



International Conference on Mobility Challenges

8 & 9 December 2022 @CentraleSupélec, Gif-sur-Yvette, France

Chair Armand Peugeot - Chair Energy & Prosperity - Climate Economics Chair

The 9th edition of the annual International Conference on Mobility Challenges brings together people from academia and industry to propel us to the frontier of important challenges at the interface of automotive, energy and mobility industries. We welcome speakers from multiple backgrounds (technical as well as more in the business domain) and this mix has been proven fertile soil for insights and contacts, as well as new questions and ambitions. The first day consists of a series of keynotes and roundtables, whereas the second day is research oriented with paper presentations.

Please check out this year's program below!

We are looking forward to welcoming you on **8 and 9 December 2022**

Conference location: Ecole CentraleSupélec Université Paris Saclay

Batiment Bouygues 9 Rue Joliot Curie 91190 Gif-sur-Yvette

DAY 1: 8 December 2022: Expert Day

8h15: Welcome coffee (in front of Amphi Peugeot SC.046 in Bouygues building)

8h45: Conference start and intro (Amphi Peugeot SC.046 in Bouygues building)

9h00-10h30: Fueling sustainable mobility with alternative fuels

Chair : Marc Baudry (Climate Economy Chair)

- Pierre Cayet (Toulouse Business School): Beyond the "Bottom-Up" & "Top-Down" Controversy: A Methodological Inquiry Into Hybrid Modeling Methods For Hydrogen Mobility
- Frédéric Lantz (IFP): Biofuels for the transportation sector in Europe: analysis of the potential development of advanced biofuels through a modeling approach.
- Sylvain Nizou (CEA): Synthetic fuels, challenges & opportunities for a de-fossilised mobility.

10h30-11h00: Break

11h00-12h30: Towards smart and sustainable mobility: in search of data

Chair : Jan Lepoutre (Armand Peugeot Chair)

- Konstantina Vallogianni (IE Business School): Information Systems Research for Smart sustainable Mobility: A Framework and Call for Action
- Phil Brown (Circularise): Digital Product Passports for a Circular Economy: Why, How and What?
- Philippe Calvez (Engie): The Energy Data Space: The Path to a European Approach for Energy.

12h30-14h00: Lunch (please indicate when registering)

14h00-15h30: Smart Charging Infrastructure - Lessons from the frontier:

Chair : Marc Petit (Armand Peugeot Chair)

- Marc Olivier Metais (Vedecom - LGI CentraleSupélec) : Do we need Fast charging in Urban areas?
- Pierre Clasquin (TotalEnergies) : Business model for smart charging
- Matthieu Lanéelle (Allegro) : Fast charging development: A European vision.

15h30-16h00: Break

16h00-17h30: Assuring the affordability of electric mobility solutions

Chair : Maria Eugenia Sanin (Chair Energy and Prosperity)

- Aurélien Cagnard (Metropole Rouen Normandie) and Fabienne Jougoux (Renault) : Rouen-Normandie collaborates with Renault in designing solutions for affordable electric mobility
- Jan Lepoutre (ESSEC Business School) : Citroen AMI - Internal disruption in the automotive industry
- Jean-Philippe Hermine (IDDRI) : Implementation of low-emission-zones: electro compatibility and affordability of EV at stake

17h30-18h30:

Keynote Vincent Cobée (CEO Citroën) - Théâtre Rousseau in Bouygues Building

20h: Dinner (please indicate when registering)

DAY 2 - 9 December 2022: Parallel research sessions

9:00 - 10:30

Session 1: Strategies for EV smart charging

Chair: Marc Petit

- Anastasia Popiolek (Stellantis/ GeePs). Smart charging services for long distance trips
- Reza Razi (G2ELab, aVEnir project). User-friendly smart charging algorithms for plug-in EVs
- tbd

Session 2 : Infrastructures planning methods

Chair: Marc Baudry

- Alejandro Padron (U. Laguna Tenerife) : EV charging planning in Tenerife.
- Diego Cebreros (Stellantis/ LGI/ ESSEC) & Marc-Olivier Metais (Vedecom - LGI CentraleSupélec) :
- Antonia Golab (TU Wien) Minimum-Cost Fast-Charging Infrastructure Planning for Electric Vehicles along the Austrian High-Level Road Network

10:30 - 11:00 coffee break

11:00 - 12:30

Session 3 : Business models for VtoG

Chair: Yannick Perez

- Diego Cebreros ((Stellantis/ LGI/ ESSEC) V2G Data Ecosystem Archetypes
- Wale Arowolo (LGI) : EV-PV joint development.
- Magnus Ilisch (Mercedes Benz) : VtoG and

Session 4 : Individual choices and mobility decisions

Chair: Jean-Pierre Ponssard

- Dianzhuo Zhu (Dauphine) : Impact of Fuel and Toll Price on long distance carpooling.
- Francisco Ramos-Real (U. Laguna): Determining Factors of Consumers' Choice of Sport Utility Vehicles in an Isolated Energy System: How Can We Contribute to the Decarbonization of the Economy?
- Fawaz Salihou (LGI -VEDECOM). Which incentives for transitioning towards sustainable mobility solutions for long and short distance transport in Ile de France?

Lunch : 12h30-14h. (please indicate when registering)