

Wednesday, November 12

10:50 a.m.	Opening	Dr. Thomas R. Dietrich, IVAM Microtechnology Network, Dortmund, DE
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Session:**Laser & Photonics Applications****Session chair:** Dr. Alexander Olowinsky, Fraunhofer Institute for Laser Technology ILT, Aachen, DE

11.00 a.m.	3D Laser Polishing sylvas	Benjamin Burns, Unitechnologies SA, Gals, CH
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11.20 a.m.	Bio-Compatible Microsystem Packaging of VCSEL Laser for Implantable Devices	Dr. Alexander Steinecker, CSEM, Alpnach-Dorf, CH
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11.40 p.m.	Focus-tunable Lenses as Enabling Technology for Biomedical Imaging Application	David Leuenberger, Optotune AG, Dietikon, CH
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12.00 p.m.	Multipurpose CB Certified Medical Laser Platform for Fast Product Launch	Sampsa Kuusiluoma, Modulight, Inc, Tampere, FI
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12.20 p.m.	Optical Sensor Development - from Concept to Series Production	Peter Preuß, Berliner Glas KGaA & Co., Berlin, DE
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12.40 p.m.	Micro-Vision-System with Integrated and Flexible Controllable Illumination for Life Science Applications	Jan Fehse, FISBA OPTIK AG, St. Gallen, CH
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1.00 p.m.	Industrial Micro Machining with Ultra Short Pulsed Lasers	Florian Lendner, GFH GmbH, Deggendorf, DE
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1.20 p.m.	New Perspectives in Laser Processing for Medical Product Manufacturing	Maximilian Brosda, Fraunhofer Institute for Laser Technology ILT, Aachen, DE
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Session:**Printed Electronics for Diagnostics Applications****Session chair:** Ilkka Kaisto, VTT Technical Research Centre of Finland, Oulu, FI

1.50 p.m.	Electronic Fluid Flow Control in a Microfluidic Channel	Markku Käsäkoski, Ginolis Oy, Oulunsalo, FI
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2.10 p.m.	Using Smart Insole in Rehabilitation by Utilizing Printed Electronics	Eero Kaikkonen, Movesole Oy, Oulu, FI
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2.30 p.m.	Idea to Production: Disposable Printed Sensor Solutions for Healthcare, Wellness and Environmental Measurements	Antti Tauriainen, Screentec Oy, Oulu, FI
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2.50 p.m.	High Speed Surface Micro Topography Measurements for the Quality Control of Printed Electronics Production.	Heimo Keränen, Focalspec Oy, Oulu, FI
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3.10 p.m.	PrintoCent towards Industrialization of Printed Intelligence	Ilkka Kaisto, VTT, Oulu, FI
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3.30 p.m.	Full Integration of Medical and Cosmetic Devices on Power Source Platform	Jouni Heinonen, Enfucell Oy, Vantaa, FI
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Session:**Themenkomplex Bildgebung in der Medizintechnik**

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

4.00 p.m.	Mikrosysteme in der Bildgebenden Medizintechnik	Harald Pötter, Fraunhofer IZM, Berlin, DE
4.25 p.m.	Keramodule kleiner als 1mm, hergestellt in Wafer Level Technologie im Dienste der medizinischen Endoskopie. Technologie, Anwendungen und Ausblick	Martin Wány, Awaiba, Yverdon-Les-Bains, CH
4.50 p.m.	Vom Schlüsselloch- zur Panorama-Endoskopie	Thomas Wittenberg, Fraunhofer IIS, Erlangen, DE
5.15 p.m.	Linsenlose Mikroskopie für die Zelldiagnostik	Moritz Hubl, TU Berlin, Berlin, DE
5.40 p.m.	Vom visuellen Bild zur umfassenden Diagnose – Mikrosystemische Lösungen für die bildhafte, multidimensionale Diagnostik	Erik Jung, Fraunhofer IZM, Berlin, DE

Thursday, November 13**Session:****Microprecision, Manufacturing and Processing**

Session chair: Dr. Thomas R. Dietrich, IVAM Microtechnology Network, Dortmund, DE

11.00 a.m.	Keynote: Large Volume Manufacturing of sub- μ m Functional Structures Made of non-CMOS Compatible Materials on Glass	Dr. Alexios Paul Tzannis, IMT Masken und Teilungen AG, Greifensee, CH
11.30 a.m.	New Possibilities with Disposable Liquid Flow Sensors	Daniel Längle, Sensirion AG, Staefa ZH, CH
11.50 a.m.	Successful Development and Assembly of Smart Micro Products with Desing for Six Sigma	Winfried Korb, arteos GmbH, Seligenstadt, DE
12.10 p.m.	ProLab: A Flexible, Automated Manufacturing Approach for Structuring, Loading, and Sealing of Lab-on-a-Chip Systems	Dr. Daniel Mark, HSG-IMIT, Villingen-Schwenningen, DE
12.30 p.m.	Quality Assurance for Medical Devices Using Optical Multisensor Metrology	Dr. Dorothee Ehmer, FRT GmbH, Bergisch Gladbach, DE
12.50 p.m.	High Precise and Low Stress Polymer Components for Optoelectronic Systems in Health Care & Life Science Applications.	Kay-Uwe Klepzig, Jenoptik Polymer Systems GmbH
13.10 p.m.	Break	
Session chair: Dr. Jörg Nestler, Technische Universität Chemnitz & BiFlow Systems GmbH, Chemnitz, DE		
1.30 p.m.	Micro-Magnetofluidics: A Powerful Tool for Medical Lab-on-a-chip Applications	Dr. Olaf Ueberschär, Fraunhofer Institute for Electronic Nano Systems ENAS, Chemnitz, DE
1.50 p.m.	Sensor Controlled Pump with Disposable Pump Element	Dr. Karl-Peter Fritz, HSG-IMAT, Stuttgart, DE

2.10 p.m.	mta Volumetric Micro-Dispensing	Bruno Thomann, Unitechnologies SA, Gals, CH
2.30 p.m.	Micro Servo Motors	Martin Frank, Namiki Precision of Europe S.A., Dusseldorf, DE
2.50 p.m.	Thin Film Based Technologies and Systems for Medical Applications	Dr. Alexander Kaiser, Cicor Advanced Microelectronics & Substrates, Radeberg, DE

**Session:
USA Session**



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

3.40 p.m.	Market Access and Reimbursement for US Medical Device Companies in Germany	Dr. Benjamin Schulz, Kalms & Partner Consulting, Berlin, DE
4.00 p.m.	LCS in CT Scan Systems	Christoph Bauckhage, Laird, Earth City, MO, US
4.20 p.m.	Relevance of Conformal Coatings in Implantable Medical Electronics	Juan Gudino, Specialty Coating Systems, Indianapolis, IN, US
4.40 p.m.	On-board System Integration of Functions* on a Disposable Lab-on-a-Chip (*pumping, valving, mixing, heating, distribution, dispensing...)	Andreas Freitag, Invenios, Santa Barbara, CA, US
5.00 p.m.	The Upcoming Medical Device Regulation of the EU and its Impact on US Companies	Michael Kauch, Kalms & Partner Consulting, Berlin, DE

Friday, November 14

Session: Lab-on-a-Chip – Miniaturized Tools for Diagnostic Applications and Organs on Chip



Session chair: Dr. Claudia Gärtner, microfluidic ChipShop GmbH, Jena, DE

11.00 a.m.	Tools and Technologies for Diagnostics and Cells on Chip	Dr. Claudia Gärtner, microfluidic ChipShop GmbH, Jena, DE
11.10 a.m.	Additive Fabrication of Functional Components, Structures and Surfaces for Lab-on-a-Chip Systems with Inkjet Printing	Dr. Erik Beckert, Fraunhofer Institute for Applied Optics and Precision Engineering IOF, Jena, DE
11.30 a.m.	HLA-Diagnostics on Chip – from Sample Preparation to Real-time PCR	Dr. Andreas Willems, inno-train Diagnostik GmbH, Kronberg, DE
11.50 a.m.	Visualizing Cell Signaling on Microfluidic Chips	Dr. Stefanie Reuter, Experimentelle Nephrologie, Jena University Hospital, Jena, DE
12.10 p.m.	Use of Biochip-based Organ Models in Basic Biomedical Research	Dr. Alexander S. Mosig, Institute of Biochemistry II, Jena University Hospital, Jena, DE
12.30 p.m.	Biochip Based Platform for Tumor Associated miRNA Analysis	Dr. Thomas Brandstetter, IMTEK University of Freiburg, Freiburg, DE
12.50 p.m.	Artificial Micro Blood-Brain Barrier: a Microfluidic Platform for Drug Development with Active Cell Assembly	Heiko Kiesling, Universität Tübingen, Reutlingen, DE
1.10 p.m.	Organs on chip - Tool-box and Accessories for Cell Culture and Organs on Chip	Dr. Claudia Gärtner, microfluidic ChipShop GmbH, Jena, Germany
1.40 p.m.	Round table discussion	