26TH EDITION

SIA Société des Ingénieurs de l'Automobile

PROGRAMME

ROUEN 2014

ROUEN 2014

International Conference and Exhibition

SIA POWERTRAIN

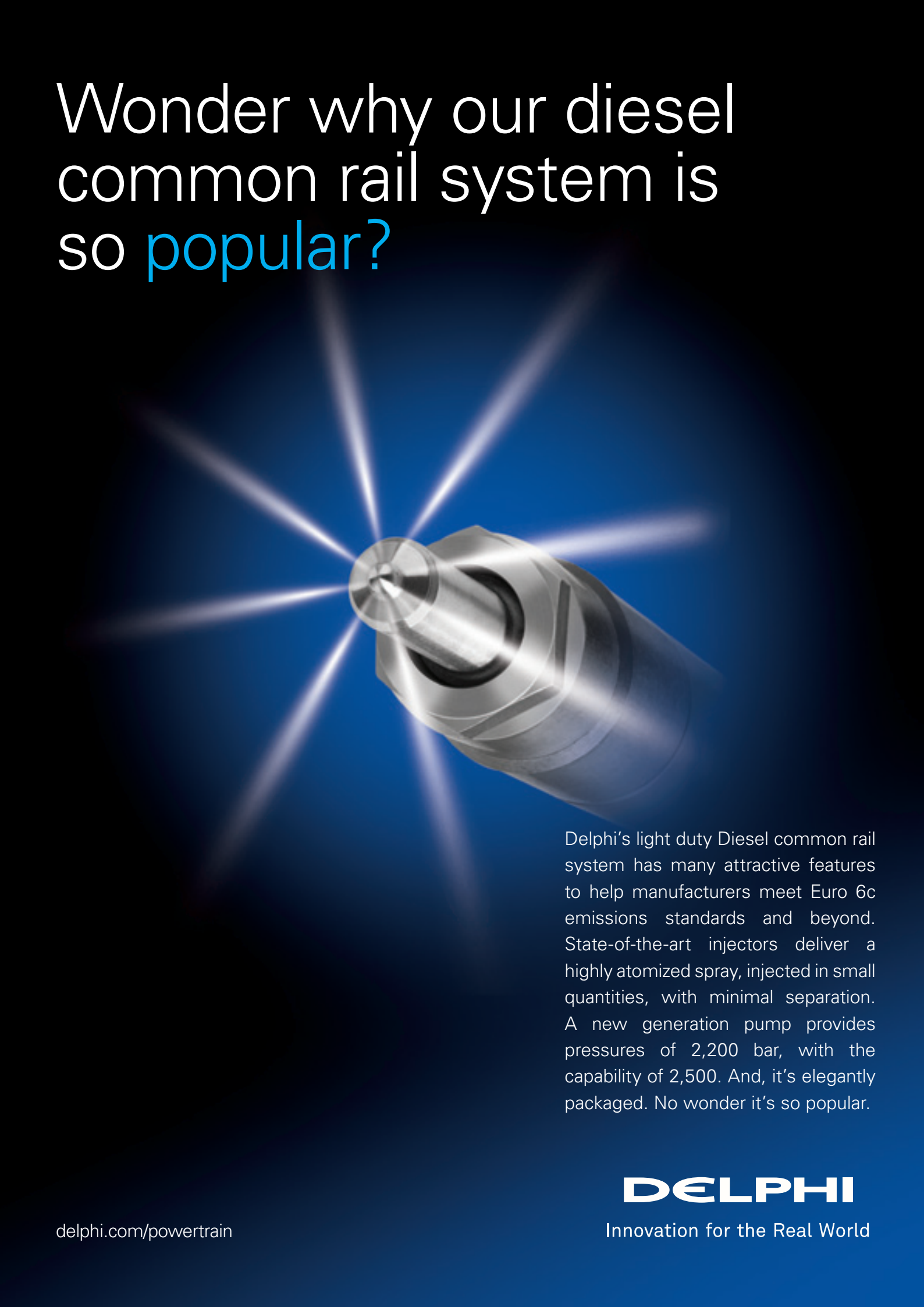
The clean compression ignition engine of the future

Rouen, Normandy - France

INSA | May 21 & 22, 2014

La conférence est cofinancée par l'Union Européenne. L'Europe s'engage en Haute-Normandie avec le FEDER

Wonder why our diesel common rail system is so popular?



Delphi's light duty Diesel common rail system has many attractive features to help manufacturers meet Euro 6c emissions standards and beyond. State-of-the-art injectors deliver a highly atomized spray, injected in small quantities, with minimal separation. A new generation pump provides pressures of 2,200 bar, with the capability of 2,500. And, it's elegantly packaged. No wonder it's so popular.

DELPHI

Innovation for the Real World

delphi.com/powertrain

WELCOME

Dear Colleagues,

The Compression Ignition Engine has undergone major technological evolutions in the last 20 years, with the introduction of numerous innovations in the market place. High pressure fuel injection, electronic control, exhaust gas recirculation and turbo-charging are all key technologies which have been launched whilst engine design and the materials used have also evolved. In more recent times particulate filters, NOx after-treatment and hybridization have begun to emerge.

Upcoming Light Duty Compression Ignition Engine regulations in Europe intend to include more transient testing in real urban driving conditions, which will require further development and understanding of how the Compression Ignition Engine can maintain its leading position with regards to fuel economy. The Clean Compression Ignition Engine Conference intends to give powertrain developers and researchers the opportunity to obtain an overall picture of state-of-the-art technologies and look ahead to future tasks and challenges.

The upcoming edition of the International Compression Ignition Engine Conference will be held on the 21st and 22nd May 2014 in Rouen, France. This will be the 26th International Conference and Exhibition organised by the powertrain section of the SIA. This unique event facilitates the exchange of technical information between scientists and engineers active in varying areas of Diesel powertrain technology. The last edition of the conference (2012) was a great success:

- More than 40 presentations
- International representation with 330 participants
- 30 exhibiting companies
- Panel discussion with executive participants from the automotive industry
- Vehicle technology demonstrations
- Banquet in city of Rouen
- Visit to local vehicle manufacturing sites and research laboratories
- International press presence

The 2014 edition will include an additional forum in the afternoon of May 22nd, where students & industrial representatives will come together enabling the young engineers to obtain key information as they set-off on a career in the automotive industry.

It is therefore a real honour for us to welcome you to this unique event and we are convinced that the interesting conference discussions will bring a common understanding of future challenges.

"We look forward to meeting you in Rouen in May 2014"

Conference General Chair
Noureddine GUERRASSI, Chief Engineer
Advanced Injection & Combustion Engineering - DELPHI

LAST EDITION | 2012

IFP Group
Powertrain Technologies

IFP Group Powertrain Technologies Offer

An integrated range of technologies, products and services

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- Powertrains with a high energy efficiency
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CONTACT
Pauline SENIS - Event Project Manager / Société des Ingénieurs de l'Automobile
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FIRST ANNOUNCEMENT

TRUCKS | OFF-ROAD

Conference & Visit

November 25th, 2014 | Rhône-Alpes, France

Truck and off-road industries are facing two main challenges:

Cost of ownership (fuel consumption is the second or third biggest expenses for a truck operator) and environmental needs (CO_2- fuel consumption, Nox, particulates...).

Two years ago, we had important contribution to Euro6 and hybrid solutions. It's time to have a first feedback on these solutions and prepare the next evolutions of the powertrains for fuel consumption improvement and challenges on the environmental regulations for on road and off-road applications.

The SIA is proposing a working day on these topics. The event will include an industrial site visit and a technical exhibition of truck and off road powertrain technologies.

SIA Société des Ingénieurs de l'Automobile

Further information on SIA website: www.sia.fr

Contact: Emilie OGOR (BONNET)
+33 (0)1 41 44 93 75 • emilie.bonnet@sia.fr

WELCOME TO STUDENTS

As usual, one of the first purposes of SIA is to make automotive industry attractive for young people and students. That's why we invite them to attend the congress and meet the experts and the companies that will be glad to share their knowledge and display their new technologies.

Student registration fees:
40 € VAT exc*

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Free registration if you send your CV!
We will forward it to the interesting companies present among the exhibitors. You may meet your future employer!
contact pauline.senis@sia.fr to register

*You must be or become SIA member before your registration (membership fee: 20 € VAT inc. / year)

TECHNICAL VISITS, MAY 20TH

The afternoon before the conference, SIA organise two visits for the attendees.
If you want to visit one of these sites, please send an e-mail to **pauline.senis@sia.fr**

LIMITED REGISTRATION, for only 40 people

CORIA, CERTAM and ESIGELEC laboratories

© Patrice Le Bris

Discover three laboratories located in the Madrillet Technology Centre, close to the conference venue.
The first aim of this centre is to bring together on one site, higher education and research establishments, technical centres and businesses in order to generate and encourage innovation, technology transfers and the creation of businesses.

Renault Cléon plant

You will visit the new 2.3 dCi engine assembly line.
(Less CO_2 emission - Twin turbo - Downsizing)

PANEL SESSION, MAY 21TH

Diesel Powertrain for passenger cars: what will be the mainstream in 2020?

Moderator: Laurent Meillaud

John Fuerst
President Diesel Systems business unit, Delphi

Jürgen Gerhardt
Senior Vice President System Engineering, Bosch Diesel Systems

Gaspar Gascon-Abellan
Senior Vice President Head of Powertrain engineering, Renault

Patrice Marez
Powertrain system design director, PSA Peugeot Citroën

Jean-Yves Paulin
Vice President Powertrain Engine systems, Continental Automotive

Other participants may join the discussion

The updated programme is available on www.sia.fr

Round-table discussion in 2012 edition

PROGRAMME, MAY 21ST

08:00	**ATTENDEES REGISTRATION WELCOME BREAKFAST**		
09:00	**Opening Address** Noureddine Guerrassi | **General Chair**		
09:30	**Keynote speech #1** Pierre Macaudière, Engine Functionnal Design Manager / Senior Scientist Aftertreatement System Design | **PSA Peugeot Citroën, France**		
10:00	**Keynote Speech #2** Evangelos Karvounis, Global Manager Diesel Systems, Ford Research & Advanced Engineering | **Ford, Germany**		
10:30	**COFFEE BREAK**		
	FUTURE DIESEL POWERTRAIN Amin Velji | **KIT** Federico Millo | **Politecnico di Torino**	**AIR AND EGR MANAGEMENT SYSTEMS** Dominique Petitjean | **Honeywell** Bianca Maria Vaglieco | **Istituto Motori**	**ADVANCED ENGINE CONTROL** Carlos Guardiola | **Universitat Politècnica de València - CMT Motores Termicos** Thomas Rölle | **IAV**
11:00	**PassCar-Diesels Go West - Road-map to Clean Diesel Applications Complying w/ Future Requirements** J. Gerhardt | **Robert Bosch, Germany**	**Low Pressure EGR Loops: What are the Stakes, and the Next Generation of those Systems?** S. Potteau, G. Hodebourg, V. Huet, S. Leroux, K. Surbled | **Valeo, France**	**Model-Based Exhaust Manifold Temperature (T3) Observer for Future Diesel Programs** S. Petrovic, D. Roettger | **Ford, Germany** B. Fulton, M. van Nieuwstadt | **Ford, USA**
11:30	**SULEV Emissions for PC Diesel? – An integrated approach for lowest emissions** A. Beichtbuchner, L. Buergler, R. Cerna, M. Weissbäck | **AVL, Austria**	**Potential of Miller Cycle in Reactivity Controlled Compression Ignition Combustion** A. Garcia, E. Belarte, J. Benajes, S. Molina | **Universitat Politècnica de València / CMT Motores Termicos, Spain** I. Balloul | **Volvo, France**	**Model Based Control: Implementation of this Cost Saving Technology on Complex Engine Systems** P. Fussey | **Ricardo, UK**
12:00	**Vehicle Level Parameter Sensitivity Studies for a 1.5L Diesel Engine Powered Passenger Car with Various Boosting Systems** P. Wetzel, B. Biller, P. Chandras, S. Keidel, | **Eaton, USA**	**Effects of the Intake Air Heating on a Euro 5 Diesel Engine under -7ºC Ambient Temperature, during the Warming Up Period in a New European Driving Cycle** Z. Soukeur, J. Borges-Alejo | **Valeo, France** H. Climent, J-M. Luján, B. Pla | **Universitat Politècnica de València / CMT Motores Termicos, Spain**	**Development and Assessment of a Fully-physical 0D Fast Running Model of a E6 Passenger Car Diesel Engine for ECU Testing on a Hardware-in-the-loop System** A. Ruggiero, I. Montalto, K. Mustafaj, E. Pautasso, P. Poletto, E. Servetto | **Fiat Group, Italy**
12:30	**LUNCH BREAK**		

PROGRAMME, MAY 21ST

	WORLDWIDE MARKET EVOLUTION Philippe Bernet | **Renault** Giovanni Cipolla | **IARE**	DOWNSIZING AND DOWNSPEEDING Vanessa Picron | **Valeo** Gaetano de Paola | **IFP Energies Nouvelles**	ENERGY RECOVERY AND THERMAL MANAGEMENT Nadim Andraos | **FEV** Luc Herbin | **Faurecia**
14:00	**360 Worldwide Automotive Industry - Diesel** N. Meilhan | **Frost & Sullivan, France**	**Evaluation of Downsizing and Downspeeding Concepts to reduce Fuel Consumption of Diesel Engines** L. de Francqueville, G. De Paola, L. Noel | **IFP Energies Nouvelles, France**	**Comparison of High or Low Temperature Working Fluids for Rankine Waste Heat Recovery Systems** R. Haller, Y. Glavatskaya, S. Hammi, L. Labaste-Mauhe, B. Nicolas, A. Taklanti | **Valeo, France**
14:30	**The Future Market of Diesel Powertrain for Passenger Cars, European and Global** M. Costes, J-B. Monteil, J-M. Prillieux, J. Taganza | **Inovev, France**	**Downsizing in Diesel Engines – An Experimental Investigation of Base Engine Design concerning the Diesel Combustion System based on Single Cylinder Engine Experiments** T. Kaudewitz, M. Frambourg M. Schüttenhelm, A. Mork | **Volkswagen, Germany** H. Oetjens, J. Rohr, C. Severin | **IAV, Germany**	**Influence of Active cooling Thermal Management Valve on Fuels Consumption and Engine Warm-up: Co-simulation and Tests** M. Cormerais, T. Marimbordes, Y. Thevenoux | **Mann-Hummel, France** D. Chalet, H. Mezher | **Ecole Centrale de Nantes, France**
15:00	**Tailored Design and Layout for Loss Minimization or Cost-Effective Commonality of Parts - An Contradictory Conflict** B. Werner, T. Körfer, M. Pieper, C. Steffens, R. Vossen | **FEV, Germany**	**Comprehensive Approach for Optimal Diesel Engine Downsizing Combining Thermodynamics and Design Assistance System** V. Dolecek, S. Bogomolov, J. Macek, A. Mikulec, O. Vitek | **CTU Prague, Czech Republic**	**Turbocompounding Application for Small Displacement Engines** Y. Ismail, P. Menegazzi | **Valeo, France** D. Chalet, P. Chesse | **Ecole Centrale de Nantes, France**
15:30	**COFFEE BREAK**		
16:00	**PANEL SESSION** **DIESEL POWERTRAIN FOR PASSENGERS CARS: WHAT WILL BE MAINSTREAM IN 2020?** Moderator: Laurent Meillaud		
17:30	**EXHIBITION VISIT** Refreshment Break		
19:00	**SHUTTLE SERVICE** From the conference venue to Gala Dinner		
20:00	**GALA DINNER**		
23:00	**SHUTTLE SERVICE** From Gala Dinner to the hotels		

PROGRAMME, MAY 22ND

08:00	**WELCOME BREAKFAST**		
	EXHAUST AFTER-TREATMENT [1] Christophe Charial | PSA Peugeot Citroën Jean-Jacques Basset | Renault	**INNOVATIVE ENGINE DESIGN** Neville Jackson | **Ricardo** Ali Mohammadi | **Toyota**	**ENGINE AND POWERTRAIN MANAGEMENT SYSTEMS** Jean-Christophe Lamodière | **Kistler** Omar Hadded | **Tata Motors**
08:30	**Future, Upgraded Exhaust Aftertreatment Systems for Automotive Diesel Engines for Proper Compliance with New Regulations** T. Körfer, B. Holderbaum, B. Werner | **FEV, Germany** T. Wittka | **RWTH Aachen University, Germany**	**Passenger Car Diesel Engine with Steel Piston** A. Hollemaert, J-P. Cadalen, P. Gastaldi, | **Renault, France**	**In Cylinder Pressure Sensor based Combustion Control** B. Varoquie, C. Bouquet, A. Hellemans, E. Walker | **Continental, France** C. Juvenelle | **Continental, Germany**
09:00	**Evaluation of Sulfation and Lean/Rich Desulfation of a NOx Storage Reduction (NSR) Catalyst using an Advanced NSR Model** F-A. Lafossas, M. Lida, A. Mohammadi, K. Yoshida | **Toyota, Belgium & Japan** M. Kalogirou, C. Manetas | **Exothermia, Greece** G. Koltsakis, Z. Samaras | **Aristotle University of Thessaloniki, Greece**	**Next Trends for Engine Friction Reduction** B. Noel | **Renault, France**	**Closed Loop Emission Control in Turbocharged Diesel Engines** C. Guardiola | **Universitat Politècnica de València - CMT Motores Termicos, Spain**
09:30	**Assessment of Diagnostic Approaches for NOx Storage Catalysts in View of Future Emission and OBD Legislation** F. de Smet, C. Nederlof, M. Schneider, E. Smirnov | **Ford, Germany**	**Improvement of Engine NVH for the New Pass-by Noise Regulation** S. Wang, G. Nghiem | **Renault, France**	**Re-optimization of a Euro 5 Engine on WLTC Cycle using Global Calibration Approach** A. Borras Nadal, M. Castagne, F. Nicolas, F. Wahl | **IFP Energies Nouvelles, France**
10:00	**COFFEE BREAK**		

PROGRAMME, MAY 22ND

	ADVANCED COMBUSTION AND FUELS Gaëtan Monnier | **IFP Energies Nouvelles** Jan Macek | **Czech Technical University**	EXHAUST AFTER-TREATMENT [2] Christophe Bouly | **Faurecia** François Jaussi | **Liebherr**	FUEL INJECTION AND SPRAYS Rémy Schmitt | **Robert Bosch** Bertrand Demortier | **Continental**
11:00	**Research on New Fuels to Unlock the Potential of Future Compression Ignition Engines** V. Morel | **Aramco Fuel Research Center, France** N. Jeuland | **IFP Energies Nouvelles, France**	**AdBlue Storage and Delivery System for Operation in Winter Conditions** J. Op de Beeck, J-F. Bérard, J-B. Lepage, J. Snook, A. Thiaucourt, J-J. van Schaftingen | **Inergy Automotive Systems, Belgium and France**	**Correlating the nozzle flow to Spray and Primary Breakup using Visualization and Multi-Phase Simulation** M. Lai, X. Xie | **Wayne State University, USA** G. Dober, N. Guerrassi, J. Shi | **Delphi, Luxembourg** J. Wang | **Argonne National Laboratory, USA**
11:30	**Beyond Euro VI - An FIE System & Combustion Optimisation Approach** N. Keeler, D. Lane, D. Mellors, S. Tullis | **Delphi, UK**	**Continental Emitec SCR Dosing System for Passenger Cars** P. Barbier | **Continental, France**	**Diesel Injector Real Geometry acquired by X-ray Micro-tomography for Detailed In-nozzle CFD Simulations** M. Lorenzi, M. Gavaises, N. Mitroglou | **City University, UK** M. Santini, S. Fest-Santini, G.E. Cossali | **University of Bergamo, Italy**
12:00	**High Efficiency Diesel Combustion with Low Cooling Heat Loss using Restricted In-Cylinder Flow** T. Hashizume, H. Ito, T. Ogawa, T. Tomoda | **Toyota, Japan** M. Kono | **Nippon Soken, Japan** K. Inagaki | **Toyota Central R&D Labs**	**Experimental Characterization of SCR DeNOx-systems : Mixing Box Analysis** M. Lecompte, S. Raux | IFP Energies Nouvelles, France	**Thermal Effects of Fuel Injection on Spray Propagation and Combustion** D. Greif, W. Edelbauer, J. Strucl | **AVL, Austria and Slovenia**
12:30	**Advanced Engineering Tools and Methodologies for Refined Thermodynamic Performance of Advanced Diesel Engines** T. Körfer, B. Holderbaum, H. Rohs, T. Schnorbus, H. Sharareh | **FEV, Germany**	**From Detailed to Real-time Exhaust After-treatment Models** D. Karamitros, I. Koutoufaris | **Exothermia, Greece** V. Epitropou, K. Karatzas, G. Koltsakis, M. Riga | **Aristotle University of Thessaloniki, Greece**	**Analysis of Global Shape and Sizing of Urea-Water Sprays in a Hot Air Flow Tunnel for the Development of SCR Systems** L. Postrioti, G. Buitoni | **Università di Perugia, Italy** C. Ungaro | **Loccioni Mobility, Italy** M. Mosser | **Continental, USA**
01:00	**LUNCH BREAK**		

	PLENARY SESSION Pierre Duret | **IFP School** Daniel Roettger | **Ford**
14:30	**Delphi New Diesel Common Rail System Family** P. Bercher, JL. Beduneau, C. Cardon, G. Meissonnier, HJ. Schiffgens, M. Uberti Bona | **Delphi, France**
15:00	**The new RENAULT dCi 140kW 2,3l Diesel Engine** G. Ambrosi | **Renault, France**
15:30	**Cost Competitive Diesel Aftertreatment Solution to meet Future Emissions Requirements** R. Argolini, D. Mercuri, P. Olmo | **General Motors, Italy**

16:00	**CLOSING SPEECH** Jean-Jacques Basset, Diesel performance expert leader | **Renault, France**
16:15	**END OF CONFERENCE**

ROUEN,
CAPITAL OF NORMANDY

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GENERAL INFORMATION

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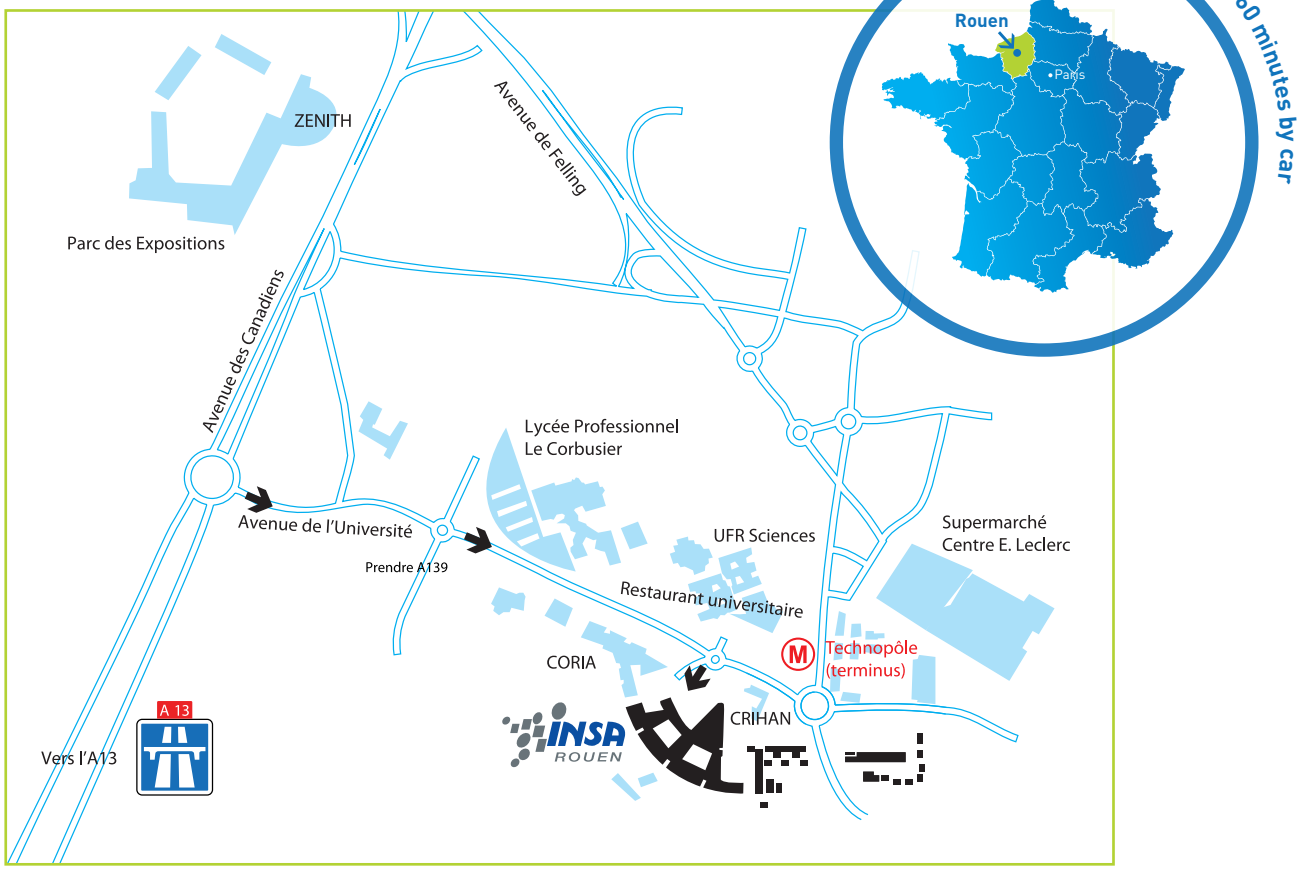

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- Follow A13 / E05 in direction to "ROUEN - CAEN - SAINT ETIENNE DU ROUVRAY - OISSEL".
- Exit #22 "OISSEL - SAINT ETIENNE DU ROUVRAY – SOTTEVILLE - ROUEN". Merge onto E 402 and take the ramp to A150. Continue straight onto D418.
- Exit toward A13/A28/Elbeuf/Caen/Le Mans.
- At the roundabout, take the 1st exit onto D938.
- At the roundabout, take the 1st exit. Continue Straight.
- At the roundabout, take the 2nd exit onto Av. de l'Université
- INSA de Rouen will be on your right.

(P) You can park at the UFR des Sciences de l'Université de Rouen, in front of the INSA.

FROM TRAIN STATION "ROUEN RIVE-DROITE"

- Take the METRO at « Gare-Rue Verte » stop in direction to "Technopole" stop.
- Stop at "Techonopole" which is the end of the line.
- At the roundabout, turn right onto Av. de l'Université and walk 2 min until INSA de Rouen on your left.

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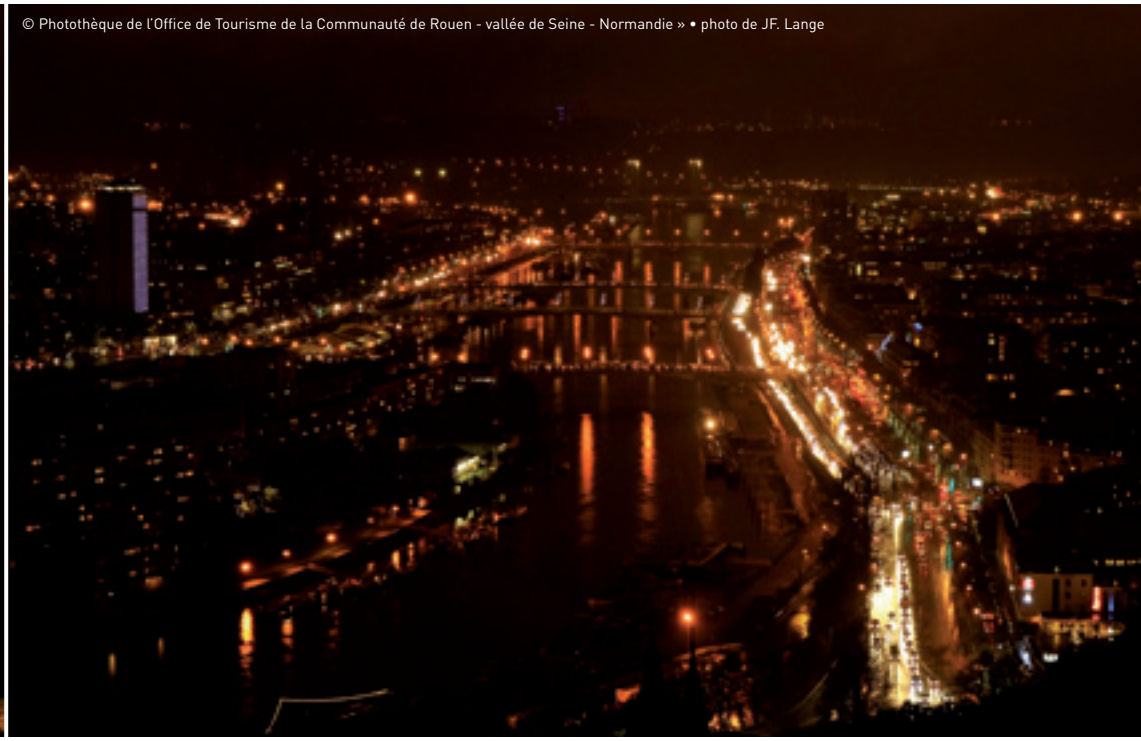

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The exhibition will allow you to show-case your company, present your latest products and create privileged contacts within this unique gathering of targeted decision-makers.

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*As small firms and labos enjoy a lower rate, they can't benefit from this extra discount

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	Back cover	Inside	Inside front cover	Inside back cover
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For further information or for a personal quotation, please contact **pauline.senis@sia.fr**

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Conference "The Clean Compression Ignition Engine of the Future" - May 21 & 22, 2014
Ref: 2014-02

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☐ **1176 € VAT Incl.** (980 € VAT Excl.) - Non Members
☐ **594 € VAT Incl.** (495 € VAT Excl.) - Co-authors* Researchers*, Labs* and Small Firms* (< 100 employees)
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Preferential rates for students, retired people ans groups • For further information, contact pauline.senis@sia.fr, and see page 8.

**Small firms, Researchers and laboratories must not come under the control of big firms (> 100 employees).*

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- Registration fees include participation in the conference, CD of proceedings, book of abstracts, refreshment breaks, lunches and dinner.
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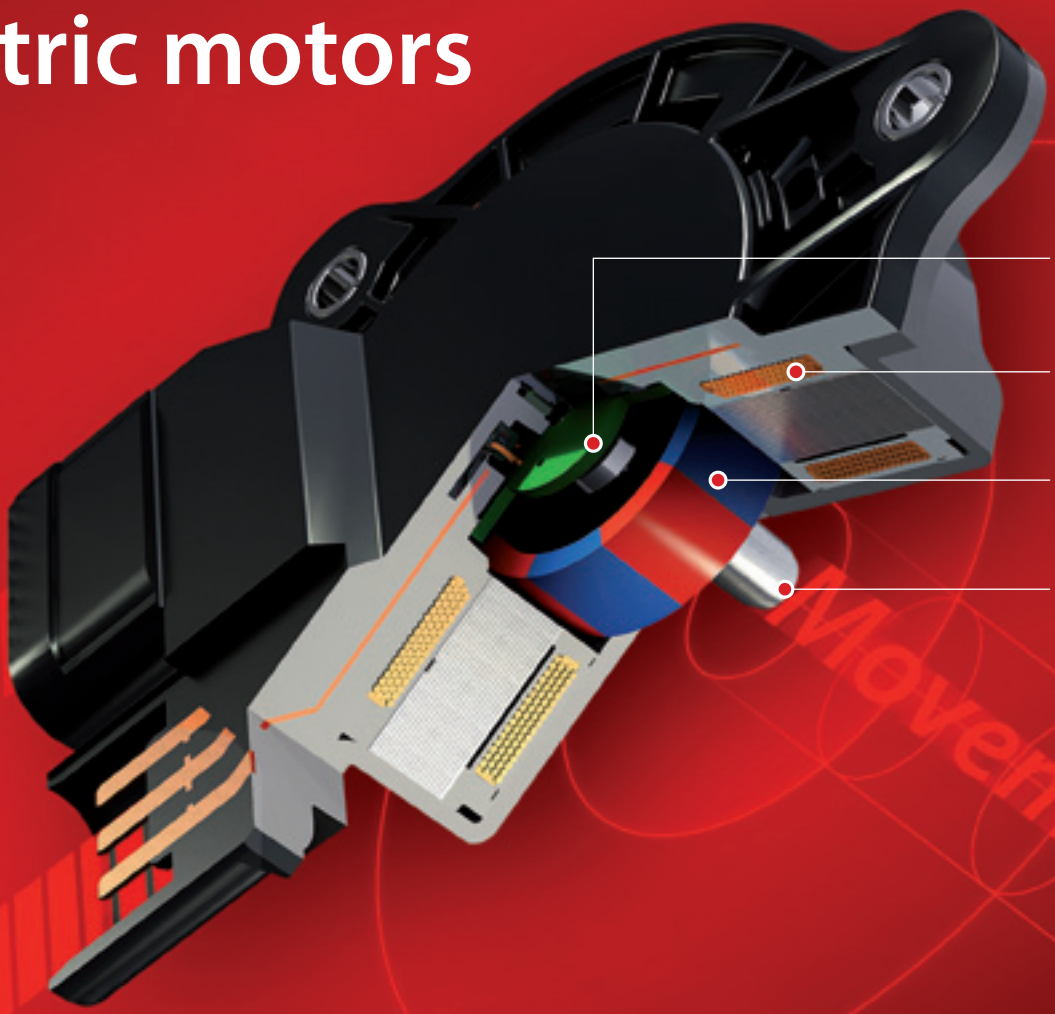

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