

## [ Surface processing ]

Surface processing with advanced laser technologies is the enabling and often performance determining manufacturing step in many high tech markets and applications. The success formula for any technology is bridging the gap between depositing, structuring or modifying a surface and achieving industrial processing rates, yield and throughput.

This workshop will give insight in the latest laser surface processing approaches and technologies from a wide range of industries and aims at fostering mutual understanding and fruitful discussions about the challenges of designing and manufacturing surfaces.



Line beam optics assembly in Göttingen (Image: Coherent)

## [ How to get there ]

**Coherent LaserSystems GmbH & Co. KG**  
**Hans-Böckler-Straße 12, 37079 Göttingen**



**Werk 1**  
**Hans-Böckler-Straße 12**  
**D-37079 Göttingen**

## [ Organisation ]

**PhotonicNet GmbH**

Dr.-Ing. Thomas Fahlbusch  
Tel.: 0511 / 277-1640  
fahlbusch@photonicnet.de

## [ In cooperation with ]

**Coherent LaserSystems GmbH & Co. KG**

Dr. Ralph Delmdahl  
Tel.: 0551 / 6938-397  
ralph.delmdahl@coherent.com

# Photonic-Net

Innovationsnetz Optische Technologien

IN COOPERATION WITH



## SURFACE PROCESSING

[ Göttingen, June 6, 2018 ]



### [ Schedule ]

**Welcome** **10:00**  
 Dr.-Ing. Thomas Fahlbusch  
*PhotonicNet GmbH, Hannover, Germany*

**Chances and Challenges for MicroLEDs** **10:10**  
 Rainer Pätzelt, Dr. Ralph Delmdahl, Dr. Oliver Haupt  
*Coherent LaserSystems GmbH & Co. KG, Göttingen, Germany*

**Laser Processes for LEDs Development** **10:35**  
 Dr. Michael Kunzer, Dr. Thorsten Passow  
*Fraunhofer for Applied Solid State Physics, Freiburg*  
 Michael Binder  
*Osram Opto Semiconductors GmbH, Regensburg*

**Group photograph**  
**Coffee break** **11:00**

**Excimer lasers in advanced wafer level packaging applications** **11:30**  
 Dr. Thomas Rapps  
*SÜSS MicroTec Lithography GmbH, Sternenfels, Germany*

**Absorption mechanisms and surfaces processing of functional glass components** **11:55**  
 Dr.-Ing. Arnold Gillner  
*Fraunhofer ILT, Aachen, Germany*

**Lunch break** **12:20**

**Avoidance of debris on CFRP during UV ns-laser scanning for adhesive applications** **13:20**  
 Dr. Thomas Lukasczyk  
*Fraunhofer IFAM, Bremen, Germany*

**Multiple Laser Surface Enhancement** **13:45**  
 Phil Mansour, Jahr Turchan  
*MTiX Ltd., Huddersfield, West Yorkshire, UK*

**Pulsed laser deposition, a versatile deposition technique for growing thin films** **14:10**  
 Dr. Cas Damen, Dr. Rik Groenen  
*Twente Solid State Technology B.V., Enschede, The Netherlands*

**Coffee break** **14:35**

**The Road to Production Pulsed Laser Deposition** **15:05**  
 Dr. James A. Greer  
*PVD Products Inc., Wilmington, MA, USA*

**Precision Thin film patterning on 3-D surfaces for manufacturing of integrated strain sensors** **15:30**  
 Dr.-Ing. Oliver Suttmann  
*Laser Zentrum Hannover e.V., Hannover, Germany*

**Factory Visit** **15:55**  
**Coherent Göttingen**

**End** **16:45**

### [ Registration\* ]

**Binding registration**  
 Please register until **May 27th 2018** the latest

**Fax: +49 511 / 277-1650**

or **ONLINE**

**E-Mail: [veranstaltung@photonicnet.de](mailto:veranstaltung@photonicnet.de)**

I will attend the workshop

I will attend the factory visit

\_\_\_\_\_  
 Name

\_\_\_\_\_  
 Company / Institution

\_\_\_\_\_  
 Address

\_\_\_\_\_  
 Postal Code, City

\_\_\_\_\_  
 Phone No.

\_\_\_\_\_  
 E-Mail

\_\_\_\_\_  
 Member of competence network OT

\_\_\_\_\_  
 Date / Signature

**Venue:**  
 Coherent LaserSystems GmbH & Co. KG  
 Hans-Böckler-Straße 12  
 37079 Göttingen

**PARTICIPATION FEE** (plus VAT 19%):

290,00 € per person  
 230,00 € per person for members of competence network OT

\*In accordance with Federal Law for Data Protection (Bundesdatenschutzgesetz) 26,1 we point out that the indicated addresses are stored electronically and processed automated.