



The Electrochemical Society
Seminar Notice: Tuesday, December 6th, 2011

Battery Life Challenges for Plug-In Electric Vehicles
Oliver Gross

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Chrysler Group LLC*

While energy density, performance and cost dominate much of the discussions around advanced batteries for electrified vehicles, it is their long-term durability which remains the most current and prevalent challenge to the auto maker. Long-term durability specifications and test determination methods have been developed for advanced automotive batteries. These methods and their ramifications to real-world use will be presented. Vehicle-specific integration considerations will be contrasted with respect to their influence on battery use, including the impact of active thermal management. An overview of the effect of deviations from the general durability model, and the goal for a total durability model will also be provided.

Mr. Gross is the Energy Storage Systems Specialist for Chrysler Group's Electrified Powertrain Systems Engineering Department, responsible for the global energy storage system technology roadmap. He has been with Chrysler since 2010. Prior to Chrysler, Mr. Gross has had 18 years' experience in the electrochemical energy storage field, working at Cobasys, Valence Technology, and Ultralife Battery Company. He is a member and Project Manager of the United States Advanced Battery Consortium (USABC) Technical Advisory Committee. Mr. Gross is a member and Section Chairman for the SAE Battery and Energy Storage Standards Committee. He has earned Graduate and Undergraduate engineering degrees from the University of Toronto.

Date: Tuesday, *December 6th, 2011*
Location: Lawrence Technological University
21000 West Ten Mile Road, Southfield, MI 48075
Building #5 (Taubman Welcome Center), 4th Floor, Room 406
Use Parking Lot A, C or D (Lots C & D are accessed off NW Highway)
Time: 5:30 pm Reception / 6:30 pm Dinner / 7:30 pm Speaker
Price: \$20 Members / \$22 Guests / \$10 Students **Payment:** Cash or Check
RSVP by: Monday November 28, 2011 to Dr. Stephen Maldonado
smald_at_umich_dot_edu
<http://www.electrochem.org/ecs/sections/detr/detr.htm>

