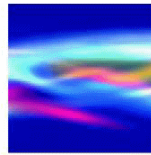




OpTecBB



## Photonics for Medical Technologies

Optical technologies are currently used in a wide range of medical applications. In particular, light and laser techniques are well known for their applications in diagnostics and cancer therapy. Special innovative products and new laser systems for ophthalmic surgery can improve human vision, and new instruments that integrate eye movement measuring and evaluation systems have already found medical applications and can also be applied in fields such as psychology, ergonomics, and marketing.

**Date:** Wednesday, 28 September 2005, 13:30 - 17:30

**Place:** Ludwig Erhard Haus, Fasanenstraße 85, Raum 2D08  
10623 Berlin **Partner:** Optec-Berlin-Brandenburg  
(OpTecBB) e.V.

**Target Group:** Representatives from companies and institutes using or developing photonics for medical technologies.

### Programme:

- |       |  |
|-------|--|
| 13:30 | <i>Welcome</i><br><b>Dr. Karl-Heinz Schönborn</b><br><i>Chairman OpTecBB e.V.</i>  |
| 13:40 | <i>Innovative intraocular lenses for implantation</i><br><b>Dr. Rainer Schuhmann</b><br>Acri.Tec Gesellschaft für ophthalmologische Produkte mbH,<br>Henningsdorf  |
| 14:10 | <i>SMI eye tracking, image registration and processing: versatile tools to understand the brain, improve man-machine interaction and to improve vision</i><br><b>Dr. Natalie Taylor</b><br>SensoMotoric Instruments GmbH (SMI), Teltow |
| 14:40 | <i>Solid-state technology, the future in refractive surgery</i><br><b>Marcel Kirsch</b><br>Katana Technologies GmbH, Kleinmachnow  |
| 15:10 | Coffee break   |

- 15:30 *Femtosecond laser based attempt at a new diagnostic method for ocular melanomas*  
**Dr. Marcus Schneider**  
Potsdamer Augenklinik im Albrecht-von-Graefe-Haus, Potsdam  
**Dr. Klaus Teuchner**  
Gesellschaft zur Förderung angewandter Optik, Optoelektronik, Quantenelektronik und Spektroskopie e. V.(GOS), Berlin  
**Dr. Dieter Leupold**  
LTB Lasertechnik Berlin GmbH and  
University Potsdam, Institute for Physics
- 16:00 *Correction of color asthenopia with corrective glasses*  
**Jessen Wei**  
MOGI GmbH, Berlin
- 16:30 Laser diodes in the wavelength range 650 nm to 760 nm suitable for photodynamic therapy  
**Dr. Martin Zorn**  
Ferdinand-Braun-Institut für Höchstfrequenztechnik (FBH), Berlin
- 17:00 *Design, development and implementation of experimental configurations for multiphoton LIFD and PDT*  
**Dr. Georgi Grasczew**  
  
Surgical Research Unit OP 2000  
Robert-Roessle-Klinik am MDC, Charité – Universitätsmedizin Berlin
- 17:30 *Summary*