



FINAL PROGRAM ADDENDUM

SCHOTT Workshop on the properties of optical glass and special optical materials

Date: **Monday 14 April 2014**
Time: **2:00 PM - 5:30 PM**



Lecturers:

Peter Hartmann, SCHOTT AG, (Germany)
Steffen Reichel, SCHOTT AG, (Germany)

14.00 to 14.10: **SCHOTT Advanced Optics: Company introduction**

14.10 to 14.40: **Optical glass: program, key enabling material, production process**

- Optical glass types program, eco -, classical -, low Tg and high-transmittance glass types
- New glass type development trends, new glass types
- Strategic relevance, Production process - melting and annealing.

14:50 to 15:20: **Optical glass: properties, tolerances and their measurement**

- Refractive index, dispersion, homogeneity, transmittance, inclusions, striae, stress birefringence

15:20 to 15:30 **Special optical glass types and other optical materials**

- Radiation resistant, low fluorescent, IR transmitting

Coffee Break 15.30 to 15.50

15:50 to 16:10: **Glass filters properties and applications**

- Comparison between absorption filters and interference filters
- specification of filter glass, guaranteed values

16:10 to 16:50: **Coated filters properties and applications**

- Interference effect, basic anti-reflective coating basic building block of interference filters, cavities
- typical applications of coated filters

16:50 to 17:20: **Ultra-low expansion glass ceramic ZERODUR®: properties and applications**

- CTE, CTE homogeneity, lightweightin, strength

17:20 to 17:30: **Large optical glass blanks up to 1 m. availability and limitations**

- Glass types, homogeneity, long lead time

17.30: **Closing Remarks**

Interdisciplinary Workshop of Biophotonics 2014

Date: **Tuesday 15 April 2014**
Time: **8:30 AM - 12:30 PM**



Organized by the European Network of Biophotonics Photonics4Life, the Workshop is based on the format and a small-scale continuation of the last International Congress on Biophotonics (ICOB 2012). Its aims are to strengthen interdisciplinary networking and provide key individuals with what is necessary to increase success in the field.

8:30 to 10:20: Session I

The session comprises a funding part related to Biophotonics opportunities in Horizon 2020 and showcases the best practice in working together on projects from industrial and academic perspectives. Among the speakers are:

- **Arne Kreitz**, A. T. Kearney (Germany)

Biophotonics: Future Market for Germany

- **Eddy Corthals**, Photonics Unit, EU commission (Belgium)**Biophotonics in Horizon 2020**

- **Sasa Jenko**, DG for Research and Innovatino, EU Commission (Belgium)

Personalising Health & Care Research in European Union

- **Timo Mappes**, Carl Zeiss AG (Germany)

Technology Transfer at ZEISS: Bridging the Gap Between Academia and Industry in Biophotonics

- **Norbert Hansen**, Karl Storz Endoskope (Germany)
From the Lab to the Clinic: Clinical Testing, Product Approval and other Hurdles

- **Francesco Pavone**, LENS (Italy) **TBA**

Coffee Break: 10:20 to 11:00

11:00 to 12:50: Session II

The session addresses urgent biomedical needs as viewed by the clinicians and biologists in an effort to inspire a more directed and need-based research.

- **Evangelos Giamarallos-Bourboulis**, Univ. of Athens (Greece) **Sepsis: an Unmet Medical and Social Need**

- **Orlando Guntinas-Lichius**, Jena Univ. Hospital (Germany)
Optical Devices in Otorhinolaryngology and Head and Neck Surgery: Clinical Standards and Limitations

- **Katarina Svanberg**, Lund Univ. (Sweden)
Applications of Laser Spectroscopy to Meet Challenges in Medicine

- **Frank Gunn-Moore**, Univ. St. Andrews (United Kingdom)
Lighting up the Diseased Brain

FULL WORKSHOP DETAILS CAN BE VIEWED AT
<http://spie.org/EPE/special-events/Industry-Event>

TO VIEW PRESENTATION ABSTRACTS, PLEASE VISIT
<http://spie.org/EPE/special-events/Industry-Event>

SPIE. PHOTONICS EUROPE

CONF. 9125-METAMATERIALS

- Runs from Monday 14 April to Thursday 17 April
- Oral Presentations Cancelled:
9125-21, 9125-47
- Poster Presentations Cancelled:
9125-51

CONF. 9126-NANOPHOTONICS

NOTE: CONFERENCE BEGINS ON SUNDAY PM

- Oral Presentations Cancelled:
9126-45, 9126-54
- Poster Presentations Cancelled:
9126-68, 9126-93, 9126-108, 9126-123
- 9125-64 moved in place of 9126-54 (Session 11, 11:40)

CONF. 9127-PHOTONIC CRYSTAL MATERIALS & DEVICES

- Oral Presentations Cancelled:
9127-18, 9127-43
- Poster Presentations Cancelled:
9127-50, 9127-58

CONF. 9128-MICRO-STRUCTURED & SPECIALTY OPTICAL FIBRES

- Oral Presentations cancelled:
9128-6
- Reinstated:
SESSION 1:
9128-4: **Hollow core photonic crystal fibers for biological recognition processes**
POSTER SESSION
9128-28: **New possibilities of higher-order mode filtering in large-mode-area photonic crystal fibers**
- Presentation 9128-35 moves in place of 9128-6 (Session 2, 15:50)

CONF. 9129-BIOPHOTONICS

- Poster Presentations Cancelled:
9129-109, 9129-111, 9129-134

CONF. 9131-OPTICAL MODELLING & DESIGN

- Oral Presentations Cancelled:
9131-21
- Poster Presentations Cancelled:
9131-65

CONF. 9132-OPTICAL MICRO- & NANOMETROLOGY

- Oral Presentations Cancelled:
9132-6
- Poster Presentations Cancelled:
9132-47

CONF. 9133-SILICON PHOTONICS

- Oral Presentations Cancelled:
9133-54
- Poster Presentations Cancelled:
9133-63
- Reinstated: SESSION 7 (12:20 hrs)
9133-34: **An inter- and intra-chip optical interconnect using a hybrid plasmonic leaky-wave nano-antenna**

CONF. 9135-LASER SOURCES & APPLICATIONS

- Poster Presentations Cancelled:
9135-73

CONF. 9136A-NONLINEAR OPTICS

- Oral Presentations Cancelled:
9136-10, 9136-20
- Poster Presentations Cancelled:
9136-52, 9126-72

CONF. 9137-ORGANIC PHOTONICS

- Poster Presentations Cancelled:
9137-39, 9137-47

CONF. 9138-OPTICS, PHOTONICS & DIGITAL TECHNOLOGIES FOR MULTIMEDIA APPLICATIONS

- Poster Presentations Cancelled:
9138-24
- Session 3—presentation listing sequence update:
15:50: 9138-10
16:10: 9138-9
16:30: 9138-8
16:50: 9138-11
17:10: 9138-12

CONF. 9139-REAL-TIME IMAGE & VIDEO PROCESSING

- Poster Presentations Cancelled:
9139-18

CONF. 9141-OPTICAL SENSING & DETECTION

- Oral Presentations Cancelled:
9141-27, 9141-60