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INTELLIGENT TRANSPORT LIGHTING 2010

Innovative LED solutions for interior applications

24th – 26th August 2010 | Mövenpick Hotel Hamburg



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Leading companies and institutions will present case studies and solutions for innovative lighting systems:

- **Airbus Operations**
- **OSRAM GmbH**
- **Philips Lighting**
- **Delvis GmbH**
- **Novaled AG**
- **Marl International Ltd.**
- **STC Applied Lighting Technology**
- **OEC AG**
- **Bartenbach GmbH**
- **iGuzzini illuminazione Germany GmbH**
- **Instrument Systems GmbH**
- **Lumitec AG**
- **OUT e.V.**
- **Technical University Ilmenau**
- **Diehl Aerospace GmbH**
- **Hella Interior Lighting Systems**

- Hear about the latest strategies to increase your **LED system's efficiency** and **lifetime**
- Understand how to overcome the challenges of **thermal management**, **ageing** and **colour behaviour**
- Get inspired about how to bridge the gap between **design** and **functionality** to optimise customer satisfaction
- Enhance **passenger well-being** by employing tailored **ambient lighting**
- Gain insight to the potentials of **future technologies** like **OLED** and **EL lighting systems** for the cabin and cockpit interior



Conference advisor:

Prof. Dr. Alexander von Hoffmann, Director,
Steinbeis Transfer Center (STC) Applied Lighting Technology, Nuremberg

Highlight speakers:



Carsten Kohlmeier-Beckmann,
Manager Lighting Systems
New Development,
Airbus Operations



Adrian HR Rawlinson,
Managing Director,
Marl International Limited



Dr. Ralph Paetzold,
Manager Productline Strategy,
Diehl Aerospace GmbH



Andreas Scholtz,
Standardisation Officer,
OSRAM GmbH

Interactive Workshop Day | Tuesday, 24th August 2010

- B:** Future Technologies – Applications of EL - lighting systems in the cabin interior
- A:** Applied thermal management for LED
- D:** Site Visit: Experience Airbus production live! Enjoy a plant tour at Airbus in Hamburg.

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International conference

INTELLIGENT TRANSPORT LIGHTING 2010

Innovative LED solutions for interior applications

Dear colleague,

The techniques by which **light** is produced, displayed and distributed is growing more and more **sophisticated**. Much of this **rapid development** is based on the advancement of **LED technology**, which is progressively entering the realm of **interior lighting** in the transport industry. This technological development brings about **countless design possibilities** and new lighting characteristics that give way to an **unknown level of added functionality** and **intelligence** of the lighting system.

Experts in development, design and construction across the transport industry including **automotive, avionic, railway and marine applications** share many of the challenges as well as the excitement regarding this revolution in lighting technology. For these reasons, IQPC is dedicating this flagship event to interior lighting across the transport industry.

Gain insight to the latest developments and innovations on LED lighting at IQPC's

International conference

INTELLIGENT TRANSPORT LIGHTING

Innovative LED solutions for interior applications

24th - 26th August 2010, Mövenpick Hotel Hamburg, Germany

Take this opportunity to listen to international case studies and discuss technological, constructive and aesthetic challenges and innovations with experts from **Airbus, Philips, Osram, Marl, Diehl Aerospace, Hella** and many more.

- Ensure **LED efficiency** and sound **thermal management**
- Overcome **constructive challenges** of LED lighting systems
- Learn about **innovative lighting designs**

We are looking forward to meeting you in Hamburg.

Kind regards



Katrin Bender
Project Manager

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Who will you meet?

Industry:

International OEMs from the aviation, railway, marine and automotive industries, cabin and cockpit developers, lighting system manufacturers and suppliers of LED systems.

Job function:

Global heads, directors, project managers and engineers from the following departments:

- Cabin Design
- Advanced Interior design
- Interior Lighting
- OLED and LED development
- Research and advanced engineering
- Predevelopment

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INTELLIGENT TRANSPORT LIGHTING 2010

International conference

Interactive Workshop Day | Tuesday, 24th August 2010

Workshop B
10:00 – 13:00

Future Technologies – Applications of EL-lighting systems in the cabin interior

Developments in **optical technology** have put lighting at the **forefront of innovation** within the transport industry. While the current focus seems to be on LED, there are other lighting technologies that have **immense future potential**. Reliable and customisable **electroluminescent systems** allow the realisation of **adaptable laminar illumination** for instrument panels, aircraft interior lighting, emergency systems etc. The technology is of particular interest when it comes to **ambient lighting solutions** for enhanced cabin design. Participate in this workshop to gain an insight into alternative lighting solutions.

- Introduction to the **functionality** of electroluminescent lights
- **Innovative design concepts** based on electroluminescent lights
- The benefits of laminar versus punctual light sources
- Integration of **illumination devises** in plastic parts
- **Case studies** and examples of applications in the cabin and cockpit interior



Emil Enz, CEO, **Lumitec AG**

Workshop A
14:00 – 17:00

Applied thermal management for LED

LED technology is starting to replace classic lighting faster than expected. But one major boundary still exists – **thermal impacts**. Heat development within the system negatively influences **LED lifetime, lumen output** and **ageing** as well as **colour stability** and **quality**. Hence **sound thermal management** of the LED lighting system is a crucial component in the development of LED based lighting systems.

A case study led introduction will open up the topic for debate and give the opportunity to discuss the challenges of thermal management. Measurement results from 20 years experience working with LED will help to answer questions in respect to thermal management of your LED system or experiments.

- Basics of **heat dissipation** in an LED
- Overview of different concepts for **thermal management**
- **Case Study**: “Berliner Gasaufsatzleuchte” (historical street light)
- Impact of heat on **LED performance**
- **PCB** and **materials** for heat dissipation



Dr. Adrian Mahlkow, Group LED Physicist, **OUT e.V.**

Workshop D
14:00 – 18:15

Site Visit: Experience Airbus production live! Enjoy a plant tour at Airbus in Hamburg.

14:00 Meet at Mövenpick Hotel lobby
14:45 Check-in Airbus (ID required)
15:00 Welcome at the factory
Introduction and tour of the visitor pavilion
Plant tour with the final assembly line of A318 / A319 / A321
Special: Major component assembly of the A380!
17:30 Transfer to the hotel
18:15 Planned arrival at the Mövenpick Hotel

Airbus is one of the world's leading aircraft manufacturers, and it consistently captures approximately half or more of all orders for airliners with more than 100 seats. Manufacturing, production and sub-assembly of parts for Airbus aircraft are distributed around 12 sites in Europe, with final assembly in Toulouse and Hamburg. As well as being the headquarter for the Airbus Centres of Excellence, Hamburg is home for the final assembly lines for the majority of A320 Family aircraft and major component assembly of the A380. The plant tour offers insight into Airbus aircraft production.



Please note, there is limited availability. So book quickly to ensure your participation!

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INTELLIGENT TRANSPORT LIGHTING 2010

International conference

Conference Day One | Wednesday, 25th August 2010

08:45 Registration & Coffee

09:15 Chairman's welcome & opening address

Prof. Dr. Alexander von Hoffmann,
Director,
Steinbeis Transfer Center (STC) Applied Lighting Technology

Market overview

09:30 **Market Developments for LED and OLED Lighting**

- LEDs as the preferred solution for lighting applications
- Marketing of emerging lighting technologies
- Manufacturing cost reduction
- Performance improvement



Thomas P. Pearsall,
Secretary General,
European Photonics Industry Consortium

LED Technology – technical challenges, innovative solutions

10:10 **Maximising LED lifetime and efficiency**

- Impacts of real-life conditions: vibration and temperature
- How can the surrounding system help extend the LED lifetime?
- How to increase efficiency with intelligent system design

Dietmar Czekay,
Head of Sales,
SBf Spezialleuchten Wurzen GmbH

10:50 **Thermal management of LED**

- Basics of heat dissipation in a LED
- Overview over different concepts for thermal management
- Impact of heat on LED performance
- PCB and materials for heat dissipation
- Thermal management requirements



Dr. Adrian Mahlkow,
Group LED Physicist,
OUT e.V.

11:30 Refreshment break & networking

12:00 **Case study railway: Sky is the Limit for LED Lighting**

- Background and current status about LED technology and the case study
- Overview of the solid state lighting system developed with Porterbrook for trial with London Midland
- Features and benefits compared to conventional lighting systems



Adrian HR Rawlinson,
Managing Director,
Marl International Limited

12:40 **Optical Simulation of LED Systems**

- Light Source Modelling
- Colour Simulation of LED arrangements
- Examples of LED system simulation



Prof. Dr. Alexander von Hoffmann,
Director,
Steinbeis Transfer Center (STC) Applied Lighting Technology

13:20 Networking luncheon

Measurement and standardisation of LEDs

15:00 **Standardization of LED products**

- Principles and advantages of LED standardization
- Current stages of International and European LED standardization projects
- Top priority topics in LED standardization



Andreas Scholtz,
Standardization Officer,
OSRAM GmbH

15:40 **White Light LEDs: The challenge of measuring the light of the 21st century**

- Optical properties of white light LEDs
- Measurement technology



Peter Läßle,
Sales Manager,
Instrument Systems GmbH

16:20 Refreshment break & networking

OLEDs – a future technology on the rise

16:50 **OLED technology and applications in the transport industry**

- OLEDs – a short technology roadmap
- OLEDs in lighting & signage applications
- Potential of the OLED technology in vehicles



Andreas Haldi,
Customer Project Manager,
Novaled AG

17:30 **OLED technology – state-of-the-art applications for vehicle interiors**

- Potentials for OLED technology in vehicles
- Restrictions of the OLED technology
- Display and lighting applications



Mario Wanninger,
Head of Engineering,
Delvis GmbH

18:10 Closing remarks of the chairman

18:20 End of conference day one



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INTELLIGENT TRANSPORT LIGHTING 2010

International conference

Conference Day Two | Thursday, 26th August 2010

08:30 Registration & Coffee

09:00 Chairman's welcome & opening address

Wilfried Pohl,
General Manager,
Bartenbach GmbH

The impact and description of light

09:15 **Effect of light colour on human physiology**

- The eye as part of the brain – a light processor's construction
- How does light effect human perception and well being?
- Results from latest scientific studies
- Examples of light applications to impact the human body



Prof. Dr. Christoph Schierz,
Head of Faculty Lighting Engineering,
Technical University Ilmenau

09:55 **Communication of colour rendering properties of light sources**

- CIE Colour Rendering Index – what does it tell the customer?
- Challenges in communicating colour rendering properties of light sources
- Innovative ways to qualitatively describe colour rendering properties of light sources to end-users



Peter van der Burgt,
Application Engineer Light-Lab GOAL,
Philips Lighting

10:35 **Coloured light applications in transportation**

- Challenges in creating defined light colours
- Fine tuning of RGB LED arrays
- Future prospects in interior lighting design



Markus Reichmann,
Head of Product Management Department,
Hella Interior Lighting Systems

11:05 Refreshment break & networking

Lighting in practice

11:45 **New concepts for transport lighting**

- Daylight solutions for cruise liners, airplanes, trains
- Research results from light impact study of Bartenbach Light Lab
- Requirements and solutions for cabin and automotive interior lighting



Wilfried Pohl,
General Manager,
Bartenbach GmbH

12:25 **LED in Airbus – Experience and Challenges**

- Airbus Cabin Lighting – Technologies
- The Filament-free Aircraft
- Qualification – looking for a universal genius



Carsten Kohlmeier-Beckmann,
Manager Lighting Systems New Development,
Airbus Operations

13:05 Networking luncheon

14:30 **Realising a high-quality lighting system for Aircraft**

- Interplay between interior and lighting system
- Optical and electrical performance challenges



Dr. Ralph Paetzold,
Manager Productline Strategy,
Diehl Aerospace GmbH

15:10 **Tailored optics for innovative illumination concepts**

- Needs and opportunities of tailored optics for LED employment
- The key role of optical illumination design for utilising LED advantages
- Selected case studies for tailored optics



Dr. Stephan Malkmus,
Optical Designer,
OEC AG

15:50 Refreshment break & networking

Cross industry insight

16:20 **LED technology for innovative street lighting luminaires**

- From design to realisation: challenges and benefits of LED street lighting
- Energy saving and components durability (LEDs, driver, etc.)
- Intelligent LED drivers for adaptable luminosity



Elmar Kaiser,
Head of Technics and Project Management,
iGuzzini illuminazione Germany GmbH

17:00 Closing remarks of the chairman

17:10 End of conference

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