IEEE International Electric Vehicle Conference to Showcase Emerging Trends in EV Tech

Posted by Chris Warner

The first IEEE International Electric Vehicle Conference (IEVC) is scheduled for 4-8 March 2012 at the TD Convention Center in Greenville, SC. IEVC 2012 is designed to facilitate the exchange of information on global trends in technology, engineering, standards and deployment aspects among industrial, academic and regulatory thought leaders for the rapidly-growing worldwide electric vehicle ecosystem.

"The inaugural IEVC conference brings together some of the leading experts from major automotive manufacturers, research institutions and electric utilities from around the world," said IEVC conference chair Dr. Joachim Taiber, research professor at Clemson University International Center for Automotive Research (CU-ICAR), Department of Automotive Engineering. "Our goal is to establish the IEVC as the premier international venue for presenting the technology needed to transform the transportation industry through electrification."

"Organizing the IEVC is part of an ongoing program to position the IEEE as a major driving force for worldwide vehicle electrification," Taiber explained. "Many IEEE members are engaged in development of technologies critical to the implementation of electric vehicles, including battery systems, power electronics and the evolution of the grid infrastructure to meet the increasing demands of vehicle electrification, in addition to the standards necessary to ensure interoperability."

The conference organizers have invited leading experts in electric vehicle design and manufacturing, utility and infrastructure development, and component manufacturing; as well as researchers, educators, regulators and standardization experts to share new technical presentations, keynote addresses and panel discussions involving topics relating to the technology, standards, engineering and implementation of electric vehicles, including:

-- EV system architecture concepts for passenger, service, and utility vehicles (BEVs – battery electric vehicles; PHEVs – plug-in hybrid electric vehicles; HEVs hybrid electric vehicles; and FCEVs – fuel-cell electric vehicles)

-- EV system design – motor drives, controllers, heating/cooling systems

-- EV energy storage – battery chemistries, ultra-capacitors, fuel cells

-- EV charging – AC & DC conductive, wireless, smart, and fast-charging systems

-- Power grid and renewable energy source interface for EV deployment

-- EV fleet & infrastructure maintenance & management

-- EV design for mass production and manufacturability

-- Information technology & communications for EV deployment

-- Global standards development for the emerging EV ecosystems

Conference sponsorship reflects cross-disciplinary engineering areas Sponsoring organizations of IEVC 2012 include the IEEE Power & Energy Society (PES), IEEE Industry Applications Society (IAS), the IEEE Power Electronics Society (PELS), the IEEE Vehicular Technology Society (VTS), IEEE-USA, and the Society of Automotive Engineers (SAE International). CU-ICAR and others are key partners in IEVC 2012.

Registration information
For more information about IEVC 2012 or to register, visit electricvehicle.ieee.org [1].

Source URL (retrieved on *12/12/2013 - 3:28am*):
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[1] http://electricvehicle.ieee.org