Registration by fax

+ 49 6732 935 123

☐ I will attend the symposium „Optical Materials" as guest

☐ I will attend the symposium „Optical Materials" as sponsor

Title, Last name, First name

Company

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Street (invoice address)

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Signature

With my signature I accept the terms and conditions of Photonics Hub GmbH (available at www.photonics-hub.de/kontakt/agb).

Note: According to Art 6 GDPR (EU General Data Protection Regulation) we inform you about the electronic storage of your data and the processing in the automatic procedure.

Online registration

www.photonics-hub.de/Veranstaltungen

Attendance Fee

☐ Members of German Photonic Innovation Networks 150,00 € pp
(+19% VAT, corr. 178,50 € gross)

☐ Non-members 195,00 € pp
(+19% VAT, corr. 232,05 € gross)

Location

Hotel Wetzlarer Hof
Obertorstraße 3
35578 Wetzlar
Seminarraum Siena-Colchester
Germany

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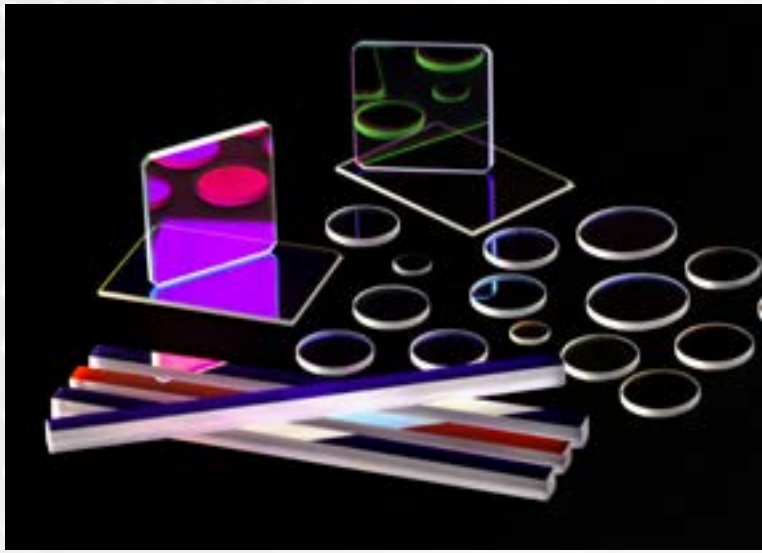
Optical Materials



Courtesy of SUSS MicroOptics

September 26th, 2019
Wetzlar

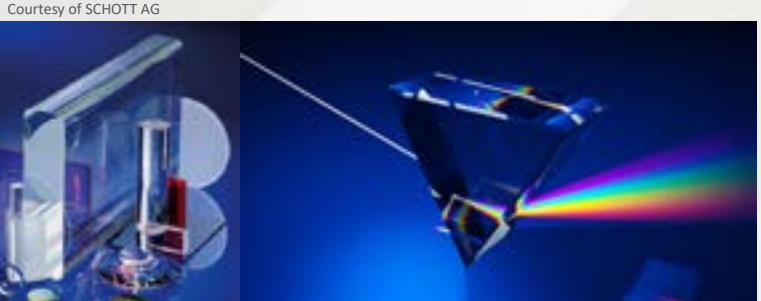
Optical Materials

Optical materials such as optical glasses, fused silica, calcium fluoride and glasses for infrared light are the enabling materials for optical technologies. The transparence of glasses and its ability to refract light rays very precisely enables high resolution imaging. Optical materials are available for applications in the wavelength range from vacuum ultraviolet and visible light up to near and middle infrared. For designing high quality optical system for a wild field of wavelength, the combinations of different optical glasses are necessary because of dispersion.

The large variety of applications makes it essential to develop a lot of different types of glasses with specific optical properties. Additionally some materials such as fused silica, calcium fluoride and optical infrared glasses also open wavelengths in the range of UV and IR. The transmission rate and blocking of light in a specific wavelength range can be controlled by optical filters.

Information about types, production, optical properties as well as its characterization methods helps to find out the right material for individual applications. This event offers considerable information about optical materials, especially optical glasses, and gives an overview about upcoming development trends. Furthermore the participants get information about long-term availability of the different materials.

Courtesy of SCHOTT AG



Program

09:30 **Registration**

10:00 **Welcome talk**
Jens Lienemann, Photonics Hub GmbH
Dr. Ralf Jedamzik, Schott AG

10:10 **Optical glass: Glass program and trends in glass developments**
Dr. Ralf Jedamzik, Schott AG

10:50 **Overview of silica glass manufacturing methods and some typical properties**
Sebastian Stoebenau, Heraeus Quarzglas GmbH & Co. KG

11:20 **Coffee break**

11:40 **Optical glass: Properties and their measurement**
Dr. Ralf Jedamzik, Schott AG

12:30 **Optical Properties of Selected Quartz Glasses in the UV and IR**
Sebastian Stoebenau, Heraeus Quarzglas GmbH & Co. KG

13:00 **Lunch break**

14:00 **High end coated filters: Applications, specifications and production processes**
Dr. Ralf Biertümpfel, Schott AG

14:30 **Calcium Fluoride and Barium Fluoride: Crystalline Materials for Applications from DUV to IR**
Dr. Gordon von der Gönna, Hellma Materials GmbH

15:00 **ZnS and ZnSe – optical ceramics for applications from VIS to LWIR**
Dr. Gordon von der Gönna, Hellma Materials GmbH

15:30 **Coffee break**

16:00 **Infrared materials and low expansion glass ceramic ZERODUR**
Dr. Ralf Jedamzik, Schott AG

16:30 **Closing words**