Day 1 - Tuesday 7 May

Track 3

Electric & Hybrid Vehicle Technology

Morning Plenary Sessions taking place in Conference Room C2.3

12:30	Conference Delegate Networking Lunch		
14:30	Hybrid & EV Market Forecasts, Analysis and Opportunities		
	Moderator Roland Irle, Co-Founder and Developer, EV-volumes.com	EV _{VOLUMES.COI}	
	Martin Linder, Partner, McKinsey Understanding the Current and Future Role of China in Accelerating the Electric Vehicle Market	McKinsey&Compan	
	Neil Morris, CEO, Faraday Institution Outlining the Results of the UK Electric Vehicles and Battery Economics Study from McKinsey, University of Oxford and the Faraday Institution, Determining the Economic Benefits from EV Manufacture	THE FARADAY INSTITUTION	
	Yuan Li, Director of Powertrain, BAIC Motor Company Examining OEM Vehicle Planning under China's Dual Point Policy	北汽集团 BRIC GROUP	
15:45	Networking Refreshments in Conference Foyer		
16:15	48V Systems: Optimising Next Generation 48V Systems and Architectures To De Fuel Efficiency And Reduced Emissions In The Immediate Term		
	Moderator Roland Irle, Co-Founder and Developer, EV-volumes.com	EVvolumes.com	
	Michael Bassett, Chief Engineer - Research & Advanced Engineering, MAHLE Powertrain Limited	MAHLE	
	Examining the Fuel Economy Benefits Offered By 48V Mild-Hybridisation	Powertrain	
	Bastian Hartmann, Research Engineer Advanced Power Supply and Energy Management, Ford Motor Company	Ford	
	From 48V Market Introduction to Mass Market – Opportunities for System Optimizat		
	Grégory Godefroy, Belt e-Machine RFQ & Advanced projects Platform Manager, Valeo	Valeo	
	Julian Dunn, Head of Technical Business Managers – Energy Storage, Ricardo Global Automotive	R	
	25 kW 48 V Mild Hybrid Motor and Inverter	RICARDO	
17:30	Close of Day One and Evening Drinks Reception in Exhibition Hall Sponsored by LORD	LORD	





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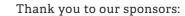






Daily Agenda Day 1 - Tuesday 7 May











Plenary / Track 1

Day 1 - Tuesday 7 May

08:30	Welcome Address Jim Greenberger, Executive Director, NAATBatt International	ENAATBatt
09:00	Agenda for Zero- and Low-Emission Mobility for Europe, As Seen By the European Commission Maja Bakran Marcich, Deputy Director General, Mobility & Transport, European Commission	IN TERMATION AL
09:20	Leadership Panel: Realising a European Based Battery Value Chain	=0100TD_#
	Moderator Jim Greenberger, Executive Director, NAATBatt International	ENAATBatt
	Anil Srivastava, Chief Executive Officer, Leclanché	AAA Leclanché Energy Storage Solutions
	Andreas Hintennach, Senior Manager, Daimler AG	DAIMLER
	Jean Baptiste Pernot, Transformation & Operations Excellence Vice-President, Saft	Saft
10:30	Networking Break: Coffee & Refreshments in the Foyer	
11:00	Welcome Address Roland Irle, Co-Founder and Developer, EV-volumes.com	EV _{VOLUMES.COM}
11:15	Driving Efficiency in Electric and Hybrid Vehicles, Enabling the Next Generation of Electric Autonomous Vehicles and delivering Mobility As A Service Moderator Roland Irle, Co-Founder and Developer, EV-volumes.com Eduardo Mascarell, Head of Vehicle to grid and Energy Aggregation, Nissan Europe Paul Freeland, Principal Engineer, Cosworth The Landscape for Automotive Powertrains – A Pragmatic Outlook for a Practically Achievable Future Steve Mountain, Global Energy Storage Lead & RR Associate Fellow - Power Electric Systems, Rolls Royce	EV VOLUMES.COM BETTSUEDING CONTENTAL DESCRIPTION COSWORTH ROLLS ROYCE
Trac	k 1 Business / Market / Industry	
12:30	Networking Lunch & Opportunity to Take Advantage of Activities on Show Floor	
14:30	Assessing Battery Application Market Trends	
	9 - 1	
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain	Bloomberg NEW ENERGY FINANCE
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance	Bloomberg NEW ENERGY FINANCE S
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx	NEW ENERGY FINANCE
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy	AIRBUS IDTechEx Shmuel De-Leon
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy Evaluating the E-Bus Li-Ion Battery Market Trends	AIRBUS IDTechEx
15:45	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy Evaluating the E-Bus Li-Ion Battery Market Trends Networking Break: Coffee & Refreshments in the Foyer	AIRBUS IDTechEx Shmuel De-Leon
15:45 16:15	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy Evaluating the E-Bus Li-Ion Battery Market Trends	AIRBUS IDTechEx Shmuel De-Leon
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	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy Evaluating the E-Bus Li-Ion Battery Market Trends Networking Break: Coffee & Refreshments in the Foyer Forecasting Raw Materials Cost and Availability and Investigating Trends in Global Procurement Strategies Speaker / Moderator Gavin Montgomery, Director – Battery Raw Materials,	AIRBUS IDTechEx Shmuel De-Leon Energy Ltd
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy Evaluating the E-Bus Li-Ion Battery Market Trends Networking Break: Coffee & Refreshments in the Foyer Forecasting Raw Materials Cost and Availability and Investigating Trends in Global Procurement Strategies Speaker / Moderator Gavin Montgomery, Director – Battery Raw Materials, Wood Mackenzie LTD Vincent Ledoux Pedailles, Executive Director, Infinity Lithium The Development of The Lithium-Ion Battery Supply Chain in Europe and its	AIRBUS IDTechEx Shmuel De-Leon Energy Ltd Wood Mackenzie A Versk Business
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy Evaluating the E-Bus Li-Ion Battery Market Trends Networking Break: Coffee & Refreshments in the Foyer Forecasting Raw Materials Cost and Availability and Investigating Trends in Global Procurement Strategies Speaker / Moderator Gavin Montgomery, Director – Battery Raw Materials, Wood Mackenzie LTD Vincent Ledoux Pedailles, Executive Director, Infinity Lithium The Development of The Lithium-Ion Battery Supply Chain in Europe and its Influence on Critical Raw Materials Michael Insulán, Senior Market Analyst, Eurasian Resources Group	AIRBUS IDTechEx Shmuel De-Leon Energy Ltd Wood Mackenzie A Verük Busness
	Speaker / Moderator James Frith, Senior Energy Storage Analyst, Bloomberg New Energy Finance Lithium-ion Battery Market Outlook and the Implications for the Supply Chain Bruno Samaniego, Team Leader of Electrical, Power & Harness Engineering R&T Coordinator of Power & Energy Management for Space Systems, Airbus Defence and Space – Engineering Integration The Future Role of Storage Systems in Aerospace Luke Gear, Technology Analyst, IDTechEx The Silent Transition to Electric Marine Vessels: Technology and Market Outlook Shmuel De-Leon, CEO, Shmuel De-Leon Energy Evaluating the E-Bus Li-Ion Battery Market Trends Networking Break: Coffee & Refreshments in the Foyer Forecasting Raw Materials Cost and Availability and Investigating Trends in Global Procurement Strategies Speaker / Moderator Gavin Montgomery, Director – Battery Raw Materials, Wood Mackenzie LTD Vincent Ledoux Pedailles, Executive Director, Infinity Lithium The Development of The Lithium-Ion Battery Supply Chain in Europe and its Influence on Critical Raw Materials Michael Insulán, Senior Market Analyst, Eurasian Resources Group Clean Cobalt in the Age of Electric Mobility and Renewable Energy Denis Sharypin, Head of Market Research, MMC Norilsk Nickel	AIRBUS IDTechEx Shmuel De-Leon Energy Ltd Wood Mackenzie A Verik Business ERG

Close of Day One and Evening Drinks Reception in Exhibition Hall Sponsored by LORD

Track 2

Day 1 - Tuesday 7 May

Battery Engineering & Design

08:30 - 12:30 Morning Plenary Sessions taking place in Conference Room C2.3

Conference Delegate Networking Lunch 12:30 **Preventing Thermal Runaway Through Improving Thermal Management in Battery Pack Design** Moderator Dr Cedric Rouaud, Global Technical Expert - Thermal Systems, Ricardo Eric Darcy, Battery Technology Discipline Lead, NASA Johnson Space Center Safe, High Power/Voltage Battery Module Design Challenges Alvin Wu, Distinguished Member of Technical Staff -William Henry Merrill Society Research Engineer / Commercial & Industrial R&D, Underwriters Laboratories Forensic Analysis to Explore the Safety Characteristics in Lithium-ion Batteries (LIBs) and Lessons Learned from Failures Christophe Dos Santos, Application Engineer, LORD **Choosing Thermal Management Solutions and Why it Matters** Dr Carlos Ziebert, Head of the Battery Safety Center, KIT IAM How Heat Flux Sensors Can Help in Advancing Thermal Management of **Cells and Packs** Stephen Neumann, Senior Manager, H.B. Fuller H.B. Fuller Thermal Runaway / Propagation Prevention - Encapsulation Techniques to Enhance Safety and Crash Performance 16:00 Networking Break: Coffee & Refreshments in the Foyer Assuring Global Competitiveness: European versus Chinese Pack Design 16:15 Moderator William Yue, Principal Engineer, Battery Systems, Ricardo Yuan Li, Director of Powertrain, BAIC Motor Company

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Sven Schulz, CEO, Akasol

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Conference Europe

Track 3

Day 2 - Wednesday 8 May

Electric & Hybrid Vehicle Technology

08:30 Hybridization: Examining the Latest Technologies and Architectures to Deliver Electric Vehicle Efficiency and Meet Customer Demands

Moderator Jared Kearby, Principal Analyst, Power Technology Research

PT Power Technology Research

Gereon Hellenbroich, Department, Manager, Transmission Design and CAE, FEV Europe GmbH Outlining the Development of a Powershiftable Two-Speed Electric Drive Unit for High-Performance Applications

FEV

Chris Hilton, Chief Technology Officer, Protean Electric The Role of In-Wheel Motors in Future Transportation

PROTEAN Bectric Automative Technology

Han-Hein Spit, Vice President, Bosch Transmission Technology B.V.

Evaluating the Potential of CVT Technology in Improving Electrified Powertrains

BOSCH

10:30

Networking Break: Coffee & Refreshments in the Foyer

11:00 E-Motor Developments: Latest Developments In E-Motors and Powertrain Design Including; Alternatives to Rare Earth Magnets, Axial Flux Motor Technology and Thermal Management

Moderator Jared Kearby, Principal Analyst, Power Technology Research

PT_R Power Technology Research

Christian Pronovost, Sr. Product Manager, Dana Incorporated Motor Topology Selection for Electric Vehicles



Quentin Werner, Electric Machine Design Engineer, Daimler

Determining the Optimum Rotor-Topology for Electric Drives

DAIMLER

Michael Lampérth, CEO, Phi-Power



Examining the Latest Developments in and the Potential of Axial Flux Motor Technology

Peter van Duijsen, Researcher, TU Delft Simulating Thermal Management for E-Motors and Power Electronics



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

Powertrain Efficiency: Evaluating the Different Techniques for Improving the Energy Efficiency of The Electric Powertrain

Moderator/Speaker Robert Stanek, Lead Electric Powertrain and Cost Management, P3 Group



Greg Harris, Global Electrification Services Leader, HORIBA MIRA

The Development of Efficient Electric Powertrains



Johan Vanhuyse, Research & Application Engineer, Siemens Industry Software

Generative Engineering: Automatically Creating and Evaluating Hybrid Powertrain Architectures

SIEMENS

15:15

Networking Refreshments in Conference Foyer

15:45 Race Track to The Road: Evaluating the Latest Second Generation Race Technology

Moderator/Speaker Jana Kirchen, Consultant, P3 Group



Jason King, Business Development Director, Integral Powertrain

Race to the Clouds - From the Record Breaking VW I.D. R Pike Peak Car to the Road



Rosen Daskalov, Founder, Sin Cars

Outlining the L City Is a Multifunctional Electric Vehicle Platform – Charting the Evolution of Sin Cars from Race Track to The Road



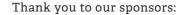
Anthony Law, Head of Motorsport Batteries, McLaren Applied Technologies

















Day 2 - Wednesday 8 May

Track 1

Optimising Automotive Battery Technology Design

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08:30	Welcome Address Paul Freeland, Principal Engineer, Cosworth	COSWORTH			
08:45	Balancing Functionality and Application Design in OEM Platform & Battery Development				
	Dr Kai-Christian Moeller, Spokesman, Fraunhofer Batteries Development Perspectives for Cell Formats of Lithium-Ion Batteries in Electromobility	Fraunhofer			
	Karsten Mueller, Senior Vice President High Voltage Systems Management, IAV GmbH EMBATT – A New Approach To Battery Design	automotive engineering			
	AK Srouji, Director of Battery Cell Technology, Romeo Power	ROMEO POWER TECHNOLOGY			
	Dustin Grace, VP of Engineering, Energy Storage and Power Systems, Proterra	PROTERRA			
10:30	0:30 Networking Break: Coffee & Refreshments in the Foyer				
11:00	Electrification for the Masses: Optimising 48V Battery Systems for Mild-Hybrids				
	Moderator Paul Freeland, Principal Engineer, Cosworth	COSWORTH			
	Michael Bassett, Chief Engineer - Research & Advanced Engineering, MAHLE Powertrain Limited 48 V High-Power Battery for Mild-hybrid Electric Powertrains	MAHLE Powertrain			
	Ian Braime, Executive Director, Low Voltage Product Management, A123 Systems Key Considerations When Selecting Battery Solutions for 48V Applications	A123			
	Phil Shaw, Product Line Director, Johnson Controls Why LTO Based Chemistries are The Future of 48V Batteries	Johnson Controls			
12:30	Networking Lunch & Opportunity to Take Advantage of Activities on Show Floor				
14:00	Investigating Advances in Modular Pack Design and Applications				
	Paul Freeland, Principal Engineer, Cosworth	COSWORTH			
	Paweł Swoboda, Electric Vehicles Business Development Manager, BMZ POLAND Current and Future Modularity Approach in Heavy Electrical Vehicle Battery Systems	THE INNOVATION GROUP			
	Martin Klein, Senior Vice President of Engineering, XALT Energy LLC Extending Vehicle Mission Capabilities with Adaptive Battery Modules and Controls Tobias Mayer, Technical Manager, LION Smart GmbH Modular Battery Packs on the Basis of Different Cell Technologies and Geometries – Outlook to Cylindrical System Design	XALT Energy			
15:15	Networking Break: Coffee & Refreshments in the Foyer				
15:45	Extending Battery Life, Range and Performance through Battery Management System	ıs			
	Moderator Paul Freeland, Principal Engineer, Cosworth	COSWORTH			
	Roland Biberger, System Architect Electronics HV-Battery, Audi Future Trends in High-Voltage Battery Electronics	∞			
	Joel Sylvester, Chief Technology Officer, Dukosi Ltd BAFTA - A Toolkit for Design and Optimised Operation of EV Batteries	D U K O S I			
	Oskar Dondelewski, Advanced Operations Engineer, Aston Martin	ASTON MARTIN			
	Samuel Cregut, Battery Management System Expert, Groupe Renault A BMS Breakthrough: an OEM Theoretical and Proof Of Concept Approach to Wireless BMS	GROUPE RENAULT			
	Alexandre Collet, Chief Technology Officer, ION Energy Inc. Battery Intelligence: Using Data to Make the BMS Smarter and Improve Battery Life and Performance	IONENERGY			
17:00	Close of Day Two and Evening Drinks Reception in Exhibition Hall				

Track 2

Battery Chemistries: Increasing Energy Density & Future Battery Cell Design

08:30 Moving Toward Higher Nickel Chemistries in Lithium-Ion Batteries for Increased Energy Density

Moderator Andy Leyland, Head of Forecasting, Benchmark Mineral Intelligence

BENCHMARK MINERAL

Claudio Brivio, R&D Engineer, CSEM

The High Energy Density Challenge in Solar-Powered Aviation: The Case Of Solarstratos

:: csem

Dr Dee Strand, CSO, Wildcat Discovery Technologies
Accelerating Development of High Nickel Cathodes

Joanna Clark, Head of Product Development, Battery Materials, Johnson Matthey Next Generation High-Energy Low-Cobalt Cathode Materials for Greater

JM Johnson Matthey Inspiring science, enhancing life

Raymond Oei, CEO, PT STERN

Stability and Safety

Considering Manganese As the Key to Lower Cost Per kWh

QTEDM

Networking Break: Coffee & Refreshments in the Foyer

11:00 Pushing the Limits of Lithium-Ion Cell Development – Developing Higher Capacity Materials

Moderator Jim Greenberger, Executive Director, NAATBatt International

ENAATBatt

Kenan Sahin, President and Founder, CAMX Power LLC Innovation for Lithium-Ion Batteries: Gaps, Opportunities, Obstacles

CAM POWER TO

Dr Wasim Sarwar, Technical Specialist – Battery Systems, Williams Advanced Engineering Development of Cutting-Edge Battery Packs Using Next-Generation Cell Chemistries

WILLIAMS ADVANCED ENGINEERIN

Tobias Placke, Head of Division "Materials", MEET Battery Research Center, University of Münster

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Towards High-Energy Lithium-Ion Batteries: Reaching the Limits of Intercalation Chemistry

Andrey Senyut, CEO, OCSiAl Energy

Reaching 300 Wh/kg Energy Density with Graphene Nanotubes in High-Energy Si/C/SiO Anodes O C Si Al

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

14:00 Future Proofing 12V Technologies: Lead Acid VS Lithium and Alternative Technologies

Moderator/Speaker Rene Schroeder, Executive Director, EUROBAT

EUROBAT

The EU Before the Elections - What's Next for Batteries on the Legislative Horizon?

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Christoph Fehrenbacher, Managing Director, A123 Systems

Jörn Albers PhD, Manager Global Requirements Analysis, Johnson Controls Power Solutions EMEA, Johnson Controls Power Solutions EMEA

Are All Battery Technologies Created Equal? Creating a Positive Environment and Regulatory Framework That Enables All Electrification Technologies

Johnson Controls

Armin Warm, Supervisor Advanced Power Supply & Energy Management, Ford Research & Advanced Engineering Europe

Ford

15 Networking Break: Coffee & Refreshments in the Foyer

15:45 Investigating Technology Readiness Level of Innovative Battery Technologies

Moderator Shmuel De-Leon, CEO, Shmuel De-Leon Energy

Shmuel De-Leor Energy Ltd

Laurent Hubard, CEO, Tiamat

17:00

Stephen Voller, CEO & Founder, ZapGo

David Ainsworth, Chief Technical Officer, Oxis Energy



Close of Day Two and Evening Drinks Reception in Exhibition Hall

Track 3

Day 3 - Thursday 9 May

Electric & Hybrid Vehicle Technology

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

Vervoerregio Amsterdam

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

Jörn Schwarze, Member of the Board, KVB

Jens Conrad, Head of Department, RVK

 R/ζ

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



Networking Break: Coffee & Refreshments in the Foyer

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 Mobilty **Dynamic Charging Catenary Electrified Heavy Road Transport**

SIEMENS

James Galliher, GSR Charge Stations - Electric Vehicles, Volvo



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

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

Ryan Maughan, Managing Director, Avid Technology Group Ltd

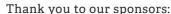
Simon Shepherd, Head of Electrified Powertrain, Drive System Design

















Track 1 **Charging, Validation & Testing**

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

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



Day 3 - Thursday 9 May

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**



Networking Break: Coffee & Refreshments in the Foyer

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



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



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

14:00

Outlining Developments in Battery Safety and Performance Testing Methodologies





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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Expo Europe' in the App Store or Google Play Store



PARACLETE

Day 3 - Thursday 9 May

Battery Manufacturing Trends

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

DAIMLER

AK Srouji, Director of Battery Cell Technology, Romeo Power



Networking Break: Coffee & Refreshments in the Foyer

Creating Material Feed Stock Through Battery Recycling

Innovate UK

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

Track 2

Kunal Phalpher, Chief Commercial Officer, Li-Cycle

Jan Tytgat, Director Government Affairs EU-Benelux, Umicore



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

Ramping Up Battery Assembly to Meet Future OEM Demand: Building 14:00 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

Martin Anderlind, Director, Northvolt



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

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



northvolt

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



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15:15