

Monday, 27 November 2017

PROGRAM

10:00 Registration

11:00 Welcoming

11:05 **UV Emission - Laser**

- **The global market for light sources**
Pierrick Boulay
- **Novel UV laser technology enables new applications**
Dag von Gegerfelt
- **Semiconductor disk lasers for UV emission**
Roman Bek
- **Development and characterization of a 266 nm cw laser**
Philipp Jahn

Discussion

- **Challenges in the development continuous-wave laser systems for the DUV**
Patrick Leisching
- **Compact Pulsed UV Nanosecond Lasers at 213 nm**
Steffen Prein
- **UV-Laser Processing with Superior Precision and Throughput**
Ralph Delmdahl

Discussion

12:45 Lunch break

14:00 **UV Emission - LED**

- **Overview of UV LED technology and trends**
Axel Eckmann
- **Electrical, thermal and optical characterization of the degradation mechanisms of light-emitting diodes in the UV-A range**
Alexander Herzog
- **Influence of the heterostructure design and packaging on the performance of UVB LEDs**
Neysha Lobo Ploch



Laser Components GmbH, Olching

- **Prospects and challenges in the development of AlGaIn-based deep UV LEDs**

Michael Kneissl

Discussion

14:50 UV Transmission – Part I

- **UV Optical Coatings for 193 nm to 365 nm: Past, Present, and Future**

Uwe Schallenberg

- **All-dielectric optical components for the UV range**

Beatrix Ploss

Discussion

15:20 Coffee break

16:00 UV Transmission – Part II

- **Solarization in silica-based fibers: DIN standard 58145**

Karl-Friedrich Klein

- **Spectral UV degradation of optical fibers using pulsed Nd-YAG laser with 355 nm wavelength**

Philipp Raiihel

- **Optimization of UV Light Transfer in fiber optic sensor systems**

Mathias Belz

- **Enhanced UV Performance in Broad Spectral Band Fibers**

John Shannon

Discussion

- **Fused silica challenges in the UV**

Frank Nuernberg

- **Optical fused silica fibers for UV applications**

Peter Bauer

- **Micro-Optics for Applications in the UV**

Reinhard Voelkel

Discussion

17:30 Preparing for Bowling

Tuesday, 28 November 2017

PROGRAM

8:00 Coffee Reception

8:30 **UV Detection**

- **The global market for sensors**
Wenko Sueptitz
- **Measurement technology for UV hazard measurements**
Andreas Gross
- **UV radiometry with array spectro radiometers**
Steffen Goerlich
- **UV calibrations – a state of the arte review**
Mark Paravia

Discussion

- **AlGaIn photodetectors for the ultraviolet regime**
Robert Rehm
- **Components and Systems for UV Spectroscopy**
Hanns S. Eckhardt
- **The use of UV in analytical instruments**
Konstantin Kartaschew
- **Optical Metrology in the deep UV range**
Sven Martin

Discussion

10:20 Coffee break

11:00 **UV Application – Part I**

- **Some aspects of laser micro processing with UV laser radiation**
Georg Hillrichs
- **Non-dispersive UV detection of formaldehyde in indoor atmospheres**
Jane Hodgkinson
- **Industrial application of UVLED in the range 250 to 405 nm**
Adrian Mahlkow
- **UV laser micro and nano patterning of surfaces**
Juergen Ihlemann

Discussion

- **UV Flash Curing of Micro Spots**
Andreas Stoehr
- **From Mercury Lamp to UV-LEDs in curing applications**
Romain Guillaume
- **Investigating the benefits of Hybrid UV LED/IR curing systems in industrial applications**
Dawn Skinner
- **LEDcure in Printing**
Stefan Feil

Discussion

12:40 Lunch break

14:00 **UV Application – Part II**

- **High power vertical UV LED technology**
WoongSun Yum
- **The Use of UV emitting LED Light Sources for Water Treatment Applications and Technology**
Andreas Kolch
- **LED for the appliance industry**
Wolfgang Thimm

Discussion

- **New UV light sources: possibilities and challenges in molecular science**
Eberhard Riedle
- **Utilization of UV-LEDs in sophisticated industrial applications**
Simon Schwinger
- **Introducing UV LEDs to Human- and Animal-centric Lighting**
Stefan Kwetkat

Discussion

- **State of the Art Technologies in UV-Phototherapy for Psoriasis Treatment**
Hannes Wachter
- **Treatment of Psoriasis by UV-Radiation in the Future**
Karl Hoenle
- **Narrow-band UVB light sources for medical applications**
Dietmar Fischer

Discussion

16:00 End of WORKshop