

Monday, April 11, 2011 8:30am – 5:30 pm Registration 8:00 am – 1:30 pm at Concourse	
Plenary & Keynote: Towards Carbon Neutral Vehicles Room: Vandenberg 8:30 am to 12:30 pm Session Chair: MaryAnn Wright , Vice President Technology and Innovation, <i>Johnson Controls</i>	Plenary Session: Enabling Technology for Energy Efficient Vehicles Room: Vandenberg & Concourse 1:30 pm to 5:30 pm Session Co-Chairs: Christian Mohrdeick , PhD, Director – Fuel Cell & Battery Drive Development, <i>Daimler</i> Mike Wixom , Senior Director, <i>A123 Systems</i>
8:30 am Introduction & Opening Remarks MaryAnn Wright <i>Johnson Controls</i>	1:30 pm Start-Stop: A Global Solution for Energy Efficiency Today Craig Rigby <i>Johnson Controls</i>
8:45 am The Road to Mass Commercialization of Energy Efficient Vehicles: Today's Full Spectrum of Technology MaryAnn Wright <i>Johnson Controls</i>	2:00 pm Towards Virtual Prototyping of Li-ion Batteries – Challenges in Mechanical Modeling of Electrode/Separator Assembly Lallit Anand, PhD Tom Wierzbicki, PhD <i>Massachusetts Institute of Technology</i>
9:15 am Advanced Battery R&D Activities Supported by the US Department of Energy Tien Duong, David Howell, PhD <i>U.S. Department of Energy</i>	2:30 pm The Importance of Usable Energy and Efficiency in Lithium Ion Batteries Michael Wixom, PhD <i>A123 Systems</i>
9:45 am Diversified Markets for A123 Nanophosphate Lithium Ion Batteries Les Alexander <i>A123 Systems</i>	3:00 pm Break
	3:30 pm U.S. Army's Ground Vehicle Energy Storage R&D Programs Sonya Zanardelli <i>TARDEC</i>
10:15 am Break	4:00 pm Thermodynamics and Kinetics of Intrinsic Defects in Lithium Peroxide: Relevance for Non-Aqueous Li-Air Batteries Maxwell Radin, PhD Jill Rodrigues, PhD Donald Siegel, PhD <i>University of Michigan</i>
11:00 am GM Volt Roll-Out Roland Matthe, PhD <i>General Motors</i>	
11:30 am Advanced Li-ion Battery Thermal Management at Battery Pack and Cell Levels Chanwoo Park, PhD <i>University of Nevada</i>	4:30 pm Voltec Battery Design and Manufacturing Robert Parrish, Kanthasamy Elankumaran, Milind Gandhi, Bryan Nance, Patrick Meehan, Dave Milburn, Saif Siddiqui, Andrew Brenz, <i>General Motors</i>
12:00 pm Evaluation of a Hybrid Energy Storage System for EV's Karl Bo Albert Mikkelsen <i>General Motors</i> Steve Lambert, PhD <i>University of Waterloo</i>	5:00 pm Manufacturing for Battery System Assembly Menachem Kimchi <i>EWI</i>
12:30 pm Session Adjourned & Lunch	5:30 pm Session Adjourned
	6:00 pm Reception & Dinner at Grizzly Peak, 120 West Washington, Ann Arbor, MI 48104 No Transportation will be provided

To **register and exhibit** call (734) 418-2365, email to info@batterycongress.org or info@gamcinc.org or fax (734) 418-2356.

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<p align="center">Tuesday, April 12, 2011 8:30 am – 5:30 pm , Registration 8:00 am – 12:00 noon</p>	
<p>Keynote Session: Battery & Vehicle Modeling <i>Room: Vandenberg 8:30 am to 12:00 pm</i> Session Co-Chairs: Chi Paik, PhD, Technical Leader, <i>Ford Motor Company</i> Yi Ding, PhD, Ground Vehicle Power & Mobility Engineer, <i>US Army RDECOM-TARDEC</i> Warren Parsons, Engineering Group Manager, <i>General Motors</i></p>	<p>Program: Advanced Materials, Processes & Characterization <i>Room: Vandenberg 1:00 pm to 5:30 pm</i> Session Co-Chairs: Saemin Choi, PhD, Chief Technical Officer, <i>Inmatech</i> Don Siegel, PhD, Professor, <i>University of Michigan</i></p>
<p>8:30 am Modeling of Batteries for Automotive Propulsion Dawn Bernardi, PhD Rajeswari Chandrasekaran, PhD <i>Ford</i></p>	<p>1:00 pm High Energy Electrodes for Li-ion Batteries: Current Status and Challenges Jagjit Nanda, PhD <i>Oak Ridge National Laboratory</i></p>
<p>9:00 am Stresses In a Li-Ion Battery Cell Xinran Xiao, PhD Wei Wu, PhD <i>Michigan State University</i></p>	<p>1:30 pm The Synthesis and Characterization of Lithium Titanate Aerogels Ryan Maloney Jeff Sakamoto, PhD <i>Michigan State University</i></p>
<p>9:30 am Modeling of Lithium-ion Batteries for Crash Safety Elham Sahraei, PhD <i>George Washington University</i> Rich Hill, PhD Tom Wierzbicki, PhD <i>Massachusetts Institute of Technology</i></p>	<p>2:00 pm In-Situ Characterization of State-of-Charge Kinetics of High-Power Battery by Neutron Diffraction Technique Zhili Feng, PhD, Ke An, PhD Xun-Li Wang, PhD, Alexander Stocia, PhD, Ling Yang, PhD Haley Skorpenske, Wei Zhang, PhD, Kevin Rhodes, PhD Stephen Nagler, PhD, Claus Daniel, PhD, David Wood, PhD <i>Oak Ridge National Laboratory</i> J. Kim, PhD, <i>Dow Kokam</i> Steve Harris, PhD, <i>General Motors</i></p>
<p>10:00 am U.S EIS Modeling of Batteries Subjected to Interfacial Process Stimulation Bernard Nolan, PhD <i>UMASS – Dartmouth</i> Victor Stancovski, PhD <i>Clean Energy Innovations</i></p>	<p>2:30 pm Application Driven Electrochemistry – A Systems Approach to Energy Storage Mike Andrew <i>Johnson Controls</i></p>
<p>10:30 am Break</p>	<p>3:00 pm Break</p>
<p>11:00 am Test and Modeling of the Electrode/Separator Assembly Tomasz Wierzbicki, PhD Lallit Anand, PhD Elham Sahrei, PhD <i>Massachusetts Institute of Technology</i></p>	<p>3:30 pm Quantifying Lithium Concentration in a Li-ion Battery Using Neutron Radiography Xinfan Lin, PhD, Jason Siegel, PhD, Anna Stefanopoulou, PhD <i>University of Michigan</i></p>
<p>11:30 am Chevrolet Volt Body: Structure and Energy Storage Package Design Monte Taylor <i>General Motors</i></p>	<p>4:00 pm Focused-Ion-Beam Time-of-Flight Secondary Ion Mass Spectrometry (FIB TOF SIMS) Study of Sei Formation in Lithium Ion Batteries Peng Lu, PhD, Stephen Harris, PhD <i>General Motors</i></p>
<p>12:00 pm Session Adjourned</p>	<p>4:30 pm Anodes for Batteries Timothy Mason, PhD <i>University of Missouri St. Louis</i></p>
<p>12:00 pm Lunch</p>	<p>5:00 pm Plasma Spray Synthesis of Nanostructured V2O5 Thin Films for Electrical Energy Storage B.C. Satishkumar, Vikram Varadarajan, PhD, Pravansu Mohanty <i>University of Michigan</i> Jagjit Nanda, PhD <i>Oak Ridge National Laboratory</i></p>
	<p>5:30 pm Adjournment</p>

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