16th International Conference

AUTOMOTIVE LIGHTING 2016

The international conference with a dedicated focus on lighting design!

27 – 29 January 2016 | Hilton Hotel Düsseldorf, Germany

Lighting as an element of styling – Lighting in the context of Autonomous Driving - Innovative light source technologies for interior and exterior automotive lighting

Learn from these experts among others:

- Paul-Henri Matha, Lighting Expert, Renault S.A.S., France
- Michael Koherr, Research Engineer – Lighting Systems, Ford-Werke GmbH, Germany
- Whilk GONÇALVES, Ph. D., Head of Innovation in Lighting and Signalisation, PSA Peugeot Citroën, France
- Dr. Ana Bižal, BSMechEng, Optic Development Engineer, Hella Interior Lighting Systems GmbH, Germany
- Tomas Gloss, R&D Signal Lighting Team Leader, Varroc Lighting Systems, s.r.o., Czech Republic
- Patrick Graas, Innovation & International Development Director for Special Products, Valeo Lighting Systems, Belgium

Meet experts from following companies:

Sponsor:
What do last year’s participants say:

“Good networking, even for related industries”
Jean-Marie Bourgeois-Jacquet, Interior Lighting and Electronics Advanced Engineer, Visteon Systems Intérieurs SAS

“The conference was very interesting and good for networking. I liked discussion with several experts in various fields.”
Park Jung-Hyang, General Manager, SL Corporation

“Very good experience to be repeated in future”
Riccardo Pogliani, Electrical Project Leader, Yamaha Research and Development Europe s.r.l.

“Congratulations”
Eng. Luca Gioanola, Ph.D., Research & Development Electronic Department Responsible, OLSA SpA

The top ten reasons to attend this conference:

1. Discover the possibility of lighting as a new aesthetic language to convey the brand of the car
2. Discuss automotive lighting in the context of autonomous driving
3. Find out about innovative lighting-technology such as laser based function
4. See how to improve OLED technology for automotive use and integration
5. Discover latest developments of automotive interior lighting and its possibilities to communicate with the driver
6. Learn innovative approaches to meet the challenges of glare-free high beam pixel light
7. Discover latest achievements of next-generation LED headlight concepts
8. Get in touch with some of the most important industry professionals via our interactive sessions
9. Understand laser scanning unit for vehicle lighting and get to know about the evaluation of system efficiency
10. Gain insight into Renault strategy of rear lighting signature and implementation

Interactive Sessions | Descriptions

Who is who
Discover who else is participating in the conference. The matchmaking picture wall will help you identify who you want to meet at the conference in cooperation with FUJiFILM

Speed networking and business card exchange
Get connected to the other delegates in short one to one meetings. Share your professional background, discuss your business issues briefly and find out who you have to catch up with during the conference or afterwards. Don’t forget your business cards!

Open mic stage
Address your current challenges or questions to the audience and discuss collectively possible approaches and solutions.

Evening get-together
IQPC invites you to a casual evening reception. Join us for dinner and let the first conference day come to an end over food and drinks. This gives you plenty of time to network in a pleasant atmosphere and to discuss the day’s results.
CONFERENCE DAY ONE | Wednesday, 27 January 2016

08:00 Registration & welcome coffee

Who is who
Discover who else is participating in the conference. The matchmaking picture wall will help you identify who you want to meet at the conference. In cooperation with FUJIFILM

08:55 Welcome & opening address of the chairman
Paul-Henri Matha, Lighting Expert, Renault S.A.S., France

Future aspects of intelligent automotive lighting

09:00 Intelligent automotive lighting for Jaguar Land Rover
- Latest accomplishments of intelligent automotive lighting
- Technological requirements and potential solutions
- Styling aspects and possibilities
Shammika Wickramasinghe, Technical Specialist – Exterior Lighting, Jaguar Land Rover, United Kingdom

09:40 Speed networking and business card exchange – Part one
The perfect opportunity to speak directly with your peers and network effectively. Maximise your time at this event by participating in this interactive networking session. Don’t forget your business cards.

10:20 Refreshment break & networking

10:50 Intelligent lighting systems to enhance advanced driver assistance systems
- Enhanced active safety provided by lighting systems
- What is safe driving with intelligent lighting systems
- Where to guide the beam?
- Sensors and signals
Michael Koherr, Research Engineer – Lighting Systems, Ford-Werke GmbH, Germany

11:30 New concepts for interior lighting
- Gesture control
- Moving and advanced light features
- OLED design
Dr. Ana Bûtai, BSMechEng, Optic Development Engineer, Hella Interior Lighting Systems GmbH, Germany

12:10 Networking luncheon

Automotive lighting as an element of style

13:40 Renault strategy of rear lighting signature implementation
- History and genesis of light signature
- Styling concept and variation on this thematic for different vehicles
- Optical concept
- Design and process challenges
François Bedu, Team Leader for Lighting Simulation & Testing, Renault S.A.S., France

14:20 The vision of Automotive Driver Assistsances and Self-Driving Cars by OPTIS
- Why physics-based simulation to make ADAS/AD more reliable
- Design Optical Sensors
- ADAS & AD system design with physics-based simulation
- Evaluate human factors using physics-based simulation
Gilles Gallee, Solutions Director, OPTIS, France

15:00 Optical concepts with OLED technology
- Advantages, challenges and motivation
- Different OLED types – different design possibilities
- Does it make sense to combine LED and OLED technology?
Tomas Gloss, R&D Signal Lighting Team Leader, Varroc Lighting Systems, s.r.o., Czech Republic

15:40 Afternoon coffee break & networking opportunity

16:10 Opportunities for automotive lighting by OLED technology
- Potentials of OLED as a style and design feature
- Flexible OLED – status, obstacles and production technologies
- Integration technologies and application outlook
Dr. Michael Törker
Senior Scientist of Division Flexible Organic Electronics, Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, Germany

16:50 Open mic stage – ‘The stage is yours!’
Impact of automated driving on automotive lighting design
- How will automotive lighting design be influenced in terms of automated driving?
- What is seen as the “perfect illumination” for automated driving vehicles?
- What challenges and technical requirements will be faced by OEMs and lighting manufacturers to implement the “perfect illumination”?

17:00 Closing remarks of Paul-Henri Matha & end of conference day one

18:30 Evening get-together
IQPC invites you to a casual evening reception. Join us for dinner and let the first conference day come to an end over food and drinks. This gives you plenty of time to network in a pleasant atmosphere and to discuss the day’s results.

Looking for auto industry intelligence?
Join Automotive IQ – it’s free.
www.automotive-iq.com
08:30 Registration & welcome coffee

08:55 Welcome & opening address of
Paul-Henri Matha,
Lighting Expert,
Renault S.A.S., France

New concepts of automotive lighting

09:00 Efficient usage of marking light functions and the improvement of pedestrians safety
• Marking light
• ADAS
• Pedestrian safety
• Optimization and control
Whilk GONÇALVES, Ph. D.,
Head of Innovation in Lighting and Signalisation,
PSA Peugeot Citroën, France

09:40 Speed networking and business card exchange – Part two
The perfect opportunity to speak directly with your peers and network effectively. Maximise your time at this event by participating in this interactive networking session.
Don’t forget your business cards.

10:20 Refreshment break & networking

10:50 Laser scanning unit for vehicle lighting
• Use of lasers in projection modules
• Optical concepts for multi-color beam combination
• Prototype setup and test results
• Evaluation of system efficiency
Gerolf Kloppenburg,
Research Group Leader Optomechatronics,
Leibniz University Hannover, Germany

11:30 Open mic stage – ‘The stage is yours!’
Trends and possibilities of automotive lighting design
• Requirements of materials for advance automotive lighting design
• Automotive lighting design – how to approach to challenge of implementation
• What is the perfect lighting design? What does it convey and where are the implications?
• Conceptual solutions
With selected speakers of the day

12:10 Networking luncheon

13:40 Interior lighting, part of the INTUITIVE DRIVING experience
• Interior lighting is a cornerstone of the move to automated and autonomous cars
• IL enhances the perceived quality of cockpit materials and helps brand differentiation
• IL participates to well being, driver care, driver assistance and car information
• Some of the most recent Valeo technologies, as well as major technological road maps, will be highlighted during the lecture
Patrick Graas,
Innovation & International Development Director for Special Products,
Valeo Lighting Systems, Belgium

14:20 The trend of automotive lighting and introduction of MOBIS lighting technologies
• Trend of automotive lighting
• MOBIS LED module line up
• New technologies
• Next step
Taewon Lee,
Global Business Planning Team Manager,
MOBIS, South Korea

15:00 Closing remarks of Paul-Henri Matha

15:10 Farewell coffee and end of conference day two

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“You can succeed on your own terms but you can’t succeed alone”

Join our interactive workshops and benefit from in-depth sessions, hosted by selected industry experts. In our unique workshops, industry experts will share their expertise with a limited group of peers. Our workshop leaders provide in-depth knowledge and will actively foster open exchange and discussion to help you face challenges, discover solutions, and make decisions crucial to business excellence.

8:30 Registration & welcome coffee

10:30 Refreshment break & networking

A: 09:00 – 12:00
OLED lighting technology – Status and trends

Organic light-emitting diodes (OLEDs) are getting more and more into the focus of industrial product development. The technology of organic electroluminescence is on the cusp of commercialization. OLED displays already entered a mass market. Leading market research institutions are expecting a billion Euro market for thin lighting products, which are operating extremely energy-saving. OLEDs as the only real area light source on glass or flexible foils are opening up entirely new possibilities of design. The workshop will give an introduction in OLED technology, the integration in rigid and flexible substrates and an overview on possible components and applications with a special focus on automotive applications.

Dr. Michael Törker,
Senior Scientist of Division Flexible Organic Electronics,
Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, Germany

12:00 Networking luncheon

14:30 Refreshment break & networking

B: 13:00 – 16:00
Efficient usage of laser diodes for automotive lighting

Laser diodes are being seen by the automotive industry as a potential component to create new attractive lamps, extremely compact and thin, with new possibilities for the style and design. However, the usage of such components requires creative solutions to deal with high power lasers, safety, electronic drivers, and extremely high costs.

The goal of this workshop is to work out different solutions to overcome those limitations and to derive the roadmap of future developments.

Whilk GONÇALVES, Ph. D.,
Head of Innovation in Lighting and Signalisation,
PSA Peugeot Citroën, France

16:00 End of workshop day
Welcome this year’s expert speakers:

Michael Koher,  
Research Engineer – Lighting Systems,  
Ford-Werke GmbH, Germany

Paul-Henri Matha,  
Lighting Expert,  
Renault S.A.S., France

Taewon Lee,  
Global Business Planning Team Manager,  
MOBIS, South Korea

François Bedu,  
Team Leader for Lighting Simulation & Testing,  
Renault S.A.S., France

Dr. Ana Bžal, BSMedEng,  
Optic Development Engineer,  
Hella Interior Lighting Systems GmbH, Germany

Whilk GONÇALVES, Ph. D.,  
Head of Innovation in Lighting and Signalisation,  
PSA Peugeot Citroën, France

Shammika Wickramasinghe,  
Technical Specialist – Exterior Lighting,  
Jaguar Land Rover, United Kingdom

Patrick Graas,  
Innovation & International Development Director for Special Products,  
Valeo Lighting Systems, Belgium

Gerolf Kloppenburg,  
Research Group Leader Optomechatronics,  
Leibniz University Hannover, Germany

Tomas Gloss,  
R&D Signal Lighting Team Leader,  
Varroc Lighting Systems, s.r.o., Czech Republic

Dr. Michael Törker,  
Senior Scientist of Division Flexible Organic Electronics,  
Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, Germany

Sponsor:

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