

## Monday, November 14

11.15 *Opening*

a.m. **Dr. Thomas Dietrich**, IVAM, Dortmund, DE

### Session:

#### Laser and Photonics Applications



**Session Chair:** Dr. Alexander Olowinsky,  
Fraunhofer Institute for Laser Technology ILT, Aachen, DE

11.20 **Keynote:** *Isolation of Single Circulating*

a.m. *Tumor Cells from 7.5 ml of Human Blood*

**Dr. Michael Baßler**, Fraunhofer ICT-IMM, Mainz, DE

11.50 *Autoclavable Zoom Lenses*

a.m. **Martin Kuchenbecker**, Berliner Glas KGaA Herbert  
Kubatz GmbH & Co., Berlin, DE

12.10 *UV - LEDs in Medical Applications*

p.m. **Dr. Olaf Brodersen**,

CiS Forschungsinstitut für Mikrosensorik GmbH, Erfurt, DE

12.30 *Lasers in Medical Technology –*

p.m. *Current Trends and Challenges*

**Maximilian Brosda**, Fraunhofer Institute for Laser  
Technology ILT, Aachen, DE

### Session:

#### Printed Electronics and Printed Diagnostics



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

1.20 **Keynote:** *Disposable Diagnostics for*

p.m. *Future Wellness and Healthcare*

**Marika Kurkinen**, VTT, Oulu, FI

1.50 *Using Movesole's Smart Insoles in Healthcare*

p.m. **Eero Kaikkonen**, Movesole Oy, Oulu, FI

2.10 *Lateral Flow Device Assembly*

p.m. **Jorma Venalainen**, Ginolis Ltd., Oulu, FI

2.30 *Medical Sensing Products*

p.m. *with Intelligence or Intelligent Design?*

**Antti Tauriainen**, Screentec Oy, Oulu, FI

2.50 *Innovation in 3D Printed Wearables*

p.m. **Kristel Van den Bergh**, Materialise NV, Leuven, BE

3.10 *Optical 3D Inspection of Printed Electronics using*  
p.m. *FocalSpec LCI Sensor Technology*  
**Sauli Törmälä**, Focalspec Oy, Oulu, FI

**Session: Mikrosysteme im Blick  
der Demografischen Entwicklung**



**Session Chairs:** Harald Pötter / Erik Jung, Fraunhofer Institute  
for Reliability and Microintegration IZM, Berlin, DE

4.00 *Elektroniksysteme in der Demenzversorgung*  
p.m. **Matthias Lorenz**, AEMtec GmbH, Berlin, DE

4.25 *Physiologisches Monitoring*  
p.m. *in Anwendung für die alternde Generation*  
**Dr. Andreas Caduff**, Biovotion AG, Zurich, CH

4.50 *„Large Area“ Elektronik-Integration für das medizinische IoT*  
p.m. **Christine Kallmayer**, Fraunhofer Institute for Reliability  
and Microintegration IZM, Berlin, DE

5.15 *PYRAMID – Umkehr der Versorgungspyramide*  
p.m. *durch mikroelektronische Helfer*  
**Dr. Markus Detert**, Otto von Guericke University  
Magdeburg, Magdeburg, DE

5.40 *Können mikroelektronische „Wearable-“*  
p.m. *Assistenzsysteme einen signifikanten Beitrag*  
*zur Gesundheitsvorsorge leisten?*  
**Diskussion mit Publikumsbeteiligung**

**IVAM Focus Group Wearable Electronics**

The forum includes a special 2-hour meeting of the IVAM



Focus Group.

Session: Mikrosysteme im Blick der  
Demografischen Entwicklung



Tuesday, November 15

**Session:**  
**Smart Sensor Solutions**



**Session Chair:** Dr. Jörg Nestler,  
BiFlow Systems GmbH, Chemnitz, DE

11.00 *Miniature Camera Modules for Medical Endoscopy*  
a.m. **Martin Wäny**, AWAIBA Lda., Nürnberg, DE

11.20 *Open Lab-on-a-Chip Platform for*  
a.m. *Quick Biosensor and Assay Integration*  
**Dr. Jörg Nestler**, BiFlow Systems GmbH, Chemnitz, DE

11.40 *Biosensor Development Strategies*  
a.m. *for Next Generation Wearables*  
**Dr. Silvia Generelli**, CSEM Centre Suisse  
d'Electronique et de Microtechnique SA, Landquart, CH

12.00 *New Flexible Hand Grip Sensor*  
p.m. **Dr. Georg Astl**, Eoswiss Engineering Sarl, Geneve, CH

12.20 *Micro- and Nanotechnologies for Smart Sensor Solutions*  
p.m. **Marco Meinig**, Fraunhofer Institute for Electronic Nano  
Systems ENAS, Chemnitz, DE

12.40 *An Endoscopic Probe with Optical and*  
p.m. *Ultrasound Functionalities*  
**Dr. Nooshin Saeidi**, Fraunhofer Institute for Electronic  
Nano Systems ENAS, Chemnitz, DE

1.00  
p.m. Break

**Session Chair:** Thomas Meissner,  
Hahn-Schickard, Stuttgart, DE

1.30 *Integrated Disposable Biochip*  
p.m. *Cartridge for Point of Care Diagnostics*  
**Lars Blohm**, Fraunhofer Institute for  
Silicon Technology ISIT, Itzehoe, DE

1.50 *Custom Multispectral Sensors as Alternative to High*  
p.m. *Resolution Spectrometers – what is the right Choice for*  
*your Application?*  
**Kevin Jensen**, MAZeT GmbH, Jena, DE

2.10 *Challenges and Benefits during the Implementation of*  
p.m. *RFID Sensor Technology in Medicine and Health Care*  
**Nadin Jurisch**, microsensys GmbH, Erfurt, DE

- 2.30 *Humidity and Temperature Sensors in Medical and Diagnostic Applications*  
p.m. **Dr. Daniel Träutlein**, Sensirion AG, Stäfa, CH
- 2.50 *Smart Sensor Solution: Custom-Made Nanocoatings*  
p.m. **Dr. Anke Schuetz-Trilling**, SurfiX BV, Wageningen, NL
- 3.10 *MEMS Smart Sensors for Intelligent Applications*  
p.m. **Dr. Emmanuel Zervakis**,  
European Sensor Systems, Koropi, GR
- 3.30 *Temperature Sensing in Medical Applications*  
p.m. **Rene Folle**, TE Connectivity, Wilshire, US
- 3.50 *Sensor and Pump: An Integrated Drug Delivery Module*  
p.m. **Jonas Horn**, Sensirion AG, Stäfa, CH

### Wednesday, November 16

#### Session:

#### Microprecision, Manufacturing and Processing



**Session Chair:** Mona Okroy-Hellweg,  
IVAM Microtechnology Network

- 10.50 *Customized Neural Electrodes and High Channel Hermetic Packaging for Implantable Devices*  
a.m. **Dr. Fabian Kohler**, CorTec GmbH, Freiburg, DE
- 11.10 *Integration of Electronics in Textiles*  
a.m. **Dr. Alexander Steinecker**, CSEM, Alpnach, CH
- 11.30 *Micro Precision Machining and Micro Injection Molding for Medical Applications*  
a.m. **Marcel Röder**, Hahn-Schickard, Stuttgart, DE
- 11.50 *Microtechnological Solutions for Cardiac Infarction and Blood Glucose Monitoring*  
a.m. **Kay-Uwe Klepzig**,  
JENOPTIK Polymer Systems, Jena, DE
- 12.10 *Applications of Fully Integrated Active and Passive Flow Control in the Organ-on-a-chip, Analytical and Diagnostics Field.*  
p.m. **Dr. Mark Olde Riekerink**, Micronit GmbH, Enschede, NL
- 12.30 *High-Precision 3D Printing for Biomedical Applications*  
p.m. **Dr. Ruth Houbertz**,  
Multiphoton Optics GmbH, Würzburg, DE

12.50 *Parylene Conformal Coatings: Protecting*  
 p.m. *Leading-Edge Medical Technologies*  
**Dick Molin**, Specialty Coating Systems, Indianapolis, US

1.10 *Large-volume Replication of Micro and*  
 p.m. *Nano Structured Surfaces*  
**Markus Rawert**, temicon GmbH, Dortmund, DE

1.30 *Autoclavable Overmolding of Electronics –*  
 p.m. *Precise, Miniaturised, Cost-effective*  
**Dr. Victor Callegari**, TURCK duotec GmbH, Halver, DE

**Japan Session (\* = interpreted into Japanese)**



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

2.10 *\* Opening*  
 p.m. **Dr. Andreas Moerke**, Messe Düsseldorf Japan, JP  
**Dr. Thomas Dietrich**, IVAM, Dortmund, DE

2.20 *\* Marktzulassung und Zertifizierung von*  
 p.m. *Medizintechnikprodukten in Deutschland/Europa*  
**TBA**

2.50 *\* Vertriebsstrukturen der Medizintechnik*  
 p.m. *in Deutschland/Europa*  
**Markus Thamm**, Salcon International, Heidelberg, DE

3.20 *\* Success Story*  
 p.m. **Birger Nispel**, AirMed PLUS GmbH, Bochum, DE

3.50 *Der Japanische Markt allgemein und seine*  
 p.m. *Bedeutung für die Erschließung Asiens*  
**Dr. Andreas Moerke**, Messe Düsseldorf Japan, JP

4.20 *Overview of the Medical Device Market in Japan*  
 p.m. **Michio Hayashi**, JETRO Tokyo, JP

4.50 *Zulassung von Medizintechnikprodukten in Japan*  
 p.m. **TBA**

5.20 *Closing*  
 p.m. **Dr. Andreas Moerke**, Messe Düsseldorf Japan, DE  
**Dr. Thomas Dietrich**, IVAM, DE

Thursday, November 17

**Session: Microfluidic Enabled  
Integrated Diagnostic and Analytical Systems**



**Session Chair:** Dr. Claudia Gärtner,  
microfluidic ChipShop GmbH, Jena, Germany, DE

- 11.00 *Microfluidic & Diagnostics – Hot Topics*  
a.m. **Dr. Holger Becker**, microfluidic ChipShop, Jena, DE
- 11.10 *NEDXA – Nano Electronic Diagnostic Array: Taking  
Clinical Diagnostics to the Next Level*  
a.m. **Dr. María Luisa Villahermosa**, Genomica, Madrid, ES
- 11.30 *The RNA Challenge:*  
a.m. *Detection of RNA-Viruses for Food Safety*  
**Dr. Holger Becker**, microfluidic ChipShop, Jena, DE
- 11.50 *Systox – Individualized Microfluidic Multiorgan-Chip  
for the Analysis of Substance Induced Toxicity*  
a.m. **Prof. Andreas Kurtz**, Charité, Berlin, DE
- 12.10 *Pocket-Point-of-care System for the Label  
Free Detection of Bacterial Pathogens*  
p.m. **Bart Geers**, University of Gent, Gent, BE
- 12.30 *RAMAN CTC: Enrichment, Identification and Sorting of  
Circulating Tumor Cells in a RAMAN Enhanced Microflu-  
idic System*  
p.m. **Dr. Joachim Clement**, University Hospital Jena, Jena, DE
- 12.50 *Optical Multichannel Microfluidic Biochip  
for Real Time Monitoring of  
Immunosuppressant Drugs*  
p.m. **Ambra Giannetti**, IFAC-CNR, Sesto Fiorentino, IT
- 1.10 *TeaRx – A Novel Product for Diagnostics and  
Treatment of Dry Eye Syndrome*  
p.m. **Nimrod Bin-Nun**, DiagnosTear, Tel Aviv, IL
- 1.40 *Dentirisk Compact Microfluidic System for Molecular  
Based Parodontitis-Testing*  
p.m. **Susanne Freyberg**, microfluidic ChipShop, Jena, DE
- 2.00 **Round Table Discussion**  
p.m.