

MONTAG / MONDAY 12 NOVEMBER 2018

COMPAMED



HIGH-TECH

FORUM



COMPAMED HIGH-TECH
FORUM by IVAM
Halle / Hall 8a G40



Freier Zugang mit gültigem Messticket bzw. Ausstellerausweis!
Free entrance with a valid trade fair ticket or exhibitor badge!

12:15 h



Opening

Dr. Thomas R. Dietrich, IVAM Microtechnology
Network, Dortmund, DE

Session:

Printed Electronics, 3-D Diagnostics,
3-D Printing

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

12:20 – 12:40 h



Keynote: Advanced R2R manufacturing technologies for medical applications

Thomas Exlager,
Coatema Coating Machinery GmbH, Dormagen, DE

12:40 – 13:00 h



Quo vadis – High-precision 3D printing in medical technology

Yannick Dupuis, Multiphoton Optics GmbH,
Wuerzburg, DE

13:00 – 13:20 h



Roll-to-roll for medical disposable manufacturing

Antti Tauriainen, Screentec Oy, Oulu, FI

13:20 – 13:40 h



Automation in disposable medical device manufacturing

Markku Känsäkoski, Ginolis Oy, Oulu, FI

13:40 – 14:00 h



Elastomeric smart patches by roll-to-roll

Prof. Jussi Hiltunen, VTT, Oulu, FI

14:00 – 14:20 h



Using smart insole inside and outside of hospital

Eero Kaikkonen, Movesole Oy, Oulu, FI

14:20 – 14:40 h

Break

Swiss Session

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

14:40 – 15:10 h



Keynote: Photonics Switzerland: How hidden champions enable disruptive medical technology

Franc Uffer, St.GallenBodenseeArea,
St. Gallen, CH

15:10 – 15:40 h



Patent and trademarks in Switzerland – What is different in the EU?

Sebastian Tegethoff, 24IP Law Group Sonnenberg
Fortmann, Berlin, DE

15:40 – 16:00 h



Aspheric optical designs in endoscopy

Jan Fehse, Fisba AG, St. Gallen, CH

16:00 – 16:20 h



Technologies for the medtech and life sciences industry

Alexander Steinecker, CSEM Zentrum
Zentralschweiz, Alpnach Dorf, CH

16:20 – 16:40 h



Multilayer coating for miniaturized and implanted devices

Hicham Damsir / Patrick Schneider, Comelec,
La Chaux-de-Fonds, CH

16:40 – 17:00



Molecular superglue: A Swiss-army-knife coating platform for medical devices and diagnostics

Dr. Christian Mathis, SuSoS AG,
Duebendorf, CH

Session:**Laser and photonics applications I –
Laser surgery: Clinical applications and
novel developments**

Session Chair: Achim Lenenbach, Fraunhofer
Institute for Laser Technology ILT, Aachen, DE

10:20 – 10:40 h

**A novel diode-pumped erbium laser and its
potential for medical laser applications**

Dr. Karl Stock, ILM Universität Ulm, Ulm, DE

10:40 – 11:00 h

**Laser resection of lung metastases**

Dr. Armin Warth, KLS Martin GmbH + Co. KG,
Freiburg, DE

11:00 – 11:20 h

**2 μ m laser surgery – Current clinical applications**

Dr. Heinrich-Otto Teichmann, LISA laser products
OHG, Katlenburg-Lindau, DE

11:20 – 11:40 h

**Frontiers of femtosecond laser applications in
ophthalmology**

Prof. Dr. Holger Lubatschowski, ROWIAK GmbH,
Hannover, DE

11:40 – 12:00 h

**Cutting bone tissue with picosecond lasers for
neurosurgery**

Dr. Achim Lenenbach, Fraunhofer Institute for
Laser Technology ILT, Aachen, DE

12:00 – 12:20 h



Break

Session:**Laser and photonics applications II –
EPIC tech watch**

Session Chair: Dr. Jose Pozo, EPIC – European
Photonics Industry Consortium, Barcelone, ES

12:20 – 12:50 h

**Keynote: Integrated photonics for innovative life
science applications enabled through PIX4life**

Dr. Hilde Jans, PIX4life, Heverlee, BE

12:50 – 13:05 h

**Photonics circuits in surgery, treatment and
diagnostics**

Ana Gonzalez, PIXAPP/EPIC, Barcelona, ES

13:05 – 13:20 h

**Optical engineering for world-class medical
instruments and products enabled by light**
Lidia Pérez Briquets, ASE Optics, Barcelona, ES

13:20 – 13:35 h

**New generation of active implants and micro-
fluidics applications by glass-micro-bonding**
Ville Hevonkorpi, Primoceler, Tampere, FI

13:35 – 13:50 h

**Power of small in microscopy – Digital imaging
platform JENOPTIK SYIONS**

Dr. Andrei Tschernook, JENOPTIK Optical
Systems GmbH, Jena, DE

13:50 – 14:05 h

**Magic hollow micro-needle for diabetes**

Yoichi Oikawa, Think-Lands Co., Ltd., Kanagawa, JP

14:05 h – 14:20 h

**Polarization and polarizers for medical
applications**

Ralf Werner, CODIXX AG, Barleben, DE

14:20 – 14:35 h

**Small, smaller, smallest – Laser-based production
of medical devices**

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

14:35 – 14:50 h

**Plastic welding for medical application**

Frauke Legewie, Leister Technologies Deutschland
GmbH, Solingen, DE

14:50 – 15:20 h

Break

DIENSTAG / TUESDAY
13 NOVEMBER 2018

Session:

A platform for ultrasensitive point-of-care diagnostics for infectious diseases – The PoC-ID Project

Session Chairs: Patric Salomon, enablingMNT GmbH, Berlin, DE

Dr. Erik Jung, Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, DE

15:20 – 15:40 h

Point-of-care diagnostics for infectious diseases – The clinical perspective

Dr. Gerben Ferwerda, Radboud University Clinic, Nijmegen, NL

15:40 – 16:00 h

Microfluidics in point-of-care:

Concepts & systems and an approach to standardisation

Henne van Heeren, enablingMNT The Netherlands, Dordrecht, NL

16:00 – 16:20 h

A platform for ultrasensitive point-of-care diagnostics for infectious diseases – The PoC-ID Project

Dr. Tanja Braun, TU Berlin, Berlin, DE

16:20 – 16:40 h

A novel ultrasensitive bio graphene field effect transistor for PoC-ID

Prof. Andrey Tuchanin, FSU Jena, Jena, DE

16:40 – 17:00 h

The benefits of using aptamers and carbon nanomembranes in PoC-ID

Dr. Axel Vater, Aptarion biotech AG, Berlin, DE

17:00 – 17:20 h

Clinical testing results achieved with the new PoC-ID point-of-care system and future perspectives

Dr. Marien De Jonge, Radboud University Clinic, Nijmegen, NL

MITTWOCH / WEDNESDAY
14 NOVEMBER 2018

Session:

Smart Sensor Solutions I

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

10:20 – 10:50 h



Keynote: Technological advances in next-generation devices for personalized healthcare

Dr. Nick Van Helleputte, imec, Leuven, BE

10:50 – 11:10 h



Wireless energy transfer for medical smart textiles

Dr. Christian Hedayat/Dominik Schröder, Fraunhofer Institute for Electronic Nano Systems ENAS, Paderborn, DE

11:10 – 11:30 h



Creating medical devices for IoMT – The internet of medical things

Guy Vinograd, Softimize Ltd., Petah Tikva, IL

11:30 – 11:50



UV-LED diagnostics in medical applications

Dr. Christian Möller, CIS Forschungsinstitut für Mikrosensorik GmbH, Erfurt, DE

11:50 – 12:10 h



Tailor-made coatings for smart sensors

Dr. Anke Schütz-Trilling, Surfex BV, Wageningen, NL

12:10 – 12:30 h



e-skin – Next-generation smart apparel for disease prevention

Ichiro Amimori, Xenoma Inc., Tokyo, JP

12:30 – 12:40 h



Break

Session:**Smart Sensor Solutions II**

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

12:40 – 13:00 h 

Individualized medical technology – Precise and personalized treatment supported by micro and nanosystems

Dr. Mario Baum, Fraunhofer Institute for Electronic Nano Systems ENAS, Chemnitz, DE

13:00 – 13:20 h 

Ultrasound – Medical application of piezoelectric components

Annemarie Oesterle, PI Ceramic GmbH, Karlsruhe, DE

13:20 – 13:40 h 

Silicon capacitive pressure sensors for medical applications

Nikolas Valantassis-Kanellos, European Sensor Systems (ESS) S.A., Athens, GR

13:40 – 14:00 h 

Fast multiplex-based point-of-care analysis of pathogens with pandemic potential

Dr. Tobias Schunck, Fraunhofer Institute for Microengineering and Microsystems IMM, Mainz, DE

14:00 – 14:20 h 

Smart reliable biosensor enabled solutions

Gerhard Jobst, Jobst Technologies GmbH, Freiburg, DE

14:20 – 14:40 h 

How can miniaturized sensors be protected?

Dr. Victor Callegari, Turck duotec GmbH, Halver, DE

14:40 – 14:50 h

Break**Session:**

Microprecision, manufacturing and processing

Session Chair: Katrin Neureiter,
 IVAM Microtechnology Network, Dortmund, DE

14:50 – 15:10 h 

Ceramics additive manufacturing and process combinations in biomedical and medical technology

Dr. Matthias Ahlhelm, Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Dresden, DE

15:10 – 15:30 h 

The new Berliner Glas “Universal alignment tool” – A smart solution for high precision

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

15:30 – 15:50 h 

500,000 rpm brushless electrical motor for medical application

Dr. Luc Burdet, Electromag SA, Ecublens, CH

15:50 – 16:10 h 

Development and industrialization of saving life stand for accurate aortic dissection in patients with high risk and contra-indication for surgery

Kazuyuki Abe, Yamanouchi Co., Ltd., Kanagawa, JP

16:10 – 16:30 h 

Polymer materials and processes for precision optical components

Dr. Markus Cremer, Viaoptic, Wetzlar, DE

16:30 – 16:50 h 


Pitfalls in fluidic design for precision dosing

Dr. Ralf Ehret, HNP Mikrosysteme GmbH, Schwerin, DE

16:50 – 17:10 h 

Processing of membranes with conical holes for selective filtration of specific cell types

Timo Noll, temicon GmbH, Freiburg, DE

17:10 – 17:30 h 

A high-performance conformal coating for medical implantables

Dick Molin, Specialty Coating Systems, Indianapolis, US

DONNERSTAG / THURSDAY 15 NOVEMBER 2018

Session:

Microfluidics enabling new products

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

11:00 – 11:10 h



Introductory Remarks: From chip-in-a-lab to real lab-on-a-chip systems

Dr. Claudia Gärtner, microfluidic ChipShop GmbH,
Jena, DE

11:10 – 11:30 h



Drop by drop – Facing the challenge in the small-volume range from pico to nano in automation

Dr. Eckhard Nordhoff, M2-Automation, Berlin, DE

11:30 – 11:50 h



Microarray-based diagnostic system for zoonotic pathogens

Dr. Andrea Csaki, Leibnitz Institut für Photonische Technologien, Jena, DE

11:50 – 12:10 h



Tumor-associated miRNA analysis with an integrated microfluidic cartridge

Dr. Thomas Brandstetter, IMTEK, Freiburg, DE

12:10 – 12:30 h



Highly integrated microfluidic cartridges:

Challenges and manufacturing solutions

Dr. Claudia Gärtner, microfluidic ChipShop GmbH,
Jena, DE

12:30 – 12:50 h



From microfluidic modules to a monolithic system design

Dr. Carmen Streich, Bartels Mikrotechnik GmbH,
Dortmund, DE

12:50 – 13:10 h



Microfluidic systems for leukaemia diagnostics and nanopharmaceutical production

Dr. Heike Kreher/Michael Hüntemann,
Micronit GmbH, Dortmund, DE

13:10 – 13:30 h

Break

Session:

EU Medical Device Regulation

Session Chair: Dr. Christine Neuy,
microTEC Südwest e.V., Freiburg, DE
Dr. Thomas R. Dietrich,
IVAM Microtechnology Network, Dortmund, DE

Teilnahme für Forschungsinstitute

13:30 h – 15:00 h



Anforderung an die medizinische Forschung – Auswirkungen auf Forschungsinstitute und Projektförderung

Dr. Christine Neuy, microTEC Südwest e.V.,
Freiburg, DE
Dr. Thomas R. Dietrich, IVAM Microtechnology
Network, Dortmund, DE

Stand: September 2018 / Änderungen vorbehalten!
Das aktuelle Programm finden Sie im Internet unter:
www.compamed.de/CHF1

Status: September 2018 / Subject to change without notice!
The current programme can be found online at:
www.compamed.de/CHF2