

Electrical Energy Storage Technologies and Applications Workshop

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Who Should Attend? Utility employees, energy industry consultants, manufacturers, government employees, academics, graduate students, and other individuals with an interest in energy storage technologies and applications to smart grid

Dates: March 20-21, 2013 9:00-5:00pm

Deadline for registration: March 8. Space is limited. We encourage participants to register early. Note: For site access, foreign national participants require special clearance that can take up to 4 weeks for approval.

Fees: \$195 (includes CD of workshop materials, refreshments, and lunch)

Location: **Argonne National Laboratory**, 9700 South Cass Avenue, Lemont, IL

Lodging: A list of hotels onsite and nearby Argonne can be found at <http://nano.anl.gov/users/hotels.html>

Sponsored By: **Robert W. Galvin Center for Electricity Innovation**, Illinois Institute of Technology, <http://www.iitmicrogrid.net/>

SESSIONS	SPEAKERS
March 20 9:00-10:30am Introduction to Energy Storage	Mohammad Shahidehpour , Bodine Chair Professor of ECE and Director, Galvin Center for Electricity Innovation, Illinois Institute of Technology Jeff Chamberlain , Deputy Director of Development & Demonstration, Argonne Joint Center for Energy Storage Research, Argonne National Laboratory
11:00am-12:30pm Electrochemical/Battery Storage Technologies	Leon Shaw , Professor of Materials Engineering and Rowe Family Endowed Chair Professor in Sustainable Energy; Director, Center of Energy Storage and Conversion, Illinois Institute of Technology
1:30-3:00pm Grid-Scale Energy Storage	Vladimir Koritarov , Deputy Director, Center for Energy, Environmental, and Economic Systems Analysis, Argonne National Laboratory
3:30-5:00pm Distributed Energy Storage	Ali Nourai , Director, Electricity Storage Association; Executive Consultant, KEMA
March 21 9:00-10:30am Electric Vehicles and Vehicle-to-Grid	Ted Bohn , Principal Engineer, Center for Transportation Research, Advanced Powertrain Research and Vehicle-Grid Connectivity, Argonne National Laboratory

<p>11:00am-12:30am Economics and Financing of Energy Storage</p>	<p>Paul Denholm, Senior Energy Analyst, Energy Forecasting and Modeling Group, National Renewable Energy Laboratory</p>
<p>1:30-3:00pm Electric Industry Perspectives on Storage</p>	<p>Ralph Masiello, Innovation Director and Senior Vice President, KEMA</p>
<p>3:30-5:00pm Argonne Storage Hub and Tour of Lab Facilities</p>	<p>George Crabtree, Argonne Distinguish Fellow and Director, Argonne Joint Center for Energy Storage Research, Argonne National Laboratory</p>

Motive:

Recently, the U.S. Department of Energy awarded \$120 million to establish a Joint Center for Energy Storage Research at Argonne. The Joint Center will bring together multidisciplinary researchers from the government, academia, and industry to overcome critical scientific and technical barriers and create new breakthrough energy storage technology. The Workshop which is sponsored by the Robert W. Galvin Center for Electricity Innovation at Illinois Institute of Technology will provide a timely introduction to these exciting market developments.

Learning Objectives

- Fundamentals of energy storage and its applications
- State-of-the-art and emerging energy storage technologies
- Performance criteria for energy storage technologies and applications
- Energy storage marketplace
- Costs and benefits for energy storage at the grid and distributed scales
- Interconnectivity of energy storage with the electric grid
- Research, development, and deployment challenges for energy storage technologies
- Introduction to Argonne's energy storage R&D and partnerships