

« **MEGEVH :**  
**PROMOTION ACTIVITIES AND**  
**FUTURE PROJECTS »**

*Dr. R. TRIGUI (IFSTTAR)*

## - Outline -

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*1. Dissemination 2016*

*2. Dissemination 2017*

*3. Miscellaneous*

# **MEGEVH** network

## **DISSEMINATION 2016**

# - EMR summer school 2016 -

**EMR'16, joint international summer school,  
“Modelling and control of HEVS and other systems using EMR”  
27-29 June, Montreal, Canada**

Prof. J. TROVAO (Univ. Sherbrooke), Prof. A. BOUSCAYROL (Univ. Lille1)

50 attendees – 2/3 students - from 7 countries

5 lectures on principle, 13 lectures on applications

3 simulation sessions (1 MEGEVH session)



# - HIL summer school 2016 -

**HIL'16 workshop,**

**1-2 September 2016, Lille France**

**“Hardware-In-the-Loop simulation for testing EVs, HEVs and other applications”**

Prof. Alain BOUSCAYROL (Univ. Lille1, MEGEVH) Dr. Clement MAYET (Univ. Lille1)

85 attendees – 50% students – 25% industry

2 lecture on principles, 7 lectures on applications (1 MEGEVH session)

3 academic demos and 2 industrial demos



5



5



**The 13th IEEE Vehicle Power and Propulsion Conference**

<http://www.vppc2016.org/>

### **MEGEVH involvement in the TPC:**

- E. Vinot (IFSTTAR-MEGEVH) tutorial co-chair
- D. Hissel (FEMTO-ST, MEGEVH) publication co-chair
- A. Bouscayrol (L2EP, MEGEVH), Advisory Scientific Com. Chair

### **MEGEVH tutorials**

- Energy Management of HEV  
(A. Bouscayrol, R. Trigi, A. Castaings, L2EP-IFSTTAR-MEGEVH)
- Will hydrogenFC power new vehicle generation ?  
(D. Hissel, M. C. Pera, FEMTO-ST MEGEVH)





**VPPC 2016** Oct 17-20, 2016  
HANGZHOU

**The 13th IEEE Vehicle Power and Propulsion Conference**

<http://www.vppc2016.org/>

## MEGEVH Special Sessions

- EMR and other graphical description  
(C. Mayet, W. Lhomme, L2EP-MEGEVH, TC. Minh, Hanoi Univ. ST)  
5 lectures, 2 posters, 25 attendees
- Energy management of H-ESS for zero emission vehicle  
(R. German, L2EP-MEGEVH, J. Trovao, Univ. Sherbrooke)  
5 lectures, 35 attendees



# **MEGEVH** network

## **DISSEMINATION 2017**

# - VTS Motor vehicle challenge -

## IEEE VTS Motor Vehicles Challenge 2017: Energy Management of a Fuel Cell/Battery Vehicle

<http://www.uqtr.ca/VTSMotorVehiclesChallenge17>

supported by



### Challenge chairs:

Dr Samir JEMEI (FEMTO-ST, MEGEVH)

Prof. L. Boulon (Univ Trois Rivières, Canada)

Registration: 15 December  
Submission: 15 January  
Results: 15 February

### TechCom chair:

Clément DEPATURE (L2PE, UQTR, MEGEVH PhD student)

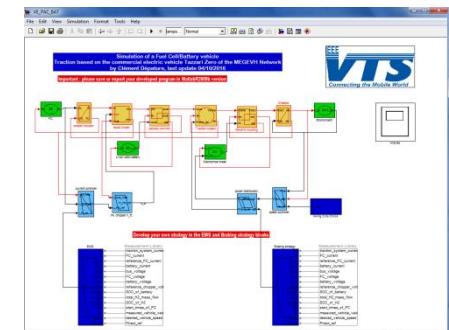
### TechCom members:

Ali CASTAINGS (L2PE, MEGEVH)

Nigel MARX (FEMTO-ST, UQTR, MEGEVH PhD student)

Simon MORANDO (UQTR)

Alain BOUSCAYROL (L2EP, MEGEVH)



# - EMR Summer School 2017 -

Summer school  
EMR'17, June 2017,  
Lille (France)

<http://emrwebsite.org/>

supported by

**MEGEVH**  
French network on HEV's



EMR'13, Lille



EMR'06 Lille, EMR'08 Harbin (China), EMR'09 Trois Rivières, Canada)  
EMR'11 Lausanne (Switzerland), EMR'12 Madrid (Spain), EMR'13 Lille,  
EMR'14 Coimbra (Portugal), EMR'15 Lille, EMR'16 Montreal (Canada)

# - Special Sessions -



**Deadline: 3rd of Jan. 17**

July 4-6th 2017

Toulouse, France

**1. EMR and other graphic descriptions: application to EVs and HEVs**  
*to present different graphical descriptions, including EMR, applied to HEVs or/and EVs to highlight the interest of each one*

Chairs: Dr. W. Lhomme, Univ. Lille 1 (France)  
Pr. J. P. Trovão, Univ. Sherbrooke (Canada)

**2. Hybrid Energy Storage Systems (H-ESS) for vehicular applications**  
*to present different methods to design, control and manage H-ESS vehicles*

Chairs: Dr. A. Castaings, Univ. Lille 1 (France)  
Pr. L. Boulon, Univ. Québec Trois Rivières (Canada)

## IEEE-VPPC'17

11-14 December 2017

Venue: Atria hotel, Belfort City

General Chair Prof. Daniel HISSEL,  
Univ. Bourgogne Franche-Comté, France



Technical co-sponsored by



<http://www.vppc2017.org/>

November 2016

# **MEGEVH** network

## **MISCELLANEOUS**

# - IFSTTAR- PSA PHD project -



To be labelled



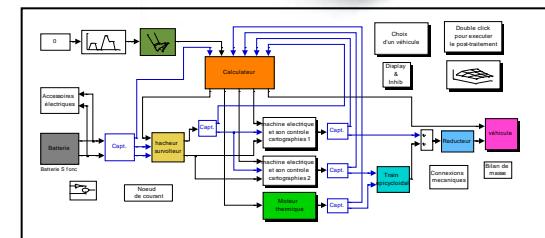
## PHD topic:

Optimal design methodology for Hybrid Electric Vehicles.  
Application to PSA vehicles' range.

- Optimal topology
- Optimal components sizing
- Optimal energy management

**PHD student:** Bilal Kabalan

**Status:** waiting for ANRT acceptance



## IFSTTAR Supervisors:

- Dr Emmanuel Vinot
- Dr Rochdi Trigui

## PSA Supervisors:

- Dr Yuan Cheng
- Ing Clément Dumant

# - Next MEGEVH seminar -

**May 2017, IFSTTAR,  
Lyon-Bron site**

Date to be fixed soon

**Organizer:**  
Dr Emmanuel Vinot



entrer sur le site



**MEGEVH**  
*French network on HEV's*

