

REGISTRATION

To register, please use the online registration form at
www.fep.fraunhofer.de/ipd

For participation and registration to Industry Partners Day on September 28, 2016 we charge a participant fee of 85 €.

The number of participants is limited.
The latest program will always be available at
www.fep.fraunhofer.de/ipd until September 28, 2016.

Next to this an accompanying exhibition with selected booths will take place. For companies a participation as a sponsor is possible. Please do not hesitate to contact us, if you are interested in sponsoring the event!

CONTACT

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DIRECTIONS

Fraunhofer FEP
Winterbergstraße 28 | 01277 Dresden, Germany
Detailed directions to the Fraunhofer FEP in Dresden:
www.fep.fraunhofer.de



4TH INDUSTRY PARTNERS DAY

Medicine

SEPTEMBER 28, 2016 | FRAUNHOFER FEP



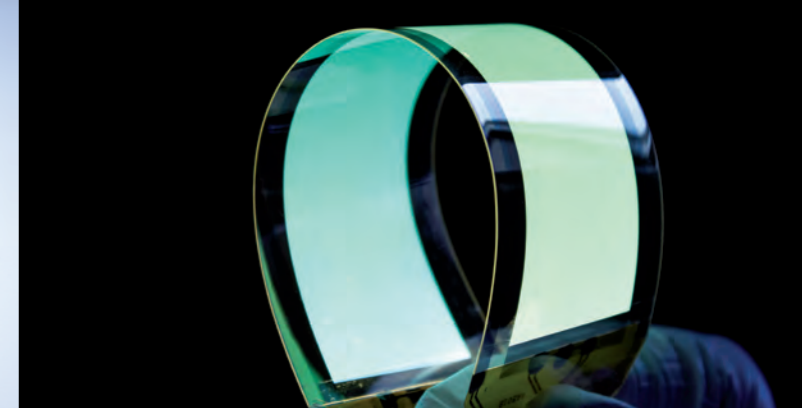
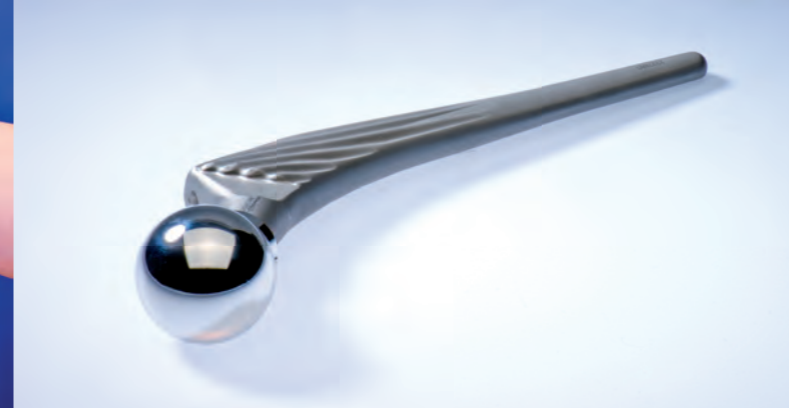
WELCOME

The growth in the medical technology sector is being accompanied by a great variety of innovations. The development of new products and medical equipment is often based on specially customized starting materials.

At Fraunhofer FEP we have been developing technologies for modifying and coating surfaces for many years. Furthermore we are researching and developing solutions in the field of organic electronics, which can be applied for medical applications e.g. in form of organic sensorics or organic light emitting diodes (OLED).

We are increasingly using this know-how for medical technology and are in able to use our core technologies for applying biofunctional coatings to surfaces and to customize surface properties e.g. to improve the biocompatibility of implants. Furthermore the detection of contaminations or the cleaning and sterilization in the medical sector are important research topics of Fraunhofer FEP.

We invite all partners and customers to participate in our 4th Industry Partners Day on September 28, 2016 in Dresden. The event will give you the opportunity to inform yourself about latest trends in the field of electron beam and plasma technology and organic electronics especially for medical applications. Together with our partners we will give an insight to these topics with a wide range of interesting presentations. Furthermore you will have the chance to gain an exclusive insight into current research activities of Fraunhofer FEP and to have a look at our latest demonstrators and exhibits by participating in a labtour to our biomedical laboratory and REAMODE. Next to this an accompanying exhibition with selected booths will take place. The Industry Partners day offers the opportunity for networking and lively exchange between entrepreneurs, researchers and interested people of the medical sector.



PRELIMINARY PROGRAM

- 08.00 Registration
- 08.30 Opening
Dr. Uwe Vogel, Fraunhofer FEP
- 08.45 New sensors for biotechnology applications as a basis for new technologies in the pharma industry
Ralf Kretzschmar, Pharmatec GmbH
- 09.15 **BIOSENSORICS AND MICRODISPLAYS**
- 09.20 Photo-organic sensors in biotechnology – applications and challenges
Felix Krujatz, Technical University Dresden
- 09.35 Structured organic photodetectors via orthogonal photolithography
Matthias Jahnel, Fraunhofer FEP
- 09.50 OLED microdisplays for medical and ophthalmic applications
Dr. Gunther Haas, MICROOLED
- 10.05 OLED Microdisplays – Enabling Advanced Near-to-Eye (NTE) Displays, Sensors, and Beyond
Dr. Uwe Vogel, Fraunhofer FEP
- 10.20 Coffee Break

- 10.45 **LIGHT IN MEDICINE**
- 10.50 Light induced wound healing
Prof. Dr. Norbert Gretz, Heidelberg University
- 11.05 OLED light application in medicine and cytotoxicity of the materials
Dr. Jacqueline Hauptmann, Fraunhofer FEP
- 11.20 Biodegradable electronics
Dr. Michael Hoffmann, Fraunhofer FEP
- 11.40 Official award ceremony of ideas competition winners "flex-MED competition"
- 12.15 Lunch
- 13.15 **CLEANING AND STERILIZATION**
- 13.20 Surface analytical tools for the detection of contamination on medical devices
Dr. Uwe Vohrer, Fraunhofer IGB
- 13.35 SteriHealth® – a compact e-beam sterilization system
Frank-Holm Rögner, Fraunhofer FEP
- 13.50 Sterilization of tissue transplants with electron beam
Dr. Jessy Schönfelder, Fraunhofer FEP
- 14.05 Special requirements for cleaning applications in the medical industry
Hannes Köble, Dürr Ecoclean GmbH
- 14.20 Coffee Break

- 14.40 **COATINGS FOR MEDICINE**
- 14.45 Photocatalytic coating of implants
Dr. Heidrun Klostermann, Fraunhofer FEP
- 15.00 Ceramic Surfaces in Joint Replacement
Thomas Oberbach, Mathys Orthopädie GmbH
- 15.15 Coatings for stents in the coronary heart disease
Dr. Andreas Mucha, MAT Dresden GmbH
- 15.30 Preparation of polymer composites with silver and copper nanoparticles by EB PVD
Oleksii Gornostai, International Center for electron-beam technology E.O. Paton welding institute NAS
- 15.45 Silver-copper mixed layers as an example for antibacterial coatings
Gaby Gotzmann, Fraunhofer FEP
- 16.15 **LAB TOURS**
- Biomedical Laboratory
and
REAMODE Laboratory unit for modifying organic materials using accelerated electrons
- 17.00 End

SPONSORS



FLEX-MED IDEA CONTEST

flex-MED – what is it?

Flex stands for flexible electronics – electronics which is extremely light and easy to shape. Flexible electronics is bendable and can be applied on various surfaces regardless of their shape.

MED stands for medicine/healthcare where flexible electronics soon will play an important role.

The aim of flex-MED is to unite those two areas and to generate new ideas for applications, products and concepts.

For inspiration check out the potential of flexible electronics on our website.

For detailed information about the contest, requirements and prizes go to: flexmed.flex-plus.de.