



**Energy Conversion Innovation for a Clean Energy Future  
An Interactive Discussion on Latest Advances in Energy Conversion**

Washington, DC (Aug 2011) - A distinguished panel of speakers will address the IEEE Energy Conversion Congress and Expo (September 17-22) in the Plenary Session on September 19 at the Hyatt Regency Phoenix in Phoenix, AZ.

Dr. Alex Lidow, co-founder and CEO of Efficient Power Conversion Corporation (EPC) will speak on *"Gallium Nitride as a Displacement Technology for Silicon in Power Management"*

Dr. Ryne P. Raffaele, Vice President for Research and Associate Provost at Rochester Institute of Technology, and former Director of National Center for Photovoltaics in the U.S. DOE National Renewable Energy Laboratory (NREL) will discuss *"The Past, Present, and Future Photovoltaics"*

Dr. David Parekh, Vice President, Research, and Director of United Technologies Research Center (UTRC) will speak on *"A Joule in Hand is Worth Ten in the Ground"*.

ECCE 2011 will also feature three exciting Rap Sessions on technological trends and visions for Renewable Energy, Vehicle Electrification, and Vehicle-Grid interactions by renowned researchers and industry experts on the evening of September 20. Each session will feature presentations by a panel of experts followed by a 30-minute Q&A, allowing for an audience and expert interaction to entertain technical possibilities beyond the known boundaries. The three Rap Sessions are:

*"Mission Impossible? A 100% Renewable Energy Society"* moderated by Dr. Dan M. Ionel, Chief Scientist, Vestas Technology Americas R&D

*"Vehicle Electrification Technologies, Today and Tomorrow"* moderated by Dr. Chris Mi, Associate Professor, University of Michigan – Dearborn

*"Plug-in Electric Vehicles and the Electric Power Grid: Colliding Industries"* moderated by Dr. Jin Wang, Professor, Ohio State University

The IEEE Energy Conversion Congress and Exposition (ECCE) will be held in Phoenix, Arizona, USA from September 17-22, 2011 at the Phoenix Convention Center and the Hyatt Regency Phoenix.

ECCE is a major global event sponsored by the IEEE Power Electronics Society (PELS) and the IEEE Industry Application Society (IAS). It provides an opportunity for authors to present and attend high quality technical presentations and tutorials on all aspects of energy conversion, as well as industry seminars and over 50 exhibits to showcase state-of-art energy conversion systems and apparatus. Supporters of ECCE also include Opal-RT Technologies Inc., United Technologies Research, Power-One and General Atomics.

An annual event, ECCE receives more than 1200 abstract submissions, and, through rigorous peer review, only 600 of the best are chosen to be presented in oral presentation and poster session formats, forming an exciting and extensive Technical Program including but not limited to the following:

**Green Energy Systems:**

- Renewable and Alternative Energy
- Solar and Wind Energy Conversion
- Fuel Cell Systems
- Distributed Microgrids
- Grid Interface of Renewable Energy
- Grid Level Energy Storage
- Fast Control of Utility Grid
- Coordinated Control of Renewable Sources and Loads

**Transportation Applications:**

- Plug-in Hybrid Electric Vehicles
- Battery Management for PHEV and EVs
- Electrical System Optimization for Cars
- Energy Storage for Mobile Applications

**Energy Efficiency and Conservation:**

- Energy Efficient Lighting
- Motor Drives in Commercial & Industrial Applications
- Reducing Energy Consumption in Data Centers

**Industrial Applications:**

- Large Motor Drives and Converters
- Off-Shore Motor Drive Design
- Power Quality, Grid Interface and EMI
- Reliability, Diagnostics and Prognostics

**Core Technology Issues:**

- Modeling, Analysis and Simulation
- Motor and Drive Integration
- Power Converter Design and Optimization
- Power Conversion for Rail and Mass Transit
- Control Issues
- Design and Optimization of Machines and Actuators
- Packaging Techniques for High Power Density

For more information about ECCE and to register, please visit [www.ecce2011.org](http://www.ecce2011.org) or contact [ecce@courtesyassoc.com](mailto:ecce@courtesyassoc.com) or 202-973-8744.

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