

THE COLLOQUIUM

ORGANIZERS

International Colloquium, October 19 and 20, 2010

OPTICS – KEY TECHNOLOGY FOR THE FUTURE

Aims and Contents

With a two day congress centered around the topics of optics and photonics the Fraunhofer Institute for Production Technology IPT and the Fraunhofer Institute for Laser Technology ILT offer a forum of information about current perspectives, technological innovations and new applications from industry and research on October 19 and 20, 2010. The colloquium, which takes place every two years in Aachen, will focus on three topics:

- Strategies and Markets
- Technology and Production
- Products and Innovation

Many high-level contributors promise a presentation of current developments and trends.

Conference Language

The lectures will be held in German and English each with simultaneous translation.

Conference Venue

Pullman Aachen Quellenhof
Monheimsallee 66
52062 Aachen
Germany

Fraunhofer Institute for Production Technology IPT

The Fraunhofer IPT develops and improves manufacturing techniques as well as machine and plant concepts and the necessary production measuring technology. Quality, technology and purchasing management complete the range of services. Clients and partners come to us from the production industries, mainly the aeronautical, tool and die making, optics and light engineering industries as well as precision and micro technology industries.

www.ipt.fraunhofer.de
info@ipt.fraunhofer.de

Fraunhofer Institute for Laser Technology ILT

ILT - for more than 20 years, these three letters have stood for concentrated expertise in the field of laser technology. The innovative solution to manufacturing and production problems, the development of new technical components, competent consultancy and training, highly specialized personnel, the latest technology as well as an international reputation: all these factors make for long-term partnerships.

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OCTOBER 19, 2010



9:00 Registration

10:00 Welcome Address

Prof. Robert Schmitt, Director, Fraunhofer Institute for Production Technology IPT

Strategies and Markets

**10:30 Optics in Life Science and Health Care:
From Components to System Solutions**

Dr. Markus Weber, Senior Vice President,
Corporate Research and Technology, Carl Zeiss AG

11:00 Coffee break

**11:30 Product Development and Manufacturing for
Global Markets**

Dr. Mario Ledig, Vice President Technology, QIOPTIQ

**12:00 Markets and Product Development for Advanced
Photonic Components and Microsystems**

Dr. Martin Forrer, Head of Research and Development,
FISBA OPTIK AG, Switzerland

12:30 Lunch break

**14:00 The European Optics Market from the Perspective
of a US American Company – Risks and Chances**

Dr. Thomas Kessler, Vice President of European Operations,
Edmund Optics Inc.

14:30 Optics in Advanced Illumination Systems

Klaus Vamberszky, Executive Vice President Technology,
Zumtobel Group, Austria

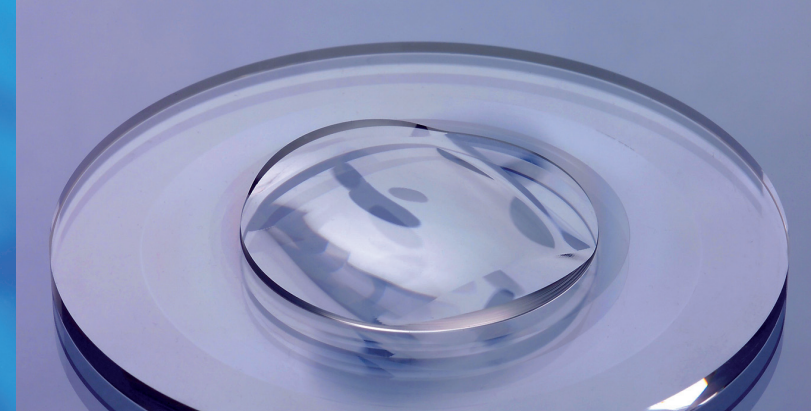
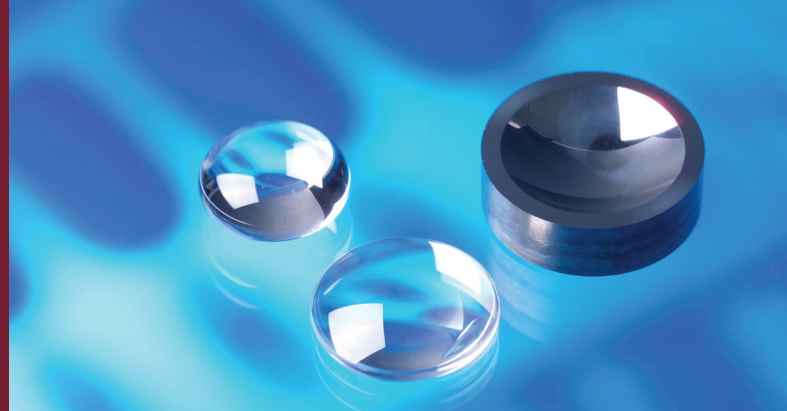
**15:00 Optics Production for Innovative Applications –
Developments and Competencies in Aachen**

Dr. Thomas Bergs, Managing Chief Engineer,
Fraunhofer Institute for Production Technology IPT

16:00 Tour of the Fraunhofer IPT and Fraunhofer ILT

19:30 Dinner at the Lenné Pavillon

OCTOBER 20, 2010



Technology and Production

- 8:30 Free-form Optics: Design – Production – Test**
Stefan Bäumer, OPTICS & Sensors,
Philips Applied Technologies, Netherlands
Mathieu Breukers, Competence Centre UPT & Metrology,
VDL Enabling Technologies Group, Netherlands
- 9:00 Wafer Level Optics Manufacturing –
Current Solutions and Future Challenges**
Dr. Markus Rossi, Chief Technology Officer,
Heptagon Oy, Switzerland
- 9:30 Mass Production of Polymer Optics**
Bernhard Willnauer, Chief Executive Officer,
VIAOPTIC GmbH
- 10:00** Coffee break
- 10:30 Automated Mach-Zehnder Interferometry and
Microscopy – Applications in Life and Material Science**
Daniel Mahlmann, Chief Executive Officer,
Incelltec GmbH

- 11:00 Optical Engineering and Precision Optical Manufac-
turing in Rochester, NY**
Prof. Thomas G. Brown, Director, Robert E. Hopkins
Center for Optical Design and Engineering,
The Institute of Optics, University of Rochester, USA

Products and Innovation

- 11:30 Trends in Microoptics – Refractive and Diffractive**
Prof. Hans Peter Herzig, École Polytechnique Fédérale de
Lausanne (EPFL), Institut de Microtechnique, Switzerland,
President of the European Optical Society (EOS)
- 12:00 LED Solutions and their Optical Requirements**
Georg Bogner, Director Engineering Business Segment
LED, OSRAM Opto Semiconductors GmbH
- 12:30** Lunch break
- 14:00 Optics in Concentrating and Non-concentrating
Photovoltaics**
Dr. Peter Nitz, Fraunhofer Institute for Solar Energy
Systems ISE

- 14:30 Innovative Ultralightweight Space Optics**
Dr. Roland Graue, Head of Optical Systems,
Kayser-Threde GmbH
- 15:00** Coffee break
- 15:30 Micro-structured Surfaces for Next Generation
Optical Films**
Dr. Nicholas Walker, Chief Executive Officer,
Microsharp Corporation Ltd., Great Britain
- 16:00 Design of Efficient LED Illumination**
Joost Sormani, Senior Optical Designer nonimaging
optics, Jos Schneider Optische Werke GmbH
- 16:30** End of Conference

REGISTRATION

Registration

To register, please fill out, sign and send the attached registration form by post or by fax to the address/fax number given. Once you are registered, you will receive an invoice for the participation fee amounting to € 790. If we receive your registration before August 20, 2010 we will allow you a facility of € 100. Should you cancel before October 4, 2010 we will refund the registration fee minus an administrative charge of € 100. All prices quoted here are subject to the current rate of value added tax.

Your Contact

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52074 Aachen
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REGISTRATION

Herewith I acknowledge my registration to the colloquium
“Optics – Key Technologies for the Future”.

The participation fee amounts € 790. If we receive your registration before August 20, 2010 we will allow you a facility of € 100.

Please send the registration back to us by mail or fax:
+49 241 8904-198

Family Name*

First Name*

Title

Institution/Company*

Department/Position

Street Address*

City/Zip Code/County*

Country

Phone*

E-mail

Date/Signature

*Data necessary

I agree that my name and address will be registered in the participant list. For the purpose of organizing the colloquium my name and address will be electronically processed and saved.