

**Program Monday, April 23, 2012**

Registration 8:30am – 9:00 am

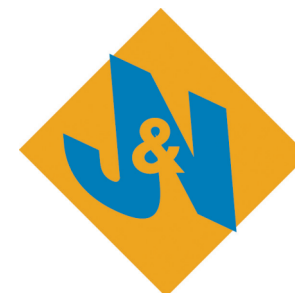
<b>Plenary &amp; Keynote: Issues on Vehicle Electrification</b> <i>Room: Vandenberg 8:30 am to 12:00 pm</i> Session Chair: <b>Nasim Uddin, PhD</b> , President, <i>Global Automotive Management Council</i>		<b>Performance: Evaluations, Testing &amp; Product Design</b> <i>Room: Vandenberg 1:00 pm to 5:30 pm</i> Session Co-Chairs: <b>Elham Sahraei, PhD</b> , Research Associate, <i>MIT</i> <b>Mahmoud Ghannam, PhD</b> , Safety Engineer, <i>Ford</i> <b>Warren Parsons</b> , Group Manager, <i>General Motors</i>	
8:30 am	<b>Issues affecting the Economics of BEVs and EREVs</b> Ed Tate, PhD <i>General Motors</i>	1:00 pm	<b>Advanced Electronic Equipment and Procedures for Automotive Li-Ion Battery Testing</b> Nils Lohmann, Manuel Fischnaller, Joachim Melbert, PhD, Thomas Musch, PhD <i>Ruhr-Universitaet Bochum</i>
9:00 am	<b>Advances in Mechanical Modeling of the Lithium-ion Batteries and Battery Packs</b> Tomasz Wierzbicki, PhD Elham Sahraei, PhD <i>MIT</i>	1:30 pm	<b>Signal Analysis of Dynamic Abuse Curb Impact Tests</b> Jinkoo Lee, PhD Mahmoud Ghannam, PhD Dale Crombez <i>Ford</i>
9:30 am	<b>An Infrastructure to Optimize the Manufacturing Process</b> Lee Sellenraad, CCM, LEED AP <i>Lathrop Turner Industrial</i>	2:00 pm	<b>Large Format Batteries and Latent Defect Testing</b> Jan Swart <i>Exponent Engineering and Scientific Consulting</i>
10:00 am	<b>Break</b>	2:30 pm	<b>Break</b>
10:30 am	<b>Status of International Battery Standards Committee</b> Robert Galyen <i>Magna E-car Systems</i>	3:00 pm	<b>Detecting and Modeling the Onset of Short Circuit in a Li-ion Cell Under Mechanical Loading</b> John Campbell, PhD Elham Sahraei, PhD Tomasz Wierzbicki, PhD <i>Massachusetts Institute of Technology</i>
11:00 am	<b>The Battery Need for Military Vehicles</b> Yi Ding, PhD <i>US Army RDECOM-TARDEC</i>	4:00 pm	<b>Performance Evaluation of a Lithium-Air Battery Prototype Operating Under Efficient Air Cathode Membrane</b> Susanta Das, PhD, Li Sun, PhD, Joel Berry, PhD <i>Kettering University</i> Salma Rahman, Jianfang Chai, James Godschalx, Steve Keinath, Abhijit Sarkar
11:30 am	<b>Q &amp; A PANEL DISCUSSION</b>	4:30 pm	<b>Internal Short Circuit in Li-ion Batteries Simulated by Mechanical Pinching</b> Wei Cai, PhD, Hsin Wang, PhD, Edgar Lara-Curzio, PhD <i>Oak Ridge National Laboratory</i> Hossein Maleki, PhD <i>Motorola Mobility</i>
12:00 pm	<b>Session Adjourned &amp; Lunch</b>	5:00 pm	<b>Modeling of Li-Ion Batteries for Automotive Applications: Time Domain, Frequency Domain and Aging Effects</b> Nils Lohmann, Manuel Fischnaller, Joachim Melbert, PhD, Thomas Musch, PhD <i>Ruhr-Universitaet Bochum</i>
		5:30 pm	<b>Session Adjourned – Reception &amp; Dinner at Grizzly Peak Brewery</b> <i>No Transportation Will Be Provided</i>

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

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**Program Tuesday, April 24, 2012**

Registration 8:30am – 9:00 am

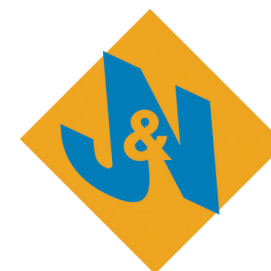
<b>Advances in Battery Propulsion Technology – Materials to Manufacturing Process Optimization</b> Room: Vandenberg 9:00 am to 12:30 pm Session Co-Chairs: <b>Yi Ding, PhD</b> , Engineer, <i>US Army RDECOM-TARDEC</i> <b>Sharon Xiao, PhD</b> , Associate Professor, <i>Michigan State University</i>		<b>Thermal Management, Service Life &amp; Efficiency</b> Room: Vandenberg 1:30 pm to 4:30 pm Session Chair: <b>Tom Wierzbicki, PhD</b> , Professor, <i>MIT</i>	
9:00 am	<b>Dynamic, Real-Time Control of Interfacial Properties in Secondary Batteries</b> Bernard Nolan, PhD, Patrick DaSilva, PhD, Anthony Pacheco, PhD <i>UMASS-Dartmouth</i> Victor Stancovski, PhD <i>Clean Energy Innovations</i>	1:30 pm	<b>Evaluation of the Effects of Thermal Management on Battery Life in Plug in Hybrid Electric Vehicles</b> Tugce Yuksel Jeremy Michalek, PhD <i>Carnegie Mellon University</i>
9:30 am	<b>Investigation of SEI Formation Mechanisms: A TOF SIMS and XPS Study</b> Peng Lu, PhD Stephen Harris, PhD <i>General Motors</i>	2:00 pm	<b>Electrical Contact Resistance in Lithium-ion Battery Modules</b> Peyman Taheri, PhD Majid Bahrami, PhD <i>Simon Fraser University</i>
10:00 am	<b>Design And Implementation Of An Electric Powertrain For The Kiira Electric Vehicle</b> Fred Matovu <i>KEV</i>	2:30 pm	<b>Battery System Level Thermal Analysis Using Linear Parameter Varying (LPV) Method</b> Xiao Hu, PhD Shaohua Lin Scott Stanton <i>ANSYS</i>
10:30 am	<b>Break</b>	3:00 pm	<b>Break</b>
11:00 am	<b>Laser Materials Processing</b> Jake Wieloch <i>Rofin-Baasel</i>	3:30 pm	<b>Transient Temperature Distribution in Prismatic Polymer Lithium-ion Batteries</b> Peyman Taheri, PhD Majid Bahrami, PhD <i>Simon Fraser University</i>
11:30 am	<b>Innovative Sealing Methods for Fuel Cells and Batteries</b> Al Decato <i>Henkel</i>	4:00 pm	<b>Thermal Analysis of a Li-Ion Battery Cell</b> Wei Wu, PhD Sharon Xiao, PhD <i>Michigan State University</i>
12:00 pm	<b>Battery Assembly: Welding Dissimilar Materials</b> David Speth <i>EWI</i>	4:30 pm	<b>Session Adjourned</b>
12:30 pm	<b>Session Adjourned &amp; Lunch</b>		

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## General Registration Form

PLEASE ATTACH BUSINESS CARD, PRINT OR TYPE

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

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

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

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

P.O. Box \_\_\_\_\_ Mail Code: \_\_\_\_\_ CIMS code: \_\_\_\_\_ Suite: \_\_\_\_\_

City: \_\_\_\_\_

State/Province: \_\_\_\_\_

Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

PLEASE INDICATE BY AN "X" IN THE  
APPROPRIATE BLANK BOX(ES)

I will attend CONFERENCE(S) on:  April 23  April 24

I will attend RECEPTION on  April 23

### FEE SCHEDULE FOR GENERAL REGISTRANTS

Registration Fee is \$995 (After March 8 the fee is \$1295) (Access to sessions for 2 days of the conference; also includes a copy of the Proceedings & presentations CD, coffee breaks, lunch(es), reception, access to the exposition, and all other functions)

PAYMENT METHODS: (All checks must be drawn from U.S. banks in U.S. funds only)

Make Check Payable to: Global Automotive Management Council. In the amount of, US\$ \_\_\_\_\_

For Credit Card Payment: MasterCard VISA American-Express

Account #: \_\_\_\_\_ Expiration Date \_\_\_\_\_

(Cardholder's name & billing address if different from the above)

**Signature:** \_\_\_\_\_

**Date** \_\_\_\_\_

Mail or FAX Registration Information by March 8, 2012 to: GAMC, 5305 Plymouth Road, Ann Arbor, MI 48105, USA. FAX: 734 418 2356 PHONE: 734 418 2365. REFUND POLICY: NO REFUNDS after March 8, 2012.

There is a 45% service charge on cancellation(s) before, March 8, 2012.