

➤ PROGRAM

International Conference and Exhibition

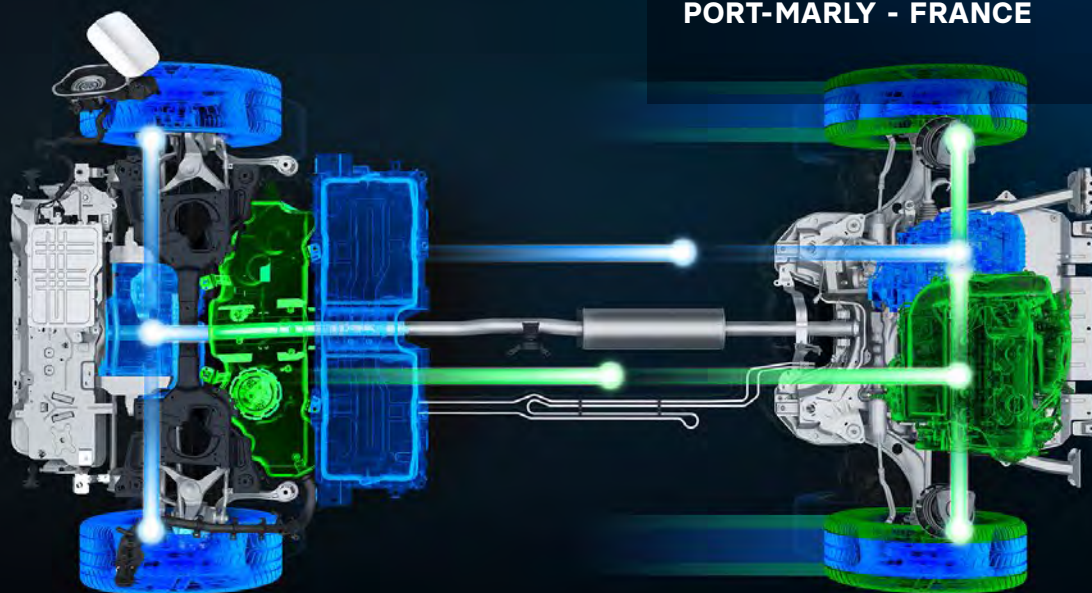
SIA POWERTRAIN PARIS 2023

Powertrain solutions for urban and regional mobility for passenger cars and commercial vehicles

Join us!

14-15 JUNE 2023

PORT-MARLY - FRANCE



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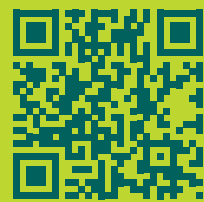


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Assess battery Thermal Management Strategies



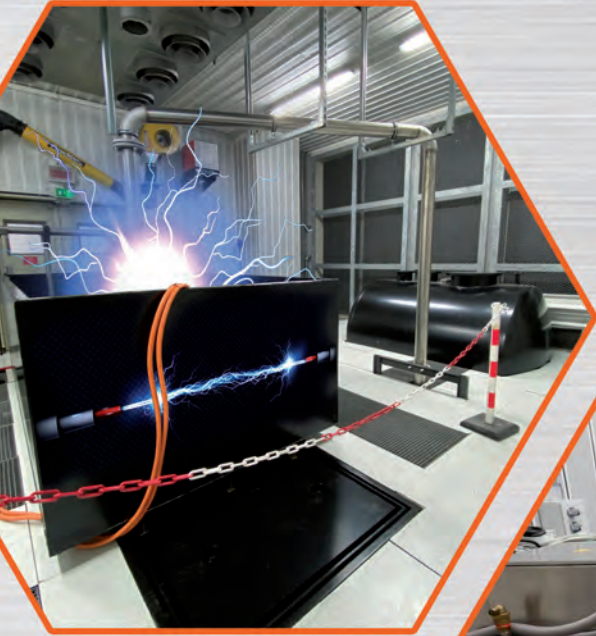
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- Short circuit
- Overcharge
- Over discharge
- ECE R100 Homologation
- IEC 62620, IEC 62928
- ISO 16750...

9 PACK TEST CHANNELS UP TO 1800A, 750kW, 1200V

9 MODULE TEST CHANNELS UP TO 1200A, 64kW, 100V

96 CELL TEST CHANNELS UP TO 1000A, 8kW, 8V

4WD POWERTRAIN BENCH

- Robot driver (pedal, gearbox)
- Battery Simulators up to 750kW
- Performance :
500kW and 2500Nm/dyno(wheel)



INVERTER TEST BENCH

- Battery simulator



Current : 800A
Power : 320kW
Voltage : 1000V

- E-motor emulator



Current : 400A
Power : 320kW
Voltage : 735V

The automotive industry is undergoing an unprecedented transformation due to the energy transition and its impact on society. Powertrain technologies are nowadays key to support this transformation while responding to the evolution of mobility needs.

To be successfully implemented, powertrain technologies must be embedded in the ecosystem formed by the production and distribution of electricity and future fuels. In addition to the energy aspects, the resource depletion issue must be addressed as early as the design stage.

The introduction of new technologies in the automotive context has triggered a profound transformation of the industry's value chain, leading to numerous collective ventures and collaborative projects supported by public authorities.

The 35th SIA POWERTRAIN // Paris 2023 conference will address the full spectrum of electric and hybrid drivetrain technologies with special focus on urban and regional mobility for passenger cars and commercial vehicles.

SIA POWERTRAIN is recognized by automotive stakeholders as an exceptional and unique technical event. The status and first outcome of the main collaborative projects are expected to be shared there.

After an entirely digital version in 2021, which nevertheless gathered 520 participants, the 2023 edition will be the opportunity to meet many participants and exhibitors on site after the success of Rouen last year.

We look forward to welcoming you in Paris in June 2023!

COMMITTEES

Steering committee

Leader: Christian Chapelle
Co-leader: Philippe Bernet

Frédéric Charon, SIA
Noureddine Guerrassi, BorgWarner Inc.
Emmanuel Jean, FORVIA
Bertrand Largy, Expert community EV
Dominique Martineau, VITESCO
TECHNOLOGIES Gaëtan Monnier, IFP EN
Joël Op de Beeck, PLASTIC OMNIUM
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booth 31**



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to book your test ride with us**

SIA Powertrain Paris 2023

June 14-15, 2023

Les Pyramides, 16 avenue de Saint Germain

78560 Le Port Marly, France

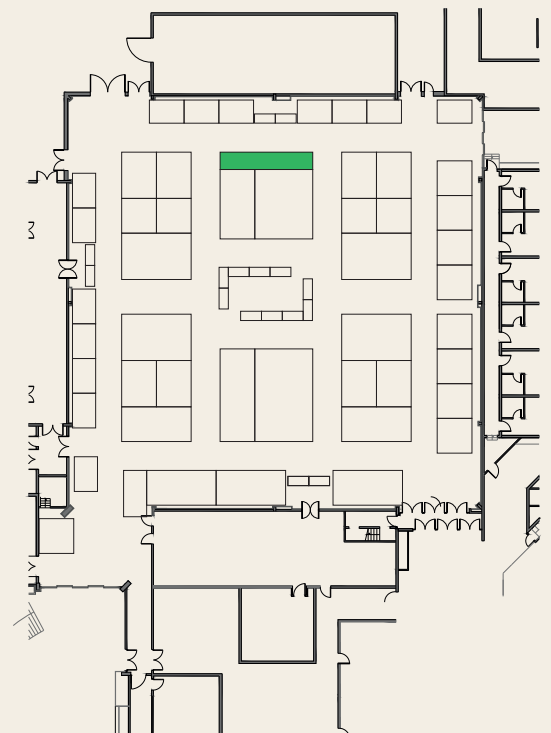
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PROGRAMME 14 JUNE 2023

07:30 > WELCOME COFFEE

OPENING PLENARY SESSION

08:30 > **Welcome introduction**

Frédéric CHARON - SIA

08:35 > **Opening address by the conference chairman**

Christian CHAPELLE - STELLANTIS

08:45 > **Keynote**

Kai-Frederik ZASTROW - CSTA's President

OPENING PANEL SESSION: "Impact of environmental and regulation context on the development of mobility solutions"

Stephen MARVIN - PFA, Moderator

Martin KRUEGER, Senior Vice-president, BOSCH

09:15 > Ysée GENOT, E-Mobility & Sustainability Marketing Manager, SOLVAY

Jean PERSONNAZ, Senior VP for Powertrain, STELLANTIS

Michel FORISSIER, Chief Engineering and Marketing Officer, VALEO

Philippe CHAIN, Co-Founder and Chief Customer Officer, VERKOR

10:30 > COFFEE BREAK IN THE EXHIBITION // TEST DRIVE

	LOW CARBON AUTOMOTIVE PROPULSION SYSTEMS - DESIGN AND SIMULATION OF AN HYDROGEN ICE Chairmen: Virginie Morel, ARAMCO; Ali Mohammadi, Toyota	ELECTRIC MACHINES & POWER ELECTRONICS - ELECTRIC DRIVETRAIN Chairmen: Olivier Coppin, Plastic Omnium; Olivier Pola, Vitesco Technologies	BATTERIES & SYSTEMS - CONTROL Chairmen: Yannick Raynaud, Plastic Omnium; François Barsacq, EasyLi	ECO-DESIGN SOLUTIONS FOR CIRCULAR ECONOMY - BATTERY ECO-DESIGN Chairmen: Catherine Girard, Renault; Remy Schmitt, Bosch
11:30 >	HyMot - A H2 Engine optimized for LCV - Simulations & Design Cédric LIBERT - RENAULT	Optimizing overall efficiency of electric drives for automotive traction application Alexander RAMBETIUS - VALEO	Can fusing Li-ion cell impedance in BMS algorithms lead to further optimization of next generation EV battery system? Akshay MISRA - STMicroelectronics	Reducing the Carbon Footprint of Electric Vehicles through Advanced Battery Management Systems Jérôme LACHAIZE & Alois RENNEN - VITESCO TECHNOLOGIES
12:00 >	Development of a Class 8 Hydrogen ICE Truck, Part 1 - Steady State Engine Development Thomas BRIGGS - SOUTH WEST RESEARCH INSTITUTE	Powertrain design and supply chain strategies for achieving affordable BEVs (battery electric vehicles) Yu YANG - YOLE	Functional Safety for Electric Vehicle Switching and Protection Technology Denis WITTICH - EATON	Eco-designed battery cooling lines Nicolas DUFAURE - ARKEMA
12:30 >	Simulation driven development of CO ₂ -emission free hydrogen combustion engine Andrej POREDOS - AVL	Two speed secondary axle with dog clutch : an opportunity also for main drive ? Antoine VIGNON - RENAULT	Control Strategies for optimizing the Battery thermal cooling management and the cabin thermal comfort control Jin-Ming LIU - VALEO	Highly integrated Battery System approach – Eco-Design 2.0 Brahim SOLTANI - IAV

13:15 > LUNCH BREAK IN THE EXHIBITION // TEST DRIVE

	LOW CARBON AUTOMOTIVE PROPULSION SYSTEMS - ELECTRIC VEHICLE (BATTERY, FUEL CELL) SYSTEM OPTIMIZATION Chairmen: Philippe De Araujo, Garrett Adv. Motion; Philippe Joly, Stellantis	ELECTRIC MACHINES & POWER ELECTRONICS - ELECTRIC MACHINE Chairmen: Olivier Ploix, Renault; Paul Armiroli, Valeo	BATTERIES & SYSTEMS - BATTERY PACK Chairmen: Masato Origuchi, ACC; Dominique Martineau, Vitesco Technologies	ECO-DESIGN SOLUTIONS FOR CIRCULAR ECONOMY - CIRCULAR ECONOMY AND RETROFIT Chairmen: Emmanuel Jean, FORVIA; Marc Lejeune, Volvo Trucks
14:30 >	Integrated Modelling of a Fuel Cell Electric Truck for Energy Management Optimization Luca CAMBRIGLIA & Ugo OLIVAUD - POWERTECH	Innovative rotor shape for electrical machine in a recycling-oriented value chain Baptiste CHAREYRON - IFF ENERGIES NOUVELLES	TBC Harald HAUF - NAWA TECHNOLOGIES	The 4Rs of Circular Economy: Robustify, Repair, Remanufacture & Recycle Mino YAMAMOTO - VALEO
15:00 >	Simulation based Development Methodology for the Thermal Security of Fuel Cell Powertrains Christoph BOETTCHER - GAMMA TECHNOLOGIES	2% Efficiency Improvement of Externally Excited Synchronous Motors by Dynamic Motor Drive Jean ROSENZWEIG - TULA	New 3-in-1 Approach to Higher Energy Density for EV Batteries Vincent DESCOMBES - CELANESE	Partnership RENAULT & TOLV on LCV Retrofit Project Edith MORIN-DUFOUR - RENAULT

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PROGRAMME 14 JUNE 2023

15:30	> Approach towards efficient vehicle energy management Bart VAN MOERGASTEL - DENSO	The 4in1 E-Axle - when BEV powertrains and thermal management become one unit Peter BIEGERT - SCHAEFFLER	Innovative low-cost fast charge, low CO ₂ footprint 800V Li-ion battery pack for BEV Gwereg PAOLINI - PLASTIC OMNIUM	Product Carbon Footprint in the Automotive Supply Chain Ansgar CHRIST - BOSCH
17:00	> COFFEE BREAK IN THE EXHIBITION // TEST DRIVE			
	LOW CARBON AUTOMOTIVE PROPULSION SYSTEMS - LOW EMISSIONS VEHICLE USING HYDROGEN ICE Chairmen: Daniel Roettger, Ford; Victor Gaste, AVL	ELECTRIC MACHINES & POWER ELECTRONICS - COMPONENT AND VALIDATION Chairmen: Franck Briault, Stellantis; Sophie Personnaz, Valeo	BATTERIES & SYSTEMS - DESIGN/OPTIMISATION Chairmen: François Barsacq, EasyLi; Yannick Raynaud, Plastic Omnium	NEW MOBILITY ECOSYSTEM INCLUDING ENERGY SUPPLY - SMALL MOBILITY Chairmen: Jérôme Mortal, ULTIMA; Patrick Cremona, Vitesco Technologies
17:00	> A Van with H2 engine on the road - an affordable option for emission free mobility. Mathieu DA GRACA - BORGWARNER	Insulation bearing – Solving your current issues Franz VOLKEL - SCHAEFFLER	Optimized electrical connections for battery packs with very low electrical resistances David MERCS - LISI	Compact and Liquid Cooled 48 Volts eDrive for Light Mobility Guillem ENJALBERT - VALEO
17:30	> Retrofitting commercial vehicles with mono-fuel hydrogen internal combustion engines: A robust and cost-effective solution for the rapid decarbonization of the transportation industry. Thomas DURAND - FEV	Innovative solutions for distributed stator winding and rotor winding for EESM motors Gianpiero VANZETTI - MARSILLI	Engineering Safe Battery-powered Propulsion Systems Through Simulation and Optimization Luigi MILIA - MATHWORKS	3 wheelers a new eco-system Divya CHANDRA - ATUL
18:00	> How to meet EURO7 and zero CO ₂ emission with an ICE Marcos CARVALHO-BARRETO - PLASTIC OMNIUM	Control Algorithm Development for Electric Powertrains through Digital Twin based Methodology Mauro SCASSA - MARELLI	Automated design exploration for xEV vehicles: from vehicle powertrain systems requirements to component specifications Jean-Pierre ROUX & Guillaume BAYSSET - DESSIA	Light, efficient, economic EV for daily mobility Gabriel PLASSAT - ADEME
18:30	> COCKTAIL IN THE EXHIBITION // TEST DRIVE			

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PROGRAMME 15 JUNE 2023

WELCOME COFFEE				
	LOW CARBON AUTOMOTIVE PROPULSION SYSTEMS - HYDROGEN FUEL CELL TECHNOLOGY Chairmen : Fabrice Foucher, univ. Orléans; Marc Sens, IAV	ELECTRIC MACHINES & POWER ELECTRONICS - POWER ELECTRONICS Chairmen : Manuel Gaetner, ST Microelectronics; Mark Muenzer, Infineon	BATTERIES & SYSTEMS - SIMULATION Chairmen : Pierre Gaudillat, FEV; Masato Origuchi, ACC	NEW MOBILITY ECOSYSTEM INCLUDING ENERGY SUPPLY - ELECTROMOBILITY ECOSYSTEM Chairmen : Bertrand Largy, SIA EV expert community; Nicolas Leclère, Stellantis
08:00	> CORAM ECH2 Project: Optimized Controls for Modular Multi-Stack Hydrogen Fuel-Cell Systems Chouaib AFRI - VITESCO TECHNOLOGIES	Liquid Hydrogen Cooling of GaN Propulsion Inverter Temoc RODRIGUEZ - RICARDO	Simulations of thermal runaway propagation in a Li-ion battery pack using 0D and 3D approaches Stéphane CHEVILLARD - IFP ENERGIES NOUVELLES	The World Automotive Powertrain Outlook - WAPO A robust forecast approach allowing for global dynamics & local/regional specificities of Light Vehicle markets Juan VERA - BDO
08:30	> Boosting system considerations for a Fuel Cell based HD Commercial Vehicle Sujeet VANKAYALA - GARRETT	Design consideration for paralleling Sic Mosfet in Powermodule Application. Pierre DAUGAN - VITESCO TECHNOLOGIES	Thermal modeling approaches for NMC Lithium-ion Pouch cell for autonomous vehicle application Ali ABBAS - ESTACA	Smart trailer powerbanks for a successful transition towards mass market Evs Hugo BASSET - EP TENDER
09:00	> Symbio Holistic approach from core component up to complete hydrogen system in order to support successful customer fuel cell vehicle development and market launch Christophe MARECHAL - SYMBIO	Power GaNFET semiconductor technology is in the forefront of reduced carbon footprint in Automotive power electronics and power train solutions Didier CHOWDHURY - NEXPERIA	Characterisation and physico-chemical predictive modelling of Lithium-ion battery cells aging Quentin LAPORTE - SERMA	Electric vehicle battery swapping: current state-of-the art and alternative solutions for free-floating sharing services François BARSACQ - EASYLI BATTERIES
09:30	> SH2APED project Eric DEPARIS - PLASTIC OMNIUM	Aluminum Electrolytic for OBC applications focusing on optimization of the DC Link capacitor bank in terms of thermal management Fabio MELLO - TDK ELECTRONICS	Battery cold performances comparison for Euro 7 application. Julien TRUONG-CANH - PLASTIC OMNIUM	Unlocking the potential of Electric Mobility: Smart Charging, V2X, and renewable energy integration Bassem HAIDAR - AVERE FRANCE
10:00 > COFFEE BREAK IN THE EXHIBITION // TEST DRIVE				
CLOSING PLENARY SESSION Chairman: Nouredine Guerrassi, BorgWarner Inc. & Philippe Schulz, Renault				
11:00	> Keynote Gilles LE BORGNE - RENAULT			
11:30	> Electromobility and its impact on the electrical network Yannick JACQUEMART - RTE			
12:00	> Regulatory overview of electric and ICE retrofitting solutions Elodie COLLOT - UTAC			
12:30 > LUNCH BREAK IN THE EXHIBITION // TEST DRIVE				
14:00 > STUDENT POSTER AWARD				
14:15	> Towards carbon neutrality: no miracles but pragmatic paths Rémi BASTIEN - FISITA			
14:45	> Keynote Philippe PREVEL - NEXTMOVE			
15:15	> PANEL SESSION: Transformation or reboot: Which corporate strategies to harness the environmental shift Moderator: Frédéric CHARON - Director, SIA Philippe BRUNET - Alliance SVP Powertrain & EV Eng. ; RENAULT GROUP Stéphane FREGOSI - President; VITESCO TECHNOLOGIES FRANCE Stefan PISCHINGER - President & CEO ; FEV Yann VINCENT - CEO ; ACC			
16:15	> Closing remarks by the conference chairman Christian CHAPELLE - STELLANTIS			
16:20 > END OF THE CONGRESS				



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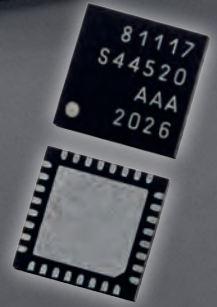
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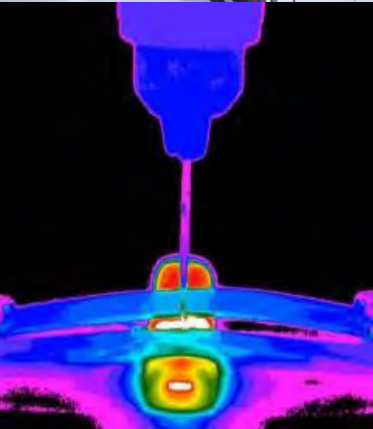
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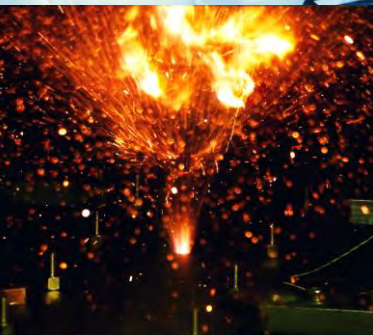
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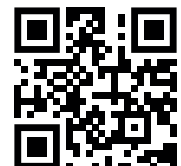
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1 Red route

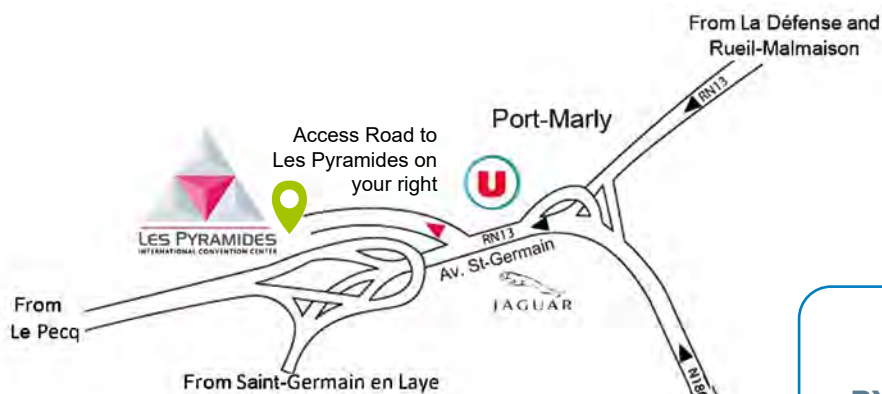
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2 Purple route

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3 Pink route

From Porte Maillot
Direction La Défense
A 14/A86 direction Nanterre, Versailles
EXIT at Rueil Malmaison
0113 Le Port Marly, Bougival
Direction Le Pecq



BY PUBLIC TRANSPORTATION



Please find the best itinerary here:
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We pioneer motion

On Track to Sustainable Mobility

If you're to take sustainability seriously, you have to approach it holistically, which is why we've made it a top priority. As our sustainability report shows, this is true throughout the company: from products and production processes to selecting suppliers and raw materials, and to our corporate culture.

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SCHAEFFLER



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Your contact:

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