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## WORKSHOP on MICRO SPECTROMETER

From fundamental research to industrial applications, from high technology to the consumer sector, terrestrial and space-assisted, spectroscopy is a cross-sectional technology in many industries and markets. Miniaturization of spectrometric systems enables more and more decentralized and mobile applications. From the excitation source to the sensor, efforts are being made to address the technical specifications and calibration issues associated with the miniaturization. In cooperation with users and suppliers from industry and research, the possibilities, solutions and future trends in the field of micro spectrometers will be discussed.

**18th October 2018**

WISTA  
Rudower Chaussee 17  
12489 Berlin

Part of the Photonic Days Berlin Brandenburg  
THE WORKSHOP WILL BE HELD IN ENGLISH

## Program, 18.10.2018

09:00 - 09:30	<b>registration // exhibition// coffee</b>
09:30 - 10:00	Welcome Dr. Frank Lerch, Cluster Optik/OpTecBB Welcome and State of the art micro spectrometer Prof. Dr. Dirk Oberschmidt, TU Berlin
10:00 - 10:20	Miniaturized Spectrometers by Hamamatsu Photonics Elias Iwotshkin, Hamamatsu Photonics Deutschland GmbH
10:20 - 10:40	(Miniaturized) x-ray spectroscopy Jonas Baumann, TU Berlin
10:40 - 11:00	The InSION micro spectrometer – Enhanced specificity and sensitivity by a new generation of monolithic spectral sensors for medical diagnostics, process control, safety- and colorimetric applications, Sven Schönfelder, INSION GmbH
11:00 - 11:30	<b>Coffee break and exhibition</b>
11:30 – 11:50	Overview: Spectrometer for environmental analysis and the potential of miniaturization Dr. Burkhard Beckhoff, Physikalisch-Technische Bundesanstalt
11:50 - 12:10	Monitoring of inland waters using micro spectrometers Dr. Andreas Jechow, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), GFZ Potsdam
12:10 - 12:30	Liver function measurement using LiMAX Axel Luchterhand, Humedics GmbH
12:30 – 12:50	Nanophotonic MEMS spectrometers Prof. Dr. Andrea Fiore, Technische Universiteit Eindhoven
12:50 - 13:50	<b>Lunch and exhibition</b>
13:50 - 14:10	Integrated photonic spectrographs-on-the-chip Prof. Martin M. Roth/Andreas Stoll, AIP Potsdam/innoFSPEC Potsdam
14:10 – 14:30	Calibrating von-Hamos spectrometer Ina Holfelder, Physikalisch-Technische Bundesanstalt
14:30 - 14:50	Miniaturization of Continuous Dispersive NIR Spectrometers for 950nm-1900nm” Dr. Sebastian Meyer, Fraunhofer IPMS
14:50 - 15:10	Photonic crystal based tunable filtering technology Prof. Dr. Yoshihiro Takiguchi, Graduate School for the Creation of New Photonics Industries
15:10 – 15:30	Wrap up and final discussion
15:30 – 16:00	<b>Coffee break and exhibition</b>
16:00 – 16:30	Bus transfer to the Fraunhofer IPK
16:30 – 16:40	Welcome to Fraunhofer IPK Dr. David Domingos, Fraunhofer IPK
16:40 – 17:45	Tour at the Test Area at Fraunhofer IPK with live Demonstrations Fraunhofer IPK
17:45 – 19:00	Reception and networking



## Registration

## Workshop

## Micro Spectrometer

Thursday, 18th October 2018

WISTA

Rudower Chaussee 17

12489 Berlin

Please reply before **October 12th 2018** to OpTecBB

Online registration: [http://optecbb.de/lang/de/anmeldung\\_20181018\\_micro\\_spectrometer.php](http://optecbb.de/lang/de/anmeldung_20181018_micro_spectrometer.php)

Or mail to OpTecBB e.V., Hr. Reschke: [optecbb@optecbb.de](mailto:optecbb@optecbb.de), Fax: +49-30-6392-1729

Name, first name:

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Title:

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Institution/company:

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Address:

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Tel./fax:

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E-mail:

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By registering you consent to the following:

- all personal data collected via this registration form will, in accordance with the current rules concerning the protection of personal data, be saved, processed and used for the sole purpose of organising the event and for legitimate business interests with regard to providing advice and support.
- during the event, visual images of you may be taken, processed and used in the context of public relations work (print and online media) and for documentation purposes.
- The transmitted data concerning title, first name, surname and company/institution may be made available to all event participants in the form of a printed list of participants.