

Track 3

Electric & Hybrid Vehicle Technology

Day 3 - Thursday 9 May

08:30 **Bus Operator Case Studies: Outlining the Challenges of Deploying an Electric Bus Fleet, Lessons Learnt and Future Requirements for the Manufacturers**

Moderator Rueben Scriven, Research Analyst, Interact Analysis

Gerard Hellburg, Program manager Zero Emission Mobility, Vervoerregio

Josep Armengol Villa, Director of Engineering and New Developments, TMB

Jörn Schwarze, Member of the Board, KVB

Jens Conrad, Head of Department, RVK



09:30 **Determining the Optimum Fuel and Powertrain Architectures and Technologies to Meet the Specific Needs of Buses**

Josh M Ley, Vice President of Engineering, UQM Technologies

David Barnett, Business Development Director, Wrightbus

Oben Uluc, Sales Director, EMEA & India, Ballard

Marcin Seredynski, Head of Innovation and Research at the E-Bus Competence Centre, Volvo



10:30 **Networking Break: Coffee & Refreshments in the Foyer**

11:00 **Fast Charging: What Impact Will Fast Charging and XFC Have on Powertrain Design and What Are the Latest Developments in Dynamic Charging Systems?**

Moderator / Speaker Hermann Pyschny, Consultant, P3 Group

Patrick Ester, Senior Manager, E-Mobility Business Development, E.ON Ultrafast Charging

Gerrit Stumpe, Business Development eHighway, Siemens Mobility
Dynamic Charging Catenary Electrified Heavy Road Transport

James Galliher, GSR Charge Stations - Electric Vehicles, Volvo



12:30 **Networking Lunch & Opportunity to Take Advantage of Activities on Show Floor**

14:00 **Commercial Vehicles: Evaluating the Latest Developments in Medium and Heavy-Duty Trucks and Large-Scale Electric and Hybrid Powertrains**

Moderator Rueben Scriven, Research Analyst, Interact Analysis

Mihai Dorobantu, Director -Technology Planning and Government Affairs, Vehicle Group, Eaton
Do Heavy-Duty Electric Trucks Really Need Multi-Speed Transmissions?

Commercial EVs: Applying a Systems Engineering Approach to Tackle the Total Cost of Ownership Challenge

Simon Shepherd, Head of Electrified Powertrain, Drive System Design

Ryan Maughan, Managing Director, Avid Technology Group Ltd



15:15 **End of The Battery Show Conference Europe 2019**

THE **BATTERY** SHOW
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Daily Agenda

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Track 1

Charging, Validation & Testing

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08:30 The Fast Charging Trade Off: Fast Charging versus Battery Degradation and Energy Density

Moderator Angelique Janse van Rensburg, Senior Cell Engineer - Battery Systems, Lillium GmbH



Daniela Werlich, Senior Project Manager, Custom Cells Itzehoe GmbH
Jack Of All Trades Device – Why Is It So Difficult to Fast-Charge High Energy Cells?



Masato Origuchi, Expert Electrical Energy Storage Systems, Renault Sas
Need for Quick Charge: Optimising Chargeability and Energy Density



Matthew Keyser, Vehicle Electrification Group Manager, NREL
Battery Thermal Concerns Associated with Extreme Fast Charging



Carla Cavalca de Araujo, Senior Specialist Battery Solutions, 3M Deutschland GmbH
Exploring Direct Contact Cooling for Battery Fast Charging Solutions



10:30 Networking Break: Coffee & Refreshments in the Foyer

11:00 Overcoming the Challenges of Manufacturing Cells at Volume in Europe

Speaker / Moderator Bob Galyen, CTO, CATL



Dr Akos Kriston, Research Fellow, EC JRC
Battery Safety and Performance Testing Assessed from a Regulatory Perspective



Eric Gillett, Policy Specialist Dangerous Goods, Civil Aviation Authority
Non-Compliant Lithium Battery Consignments and the Potential Impact on Air Logistics



Mathy Stanislaus, Lead, Circular Economy Working Group, Global Battery Alliance
Advancing Actions to Scale Circular Approaches to Batteries



12:30 Networking Lunch & Opportunity to Take Advantage of Activities on Show Floor

14:00 Outlining Developments in Battery Safety and Performance Testing Methodologies

Harry Hoster, Professor & Director of Energy Lancaster, Lancaster University
Analysing Battery Degradation via High-Precision Charge Counting



Keith Ong, High-Voltage Power Net eDrive System Integration eDrive Architecture and HV System Technology (RD/EIS), Mercedes - Benz Cars | Daimler AG
Ripple Generator for Immunity Voltage Ripple Tests on EV Battery



Dr. William Q. Walker, Lithium Ion Battery Thermal Test and Analysis, Structural Engineering Division, Thermal Design Branch, NASA Johnson Space Center
Fractional Thermal Runaway Calorimetry (FTRC) Techniques for Lithium-ion Cells



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Track 2

Battery Manufacturing Trends

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08:30 Validating Solid-State Battery Technology for Commercialising and Scale-up

Moderator Mauro Pasta, Associate Professor, Associate Professor, Department of Materials, University of Oxford



Richard Clark, Global Lead, Energy Storage, Morgan Advanced Materials
Converting Solid-State from a Distant Point on a Roadmap to a Commercial Reality



Andreas Hintennach, Senior Manager, Daimler AG
From Liquid to Solid Electrolytes: Impact on Batteries, Production, and Cost of Energy Storage



AK Srouji, Director of Battery Cell Technology, Romeo Power



10:30 Networking Break: Coffee & Refreshments in the Foyer

11:00 Creating Material Feed Stock Through Battery Recycling

Moderator Jacqui Murray, Director – Faraday Challenge and Head of Advanced Materials, Innovate UK



Asad Farid, Associate Director, Senior Analyst, Thematics Equity Research, Berenberg
Can Battery Recycling Ease Potential Bottlenecks in Raw Materials Supply Chain?



Claude Chanson, General Manager, RECHARGE
Can a Fair EU Environmental Regulation Support the Development of Sustainable EV Battery Manufacturing?



Panelists

Kunal Phalpher, Chief Commercial Officer, Li-Cycle



Jan Tytgat, Director Government Affairs EU-Benelux, Umicore



12:30 Networking Lunch & Opportunity to Take Advantage of Activities on Show Floor

14:00 Ramping Up Battery Assembly to Meet Future OEM Demand: Building Gigafactories in the EU

Moderator/Speaker Markus Woland, Consultant - Expert Battery Production, P3 Group



Review of Current Battery Factories For Europe and Outlook on Future Potentials For an Integrated Value Chain

Panelists

Patrik Öhlund, CEO, Node Pole



Gordon Bach, Senior Engineering Manager - EU Engineering Center, CATL



Marc Deyda, Global Battery&Hybrid Business Developer, Siemens AG



Martin Anderlind, Director, Northvolt



Sebastian Wolf, Sr. Director EU Operations & Managing Director, Farasis Energy Europe



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