

### **Educational Short Course 3: Smart Grid Charging and V2G**

**Thursday, September 8, 2011, 2:00 PM – 5:30 PM (with a 35-minute break from 3:40 PM until 4:15 PM)**

**Speaker:** Rich Scholer, Chrysler Group LLC

#### **Short Biography:**

- **Work related:** Rich is the lead at Chrysler for Vehicle to Grid Interface. Experience includes the last 20 years designing Electric, Hybrid, Plug-in Electric and Fuel Cell Vehicles. Previous experience includes 13 years with Heavy & Medium duty trucks, 10 years on military tracked and wheeled vehicles along with communication equipment for both ground and airborne vehicles.
- **Codes & Standards:** Chairs the SAE J2836™, J2847, J2931 & J2953 PEV Communication Task Force. Active member of the Hybrid Committee & J1772™ Task Force along with the ISO/IEC Joint Working Group for PEV communication.
- **Re-elected to SGIP Governing Board** representing the Electric Transportation Industry.

**Short Course Description:** This educational short course will give a brief overview of Smart Grid with a clear description of how and why the vehicle will need to communicate to this grid. An update on the standards and the communication protocol development necessary for this Vehicle to Grid interface will be provided. Discussion will include the Reverse Power Flow development and the net effects this may have on the Electrical Grid, with a primary focus on the communications and architecture needed during these events.