

**IEEE VPPC 2010**

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*Clean Tech for Transportation*

<http://www.vppc2010.org/>



## Special Session on

# ENERGY STORAGE MODULES FOR NEXT GENERATION VEHICULAR SYSTEMS (TRAINS, LAND, SEA, UNDERSEA, AND AIR VEHICLES)

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## Call for Papers

With the establishment of new rules to reduce oil consumption, cutting emissions of CO<sub>2</sub> and other greenhouse gases, transportation based industries are going through major restructuring to introduce advanced electric power trains. Electric power train based systems improve overall efficiency over a drive cycle by supplying electric energy from various energy storage systems to assist the main power source and reusing braking energy that would otherwise be lost. Energy storage devices charge during low power demands and discharge during high power demands acting as catalysts for providing energy boost. The thermal management, modeling, design, control, optimization, and systems solutions for energy storage systems are of great importance for efficient operation. This Special Session intends to focus on state-of-the-art research and development, as well as future trends in the modeling, design, control, and optimization of energy storage systems for transportation applications.

Topics of interest include, but are not limited to:

- Energy storage systems for electric vehicles, hybrid electric vehicles, fuel cell vehicles, and plug-in hybrid electric vehicles
- Energy storage systems for subway vehicles, trams, and trains
- Energy storage modules for integrated power systems of sea and undersea vehicles
- Energy storage systems for unmanned aerial vehicles
- Thermal management of energy storage devices
- Power electronics interfaces for hybrid energy systems
- Modeling, simulation, and analysis
- Integration of solar and wind systems within hybrid vehicles
- Hybrid control strategies
- Battery, ultra-capacitor, fuel cell, and flywheel storage systems
- Battery and capacitor technologies

### - Deadlines -

<b>Submission of abstracts:</b>	<b>March 1, 2010</b>
<b>Notice of acceptance:</b>	<b>April 15, 2010</b>
<b>Submission of full papers:</b>	<b>June 15, 2010</b>
<b>Deadline for registration:</b>	<b>July 30, 2010</b>

All the instructions for abstracts are included in the conference website <http://vppc2010.org/> :

- Special Session title, paper title, authors, affiliation(s), mailing and e-mail address (es),

- Corresponding author clearly identified,

- Abstract of 100-300 words and a digest of 3-5 pages.