is energy shuffling really advantageous and cost effective using today's technology?

Contributing Speakers and Panel Members include:

Mr. Jim Heid, Vice President, Dresser-Rand
Mr. Andy Naukam, Business Development, UltraLife, Inc.
Mr. Charles Toca, Business Development, Prudent Energy, Inc.

Coffee Break

Break 1 - 10:15am to 10:30am

Coffee Break Sponsored by: Shenzhen Capchem Technology Co., Ltd



Funding Options and Resources

Session 10 - 10:30am to 12:00pm

The advantages of efficient, advanced energy storage provide environmental benefits to mass transit systems, industrial trucking and rail.



Richard Smith



FIRELAKE
CAPITAL MANAGEMENT



Critical Issues proposed for discussion include:

1. Is the collapse in venture funding availability about to change and if so will it be directed at energy storage technologies?
2. Is the innovative research grant money from the government helping the startup and new innovators with getting to market?
3. What is the investment climate for energy storage related technologies now and in the future?

Contributing Speakers and Panel Members include:

Ms. Kelsey Lynn, Principal, Firelake Capital Management
 Mr. Jim Quinlan, Managing Director, Trinity Equity Partners
 Mr. David Andresen, Managing Director of Cleantech, Oracle Capital Advisors, LLC
 Mr. Victor Vilaplana, Corporate Development Manager, Sempra Energy

Conference Adjourns - See you next year!

KFI Members Meeting

1:30pm to 3:00pm

KiloFarad International will conduct a members meeting and election of the Board of Directors in the main conference room.

KFI Board Meeting

3:15pm to 4:00pm

The new KFI Board of Directors will meet in the Board Room

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