

## Monday, November 13

12.15 *Opening*

p.m. **Dr. Thomas Dietrich**,  
IVAM Mictotechnology Network, Dortmund, DE

### Session: Printed Electronics and Printed Diagnostics



**Session Chair:** Ilkka Kaisto,  
VTT Technical Research Centre of Finland, Oulu, FI

12.20 *High-accuracy Dispensing in Medical Device Manufacturing*  
p.m. **Markku Käsäkoski**, Ginolis Oy, Oulu, FI

12.50 *Printed Solution by Molex*  
p.m. **Wladimir Punt**, Molex Deutschland GmbH, Walldorf, DE

1.10 *Challenges and Solutions in the R2R Manufacturing of Medical Coatings and Sensors*  
p.m. **Dr. Martin Busch**,  
Coatema Coating Machinery GmbH, Dormagen, DE

1.30 *High-precision 3D Printing in Medical Technology*  
p.m. **Benedikt Stender**,  
Multiphoton Optics GmbH, Würzburg, DE

1.50 *Challenges in Designing Printed Smart Insole as a Medical Device*  
p.m. **Eero Kaikkonen**, Movesole Oy, Oulu, FI

2.10 *Printed and Hybrid Electronics for Healthcare and Wearable Technology*  
p.m. **Ralph Liedert**,  
VTT Technical Research Centre of Finland, Oulu, FI

2.30 **Break**  
p.m.

### France Session



**Session Chair:** Mona Okroy-Hellweg,  
IVAM Mictotechnology Network, Dortmund, DE

3.00 *Burgundy-Franche-Comté: International Network Territory for Medical Technology*  
p.m. **Céline Bouafia**,  
Pôle de compétitivité des Microtechniques, Besançon, FR

3.30 *Added-value of Research in a Business Partnership*  
p.m. **Claire Flipo**, CG.Tec injection, Frasné, FR

4.00 *Microfluidic Technologies: Application to Biology and Healthcare*  
p.m. **Anne Le Nel**, Fluigent SA, Villejuif, FR

4.30 *Compensating Inventions Made by Employees: Comparing France and Germany*  
p.m. **Fred Sonnenberg**,  
24IP Law Group France SARL, Paris, FR



## Tuesday, November 14

### Session: Laser and Photonics Applications: EPIC Tech Watch



**Session Chair:** Dr. Jose Pozo,  
EPIC - European Photonics Industry Consortium, Eindhoven, NL

11.00 *High Brightness for Ultra-thin Fibers - a NEW RGB LED Light Source for Endoillumination*  
a.m. **Martin Kuchenbecker**, Berliner Glas KGaA, Berlin, DE

11.20 *Flexible with Light - Laser Applications for Production*  
a.m. **Maximilian Brosda**, Fraunhofer ILT, Aachen, DE

11.40 *Corrosion-free Black Marking of Stainless Steel Medical Instruments*  
a.m. **Jonathan Magee**, Coherent | Rofin, Gilching, DE

12.00 *Medical Device Requirements to OEM Manufacturers - An OEM View with Examples for Endoscopy and Ophthalmology*  
p.m. **Dr. Ingolf Reischel**, JENOPTIK, Triptis, DE

12.20 *The Use of Optical Filters in Point-of-Care Devices*  
p.m. **Dr. Georg Draude**,  
Chroma Technology GmbH, Olching, DE

12.40 *Photonic Integration for Biomedical Applications*  
p.m. **Marco Garcia**, VLC Photonics S.L., Valencia, ES

1.00 *Transforming Photonic Components into*  
p.m. *Photonic Devices for Medical Applications*  
**Lee Carroll**, Tyndall National Institute, Cork, IE

1.20 *Photonic Integration:*  
p.m. *Novel Routes to Point-of-Care Devices*  
**Dr. Douwe Geuzebroek**,  
LioniX International BV, Enschede, NL

1.40 *Innovative Diagnostic Tool for Nash and*  
p.m. *Infectious Diseases by MIR Spectroscopy*  
**Hugues Tariel**, DIAFIR, Rennes, FR

2.00 *Aspheric Visions for Life-Science*  
p.m. **Ulrike Fuchs**, Asphericon, Jena, DE

2.20  
p.m. **Break**

**Session:**  
**Medizinprodukte 2020 - Überall intelligent**



**Session Chair:** Christine Kallmayer,  
Fraunhofer IZM, Berlin, DE

2.40 *Die neue MDR und ihre Auswirkung*  
p.m. *auf intelligente Medizinprodukte*  
**Prof. Christian Johner**,  
Johner Institut GmbH, Konstanz, DE

3.05 *Implantate zur Unterstützung der Blutdruckregelung*  
p.m. **Dr. Dennis Plachta**, Neuroloop GmbH, Freiburg, DE

3.30 *Mikrofluidische Systeme für*  
p.m. *Point-of-Care- und Invitro-Diagnostik*  
**Dr. Holger Becker**,  
microfluidic ChipShop GmbH, Jena, DE

3.55 *Intelligente Systeme vom*  
p.m. *„Embedded Katheter“ bis zum „Wearable“*  
**Prof. Markus Detert**,  
Otto von Guericke University Magdeburg, Magdeburg, DE

4.20 *Wearables für medizinische Einsatzszenarien*  
p.m. **Christine Kallmayer**, Fraunhofer IZM, Berlin, DE

4.45 **Panel-Diskussion zum Thema**  
p.m. **„Medizinprodukte 2020 -  
Überall und immer intelligent“**

**Wednesday, November 15**

**Session:**



**Smart Sensor Solutions I**

**Session Chair:** Dr. Thomas R. Dietrich,  
IVAM Mictotechnology Network, Dortmund, DE

10.30 *Custom-made Nanocoatings*  
a.m. **Dr. Anke Schuetz-Trilling**, Surfifix BV, Wageningen, NL

10.50 *An Integrated Solution for*  
a.m. *1-French Pressure Sensing Applications*  
**Dr. Justin F. Gaynor**, Silicon Microstructures, Milpitas, US

11.10 *Sensors for People -*  
a.m. *What to Know about Body and Enviroment*  
**Dr. Thomas Knieling**, Fraunhofer ISIT, Itzehoe, DE

11.30 *Technical Glass - Structured Surface*  
a.m. *for the Perfect Touch Application*  
**Vera Hopfenziz**, Berliner Glas KGaA, Berlin, DE

11.50 *Location-independent Acquisition of Process*  
a.m. *Measurement Signals for Novel Bioreactor Systems*  
**Dr. Christian Hedayat / Tobias Lüke**,  
Fraunhofer ENAS, Chemnitz, DE

12.10 *Research for Health -*  
p.m. *Smart Medical Systems for Theranostics*  
**Dr. Mario Baum / Tim Johnny Schröder**,  
Fraunhofer ENAS, Chemnitz, DE

12.30  
p.m. **Break**

**Session:**



**Smart Sensor Solutions II**

**Session Chair:** Dr. Christina Czeschik,  
Serapion Beratung & Fachredaktion, Essen, DE

1.00 *Piezoresistive Silicon Pressure*  
p.m. *Sensors for Medical Applications*  
**Dr. Olaf Brodersen**, CiS, Erfurt, DE

1.20 *Sensors as a Key Aspect for a*  
p.m. *Long-term IoT Architecture*  
**Nikolaos Valantassis-Kanellos**,  
European Sensor Systems S.A., Koropi, GR

1.40 *MEMS Sensors for Breathing Monitoring*  
p.m. **Dr. Sophie Billat**, Hahn-Schickard,  
Villingen-Schwenningen, DE

- 2.00 *Small Reliable Biosensor-enabled Solutions*  
p.m. **Gerhard Jobst**, Jobst Technologies GmbH,  
Freiburg i. Breisgau, DE
- 2.20 *Consumable Sensors for the Medical Market*  
p.m. **Dr. Daniel Träutlein**, Sensirion AG, Stäfa, CH
- 2.40 *Protected Autonomous Sensor Platform*  
p.m. **Dr. Victor Callegari**, Turck duotec GmbH, Halver, DE

3.00  
p.m. **Break**

**Session:**  
**Microprecision, Manufacturing and Processing**



**Session Chair:** Dr. Grzegorz Darlinski,  
IVAM Microtechnology Network, Dortmund, DE

- 3.30 *Differences between Medical and Industrial Power Supplies Related to Safety and EMC*  
p.m. **Frank Cubasch**,  
Magic Power Technology GmbH, Dahn, DE
- 3.50 *Parylene Conformal Coatings for Vital Medical Technologies*  
p.m. **Dick Molin**,  
Specialty Coating Systems, Inc., Indianapolis, US
- 4.10 *Novel Structural Ceramic Composites for Individualized 3D-Structures*  
p.m. **Dr. Matthias Ahlhelm**, Fraunhofer IKTS, Dresden, DE
- 4.30 *Applications of Fully-integrated Active and Passive Flow Control in the Organ-on-Chip, Analytical and Diagnostics Field*  
p.m. **Dr. Mark Olde Riekerink**,  
Micronit Microtechnologies BV, Enschede, NL
- 4.50 *Precision in Fluid Dispensing*  
p.m. **Dr. Ralf Ehret**,  
HNP Mikrosysteme GmbH, Schwerin, DE
- 5.10 *Sieves and Filters – Sieving and Analysing with Micro Holes*  
p.m. **Stefan Kaiser**, temicon GmbH, Dortmund, DE
- 5.30 *How Miniaturization Pushes PCB Innovation*  
p.m. **Romeo Premerlani**, Varioprint AG, Heiden, DE

**Thursday, November 16**

**Session: Microfluidic-enabled Integrated Diagnostic and Analytical Systems**



**Session Chair:**

Dr. Holger Becker, microfluidic ChipShop, Jena, DE

- 11.00 *MicrobeDx – Microfluidic-enhanced Antibiotic Stewardship*  
a.m. **Dr. David Haake**, MicrobeDx, Los Angeles, US
- 11.10 *Sniffphone: Smart Phone for Disease Detection from Exhaled Breath*  
a.m. **Prof. Dr. Hossam Haick**,  
Technion - Israel Institute of Technology, Haifa, IL
- 11.30 *Liquid Biopsies Go Digital – Silicon Microfluidics as the Enabling Technology*  
a.m. **Prof. Dr. Liesbeth Lagae**, IMEC, Leuven, BE
- 11.50 *Lab-on-a-Chip Systems for DNA-based Point-of-Care Diagnostics - Use Case Scenario Diabetic Foot Ulcers*  
a.m. **Dr. Jörg Nestler / Dr. Andreas Morschhauser**,  
Fraunhofer ENAS/ BiFlow Systems GmbH,  
Chemnitz, DE
- 12.10 *Inkjet Printing as an Enabling Technology for Digitally Fabricated Lab-on-a-chip Devices*  
p.m. **Falk Kemper**, Fraunhofer IOF, Jena, DE
- 12.30 *Visualization of Cell Signaling on Microfluidic Chips*  
p.m. **Prof. Dr. Ralf Mrowka**,  
University Hospital Jena, Jena, DE
- 12.50 *Organ-On-Chip Models: New Opportunities in Biomedical Research*  
p.m. **Knut Rennert**, University Hospital Jena, Jena, DE

1.10  
p.m. **Panel Discussion**

