

«Batteries: constraints, challenges and perspectives»



Program:

8h45 Welcome

9h00 Day presentation and EdB COMET introduction

9h10 **Renault** Presentation: constraints on battery (durability, safety, cooling system)/

domain use (electrical vehicle / hybrid vehicle)/ Current solutions (lithium-ion) /Researchers

activities

9h40 **Ifremer** Presentation: application presentation and their constraints/
technologyperspectives

(lithium polymer technology / cells presentation pouch cell)

10h10 **Actia** Presentation: application constraints, current and future solution (chemistry)

10h40 -11h20 Break / Round table*

Constraints on material availability

Safety for different electrochemistries

11h25 **Airbus** Presentation: global presentation (aircraft, space ...)

11h55 **ESA** Presentation: overview of European space batteries

12h25-14h05 Buffet Lunch/ Round table*

Safety for different electrochemistries

Decreasing of qualification time

14h10 **CNES** Presentation: constraints and environment of battery in space/ current
solutions/ research activities

14h40 **Airbus Defence and Space** Presentation: Evaluation of the use of hybrid
power supply composed by lithium-ion batteries and supercapacities on electrical
satellite system

15h10 **Thales Alenia Space/Fraunhofer** Presentation: Evaluation of the use of Li-S cells on
electrical system

*15h40-16h15 Break / Round table**

Constraints on material availability

Decreasing of qualification time

16h20 Saft Presentation: Overview of current and future cell technology for different application fields

16h50 ICCF Presentation: current and future materials and electrodes for lithium ion Batteries.

17h20 PCM2E Presentation: électrolytes et interfaces

17h50 Round table and day synthesis

18h20 End of battery seminar

*Round tables will be organized during breaks. There will be two round tables in parallel.