



**The Electrochemical Society – Detroit Section**  
*Seminar Notice: Tuesday, February 19<sup>th</sup>, 2008*

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**BATTERY HAZARD MODES AND RISK MITIGATION ANALYSIS**

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The safety of the on-board battery in electric, hybrid, and plug-in vehicles is of paramount importance to the U.S. automakers. Several high profile Li-Ion battery fire incidents in 2006 that resulted in the recall of millions of laptop computers further alerted the carmakers that even the estimated hazardous failure rates of 1 in tens of million cells could be potentially devastating to the nascent HEV industry. Such concerns have been cited for Toyota Motor Corp.'s decision in June 2007, to delay the introduction of Li-Ion batteries in its 2008 model-year Prius HEV.

This talk will discuss a methodology developed by the United States Advance Battery Consortium (USABC) called Hazard Modes and Risk Mitigation Analysis, HMRMA for short, to address the problem of risk assessment for advance batteries. This methodology quantifies the risk associated with each hazard and becomes a valuable design tool to develop the most effective ways of reducing the risk.

**Date:** *Tuesday, February 19<sup>h</sup>, 2008*

**Location:** Lawrence Technological University  
21000 West Ten Mile Road  
Southfield, MI 48075  
**Building #5 (Taubman Welcome Center), 4<sup>th</sup> 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 / \$15 Students      **Payment:** Cash or Check

**RSVP by:** **Tuesday, February 12<sup>th</sup>, 2008 to Chad Kotarba**  
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