

What can Indiana do to be a leader in battery technology?

An Industry-Academia-Government Collaborative Workshop

Friday, February 27, 2009

Stewart Center, Rm. 314

Purdue University, West Lafayette, IN 47907

Agenda

- 09:00 AM - 09:10 AM **Welcome & Workshop Goals**
- 09:10 AM – 09:25 AM **Indiana’s Battery Legacy**
Bill Wylam, President
International Energy, LLC
- 09:25 AM – 09:45 AM **Thin Film Approaches for Li-Ion Battery Electrode Development**
Paul J. McGinn, Professor
Dept. of Chemical & Biomolecular Engineering
University of Notre Dame
- 09:45 AM – 10:05 AM **Next Generation Rechargeable Batteries Through Microstructure Design**
R. Edwin García, Assistant Professor
School of Materials Engineering
Purdue University
- 10:05 AM – 10:25 AM **Overview of Battery Technologies for HEV Applications**
Rongrong Chen, Associate Professor
Engineering and Technology
Indiana University Purdue University Indianapolis
- 10:25 AM – 10:40 AM Break
- 10:40 AM – 11:00 AM **A Report on the 2008 NSF Workshop: A Drug Discovery Approach to Breakthroughs in Battery Capability**
Jim Caruthers, Professor
Chemical Engineering
Purdue University
- 11:00 AM – 11:20 AM **Development of Metal Oxide Nano-rod Array for Next Generation of Li-Ion Batteries**
Jian Xie, Assistant Professor
Department of Mechanical Engineering
School of Engineering and Technology, IUPUI

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- 11:20 AM – 11:40 AM **Hybridization of Battery Packs: The Advantages of Multiple Battery Chemistries**
Steve Tolen, CEO
Indy Power Systems
- 11:40 AM – 12:00 PM **Battery Technology Support in Indiana**
Bob Galyen, CEO
Tawas ICMS
- 12:00 PM – 01:30 PM **Working Lunch & Networking Session**
Keynote: Paul Mitchell
- 01:30 PM – 01:50 PM **NSWC Crane Battery Research Efforts and Opportunities**
Benjamin Franklin Harkness, Director of Operations
Kyle R. Werner, Division Manager
Power & Circuit Board Technologies Division
Global Deterrence And Defense Department
Crane Division
Naval Surface Warfare Center
Naval Sea Systems Command
- 01:50 PM – 02:10 PM **Automotive Industry View of Battery Technology Challenges for HEV**
Gary Cameron, Chief Engineer of Power Electronics and Energy Storage Systems
Delphi
- 02:10 PM – 02:30 PM **Li-Ion Battery: Building the Backbone of the Clean Energy World**
Cyrus Ashtiani, CTO
EnerDel
- 02:30 PM – 03:00 PM **Next Steps Discussion**