Registration:
Please confirm your attendance (free of charge) until February 11, 2011 to: rhass@uni-potsdam.de

More information is available from:
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Chitose Institute of Science and Technology

photonikBB brandenburgberlin

UNTERNEHMEN REGION
Die BMBF-Innovationsinitiative Neue Länder

AIP

Bundesministerium für Bildung und Forschung

Venue:

University of Potsdam
Institute of Chemistry
Karl-Liebknecht-Str. 24-25
House 25
14476 Potsdam-Golm

Room F 0.01

Universität Potsdam

Physical Chemistry

February 18, 2011

FIBER- & LASER-OPTICAL SENSING APPLICATIONS

innoFSPEC
Innovative faseroptische Spektroskopie und Sensorik

ALS
InnoProfile - Applied Laser Sensing

Prof. Dr. H.-G. Löhmannsröben
Dr. C. Dosche
Dr. O. Reich

Invitation

Dear Guests and Colleagues,

the "Physical Chemistry" group at the University of Potsdam (UPPC) kindly invites you to our workshop "Fiber- and Laser-Optical Sensing Applications".

Covering tailor-made laser sources, sophisticated optical fibers, novel photonic sensing devices and materials for biological and chemical applications, this workshop intends to share the latest results and stimulate future activities in this fascinating field.

Interdisciplinary contributions from local groups as well as our close cooperation partner "Chitose Institute of Science and Technology" (CIST), Japan, will provide an excellent platform for discussing and generating new ideas for future research and development.

Please join us on this very special scientific event!
Yours
H.-G. Löhmannsröben, C. Dosche, O. Reich

CIST/innoFSPEC Photonic Prize 2011

Laureate: Eric Schönemann, B. Sc.

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For his bachelor thesis:

"Oberflächenmodifikation von mesoporösen, polymeren Honigwaben mit Metallkomplexen"

Agenda 18.02.2011

9:15 **Welcome Note**
Fiber- & Laser-Optical Sensing at UPPC
Prof. H.-G. Löhmannsröben (UPPC)

Diode Pumped Lasers for Life Sciences

9:30 **Fluorescence Lifetime Imaging in Biological Sciences** Dr. C. Dosche (UPPC)

9:50 **Supercontinuum Lasers as Excitation Light Sources for the Characterization of Micelles** A. Techen (UPPC)

10:20 **Two-Photon Excitation - a handy Key to Cellular Parameters** M. Lahn (UPPC)

10:50 - 11:10 Coffee Break

11:10 **Design and Characterization of a Three Color FRET System** R. Flehr (UPPC)

11:40 **High Brightness Diode Lasers: Key Components in Modern Laser Systems** Dr. K. Paschke (FBH)

12:10 - 13:30 Lunch Break (invited)

Next Generation Photonic and Sensing Devices and Materials

13:30 **Fiber-optical Sensing at innoFSPEC**
Dr. O. Reich (innoFSPEC)

13:45 **Multichannel Spectroscopy: Innovation at innoFSPEC** Dr. R. Haynes (innoFSPEC)

14:00 **Tapered Optical Fiber and Sensor Applications**
Prof. S. Kobayashi (CIST)

14:30 **Photonic Fibers for Non-linear Optics**
Prof. N. Karasawa (CIST)

15:00 - 15:15 Coffee Break

15:15 **Control of Phase-Separation Dynamics and Structure in Polymer Blends** Y. Kiyono (CIST)

15:45 **Self-Organization for Organic Photonic Devices**
Prof. O. Karthaus (CIST)

16:15 **Summary, innoFSPEC prize (Eric Schönemann) and Future Joint Research Activities**
Prof. H.-G. Löhmannsröben (UPPC)