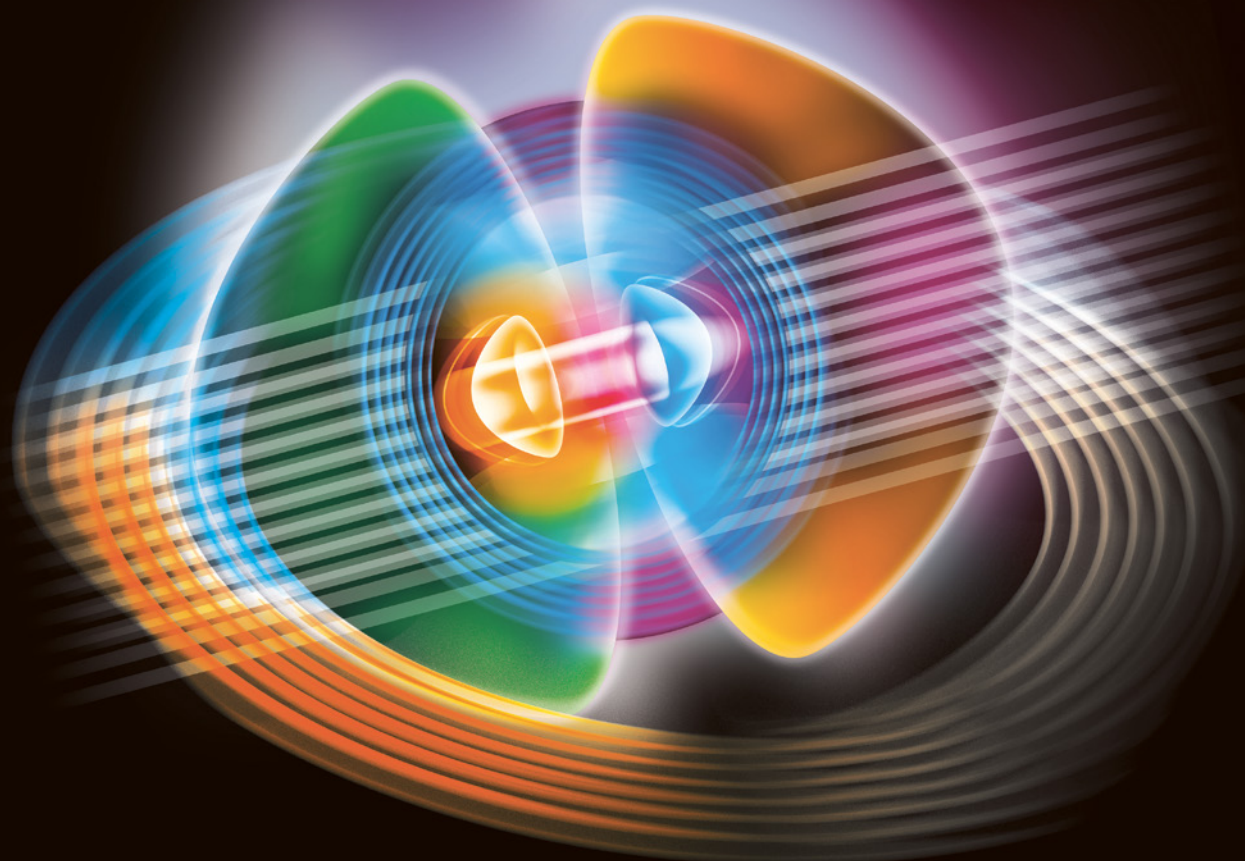


LpS 2016
LED SYMPOSIUM
professional +EXPO

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6TH LED professional Symposium +Expo

Smart Technologies for Lighting Innovations

Sept 20th -22nd 2016 | Bregenz | Austria

www.lps2016.com





LED professional Symposium +Expo 2016

The LpS 2016 is Europe's foremost solid-state lighting technology event for experts in industry, entrepreneurs, engineers, technicians and scientific researchers in the fields of general, industrial and architectural lighting.

The event covers the building blocks for smart lighting designs of luminaires, lamps, controls, modules and components. It focuses on trends and technologies for future lighting solutions incorporating human centric lighting, Internet of Things, connected lighting and smart controls. The combination of a three-day multi-disciplinary symposium, workshops, international exhibition and networking possibilities is a perfect platform to explore sophisticated semiconductor lighting in the fields of general, automotive and special lighting applications.



International Conference on Lighting Trends & Technologies

- Latest insights from research and industry leaders
- Nobel prize laureate Prof. Shuji Nakamura
- 100+ lectures in 4 conference tracks
- 1500+ professionals from more than 50 countries

International Exhibition for Lighting Technologies & Applications

- State-of-the art showcases for R&D and design engineers
- Cutting-edge products, equipment and services
- Highly-focused B2B sourcing and collaboration platform
- 100+ international exhibitors including the top leaders

Lectures from Renowned Organizations

EU Commission, LightingEurope, Zhaga, EPIC, IBM, NXP, Infineon, Silvair, WadeLux, Bartenbach, GE, Zumtobel, UniBright, Glamox, Nichia, Lumileds, Cree, Osram, Fraunhofer, Yole, Holst Center, Joanneum, CSEM

Interactive Workshops & Forums

- Tunable lighting workshop by HI-LED
- Design-meets-technology forum by APIL
- Horticultural lighting workshop by EPIC
- ISA and Photonics cluster forums
- IoT & AI workshop by Jakajima

Innovation Platforms

- Technical innovations presented by start-up innovators
- Light-Art-Designs by lighting designers and students
- Product launches presented by industry leaders

Social Networking Opportunities

- Opening ceremony and expo reception
- Get-Together boat cruise on Lake Constance
- International press conference with more than 25 media partners

Workshops

Saal Bodensee | SEPT 21, 14.00-18.00

Hi-LED Intelligent Lighting Workshop

Spectrally and tunable LED and OLED lighting - This workshop, organized by the EU FP7 HI-LED project, aims to attract the participation of lighting professionals, photonics researchers, lighting manufacturers, end users from European museums, horticulture growers, health care centers, ICT research organizations as well as analysts and investors interested in smart lighting sector.

- Human centric lighting
- Horticultural lighting
- Art work and museum lighting

Saal Panorama | SEPT 22, 08.30-14.00

Internet of Things (IoT) & Artificial Intelligence Workshop

With Jakajima, organizer of the annual IoT event in Eindhoven and matchmaker for innovators.

- Human centric lighting
- Horticultural lighting
- Art work and museum lighting

Saal Bodensee | SEPT 22, 08.30-14.00

EPIC Horticultural Lighting Workshop

EPIC is the industry association that promotes the sustainable development of organisations working in the field of photonics in Europe.

- Market and technology overview of horticultural lighting
- Latest research, case studies and key drivers of horticultural lighting
- Practical experiences and technology outlook



Forums

Saal Bodensee | SEPT 20, 14.00-18.30

ISA Lighting Forum

Forum with the leading Chinese based SSL organization. ISA members representing 70% of the global SSL industry output.

- ISA industry report 2016 - emerging markets and their developments
- Innovative application of LEDs in different fields and beyond lighting
- Introduction of ISA and its activities
- SSL development in ASIA and the cooperation model
- LEDs insure & LED performance insurance

Saal Bodensee | SEPT 21, 08.30-13.00

Design meets Technology Forum

Design forum with APIL, the leading association of Italian independent lighting designers.

- Understanding design and technology requirements
- Key and common design criteria in applications
- Practical examples, cornerstones and lessons learned

Saal Panorama | SEPT 20, 14:00-18.30

Photonics Cluster Forum

Photonics Clusters presenting and discussing new approaches in light sources.

- Overview of alternative light sources
- Technologies and market potentials
- Laser light sources



Social & Special Events

Opening Grosser Saal | SEPT 20, 10.00-10.30

Scientific Award Ceremony Grosser Saal | SEPT 20, 10.00-10.30

Keynotes Grosser Saal | SEPT 20, 10.30-12.00

Exhibition Reception Werkstattbühne | SEPT 20, 12.00-12.30

Press-Conference Parkstudio | SEPT 20, 18.30-19.00

Get-Together Boat Cruise Lake Constance | SEPT 21, 18.30-23.00



LOS 2016 - PROGRAM

EVENT OVERVIEW

DAY 1 STRATEGY

SEPT. 20TH
TUESDAY

Opening

10.00 - 10.30 **Opening & Scientific Award Ceremony** | Grosser Saal

10.30 - 12.00 **Keynotes** | Grosser Saal

12.00 - 13.00 **Exhibition Reception / Opening** | Werkstattbühne & Seitenbühne

Parallel Sessions

14.00 - 18.30 **Lighting Trends** | Seestudio

14.00 - 18.30 **Lighting Intelligence** | Seefoyer

14.00 - 18.30 **Lighting Design** | Propter Homines

Forums

14.00 - 18.30 **ISA Forum** | Saal Bodensee

14.00 - 18.30 **Photonics Cluster Forum** | Saal Panorama

Evening Event

18.30 - 19.00 **Press Conference** | Parkstudio

DAY 2 TECHNOLOGY & DESIGN

SEPT. 21ST
WEDNESDAY

Parallel Sessions

09.00 - 18.00 **Light Sources** | Seestudio

08.30 - 18.00 **Smart Lighting Connectivity** | Seefoyer

08.30 - 18.00 **Engeneering** | Propter Homines

Forum

08.30 - 13.00 **Design meets Technology Forum** | Saal Bodensee

Workshop

14.00 - 18.00 **Workshop Hi-LED** | Saal Bodensee

Evening Event

18.30 - 23.00 **Get-Together Evening** | Boat trip on Lake Constance

DAY 3 SOLUTION

SEPT. 22ND
THURSDAY

Parallel Sessions

09.00 - 14.00 **System Quality** | Seestudio

08.30 - 13.00 **System Qualification** | Seefoyer

08.30 - 14.00 **Applications** | Propter Homines

Workshops

08.30 - 14.00 **Workshop EPIC** | Saal Bodensee

08.30 - 14.00 **IoT Workshop** | Saal Panorama

STRATEGY DAY SEPT TUE 20TH

Time	Lighting Trends	Lighting Intelligence	Lighting Design	Forums
10.00	Grosser Saal Opening & Scientific Award Ceremony			
10.30	Keynote Grosser Saal Solid-State Lighting in the Framework of Horizon 2020 <i>Dr. Ronan Burgess European Commission, Belgium</i>			
11.00	Keynote Grosser Saal LightingEurope Roadmap 2025: The Smart Lighting Strategy <i>Diederik de Stoppelaar LightingEurope, The Netherlands</i>			
11.30	Keynote Grosser Saal LED and Laser-Diode <i>Prof. Shuji Nakamura University of California, USA</i>			
12.00	Werkstattbühne & Seitenbühne Expo Reception / Opening			
13.00	Seitenbühne Lunch			
14.00	Seestudio Overview of the Global LED Market and Key Technologies <i>Rahul Bammi Lumileds, USA</i>	Seefoyer IoT Lighting Businesses and Technologies for Cloud Service Providers <i>Niklaus Waser IBM, IoT Watson, Germany</i>	Propter Homines High Quality Lighting Designs with SSL - Practical Examples and the New Role of Lighting Designers <i>Ruari O'Brien, FILD, Germany</i>	Saal Bodensee International Solid-State Lighting Alliance (ISA) Forum, China
14.30	Seestudio LED Lighting Modules - The Next Growth Opportunity in the Lighting Industry <i>Pars Mukish Yole Développement, France</i>	Seefoyer Scenarios and Use Cases for Smart Lighting Management Systems <i>M.Eng. John Sayer Johnson Controls, UK</i>	Propter Homines Light and Health - Newest Research Findings and Its Applications <i>Mag. Wilfried Pohl Bartenbach, Austria</i>	Saal Panorama Photonics Cluster Forum About Alternative Light Sources
15.00	Seestudio The LED-Disruption <i>Dr. Stefan Kreidler onlog, Kreidler Mgt., Switzerland</i>	Seefoyer Individual Resistance to the Adoption of Intelligent and Connected Lighting Products <i>Prof. Jörg Lindenmeier University of Freiburg, Germany</i>	Propter Homines Gender and Age Specific Preferences Regarding Lighting Conditions in Activity and Recovery <i>Dr. Susanne Schweitzer Joanneum Research, Austria</i>	
15.30	Expo Area Coffee			
17.00	Seestudio Zhaga: Addressing Smart Lighting and Standardized LED Components <i>Dee Denteneer Zhaga Consortium, The Netherlands</i>	Seefoyer IoT Architecture for Future Building Management Embedded Lighting Controls <i>Dr. Walter Werner Werner Management Services, Austria</i>	Propter Homines Cultural Aspects in Lighting Design with LEDs - Case Study Guzhen Town China <i>Arch., Prof. Roberto Corradini, Marco Palandella, Roberto Corradini, Italy</i>	Saal Bodensee International Solid-State Lighting Alliance (ISA) Forum, China
17.30	Seestudio Standards for Smart Outdoor Lighting will Futureproof Smart Cities <i>MSc. Brian McGuigan TALQ Consortium, USA</i>	Seefoyer Integrated Controls - Creating the Beach-head for the IoT Invasion <i>MA Tom Griffiths ams AG, USA</i>	Propter Homines Color Quality of LED Illumination: Metrics and Experimental Data <i>Dr. Peter Bodrogi Technische Universität Darmstadt, Germany</i>	Saal Panorama Photonics Cluster Forum About Alternative Light Sources
18.00	Seestudio LED Recycling for Circular Economy <i>Dr. Jörg Zimmermann Fraunhofer, Germany</i>	Seefoyer Enabling Smart Buildings Through the Internet of Light <i>Dr. Christian Moormann Tridonic, Austria</i>	Propter Homines Vertical and Horizontal Light Distribution Effects for Human Centric Lighting <i>Volker Neu Vossloh-Schwabe, Germany</i>	
18.30	Parkstudio Press Conference			

TECHNOLOGY & DESIGN DAY SEPT WED 21ST

Time	Light Sources	Smart Lighting Connectivity	Engineering	Forum Workshop
08.30		Seefoyer Lighting Fixtures as IoT Devices <i>Justin Jiang UniBrite Technology, Taiwan</i>	Propter Homines Beyond Distribution: Application Marketing, Engineering and Value-Added Services <i>Sebastian Hülck, EBV Elektronik, Germany</i>	Saal Bodensee Design Forum with the Leading Association of Italian Independent Lighting Designers, Italy. <i>APIL</i>
09.00	Seestudio Monocrystalline Garnet Based Lumino-phores in High Power Light Sources <i>Tomáš Fidler Crytur, Czech Republic</i>	Seefoyer Intelligent Control System for Tuneable Light Spectra and Study of the Impact on Humans <i>Prof. Blas Garrido, University of Barcelona, Spain</i>	Propter Homines Maskless Laser Lithography Based Manufacturing and Replication of Freeform Micro-optical Elements <i>Dr. Ladislav Kuna, Joanneum Research, Austria</i>	
09.30	Seestudio New Glass-Based Phosphors for White LEDs <i>Dr. Franziska Steudel, Fraunhofer, Germany</i>	Seefoyer Overview and Trends in Wireless Communication Technologies for SSL <i>Luco Lo Coco, NXP, Italy</i>	Propter Homines Ultrathin Direct-lit LED Module with Beam Shaping Thin-film Optics <i>Dr. Oscar Fernandez, CSEM, Switzerland</i>	
10.00	Expo Area Coffee			
11.30	Seestudio Direct Mountable Chip, Chip-Scale-Packaging <i>Daniel Doxsee, Nichia, Germany</i>	Seefoyer DALI 2 - Smart Lighting and Color Control <i>Dr. Scott Wade DALI, UK</i>	Propter Homines Highly Reflective Diffuse and Specular Coatings for Lamps and Luminaires <i>Dr. Francois de Buyt, Dow Corning, Belgium</i>	
12.00	Seestudio Efficiencies and Color Quality of Latest LED Technologies <i>M.Sc.Eng Mauro Ceresa Cree, Italy</i>	Seefoyer Bluetooth Mesh and the Role of Standards in Widespread Adoption of Commercial Smart Lighting Systems <i>MSc.Eng. Szymon Slupik, Silvair, Poland</i>	Propter Homines Glass Optics with Micro Structures <i>Dr. Ulf Geyer Auer Lighting, Germany</i>	
12.30	Seestudio Lifetime and Reliability: Design Parameters of Mid-Power LEDs <i>Dipl.-Ing. Ingolf Sischka, Lumileds, Germany</i>	Seefoyer Security for Lighting in IoT - Group Communication <i>Dr. Abhinav Somaraju, Tridonic, Austria</i>	Propter Homines Enhancing Freeform Optics with Tailored Materials <i>Dr. Angelika Hofmann, kdg Opticomp, Germany</i>	
13.00	Seitenbühne Lunch			
14.00	Seestudio A New Binning Approach for White LEDs and Color Space Considerations <i>Dipl.-Ing. (FH) Alexander Wilm Osram Opto Semiconductors, Germany</i>	Seefoyer Enhanced Visible Light Communications <i>Dr. Majid Safari University of Edinburgh, UK</i>	Propter Homines Customized LED and Optical Device Packaging <i>Dr.Ir. MBA Marco Koelink APC, The Netherlands</i>	Saal Bodensee Spectrally and Tunable LED and OLED Lighting. EU FP7 Project Workshop. <i>Hi-LED</i>
14.30	Seestudio Achieving Next Generation LED Lighting with Quantum Dots <i>Steve Reinhard Nanoco Group, UK</i>	Seefoyer Digital Power, a Shortcut to Intelligent & Efficient Lighting <i>Dipl.-Ing Kurt Marquardt Infineon Technologies, Germany</i>	Propter Homines Thermal Challenges In SSL Automotive Lighting Applications <i>Prof. Mehmet Arik Ozyegin University, Turkey</i>	
15.00	Seestudio Bio-Inspired White Hybrid Light-Emitting Diodes <i>Dr. Ruben D. Costa Friedrich-Alexander-Universität Erlangen, Germany</i>	Seefoyer Near-zero Flicker, High Power Factor and Deep-Dimming - Eliminating the Supposed Conflict <i>M.Sc. Dave Bannister, AccurlC, UK</i>	Propter Homines Thermoelectrically Cooled High Power LEDs for Automotive Applications <i>Dr. Roman Dekhtiaruk SmarTThermoelectrics, Russia</i>	
15.30	Expo Area Coffee			
17.00	Seestudio OLED Lighting: Technology Status and Manufacturing Capacity <i>Dr. James Norman Bardsley Bardsley Consulting, USA</i>	Seefoyer Advantages and Concepts of SSL Applications Utilizing Advanced Digital LED Drivers <i>Mikael Pettersson SwitchTech AB, Sweden</i>	Propter Homines State of the Art of Thermal Management <i>M.Sc. Claudi Bachs Aismalbar, Spain</i>	
17.30	Seestudio Latest Innovations and Breakthroughs in OLED Lighting <i>Prof. W.A. Groen (Pim) Holst Centre, TNO, The Netherlands</i>	Seefoyer LED-Retrofit based on AlGaN/GaN-on-Si Field-Effect Transistor Drivers <i>M.Sc. Andreas Zibold Fraunhofer, Germany</i>	Propter Homines AL Oxide Technology for Device Cooling <i>Dr. Michael Naish RUSALOX, Russia</i>	
18.00				
18.30 23.00	Boat trip on Lake Constance Get Together Evening			

SOLUTION DAY SEPT THU 22ND

Time	System Quality	System Qualification	Applications	Workshops
08.30		Seefoyer Photobiological Safety of SSL: Refining the New Approach <i>Leslie Lyons</i> <i>Bentham Instruments, UK</i>	Propter Homines The Light Pen - LED Direct Write Photolithography <i>Dr. Nick Shepherd</i> <i>LEDesign, Austria</i>	Saal Bodensee SSL Technologies for Horticultural Applications Workshop. <i>EPIC</i>
09.00	Seestudio Flicker of LED Light Sources <i>Dipl.-Ing. Margret Hedrich-Goeppert</i> <i>Neumüller Elektronik, Germany</i>	Seefoyer Measurement of Spectral Rayfiles with Conventional Nearfield Goniophotometers <i>M.Sc. Ingo Rotscholl</i> <i>Karlsruhe Institute of Technology, Germany</i>	Propter Homines An Innovative Lighting Control System to Allow Parametric Relation with the Natural Environment <i>Dr. Nicola Trivellin</i> <i>LightCube & Artemide, Italy</i>	Saal Panorama Internet of Things (IoT) and Artificial Intelligence (AI) Lighting Workshop. <i>Jakajima</i>
09.30	Seestudio Electrical Overstress Robustness of Latest Generation LEDs for General Lighting <i>Dr. Matteo Buffolo, University of Padova, Italy</i>	Seefoyer Advanced Measurement Technology of SPD & Luminance for the Comfortable and Healthy Lighting <i>Dr. Rui Xu, Everfine, China</i>	Propter Homines Software Architecture Implementation for Street Lighting Management <i>DI Juan José González Méndez</i> <i>ELT, Spain</i>	
10.00	Seestudio Life-time Calculation of White HP-LEDs from 16,000 Hours Aging Data <i>Dipl.-Phys. Max Wagner</i> <i>Technische Universität Darmstadt, Germany</i>	Seefoyer A Photometric Test System for LED Luminaires Based on Solar Panels <i>Dr. Efi Rotem</i> <i>Ophir Photonics, Israel</i>	Propter Homines Comparison of Reflective and Refractive Optics for LED Light Sources in Outdoor Lighting Applications <i>Peter Almosdi, GE, Hungary</i>	
10.30	Expo Area Coffee			
11.30	Seitenbühne Lunch			
12.30	Seestudio Exact Control of Spatial Light Distribution in High Power LED Applications by Silicone Lenses <i>Dipl.-Ing. Christoph Baum</i> <i>Polyscale & Fraunhofer, Germany</i>	Seefoyer Practical Guidelines for Sphere and Goniometer Measurements in View of CIE S 025/E:2015 <i>MA Mikolaj Przybyla</i> <i>GL Optic, Germany</i>	Propter Homines Optimization of Roadway Lighting Optics for Environment Adaptive Spatial Light Distribution with Two Channel Independent Dimming Control Capability <i>Viktor Zsellér, Budapest University & Arrow Electronics, Hungary</i>	
13.00	Seestudio Material Selection for LED Modules in Harsh Environments, Outdoor and Industry <i>Dr. Martin Pfeiler-Deutschmann</i> <i>Tridonic Jennersdorf, Austria</i>	Seefoyer WORKSHOP Solid-State Lighting Measurements - From Basics to Recent Developments <i>Dr. Denan Konjhozic</i> <i>Instrument Systems, TÜV, Germany</i>	Propter Homines Beam Shaping System for Outdoor Applications <i>Dr. Oon Chin Hin</i> <i>Temasek Polytechnic, Taiwan</i>	
13.30	Seestudio Comparison of Luminaire Ageing with LED Lifetime Test Data <i>Dr. Wolfgang Scheuerpflug</i> <i>Diehl Aerospace, Germany</i>		Propter Homines Compact & Cost Effective Luminaire Designs with On-Board Driver Modules <i>Dave van Amelsfoort</i> <i>Viapac Lighting, The Netherlands</i>	
14.00	Closing			

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Registration

- Event information: www.lps2016.com
- Registration: www.lps2016.com/registration

! EARLY BIRD TICKETS
Available until July 1st.

Venue

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