



Fraunhofer Institut  
Angewandte Optik  
und Feinmechanik

## **SID-ME Chapter Spring Meeting 2008**

### **Microdisplays, Applications, and Optics**

# **PRELIMINARY PROGRAM**



**March 13–14, 2008**

**Abbe Center, Beutenberg Campus, Jena, Germany**

The SID Mid Europe Chapter organizes yearly spring and fall meetings with technical and scientific presentations, attracting many European display professionals. The 2008 spring meeting will focus on different aspects of microdisplays and their applications. Basic technology will be covered as well as optical components and systems or applications in multimedia and niche markets. 32 paper from 8 countries will be presented at the meeting. An industrial exhibition will take place during the meeting.

One additional highlight of the conference will be the evening event, a dinner show in the Zeiss Planetarium including a demonstration of the newest projection technology (all dome laser image projection). The meeting will close on the second day with a visit to the laboratories of the Fraunhofer IOF.

### **Conference Chair**

Prof. Dr. Andreas Tünnermann, Fraunhofer IOF, Jena, Germany

### **Executive Chair**

Dr. Stefan Riehemann, Fraunhofer IOF, Jena, Germany

### **Program Committee**

Jyrki Kimmel, Nokia, Tampere, Finland

Dr. Gunther Notni, Fraunhofer IOF, Jena, Germany

Prof. Dr. Herbert De Smet, Ghent University, Belgium

Prof. Dr. Ian Underwood, MicroEmissive Displays, Edinburgh, Scotland

### **Registration**

Only online registration is available. Please use the conference web-page [www.iof.fraunhofer.de/sid](http://www.iof.fraunhofer.de/sid) .

The registration fee is 180 € (before Feb 10, 2008) or 200 € (after Feb 10, 2008) and includes attendance to the lectures, CD-ROM with abstracts, coffee breaks, quick lunch on both days, evening event, and lab visit.

### **Hotel Reservation**

Information is given on the conference web-page [www.iof.fraunhofer.de/sid](http://www.iof.fraunhofer.de/sid) .

### **Deadlines**

Early registration	Feb 10, 2008
Hotel reservation	Feb 15, 2008

### **Contact**

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## Preliminary Program

Thursday, 13/03/2008	
11:00 – 12:30	<b>Registration, Exhibition</b> , Quick Lunch
12:30 – 12:50	<b>Welcome</b> Opening by Prof. Dr. Andreas Tünnermann and Dr. Stefan Riehemann
12:50 – 13:50	<b>Session 1 “Micro Display Applications I”</b>
	Jyrki Kimmel, Nokia Research Center, Finland „Microdisplays in mobile multimedia”
	Roland Höfling, Vialux GmbH, Germany „New emerging applications of DLP® microdisplays”
	Peter Schreiber, Fraunhofer IOF, Germany „Laser display with single mirror MEMS scanner”
13:50 – 14:50	<b>Session 2 “Light Sources”</b>
	Roland Schulz, OSRAM OS, Germany “Laser light sources for micro-display illumination”
	Sergey Kudaev, Fraunhofer IOF, Germany “LED light sources for projection displays”
	Kenneth Li, Wavien, Inc., USA “Dual paraboloid reflector lamp system with life extension for projection display applications”
14:50 – 16:50	<b>Exhibition, Poster Session</b> , Coffee
16:50 – 18:30	<b>Session 3 “Optics – Design &amp; Fabrication”</b>
	John. G. Smith, MEMS Optical Inc., USA „High efficiency micro-optics for illumination in projection systems”
	Dirk Maes, BARCO, Belgium „Dual TIR prism, a way to boost the performance of a DLP projector”
	Hüseyin Murat, ELINTEC/TFCG Microsystems, Belgium “Two LCOS full color projector with efficient LED illumination engine”
	Khaled Sarayeddine, Optinvent, France „Slim rear projection for laser TV”
	Michael Degel, Jenoptik AT GmbH, Germany „Laser cutting of display glass”
19:30 – 24:00	Evening Event (Dinner Show at the Zeiss Planetarium)

Friday, 14/03/2008	
9:00 – 10:40	<b>Session 4 “Micro Display Applications II”</b>
	Lars Runge, SyproOptics GmbH, Germany „Requirements for projectors for the consumer market”
	Mark McCallum, Forth Dimension Displays Ltd., Scotland “The use of LCOS microdisplays in 3D optical surface metrology systems”
	Stefan Riehemann, Fraunhofer IOF, Germany “Microstructure and 3D-measurement systems with microdisplays”
	Sven Krüger, HOLOEYE Systems, Inc., USA “Holographic projection using LCOS displays”
	Lawrence Bogaert, Vrije Universiteit Brussel, Belgium „Stereoscopic projection display with LCOS panels and LED light sources”
10:40 – 11:40	<b>Exhibition, Poster Session, Coffee</b>
	11:10 – 11:40 SID-ME Chapter General Meeting
11:40 – 12:00	<b>Session 5 “Student Award”</b>
	Student Award Presentation
12:00 – 13:20	<b>Session 6 “OLED Micro Displays”</b>
	Uwe Vogel, Fraunhofer IPMS, Germany „OLED microdisplays: Advanced functionality and systems”
	Ian Underwood, MicroEmissive Displays, Scotland „HYPOLED – High performance OLED microdisplays for see-through mobile multimedia applications”
	Jan Blochwitz-Nimoth, Novaled AG, Germany “Novaled PIN OLED technology for display applications”
	Alastair Buckley, MicroEmissive Displays, Scotland „Some limitations of the conventional „lifetime“ parameter when applied to OLED displays and beginning to develop a real-world equivalent“
13:20 – 14:20	<b>Exhibition, Quick Lunch</b>
14:30 – 16:30	Visit to the Labs of Fraunhofer IOF

<b>Poster Session</b>	
	Thursday 13/03/2008 14:50 – 16:50
	Friday 14/03/2007 10:40 – 11:40
1	Jérémie Bouchaud, WTC - Wicht Technologie Consulting, Germany „MEMS microdisplays: overview and markets“
2	Pierre Boher, ELDIM, France „Optimization of viewing angle instrument for characterization of 3D displays“
3	Eric Schwabedissen, Instruments Systems GmbH, Germany „High resolution imaging photometers and colorimeters – state of the art and limiting factors“
4	Constanze Grossmann, Fraunhofer IOF, Germany „Microdisplays used in medical applications“
5	A.Smirnov, Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus „SiLEDs for NTE microdisplays“
6	Daniel Kreye, Fraunhofer IPMS, Germany “Microdisplays with highly efficient small molecules OLEDs”
7	Ian Underwood, MicroEmissive Displays, Scotland „A colour QVGA P-OLED microdisplay“
8	Suvra Sarkar, Indian Center for Advancement in Research and Education, India „Field emission displays using carbon nonotube emitters in insulated field emitter units“
9	Pieter Bauwens, Universiteit Gent, Belgium „Driving a modular passive-matrix display“
10	Ann Monté, Universiteit Gent, Belgium „Design of a new power efficient high-voltage bistable display driver“
11	Albrecht Fischer, Emeritus, Dortmund, Germany „My life for flat display research, reminiscences“
12	Maxim Tomilin, University of Information Technology St. Petersburg, Russia „How to display biological objects E-field“

## Exhibition

An industrial exhibition will be held in conjunction with the conference.

List of exhibiting companies/organizations (alphabetical order):

- \* **BFI OPTILAS GmbH**, Puchheim, Germany
- \* **DFF, German Flat Panel Display Forum**, Frankfurt, Germany
- \* **Forth Dimension Displays Ltd.**, Dalgety Bay, Scotland
- \* **Fraunhofer IOF**, Jena, Germany
- \* **HOLOEYE Systems Inc.**, Westlake Village, CA, USA
- \* **Jenoptik LOS**, Jena, Germany
- \* **MicroEmissive Displays**, Edinburgh, Scotland
- \* **optonet**, Jena, Germany
- \* **ViALUX GmbH**, Chemnitz, Germany
- \* **VISITECH AS**, Drammen, Norway

## Sponsors

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