



SIA

SOCIÉTÉ
DES INGÉNIEURS
DE L'AUTOMOBILE



PROGRAMME

2017-01

International Conference and Exhibition

SIA POWERTRAIN // VERSAILLES 2017

The low CO₂ spark ignition engine of the future
and its hybridization

 VERSAILLES, FRANCE
June 7 & 8, 2017



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**TEST
DRIVE**



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The automotive industry is entering one of the most exciting periods in its history: driving aids, high-tech embedded systems, connected cars, large-scale hybridization... in an ultra-competitive environment.

Automotive powertrains, especially gasoline, are first in line to benefit from these opportunities but also to meet future challenges: provide global solutions at reasonable costs and provide performance benefits with increasing respect for environmental issues. Implementing overall powertrain optimization strategies plus hybrid energy distribution will also confirm transmissions' key role.

In this context, the 2017 SIA Powertrain Congress in Versailles will address "The low CO₂ gasoline engine of the future and its hybridization." The gasoline engine, hybrid or not, has a major role to play: it supports the international development of the automotive industry by meeting most global market needs, it now offers leading performance through downsizing, and its strong synergy with hybridization helps optimize benefits vs. costs.

The 2015 edition was a fantastic success: more than 400 participants, 50 technical papers, from more than 18 countries. Be part of this adventure and the Gasoline Powertrain revolution. **Join us for this 2017 edition!**

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PROGRAMME // 7 JUNE 2017

07:30 > ATTENDEES REGISTRATION - BREAKFAST IN THE EXHIBITION

OPENING PLENARY SESSION & KEYNOTE SPEECHES

08:30 > Opening address by the Conference Chairmen

Philippe BERNET | Renault
Erwann SAMSON | Groupe PSA

08:45 > Global Energy Demand from Road Transportation Vehicles - A View by 2030 by the PFA & BIPE

Catherine GIRARD - Expert Leader, Strategy on Energy and Raw Materials | Renault

09:00 > Renewable fuels: a natural way for green ICE enabling a circular economy

Dario SACCO, Head of Powertrain Research and Technology | Centro Ricerche FIAT

09:15 > The SI Engine: at the end of its development?

Frank ALTENSCHMIDT - Development Engineer | Daimler

09:30 > Consideration of Powertrain Rational Evolution through Electrification

Masaaki KUBO - Powertrain advanced engineering Alliance General Manager | Alliance Renault Nissan

09:45 > Technology Trends For Gasoline Injection Systems

Philippe BERCHER - Deputy Engineering Director FIE, Powertrain Systems | Delphi

10:00 > The transformation of powertrain with electrification

Michel FORISSIER - Product Marketing, Research and Development Director | Valeo

10:15 > Panel Discussion with the Keynote Speakers

10:30 > COFFEE BREAK

VARIABLE COMPRES-
SION RATIO
Philippe BERNET | Renault
& Erwann SAMSON |
Groupe PSA

ENERGY MANAGEMENT
& CONTROL
Franck ALTENSCHMIDT |
Daimler & Yasuo MORIYO-
SHI | Chiba University

EGR MANAGEMENT
Emmanuel JEAN | Faurecia
& Daniel ROETTGER | Ford

CYLINDER DEACTIVA-
TION & CAM PHASING
Geoffroy MARTIN | MOVEO
& Ricardo NOVELLA | CMT

11:00 > Combination of Variable
Compression Ratio and
Early Intake Valve Closing
as a Basis for Future
Highly Efficient Gasoline
Engines

M. Sens, M. Guenther,
U. Walther, S. Nicklitzsch,
J. Mueller | IAV

Predictive and Optimal
Control for Connected
Hybrid Vehicle

M. Sans | Continental
Automotive

Optimisation of Low Pres-
sure EGR to Reduce BSFC
on a 3-Cylinder Gasoline
Turbocharged Direct

S. Petrovic, C. Vigild,
J. Groeger, K. Grieser,
A. Kuske | Ford Research
Centre

Potentials of Modern
Camshaft Phasing
Systems

P. Solfrank,
J. Dietz | Schaeffler
Technologies

11:30 > AVL Dual Mode VCSTM
- The Modular and Cost
Efficient CO₂ Reduction

H. Sorger, W. Schöffmann,
S. Lösch, A. Krobath,
A. Fürhapter, W. Unzeitig,
G. Fraidl | AVL
K. Arens, Th. Weiß, M. Hel-
ler | iwis motorsysteme

Online Optimal Control of
a Plug-in Hybrid Electric
Vehicle with Adaptive
Battery Discharge Mana-
gement

T. Miro Padovani,
A. Ketfi-Cherif | Renault

LP EGR mixing under RDE
extended conditions: ana-
lysis of key parameters
influencing condensation

I. Vidal, A. Sotelo,
I. Gonzalez,
X. Perez | BorgWarner

Dynamic Skip Fire:
An Optimized Cylinder
Deactivation Strategy

M. Younkins, J. Fuerst | Tula
Technology

12:00 > VCR-VVA-High Expansion
Ratio: A Very Effective
Way to Miller-Atkinson
Cycle

V. Collee, C. Constensou |
MCE-5 Development

Fuel Economy Benefits of
Electrified Powertrains
with Advanced Com-
bustion Engines: Mild to
Strong HEV Applications

M. Shahbakhti,
A. Solouk | Michigan Tech-
nological University

Simultaneous Achieve-
ment of Low Emissions
and High Efficiency
through Dedicated
Exhaust Recirculation

T. Alger, T. Briggs,
C. Chadwell, B. Denton,
D. Robertson | Southwest
Research Institute

Innovative Active Torsio-
nal Vibrational Damping
System for Engine Cylin-
der Deactivation, Down
Speeding & Best Comfort

V. Saxena, F. Schneider,
A. Moser | BorgWarner

12:30 > LUNCH BREAK

PROGRAMME // 7 JUNE 2017

	ADVANCED ENGINE CONCEPTS Ali MOHAMMADI Toyota Europe & Andy WARD Ricardo	PARTICULATE EMISSIONS MITIGATION Nadim ANDRAOS FEV & Jean Marc BOULARD IAV	EFFICIENT ENGINE & IGNITION Hans NUGLISCH Continental & Marc SENS IAV	HYBRID TRANSMISSIONS Jérôme MORTAL Jaguar Land Rover & Alex TYLEE DSD
14:00 >	Investigation of Combustion Engine Concepts for the use in an Electrified Powertrain V. Bevilacqua Porsche Engineering	Emissions from Vehicle Exhaust of Gaseous Precursors of Atmospheric Particles K. Sartelet CEREA	Increasing Modern Spark Ignition Engine Efficiency: Optimization of Intake Ports Dedicated to Miller Cycle, High Dilution and Increased Compression Ratio J. Trost, O. Laget, M. Cordier, F. Duffour, X. Gautrot IFPEN	Electric Drive Units for Hybrid Vehicles: Topology and Impact on Efficiency F. Garbo, A. Michaelides, J. Mortal Jaguar Land Rover
14:30 >	A Modular Base Engine Architecture for Mild Hybrid Applications P Grzeschik, J. Scharf, A. Uhlmann, M. Souren, M. Plettenberg, J. Lehmann, A. Balazs FEV	Gasoline Particulate Filters - Market and Technology Trends and their Impact on Calibration M. Görgen, S. Herrmann, M. Hendrikx, M. Nijs, J. Scharf FEV S. Sterlepper Institute for Combustion Engines, RWTH Aachen University	Engine and Aftertreatment Strategies for Lean Gasoline Engines to Meet Real Driving Emissions Legislation E. Koehler, R. Osborne, M. Keenan, T. Downes Ricardo	PHEV and HEV: New Alliance Hybrid Transmission for Compact Cars N. Fremau, A. Ketfi-Charif, A. Vignou Renault
15:00 >	200kW/l: Modular Engine Family Stretch for Highest Commonality and Performance M. Neubauer, P. Kapus, D. Hilbert, W. Schoeffmann AVL	Performance of advanced Gasoline Particulate Filter Material for Real Driving Conditions D. Thier, K. Kato, M. Yamashita, C. D. Vogt NGK EUROPE Y. Ito, T. Shimoda, T. Aoki, H. Sakamoto NGK INSULATORS	Homogenous Lean Burn Combustion for Gasoline Engines: A Comparison between High Energy Spark Ignition and High Frequency Corona Ignition Systems A. Paa, M. Wörner, C. Spang, G. Rottenkolber University of Applied Sciences Esslingen	Full Hybrid Planetary Transmission with On Demand Actuation P. Janssen, Y. Zhang FEV
15:30 >	Extremely Downsized Gasoline Demonstrator Vehicle M. Bassett, J. Hall, T. Cains MAHLE Powertrain R. Wall Aeristech	Experimental Investigation of Ethanol Blends in a DISI-Engine in Transient Operation with Regard to Particle Emissions and Mixture Formation A. Heinz, H. Karlsruhe, J. Pfeil, C. Disch, T. Koch KIT	A Novel Low-Temperature Plasma Ignition System Applied to a GHP Engine Y. Moriyoshi, T. Kuboyama, O. Matsumoto Chiba University T. Nakamura, Y. Kinuzawa Toyota K. Tanoue Ohita University	The Future for the Connected Drivetrain Systems S. Shepherd Drive System Design
16:00 >	COFFEE BREAK			
16:30 >	PANEL SESSION Christian CHAPELLE - Head of Powertrains and Chassis Groupe PSA Anthony HARPER - Research Director Jaguar Land Rover Helmut LIST - President AVL Robert MEYER - Vice President Corporate Strategy/Cooperations BMW Koichi NAKATA - Project General Manager, Advanced Engine Design & Engineering Div., Powertrain company Toyota			
18:30 >	COCKTAIL DINNER IN THE EXHIBITION			

PROGRAMME // 8 JUNE 2017

08:00 > WELCOME COFFEE IN THE EXHIBITION

MICRO & MILD HYBRIDS
Pierre Yves GEELS | AVL &
Sebastien POTTEAU | EMC

FUEL INJECTION
Rémy SCHMITT | BOSCH
& Philippe SOUHAITE |
Groupe PSA

**BOOSTING
TECHNOLOGIES**
Gunther FRAIDL | AVL &
Gaétan MONNIER | IFPEN

**VIRTUAL ENGINE
DESIGN**
Kyoungdoug MIN | Seoul
National University &
Jean Sebastien ROUX |
Honeywell

**08:30 > Next Gen 48 Volt Hybrids
by New Architectures and
Connectivity**
F. Graf,
O. Maiwald | Continental
Automotive

**Improved MPI Engine
(Combustion Efficiency
& PN): Engine Basis for
"Massive" Hybridization?**
C. Genin | Continental
Automotive

**VNT Turbocharger for
Gasoline "Miller" Engines**
N. Bontemps, A. Vondrak,
J-S. Roux, L. Pohorelsky, D.
Jeckel | Honeywell
R. Aymanns, D. Lückmann
| FEV

**Fully virtual Develop-
ment of a EU7 compliant
Gasoline Combustion
System, using an efficient
OD/1D/3D based Develop-
ment Approach**
N. Genty, N. Iannucci,
A. Raulot, A. Tellier |
Groupe PSA
L. Boettcher, E. Tim Faul-
seit, C. Frottier, M. Riess,
M. Sens | IAV

**09:00 > 12+12V and 12+48V
Hybridization: A Modular
Approach and Transmis-
sion Impacts**
O. Coppin | Valeo

**Realising Direct Injec-
tion Mixture Formation
Benefits with a Dual
Port Fuel Injection (PFI)
System**
A. Kevric, P. Richardson,
H. Kaneta | DENSO Interna-
tional Europe
M. Iwamuro, T. Mizobuchi,
H. Shibata | DENSO Cor-
poration

**AC Cooler for Electrical
Supercharger Com-
pressed Air**
E. Droulez | Valeo

**Numerical Study on the
Particle Number Emission
of Different Charge
Motion and Injection Stra-
tegies in a DI-SI Engine at
High Engine Load**
D. Notheis, A. Velji, T. Koch,
M. Bertsch | KIT

**09:30 > Versatile Selectable
e-Machine Configuration
Increases the Perform-
ance Potential for a
Low Cost Electric Hybrid
Transmission**
D. Yates | Drive System
Design

**Near-Field Velocity
Measurement of a
Multihole GDI Injector**
Y. Cao, J-B. Blaisot,
S. Idahcen,
C. Lacour | Coria

**Enhanced Gasoline
Engine Performance with
Water Injection: no longer
a dream**
J. Op de Beeck | Plastic
Omnium

**Simulation of Fast
Transients of GDI Engines
using Large-Eddy Simu-
lation**
S. Jay, A. Poubeau, B. Roux,
J. Bohbot,
M. Cordier | IFPEN

10:00 > COFFEE BREAK & STUDENTS POSTER SESSION !

**REAL DRIVING EMIS-
SIONS CHALLENGES**
Jean Christophe LAMO-
DIERE | Kistler & Philippe
BERCHER | Delphi

**GASOLINE AUTO-IGNI-
TION CONCEPTS**
Virginie MOREL | ARAMCO
& Pierre DURET | IFP
School

KNOCK MITIGATION
Denis LEVASSEUR |
Renault & Jean Jacques
MILESI | Dynergia

**ADVANCED
TRANSMISSIONS**
Omar HADDED | DSD &
Pascal HERVET | Valeo

**11:00 > Increasing RDE Robust-
ness using Methods of
Statistical Learning**
F. Springer, M. Hegmann,
M. Knaak, D. Reppel | IAV

**Transition between SI and
CAI Operating Modes in
an Automotive, Low Cost,
Gasoline, 2-Stroke Engine**
J.J. Lopez, J.V. Benajes,
J. Valero-Marco | CMT-Mo-
tores Térmicos
G. Coma, C. Libert | Renault

**A Study on Relationship
between Flame Propaga-
tion Process and Position
of Knocking Occurrence
through High-frequency
Piston Flame Measure-
ment System**
S. Cho, C. Song, K. Min |
Seoul National University
M. Kim | Myeongji Univer-
sity
K-P. Ha, B. Kim, I. Suh |
Hyundai Motor Group

**E-Clutch as an Enabler
for the Hybridisation of
Manual Transmissions**
L. Muller, M. Kneißler,
T. Eckenfels | LuK

PROGRAMME // 8 JUNE 2017

11:30	<p>> New Modelling Process to Estimate Real-World Emission and Impact Powertrain Design C. Boulanger, J. Baxter Ricardo</p>	<p>The Importance of the Injection Strategy on a Light-Duty Gasoline Compression Ignition (GCI) Engine at Low Load: effect of umbrella angle, injections timing and residual nitrogen oxide (NO). The analysis P. M. Pinazzi, F. Foucher University of Orléans</p>	<p>Knock Investigation through Optical Diagnostics in a Turbocharged GDI Engine using Fuels with Different Octane Number P. Sementa, F. Catapano, S. Di Iorio, B. M. Vaglieco CNR ISTITUTO MOTORI</p>	<p>Freewheeling Concept: Hybrid Benefits for Manual Transmission at Low Cost P. Zabala Drive System Design</p>
12:00	<p>> Simulation of Real Driving Emissions and Fuel Consumption-Vehicle, Engine and Aftertreatment Modeling in Real-Time C. Pötsch, J. Wurzenberger AVL</p>	<p>Advancement of GDCI Engine Technology for US 2025 CAFE and Tier3 Emissions M. Sellnau Delphi</p>	<p>Knock Mitigation Techniques for Highly Boosted Downsized SI Engines V. Doria, A. Stroppiana, M. Ferrera Centro Ricerche FIAT- EMEA FCA Powertrain S. Luisi EMEA FCA Powertrain F. Millo, M. Mirzaeian, D. Porcu Politecnico di Torino</p>	<p>Novel Actuation and Control for a Multi-Speed Powershifting Transmission for Electrified Vehicles R. Taylor, R. Bames, A. Smith Vocis</p>
12:30	<p>> The RDE Methodology and its Application within the Current Development Process H. Mezher, M. Wenig, C. Armbruster Gamma Technologies</p>	<p>Achates Power Opposed Piston Gasoline Compression Ignition Developments F. Redon, S. Strauss Achates Power</p>	<p>Octane-on-Demand as an Enabler for Lowering CO₂ Footprint of Mobility: From Engine Tests to Vehicle Demonstration and Life Cycle Analysis V. Morel, M. Bedon, V. Gordinillo Aramco Research and Innovation L. de Francqueville, G. Bourhis, F. Vidal-Naquet, S. Dosda, R. Dauphin IFPEN</p>	<p>TRANSCEND - Ultra-Wide Ratio Hybrid DCT S. Nesbitt Jaguar Land Rover</p>
13:00	<p>> LUNCH BREAK & POSTER AWARD CEREMONY !</p>			
	<p>NEW ENGINES INTRODUCTION Federico MILLO Politecnico di Torino & Amin VELJI Karlsruhe Institute of Technology</p>			
14:30	<p>> The New Renault 1.0 MPI Engine P. Grataloup, H. Volkaert, O. Chambert, D. Dagne, D. Reverseau, D. Levasseur Renault</p>			
15:00	<p>> PSA Group's Proposals to Improve the Engine of the Year 2015 & 2016 F. Gouzonnat, S. Dessarthe, N. Goursot, P. Souhaite, S. Izelfanane, S. Le Coq Groupe PSA</p>			
15:30	<p>> Introducing the Ingenium SI Engine: Jaguar Land Rover's new Four-Cylinder Gasoline Engine M. McAllister, F. Borean Jaguar Land Rover</p>			
	<p>CLOSING SESSION</p>			
16:00	<p>> Gasoline Powertrains: Fascinating Challenges for Mobility and Environment Patrice MAREZ - Powertrain System Senior Expert - Vice President Groupe PSA</p>			
16:30	<p>> Conference synthesis & Conclusion by the Conference Chairmen Philippe BERNET Renault Erwann SAMSON Groupe PSA</p>			
16:45	<p>> END OF CONFERENCE</p>			

DEAR STUDENTS!

One of the key roles of SIA is to promote the automotive industry as a career of choice for young engineers.

We give you the opportunity to meet with experts of the automotive industry, who will be pleased to share their knowledge and experience, and inform you about your opportunities at the beginning of your career.

With the support of the IFP School



STUDENT POSTER SESSION 8 JUNE

SIA invites students to present their work - results from projects carried out at school/ university or during internships - on posters that will be displayed in the exhibition area.

The proposed posters should address the same topics as the congress.

- Participation to the poster session is free of charge for the students and their supporting lecturer. Both get free access on 8 June from 08:30 to 16:45 (conferences and exhibition included).
- A jury of powertrain experts will proceed to an evaluation of the 6 best posters from 10:00 to 11:00
- An award ceremony will be organized for the winning student(s) at 13:00 in the main conference room
- A trophy and a prize will be offered to the authors of the 3 best posters.



STUDENTS FORUM, FREE OF CHARGE IF YOU SEND YOUR RESUME 8 JUNE

Exhibiting companies will welcome you to their booths to discuss automotive industry's career opportunities and your expectations.

You will have the opportunity to meet face-to-face HR representatives from different companies to discuss your career entry options and their job vacancies covering internships, student jobs, trainee programmes as well as immediate job opportunities.



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If you want to participate to the entire congress, we invite you to become a member of the SIA (www.sia.fr/adhesion). Then, you will enjoy a lower rate to attend more than 50 presentations and to take advantage of the many networking opportunities.

- 48 € VAT only for 2 days of conferences
- Gala dinner is not included



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This unique event will bring together more than 500 participants: directors, managers, heads of department, engineers, researchers and technicians. An exceptional line-up of guests and speakers will be present for the occasion.

An exhibition is organized during the 2 days of the congress and will allow companies to present their latest products during this unique event.

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* in 600 ex.

CONFERENCE VENUE

Palais des Congrès

10 rue de la Chancellerie - Versailles



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By plane

From Roissy CDG Airport, take RER B towards Paris and stop at "Saint-Michel Notre-Dame". Then, take another train RER C towards Versailles Rive-Gauche. Stop at "Versailles Rive-Gauche". The Palais des Congrès is 5 min by foot.

By train

From Saint-Lazare station (Paris), take a SNCF train towards Paris "Versailles Rive-Droite". The Palais des Congrès is 20 min by foot.


MORE INFORMATION ON OUR WEBSITE:

www.sia.fr/evenements/66-sia-powertrain-versailles-2017




€18.7 Billion
 total sales
 €15.6 Billion
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225
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30
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 Employees


6,000
 Engineers
 & Technicians

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- 1188 € VAT Incl.** (990 € VAT Excl.) - Non Members
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- Registration fee includes participation in the conference, proceedings, coffee breaks, lunches and cocktail.
- If is not possible to send the payment together with the registration form or to pay by credit card, please send an official **Purchase Order**. Failing reception of an official document or payment on the day of the congress, you will unfortunately not be allowed entry to the conference.
- After reception of the registration form, we will send you a confirmation message and an invoice. **Please indicate your Accounts Department address if necessary.**
- In case of cancellation before May 24th, 2017, 30% of the registration fees will be retained. **After this date, the entire registration fee will be retained.** Registered participants who are not able to attend may nominate a substitute. **Written notice must be provided.**



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As a reliable partner we are committed to creating mutual value through long lasting relationships with our partners, customers and communities.



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At AVL, future mobility is already a reality

WE SUPPORT OUR CUSTOMERS WITH COMPREHENSIVE EXPERTISE AND INNOVATIVE TECHNOLOGIES.

As a leading partner to the global automotive industry, we develop environmentally friendly and fuel-efficient drive systems. Our engineers optimize both traditional gasoline and diesel engines as well as the electrified powertrain with its five elements - combustion engine and electric motor, battery, control and transmission. With our measurement and test systems as well as state-of-the-art simulation software, we offer our customers efficient development of their future vehicles.

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