



5th International Conference of the Armand Peugeot Chair

Electromobility: Challenging issues

Thursday 14th December 2017 | 8:15 - 18:30
University Paris-Dauphine, Amphitheatre Raymond Aron (2nd floor)

Friday 15th December 2017 | 8:30 - 17:00
Essec Business School in La Defense

Co-organized with the Governance and Regulation Chair
and Vedecom Institute



Program - 14th December - Salle R. Aron, Dauphine University

8:15 - 8:45 **REGISTRATION**

8:45 - 9:00 **OPENING WORDS**

Eric Brousseau | Governance and Regulation Chair

Danièle Attias, Jan Lepoutre and Marc Petit | Armand Peugeot Chair

François Colet | Vedecom

09:00 - 11:30 **SESSION 1: INTERNATIONAL EXPERIENCES**

Chairman: **Eric Brousseau** | Governance and Regulation Chair

09:00 - 09:40 • *Perspectives on Norway's supercharged electric vehicle policy*

Erik Figenbaum | Institute of Transport Economics, Norway

09:40 - 10:20 • *Japan and the Future of Automobile Industry*

Tatsuya Suzuki | Nagoya University, Japan

10:20 - 11:00 • *EU deployment plans for EVs*

Christian Thiel | Joint Research Centre, Italy

11:00 - 11:30 *Coffee break*

11:30 - 12:50 **SESSION 2: EV ECOSYSTEMS ANALYSIS**

Chairman: **Bernard Sahut** | PSA Groupe

11:30 - 12:10 • *Towards a Theory of Business Ecosystems*

Michael Jacobides | London Business School, UK

12:10 - 12:50 • *How firms manage bottlenecks in EV business ecosystems*

Yurong Chen | Armand Peugeot Chair

12:50 - 14:00 *Lunch Time*

14:00 - 16:00 **SESSION 3: FIELD EXPERIMENTS**

Chairman: **Dominique Jamme** | Commission de Régulation de l'Énergie

14:00 - 14:40 • *Vehicle to Grids in the US: A review*

Willett Kempton | Delaware University, USA

14:40 - 15:20 • *The Parker Project in Denmark: First results*

Peter Bach Andersen | DTU, Denmark

15:20 - 16:00 • *GridMotion project in France*

Paul Codani | PSA Groupe, France

16:00 - 16:30 *Coffee break*

16:30 - 18:30 **ROUNDTABLE: THE FUTURE(S) OF ELECTROMOBILITY**

Chairman: **Eric Lalliard** | PSA

• *Introduction of the Roundtable: EV in France in 2035*

Thomas Veyrenc | RTE, France

Panelists:

• **Christophe Bonnery** | Enedis

• **François Colet** | Vedecom

• **Michael Jacobides** | London Business School

• **Romain Beaumes** | Nexans

• **Willett Kempton** | Delaware university

• **Floriane Petipas** | Bouygues Energies & Services

• **Bruno Flinois** | Clem

18:30 *Cocktail*

Program - 15th December - Essec Business School, La Defense

8:30 - 9:00 **REGISTRATION**

9:00 - 10:30 **SESSIONS 1 & 2**

SESSION 1: FLEXIBILITY PROVISION

Chairman: **Jan Lepoutre**

- *The value of flexibility in power markets*
Speaker: **P Vassilopoulos** | Epexspot
Authors: **Stéphane Goutte and Philippe Vassilopoulos**
- *Market integration VS Temporal granularity: how to provide needed flexibility resources?*
Speaker: **Olivier Borne** | CentraleSupélec and Armand Peugeot Chair
Authors: **Olivier Borne, Marc Petit and Yannick Perez**
- *The Value of Aggregators in Electricity Systems*
Speaker: **José Pablo Chaves-Ávila**, Institute for Research in Technology (IIT), Comillas University
Authors: **Scott Burger, José Pablo Chaves-Ávila, Carlos Batlle, and Ignacio J. Pérez-Arriaga**

SESSION 2: SUSTAINABILITY AND EVS

Chairman: **Danielle Attias**

- *Hardware vs. software: How to make the energy system smarter?*
Speaker: **Julien Jacqmin**
Authors: **Axel Gautier and Julien Jacqmin**
- *The role of renewable energies in fuel life cycle assessment of electric vehicles in island regions*
Speaker: **Josue Barrera Santana** | La Laguna University
Authors: **Josue Barrera Santana, Gustavo A. Marrero Díaz, Francisco J. Ramos Real, Alfredo J. Ramírez Díaz** | La Laguna University
- *Rethinking the Way to Decarbonize the Energy System: Prospective Study of Hydrogen Markets Attractiveness*
Speaker: **Olfa Tlili** | CEA and CentraleSupélec
Authors: **Olfa Tlili, Claude Heller, Jean André, Christine Mansilla, Camille Cany, Alain Le Digou, Yannick Perez**

10:30 - 11:00 *Coffee break*

11:00 - 12:30 **SESSIONS 3 & 4**

SESSION 3: DISTRIBUTION NETWORKS AND EVS

Chairman: **Marc Petit**

- *Integration of PV and EVs in unbalanced residential LV networks and implications for the smart grid and advanced metering infrastructure deployment*
Speaker: **Pablo Frías**, Institute for Research in Technology (IIT), Comillas University
Authors: **Andrea Rodriguez-Calvo, Rafael Cossent, Pablo Frías**
- *Quantifying flexibility in EV charging as DR potential: Analysis of two real-world data sets*
Speaker: **Chris Develder** | Ghent University
Authors: **Chris Develder, Nasrin Sadeghianpourhamami, Matthias Strobbe, and Nazir Refa**
- *The BienVEnu project: issues and first lessons*
Speaker and author: **Marc Petit** | CentraleSupélec and Armand Peugeot Chair

SESSION 4: REGULATION AND EVS

Chairman: **Yannick Perez**

- *EVs and PV a review of models and results*
Speaker and author: **Quentin Hoarau** | University Paris-Sud and Climate Economics Chair
- *Future-proof tariff design: recovering sunk grid costs in a world where consumers are pushing back*
Speaker: **Tim Schittekatte** | University Paris-Sud and Florence School of Regulation
Authors: **Tim Schittekatte, Ilan Momber and Leonardo Meeus**
- *Review of Lithium Ion Battery Degradation Mechanisms, Models, and their Economic Implications*
Speaker and author: **Andrew Thomson** | University Paris-Sud and VEDECOM

12:30 - 13:30 *Buffet lunch*

13:30 - 17:00 **BUS TRIP TO VISIT OF THE VEDECOM'S "EV LABORATORY EXPERIMENTS" IN SATORY.**

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