



VISION 2014

Vehicle and Infrastructure Safety Improvement
in Adverse Conditions and Night Driving

October 14 & 15, 2014 | Versailles, France
Conference | Night drive tests | Exhibition

PROGRAMME

PHILIPS

ALLIO GROUP

OSRAM

AML SYSTEMS

Mentor Graphics

automotive engineering **iau**

سابك **sebic**

Instrument Systems
light measurement

Optronik Division

OPTIS
From Optics to Virtual Reality

SEOUL SEMICONDUCTOR

SONCEBOZ
from mind to motion

SNECI

VISION 2014



lighting up passion

- since 1914 -

We enable opportunities in styling and innovation through great lighting technologies.

Visit us and experience 100 years of innovation at the forefront of automotive lighting.

innovation  you

100
years
of automotive lighting

WELCOME

VISION congress organized by the SIA, (French Society of Automotive Engineers) is:


- > a well-known International Congress created in 2002 and held on a bi-annual basis,
- > a conference with a unique platform for top-level scientists and engineers from universities, research centers and industries, represented by directors, managers, department leaders and experts,
- > a networking opportunity with exchanges between all lighting/DA players around an exhibition covering a wide range of products and services in the field of lighting and detection systems for ADAS,
- > a strongly growing event, with record participation of 390 attendees in 2012, up 50% from 2010,
- > and characterized by night drive tests with more than 25 demo-cars in 2014 running close to Versailles in order to demonstrate the recent innovations in lighting and driver assistance.

VISION 2014 will be held on the 14 and 15 of October in the wonderful “Palais des Congrès” in Versailles. 2014 will see the progress of innovations:

- > in frontlighting with adaptive lighting systems, LEDs, matrix beams, marker lights, Laser beam and night vision,
- > in signal lighting with DRLs, intelligent signal lights and OLEDs,
- > in ADAS with new sensors and detectors,
- > and in the development of virtual simulators for design and validation.

The event will bring together more than 400 major players in the lighting and ADAS fields to address key topics for vision and road safety.





pan?
wood?
headlamp?

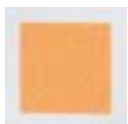
If this is a headlamp – we make it shine!

With WICOP series, every automotive application and function can be realized. The series, specifically developed for the automotive industry, is available in white and phosphor converted yellow. WICOP is ideal for space constraint designs and convinces due to failsafe performance. Truly versatile!

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WICOP FEATURES:

- small and low profile (1.6 x 1.6 x 0.38 mm)
- 25 times more light per mm³
- typ. 110lm @ 350mA for white
- typ. 80lm @ 350mA for yellow
- lowest thermal resistance
- blue printed towards 0 ppm



be bright



SCIENTIFIC COMMITTEE

LIGHTING SYSTEMS

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Polytechnic, USA
Jean-Paul CHARRET | Consultant, France
Hans-Theo DORISSEN | Hella, Germany
Laurent EVRARD | Valeo, France
Kamilav FADEL | Automotive Lighting, Germany
Hector FRATTY | Driving Vision News, France
Whilk GONCALVES | PSA Peugeot Citroën, France
Wolfgang HUHNS | Audi, Germany
Tran Quoc KHANH | TU Darmstadt, Germany
Paul-Henri MATHA | Renault, France
Rainer NEUMANN | Varroc, Germany
John PEEK | Philips, Germany
Masaru SASAKI | Koito, Japan
Ingolf SCHNEIDER | Opel, Germany
Ralf SCHÄFER | RS Consultant, Germany

DRIVER ASSISTANCE SYSTEMS

Vincent ABADIE | PSA Peugeot Citroën, France
Didier AUBERT | IFSTTAR, France
Jean-Marc BLOSSEVILLE | IFSTTAR, France
Serge BOVERIE | Continental, Germany
Philippe GOUGEON | Valeo, France



ORGANIZING COMMITTEE

GENERAL CHAIR: Hector FRATTY | Driving Vision News, France

Vincent ABADIE | PSA Peugeot Citroën, France
Fabrice ALADENIZE | Renault, France
Jean-Marc BLOSSEVILLE | IFSTTAR, France
Renaud BONHOMME | Robert Bosch, France
Jean-Paul CHARRET | Consultant, France
Stéphane CHATEAU | Renault, France

Laurent EVRARD | Valeo, France
Kamilav FADEL | Automotive Lighting, Germany
Michael HAMM | Audi, Germany
Daniel PFRIMMER | SIA, France
Laurent SEREZAT | PSA Peugeot Citroën, France
Peter STOLK | Philips, Germany

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PROGRAMME

OCTOBER 14, 2014

08:00	ATTENDEES REGISTRATION - WELCOME BREAKFAST IN THE EXHIBITION
08:45	Keynote Laurens Van Den Acker Design Director Renault
	SET MAKER VIEWS ON ADB
09:00	LED-matrix systems – Revolution and evolution Michael Kleinkes Hella KGaA Hueck & Co.
09:20	LED matrix beam headlamps - Improvements in light performance Rainer Neumann Varroc Lighting Systems GmbH
09:40	Driver perception aspects of LED-matrix high beams Armin Austerschulte Automotive Lighting Reutlingen GmbH
10:00	High definition concept for next generation ADB modul Christian Schmidt Hella KGaA Hueck & Co.
10:20	General discussion
10:30	COFFEE BREAK IN THE EXHIBITION
	OEM VIEWS ON ADB
11:00	Multibeam module for LED glare free high beam Gunnar Koether Volkswagen AG
11:20	Predictive lighting functions for next generation matrix LED headlights Said Omerbegovic Karlsruhe Institute of Technology (in collaboration with Audi AG)
11:40	Side effects of glare-free high beam systems – A study about self glare by retro reflection on street signs Peter Schreier BMW Group
12:00	Key-factors for a large diffusion of glare free high beam? Annie Blondel Renault
12:20	General discussion
12:30	Round table: potential of ADB technology
12:50	LUNCH BREAK IN THE EXHIBITION
	LED TECHNOLOGIES
02:15	Field studies on the flickering and stroboscopic effects of LED-PWM-front lighting systems Dmitrij Polin Technical University Darmstadt
02:35	Development of a built-in LED module Kazuma Mochizuki Koito Manufacturing Co.,LTD.
02:55	Standardised LED light sources : A way to accelerate LED mainstream market adoption Dirk Vanderhaeghen Philips Technologie GmbH, Business Center Automotive
03:15	New high intensity LED light sources and their impact on front lighting setups Stefan Groetsch Osram Opto Semiconductors
03:35	General discussion
03:45	COFFEE BREAK IN THE EXHIBITION



LASER TECHNOLOGY	
04:15	Usage of laser light sources for marking light Dominik Schneider BMW AG
04:35	Laser based headlamp range extender: Hype or useful feature for the driver? Ernst-Olaf Rosenhahn Automotive Lighting Reutlingen GmbH
04:55	Dedicated phosphor developments for future laser based headlights Josef Schug Philips Technologie GmbH, Business Center Automotive
05:15	Laser spot: specifications study for improved safety and comfort Benoit Reiss Valeo Lighting Systems
05:35	Laser headlamp: Experiences in motor sports for series development Carsten Gut Audi AG
05:55	Laser scanning unit for light symbol projection Joscha Roth Leibniz University Hannover ; Institute for Dynamic and Vibration Research
06:15	General discussion
06:25	Round table: potential of laser technology
06:45	PRESENTATION OF THE NIGHT DRIVES



NIGHT DRIVES | PRESENTATIONS VISIT OF THE CHÂTEAU DE VERSAILLES

06.45 to 08:00 pm: dinner in the exhibition

08:00 pm: departure to Satory or visit of the Château de Versailles



NEW!

> Part of attendees will participate to night drives and presentations

Night drives

- 25 demo-cars available
- Demo-cars expected: Audi, BMW, Mercedes-Benz, PSA Peugeot Citroën, Renault, Automotive Lighting, CML, Continental, Hella, IFSTTAR, Osram, Valeo, Varroc...
- Attendees at night drives will have the possibility to evaluate a minimum of 5 demo-cars

Presentations

- ELS, Embedded Lighting Systems education
- SNECI
- AL lighting technologies
- Hella TBC
- Valeo TBC

> Part of attendees will participate to an Exclusive visit of the Château and its collections

Accompanied by qualified guides, discover the royal Grand and Small Apartments, the King's Bedchamber, the Queen's Bedchamber, the Royal Chapel, the Royal Opera, the temporary exhibitions and the Hall of Mirrors when the museum closes to the public.

> Part of attendees are free

(dining room will be open until 10:00pm)





PROGRAMME

OCTOBER 15, 2014

08:00	WELCOME BREAKFAST IN THE EXHIBITION
08:15	Keynote Gilles Le Borgne R&D Director PSA Peugeot Citroën
	HEAD LIGHTS
08:30	Driving simulation of camera driven head lighting systems Michel Surugue PSA Peugeot Citroën
08:50	Vehicle forward lighting: A new look at intelligent adaptive headlamps, safety and performance John D. Bullough Lighting Research Center, Rensselaer Polytechnic Institute
09:10	Self-adjusting headlamp technology - A holistic concept for the future Sören Schäfer HELLA KGaA Heuck & Co.
09:30	Curved lens lighting module Michel Hermitte Valeo Lighting Systems
09:50	General discussion
	SIGNAL LIGHTS
10:00	Optimization and advantages of adaptive rear light systems Christophe Le Dall PSA Peugeot Citroën
10:20	The OLED technology offers many new possibilities and advantages for exterior vehicle lighting systems Thomas Trojak & Nicolas Guebel BMW Group
10:40	Development of new styling lamp having a 3D pattern HyunSoo Lee Hyundai Mobis
11:00	General discussion
11:10	COFFEE BREAK IN THE EXHIBITION
	TOWARD AUTONOMOUS VEHICLE
11:40	Active safety solutions for mass market X. Groult or V. Picron Valeo
12:00	Which regulation for autonomous cars Karim Yahia PSA Peugeot Citroën
12:20	The path towards automated driving Karl-Heinz Glander TRW
12:40	Invisible sensor technology powers autonomous vehicles Alberto Broggi VisLab - University of Parme
13:00	General discussion
13:10	LUNCH BREAK IN THE EXHIBITION

NEW ADAS TECHNOLOGIES AND TEST PLATFORMES	
02:40	XbyWire park assistance for electric city cars Mariano Sans Continental Automotive France
03:00	New 3D immersive platform dedicated to prototyping, test, evaluation and acceptability of eco-driving applications Dominique Gruyer IFSTTAR
03:20	A continuous approach to situation analysis and trajectory planning in autonomous driving Dieter Willersinn Fraunhofer IOSB
03:40	Multi-agent systems: A suitable framework for developing V2V and V2I strategies Ramachandra Kota Electronics and Computer Science, University of Southampton
04:00	Reading the human being in the driver seat Kars-Michiel H. Lenssen Philips Research
04:20	General discussion
04:30	END OF THE CONGRESS

Only speakers' names are given.

The organisers reserve the right to make changes to the programme should they be deemed necessary.

VERSAILLES, BETWEEN TRADITION & MODERNITY





GENERAL INFORMATION

VISION
2014



ACCESS

Palais des congrès de Versailles

10 rue de la Chancellerie
78000 Versailles
+33 (0)1 40 68 22 22

> BY CAR FROM «PARIS - PORTE D'AUTEUIL»

- Head west onto A13
- Take exit 5 toward «Versailles-Centre/Versailles-Château/Vaucresson/La Celle-Saint-Cloud»
- Follow signs for «D182/Versailles-Centre/Versailles-Château» and merge onto «Boulevard de Jardy/D182» - Continue onto Avenue des États Unis/D185
- Turn left onto Avenue de l'Europe - Continue onto Avenue du Général de Gaulle
- Turn right onto Avenue de Sceaux - Continue onto Rue de la Chancellerie

You can park in front of the Palais des Congrès de Versailles on the Place d'Armes

> BY TRAIN STATION «VERSAILLES - RIVE GAUCHE»

- From Roissy Airport, take RER B line towards Paris and stop at "Saint-Michel Notre-Dame".
- Then, take RER C line towards Versailles Rive-Gauche. Stop at «Versailles Rive Gauche train station» (terminus)

> BY TRAIN STATION «VERSAILLES - RIVE DROITE»

- From Saint-Lazare Station (Paris), take a SNCF train to "Versailles Rive-Droite" (terminus)

HOTEL ACCOMMODATION

We have selected a list of the most convenient hotels situated near the "Palais des Congrès de Versailles". Delegates are encouraged to make their own hotel reservations **early**, directly with the hotels of their choice.

Get a special rate with our partner

<http://www.accorhotels.com/fr/booking/hotels-list.shtml> • Code: VISION



HOTELS	CATEGORIES	RATE (incl. VAT) + breakfast included		RATE (exc. VAT) + breakfast included	
		SINGLE	DOUBLE/TWINS	SINGLE	DOUBLE/TWINS
Pullman Versailles Château	4*	215 €	240,3 €	195,45 €	218,45 €
Mercure Versailles Château	4*	164,5 €	180 €	149,55 €	163,64 €
Novotel Château de Versailles	4*	164,5 €	180 €	149,55 €	163,64 €
Ibis Versailles Château	3*	115 €	124,5 €	105,55 €	113,18 €

OSRAM LED
CREATING TOMORROW



Leading in groundbreaking technologies:
OSRAM OLED Demonstrator with segmented
OLED panels (as presented at ISAL 2013)



1-133 OSRAM GmbH, CSMK MK MCOM, 80807 Munich

Light is motion

As a global innovation leader, OSRAM offers smart lighting solutions in all latest technologies. From flexible and energy efficient HID and LED solutions up to powerful Laser-based and OLED concepts for the future – OSRAM is the one-stop partner for automotive lighting solutions.

Light is OSRAM



EXHIBITION

PHILIPS

Philips Automotive, a business group of Royal Philips, is one of the world's leading suppliers of lamps and LED's to the automotive industry and aftermarket. Our technological innovations have been on the cutting-edge of automotive lighting for a century and have led to the advancement and modernization of automotive lighting as we know it today. Philips Automotive is dedicated to producing best-in-class products and services in the Original Equipment Manufacturer market as well as in aftermarket. Our products are manufactured from high-quality materials and tested to the highest specifications to maximize the safety and driving comfort of our customers.



Embedded Success



COMING
EVENT



» CESA 3.0

Congress on Automotive
Electronic Systems

International Conference & Exhibition

December 3 & 4, 2014

Paris | Beffroi de Montrouge, France

» 8 SESSIONS

Round-tables & technical presentations in parallel

- › International relations - Worldwide markets
- › Technical progress towards automation of driving - ADAS
- › New usage of cars with more automation
- › The connected car and acceptance of users
- › CO₂ reduction, hybridization, regulation
- › Human factors in modern cars - psychology, physiology, HMI, ...
- › Standards, tests and validation
- › Electronic components and materials

CHAIRMAN: JOCHEN LANGHEIM – STMICROELECTRONICS

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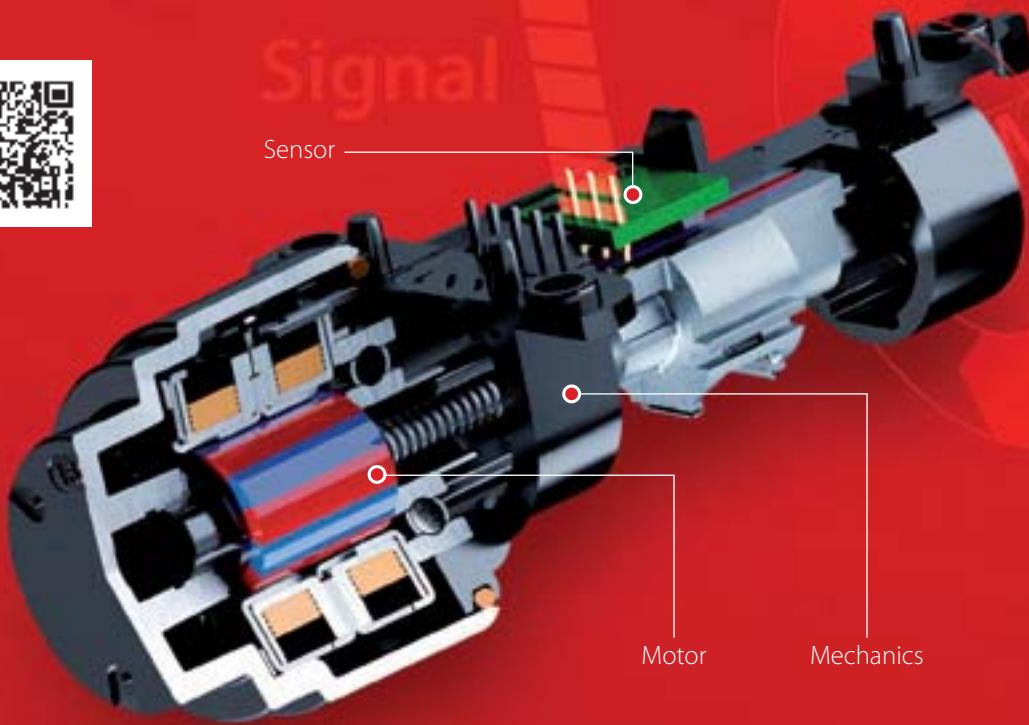
With the support of:





SONCEBOZ
from mind to motion

Your partner for **mechatronic drive systems** and **electric motors**



SONCEBOZ, specialized in micro-mechatronic drive systems presents its new range of actuators allowing fast, precise and reliable movement even in extreme harsh environment.



Xenon Adaptive
Driving Beam



Smart Dynamic
Levelling



Stepper
Levelling



LED Adaptive
Driving Beam



Smart Linear
Stepper