

## NEW FRONTIERS IN FIBER OPTICS

Optical fibers are the basis for efficient photonic systems in signal transmission and information technology, high-power fiber light sources and fiber optical sensors and probes.

The international Workshop "New Frontiers in Fiber Optics" aims to build a platform for in-depth discussions about important questions about the application of fiber technology in various areas of science and technology. Moreover, the establishment of sustainable stakeholder networks and purposeful international research collaborations will be promoted in that context.

### **Prof. Dr. Jürgen Popp**

Scientific Director  
Leibniz Institute of Photonic Technology



IPHT / S.DÖRING

## CONFERENCE VENUE



## CONTACT

Leibniz Institute of Photonic Technology (IPHT)  
Albert-Einstein-Straße 9  
07745 Jena · Germany

### **Scientific Program**

Prof. Dr. Jürgen Popp  
Scientific Director Leibniz Institute of Photonic Technology

Prof. Dr. Markus A. Schmidt  
Research Group Leader „Fiber Sensors“  
Leibniz Institute of Photonic Technology

### **Registration and Participant Management**

Frances Karlen  
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Phone: +49 3641/206 064

### **Registration form and more information about the workshop and the speakers**

<https://form.jotformeu.com/53413404934350>

INTERNATIONAL WORKSHOP

## New Frontiers in Fiber Optics

JENA · JANUARY 28 - 29, 2016

Organized by:

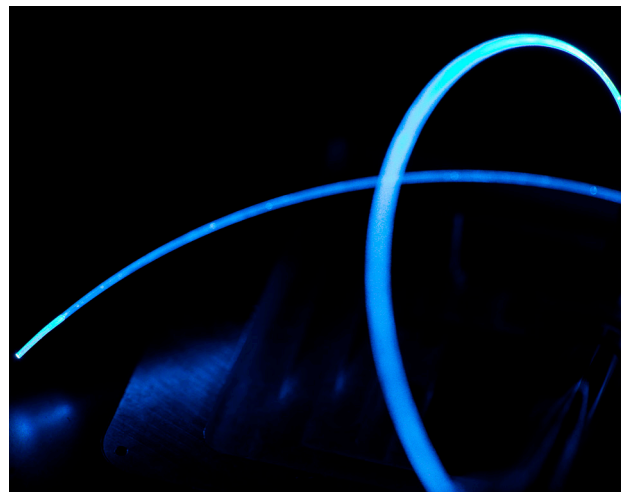


## THURSDAY, 28<sup>TH</sup> JANUARY

- 08:15 – 08:30 am **Official Welcome - Jürgen Popp**  
Leibniz Institute of Photonic Technology, Jena
- 08:30 – 09:30 am **Liquid and solid nanowires in fibers – a new base for nano- and biophotonics and nonlinear optics**  
Markus A. Schmidt, Leibniz Institute of Photonic Technology, Jena
- 09:30 – 10:30 am **Fiber optic platform technology for emerging interdisciplinary sciences – functionalizing light-matter interactions inside-outside-on the optical waveguides**  
Ken Oh, Yonsei University, Seoul
- 10:30 – 11:00 am *Coffee Break*
- 11:00 – 12:00 pm **Very large mode area fibers for pulsed laser systems**  
Jens Limpert, Friedrich Schiller University, Jena
- 12:00 – 13:00 pm **Sensors and lasers based on multicore optical fibers**  
Axel Schülzgen, University of Central Florida, Orlando
- 13:00 – 14:00 am *Lunch*
- 14:00 – 15:00 pm **From Innovative Optical Fiber Technologies to Applications**  
Hartmut Bartelt, Leibniz Institute of Photonic Technology, Jena
- 15:00 – 16:00 pm **Chemical detection and sensing using wave guide resonators**  
Hans-Peter Loock, Queen's University, Ontario
- 16:00 - 17:00 pm **Taming the light in optical fibres for bio/chemical sensing**  
Heike Ebendorff-Heidepriem, University of Adelaide, Adelaide
- 17:00 – 18:00 pm *Poster Session with Coffee*
- 19:00 – 22:00 pm **Guided City Tour with Bratwurst and Beer**

## FRIDAY, 29<sup>TH</sup> JANUARY

- 08:00 – 09:00 am **Fiber enhanced Raman spectroscopy**  
Torsten Frosch, Leibniz Institute of Photonic Technology, Jena
- 09:00 – 10:00 am **Engineering dispersion of fibres for nonlinear optics: from supercontinuum to correlated twin beams source**  
Nicolas Joly, Friedrich Alexander University Erlangen-Nürnberg, Erlangen
- 10:00 – 10:30 am *Coffee Break*
- 10:30 – 11:30 pm **Tailoring light propagation in fibers by localized fs laser modifications**  
Stefan Nolte, Friedrich Schiller University, Jena
- 11:30 – 12:30 pm **Towards the Fiber-Lap concept**  
Stavros Pissadakis, FORTH-IESL, Hellas
- 12:30 – 13:30 am *Lunch*
- 13:30 – 14:00 pm *Closing Remarks*



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## TRAVEL INFORMATION

### By car

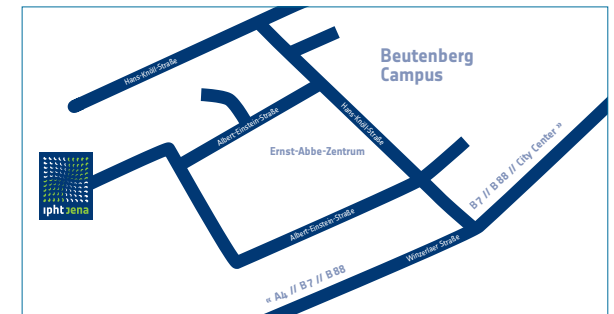
From the north (Berlin) or south (Munich), take the A9 Autobahn to Hermsdorfer Kreuz, then the A4 Autobahn in the direction of Erfurt - Frankfurt/Main. Exit at Jena Göschwitz and head toward the city center (Zentrum) on Rudolstädter Straße. After ca. 5 km, go left on Winzerlaer Straße. Follow this road and the signs to "Beutenberg Campus." Turn left onto Hans Knöll Straße, the campus site north.

### By train

From the north (Berlin), south (Munich) or east (Dresden), take the train to Jena Paradies railway station. From the west (Frankfurt/Main), take the train to Jena Westbahnhof railway station. You have to change for Jena in either Weimar or Erfurt.

### By plane

From Leipzig-Halle Airport, take the train to Jena Paradies railway station. From Frankfurt/Main Airport, take the S-Bahn or any train to Frankfurt/Main main railway station (Hauptbahnhof). Take the train to Jena Westbahnhof and follow the directions above.



## ACCOMMODATION

Jena offers its visitors a large number of hotels ranging from luxury hotels to low budget economy hotels. Most of the hotels are located in the inner city in walking distance to the conference venue. Please do not hesitate to contact us in case you need further information about accommodation or travel.