

## Outstanding invited industrial sessions at EPE '13 ECCE Europe

Next to the regular peer reviewed papers selected out of the number of papers received from the Call for papers, attendees of the next EPE ECCE Europe conference will be invited to attend outstanding industrial sessions on the following topics:

- power electronics enabling the grid of the future;
- aeronautics challenges;
- e-mobility in the city: vehicles and infrastructure;
- power electronics for railways.

The programme is being finalized:

### Tuesday 3 September

#### Power electronics enabling the grid of the future

Opening Address: The strategic role of grids by André Merlin, MEDGRID

Keynote: Smart Grids : large scale experimentation in Vendée and future markets for power electronics, Nicolas GENTE, SyDEV Vendee and First return on experience on Smart Grids Demonstrations : emergence of new System of systems architectures, Laurent Schmitt, ALSTOM grids

#### Industrial Session - 1

Cigre and Trends in Power Electronics for the Grid, Bjarne Andersen, CIGRE B4

Medgrid - An industrial initiative for the development of interconnections between the Mediterranean power grids, Philippe ADAM, MedGrid

Supergrid North-Sea TBD

Cable technologies for HVDC connections and interconnections, Pierre Mirebeau

Nexans High Voltage Extruded Cable Systems, Competence Centre manager

#### Industrial Session -2

R&D to develop Supergrids, what are the stakes, what value created by these efforts, Philippe Egrot, EDF

Wind Energy integration, an operator point of view, Regis Blanc, Maia Eolis

Power Electronics in Schneider Electric : current grid applications, challenges and perspectives, Miao-xin WANG, Schneider Electric

Multilevel Modular Converter Design and optimization, Colin Oates, Senior Fellow, Alstom Grid UK

Wrap up session on 'DC Grids - Opportunities and Challenges', moderated by Bjarne Andersen, CIGRE B4

Panelists: Nicolas Gente, SyDev; Laurent Schmidt, Alstom Grid, Philippe Adam, medGrid; Pierre Mirebeau, Nexans; Philippe

Egrot, EDF; Regis Blanc, Maia Eolis; Miao-xin Wang, Schneider Electric; Colin Oates, Alstom Grid UK

### Tuesday 3 September

#### Aeronautics challenges

Keynote: The era of the electric aircraft, Alain Coutrot, SAFRAN

#### Industrial Session Aeronautics #1

FP7-project ACTUATION 2015: objective and progress, Serge GRAND, UTC

Effect of the lightning on more electric and more composite aircrafts, Fidele MOUPFOUMA, BOMBARDIER aerospace,

Electric Taxi for Airport traffic, Olivier SAVIN, SAFRAN Hispano-Suiza,

Full electric Trust Vector Control for space launcher applications, Marc BEKEMANS, THALES Alenia Space

#### Industrial Session Aeronautics #2

Research highlights from Liebherr Aerospace, Ralf CREMER, LIEBHERR Aerospace,

Power electronics and new power centres in more electric aircraft, Lucien PRISSE, AIRBUS, France

Protection of local High Voltage DC regenerative network on More Electric Aircraft, Jean Charles Swierczek, HEI, SAFRAN, France,

#### Panel discussion on Aeronautics

### Wednesday 4 September

#### E-mobility in the city: vehicles and infrastructure

Keynote: Electrifying the mobility of a city, Rune Haaland, city of Oslo

#### Industrial Session 1: The prospective vision of the car manufacturers

Technical and economical challenges of the charge of electric vehicles by Bertrand Largy, Expert Leader in electric traction, Renault

Energy management and Energy Harvesting in Automotive Vehicles by Zlatina Dimitrova, Research engineer, PSA

Nissan's prospective on the deployment of quick charging as a way to accelerate the adoption of Electric Vehicles by Olivier Paturet, General Manager - Zero Emission Strategy at Nissan.

#### Session 2: Making electricity available down the street

Infrastructure, fast charging & impact on the Grid, Tomoko Blech, Chademo

Experience on Quick Charging with 50 % of the installed Quick Chargers in Europe, A. Borgoltz, DBT  
On-grid Battery Energy Storage in support of Smart Grid management, Alfons Westgeest, Executive Director, Eurobat

### Session 3 New traction powertrains of hybrid vehicles

Development of Toyota plug-in Hybrid vehicle, Rody El Chammas, Toyota Europe

Merge automotive e-drive and universal charger with open windings machine, Antoine BRUYERE, Valeo

Double-planetary geartrain hybrid electric traction for civil and military trucks, Benoit PETITDIDIER, Nexter System

Panel Discussion: A prospective view on the development of Hybrid and Electric Vehicles, impact on the grid and role of Power Electronics as enabling technology

### Participants:

Rune Haaland, Oslo; Patrick Bastard, Renault; Nicolas Leclère, PSA; Olivier Paturet, Nissan; Tomoko Blech, Chademo; Alexandre Borgoltz, DBT; Alfons Westgeest, Eurobat; Rik De Doncker, RWTH-ISEA-Aachen; Nord-Pas de Calais Region

## Thursday 5 September

### Power electronics for railways

Keynote: Technical solutions and développement permitted by power electronics applied to the Energy transition in French Railways, Christian Courtois, SNCF INNOVATION & RECHERCHE, Département "Services, Réseaux, Optimisation" (SRO), Groupe "Energétique et Techniques pour la Maintenance" (ETM)

Session: Power electronics for railways development

With contribution from Bombardier and Alstom

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**Check for updated information!**