

Monday, November 1312.15 *Opening*

p.m. **Dr. Thomas Dietrich,**
IVAM Microtechnology 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
p.m. Medical Device Manufacturing*
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
p.m. Manufacturing of Medical Coatings and Sensors*
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
p.m. Insole as a Medical Device*
Eero Kaikkonen, Movesole Oy, Oulu, FI

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

2.30
p.m. **Break**

France Session

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

3.00 *Burgundy-Franche-Comté: International
p.m. Network Territory for Medical Technology*
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:
p.m. Application to Biology and Healthcare*
Anne Le Nel, Fluigent SA, Villejuif, FR

4.30 *Compensating Inventions Made by
p.m. Employees: Comparing France and Germany*
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
a.m. LED Light Source for Endoillumination*
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
a.m. Stainless Steel Medical Instruments*
Jonathan Magee, Coherent | Rofin, Gilching, DE

12.00 *Medical Device Requirements to OEM
p.m. Manufacturers - An OEM View with Examples for
Endoscopy and Ophthalmology*
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
p.m. Biomedical Applications*
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 Microtechnology 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 Environment*
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 Jonny 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. **Grégory Schaffner**, 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*
p.m. *Power Supplies Related to Safety and EMC*
Frank Cubasch,
Magic Power Technology GmbH, Dahn, DE

3.50 *Parylene Conformal Coatings*
p.m. *for Vital Medical Technologies*
Dick Molin,
Specialty Coating Systems, Inc., Indianapolis, US

4.10 *Novel Structural Ceramic Composites*
p.m. *for Individualized 3D-Structures*
Dr. Matthias Ahlhelm, Fraunhofer IKTS, Dresden, DE

4.30 *Applications of Fully-integrated Active and Passive*
p.m. *Flow Control in the Organ-on-Chip, Analytical and*
Diagnostics Field
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 –*
p.m. *Sieving and Analysing with Micro Holes*
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 –*
a.m. *Microfluidic-enhanced Antibiotic Stewardship*
Dr. David Haake, MicrobeDx, Los Angeles, US

11.10 *Sniffphone: Smart Phone for*
a.m. *Disease Detection from Exhaled Breath*
Prof. Dr. Hossam Haick,
Technion - Israel Institute of Technology, Haifa, IL

11.30 *Liquid Biopsies Go Digital – Silicon*
a.m. *Microfluidics as the Enabling Technology*
Prof. Dr. Liesbeth Lagae, IMEC, Leuven, BE

11.50 *Lab-on-a-Chip Systems for DNA-based Point-of-Care*
a.m. *Diagnostics - Use Case Scenario Diabetic Foot Ulcers*
Dr. Jörg Nestler / Dr. Andreas Morschhauser,
Fraunhofer ENAS/ BiFlow Systems GmbH,
Chemnitz, DE

12.10 *Inkjet Printing as an Enabling Technology for Digitally*
p.m. *Fabricated Lab-on-a-chip Devices*
Falk Kemper, Fraunhofer IOF, Jena, DE

12.30 *Visualization of Cell Signaling on*
p.m. *Microfluidic Chips*
Prof. Dr. Ralf Mrowka,
University Hospital Jena, Jena, DE

12.50 *Organ-On-Chip Models:*
p.m. *New Opportunities in Biomedical Research*
Knut Rennert, University Hospital Jena, Jena, DE

1.10
p.m. **Panel Discussion**

