

**IEEE VPPC 2010**

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**Clean Tech for Transportation**

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



## Special Session on

## DIAGNOSTIC OF FUEL CELL VEHICLES

**Chairmen: Dr Loïc BOULON, Université du Québec à Trois-Rivières (Canada)**

Email: [loic.boulon@uqtr.ca](mailto:loic.boulon@uqtr.ca)

**Co-chair: Dr Andres HERNANDEZ, Escuela Colombiana de Ingenieria Julio Garavito (Colombia)**

Email: [andres.hernandez@escuelaing.edu.co](mailto:andres.hernandez@escuelaing.edu.co)

This special session is proposed within the framework of the MEGEVH-GeVePaC project

### Call for Papers

Hydrogen and fuel cell systems are now considered as promising energy sources for the vehicle applications. Due to the system complexity, mayor or minor failure events are likely to appear. They can lead to suboptimal performance states, catastrophic failures or even important fuel cell degradations. As a consequence, diagnostic of fuel cell vehicles is a major importance topic.

Diagnostic of fuel cells includes a large scope: from failure source identification, to system degradation detection and classification. Moreover, the default consequences on the system and the methods to avoid them have to be studied. Finally, diagnostic is a multidisciplinary topic. It requests competences in electricity, automatic, signal processing, programming, measurement ...

The aim of this special session is to offer a valuable forum for fuel cell vehicle and/or diagnosis specialists.

Topics of interest include, but are not limited to:

- Fault diagnosis
  - Model or Model-less techniques
  - Hardware (sensor) or software (sensor-less) based techniques
  - Electrochemical techniques
  - Physical methods
  - Ageing investigations
  - Catalytic sites poisoning
- Control strategies to degraded states
  - Water management in the fuel cell
  - Corrective actions
- Fault prevention
  - Preventive maintenance
  - Fault free energy management
- Gas supply

#### - 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.