

# Registration

I hereby confirm my participation:

## *Trends in Fiber Optics 2012*

Name

Address

Phone

Email

Participation is free. Due to limited number of participants at the workshop, we ask you to register early.

Please send your registration to:

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07745 Jena  
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Fax: +49 (0)3641 - 206 299  
Email: [yvonne.nemetz@ipht-jena.de](mailto:yvonne.nemetz@ipht-jena.de)

Institute of Photonic Technology

Location

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Jena, Germany  
February 23

*Trends in  
Fiber Optics  
2012*

Partner:



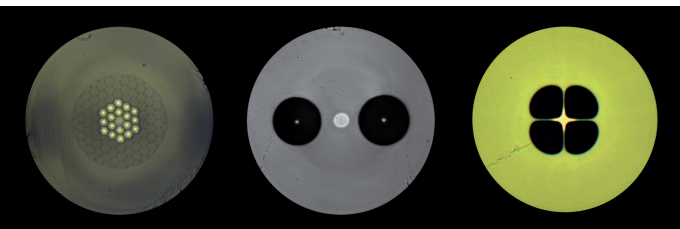


Dear Colleagues,

Optical fibers are steadily extending their functionality and area of applications. Besides their use in information transmission they find manifold applications today in signal processing, imaging and sensing systems, high power laser beam transport, spectral wideband light sources or as powerful fiber lasers. With the workshop on current trends in fiber optics we want to offer a platform to discuss new technologies, optical functionality and new application developments with competent national and international speakers from research and industry.

Prof. Jürgen Popp  
Scientific Director

Prof. Hartmut Bartelt  
Head of Department of Fiber Optics



8.30 – 8.45 Welcome

### 8.45 – 10.45 Session 1: Fiber technology

„Diffusion processes and their role in optical fiber technology“ (J. Kirchhof, IPHT Jena)

„Vapour phase doping technique for making rare earth doped optical fibers“ (R. Sen, Central Glass and Ceramic Research Institute Kolkata)

„Active fibers on the base of  $Al_2O_3/P_2O_5/SiO_2$  glasses for powerful lasers“ (M.M. Bubnov, Fiber Optics Research Center, Moscow)

„Trendy multimode fibers in data networks“ (A. Landers, j-fiber GmbH)

„Trends in fiber optic materials“ (G. Schötz, Heraeus Quarzglas GmbH & Co. KG)

10.45 - 11.15 Coffee break

### 11.15 – 12.40 Session 2: Speciality fibers

„High power fiber lasers and amplifiers: fundamentals and enabling technologies to enter the upper limits“ (Th. Schreiber, IOF Jena)

„Microstructured fibers for sensing and frequency conversion“ (W. Urbanczyk, Wroclaw University)

„Losses in low-mode and single-mode fibers for violet and UV-A applications“ (K.-F. Klein, FH Friedberg)

„Silica waveguides and components“ (G. Kuka/ T. Hänel, fiberware GmbH)

12.40-13.40 Lunch

### 13.40 – 15.15 Session 3: Fiber applications

„Fiber tapers and long-period gratings in special optical tapers for sensing“ (V. Matejec, Institute of Photonics and Electronics AS CR Prague)

„Tailored single pulse draw tower fiber Bragg gratings for various sensing applications“ (E. Lindner, FBGS Technologie GmbH)

„Gradient Index Microoptics - a key technology for fiber optic sensors and medical imaging applications“ (B. Messerschmidt, Grintech GmbH Jena)

„Fibre optic sensors in technical safety and life sciences“ (K. Krebber, BAM Berlin)

15.15 -15.30 Coffee break

### 15.30-17.00 Session 4: Fiber applications

„Fiber optical sensing in energy systems“ (Th. Bosselmann, Siemens AG Erlangen)

„Lab in a fiber: Fabrication of functionalized photonic crystal fibers for chemical reaction monitoring“ (M. Scharrer, Max Planck Institute Erlangen)

„Innovative fiber light sources: from fiber laser to supercontinuum generation“ (M. Jäger, IPHT Jena)

„Measurement of relative strength, phase delay and polarization state of transversal eigenmodes at the end facet of multimode fibers“ (M. Duparê/ Ch. Schulze/ D. Flamm, IAO University Jena)

