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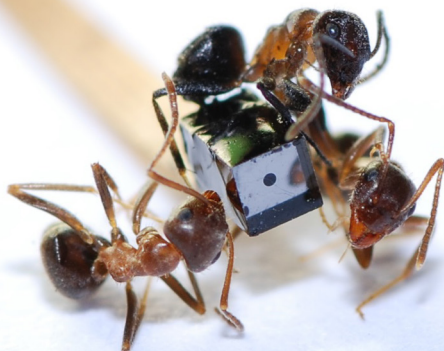


COMPAMED/MEDICA

November 13-16, 2017

Hall 8a, Booth F19, F29, F34, F35, F39, G19, H19, H23, H29

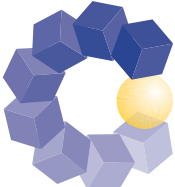

Source: ams Sensors Germany GmbH (booth H23.7)



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IVAM Product Market  
High-tech for Medical Devices  
Hall 8a

Forum Program:

<b>COMPAMED</b>	<b>HIGH-TECH FORUM</b>
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## Product Market High-tech for Medical Devices

### Welcome,

to the joint pavillion of the IVAM Microtechnology Network, the Product Market 'High-tech for Medical Devices'!



In Hall 8a, the IVAM pavillion showcases solutions for medical technology on 700 sqm of space. The key technologies to these solutions are

- microtechnology
- nanotechnology
- MEMS
- photonics and
- advanced materials.

53 international exhibitors from Germany, Switzerland, France, the USA, the Netherlands, Austria, Great Britain, Greece and Spain will present innovations that constantly make medical technology products safer, cheaper and more reliable, for example

- miniaturized components
- high-tech electronics
- innovative laser processes
- functional coatings
- smart sensors
- high-precision structuring, measuring and screening processes



Source: microLIQUID. (booth F34.1)



The IVAM exhibitor catalog includes all profiles of this year's exhibitors and will help you plan your visit in hall 8a.

**We are looking forward to meeting you in the IVAM Business Lounge, hall 8a, booth F29!**

Your IVAM Team



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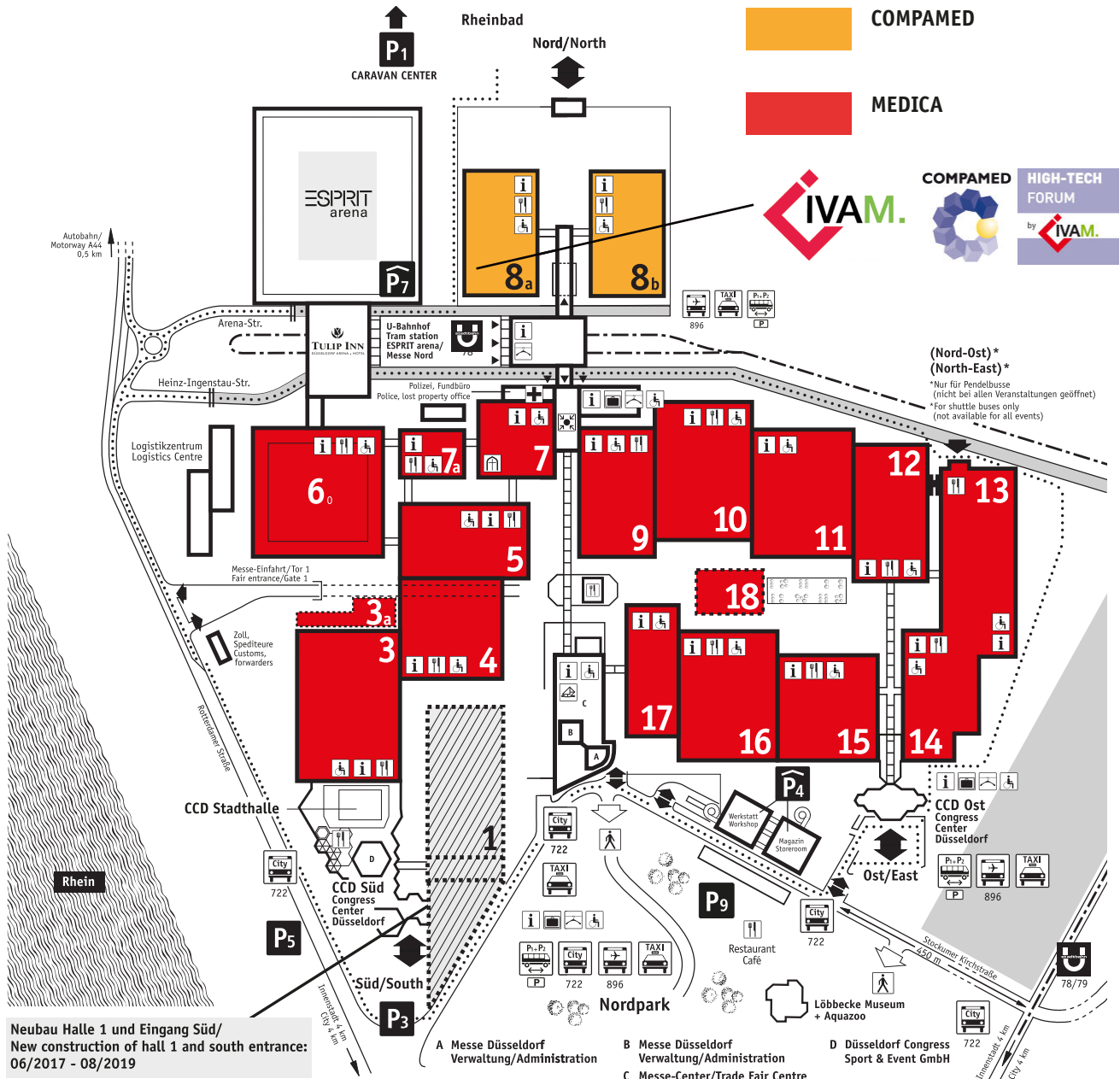
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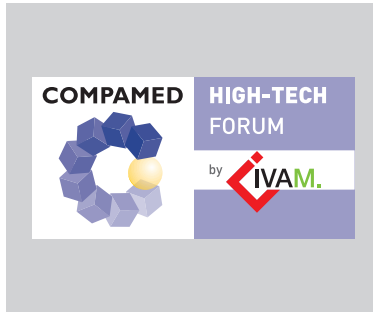
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## G40



## F39

<b>F39.1</b> Varioprint
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Storage

## F35

<b>F35.1</b> Magic Power Technology	<b>F35.4</b> Fraunhofer ISIT
Storage	Storage
Meeting Room	<b>F35.2</b> AEMtec & exheet electronics

## F34

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<b>F34.2</b> BEUTTER	<b>F34.5</b> CODIXX
Storage	<b>F34.6</b> ILFA
<b>F34.3</b> Silicon Micro-structures	<b>F34.7</b> Multiphoton Optics

## H29

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<b>H29.2</b> microsensys	<b>H29.5</b> temicon
<b>H29.3</b> Jobst Technologies & IST	<b>H29.6</b> RKT

## H23

<b>H23.1</b> CIS Forschungsinstitut	<b>H23.4</b> Surfix
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Storage	<b>H23.7</b> ams Sensors Germany
<b>H23.3</b> Physik Instrumente	

## H19

<b>H19.1</b> Optiprint	<b>H19.4</b> Electromag
<b>H19.2</b> Volpi	<b>H19.5</b> CSEM
Storage	<b>H19.6</b> SENSIRION
<b>H19.3</b> Turck duotec	

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## G19

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<b>G19.4</b> Fisba Optik	<b>G19.5</b> Jenoptik Healthcare & Industry	<b>G19.6</b> Berliner Glas & SwissOptic

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**Specialty Coating Systems**  
Woking, GB

F19.1

Contact:  
Dick Molin

Tel.: +44 1483 541 000  
Fax: +44 1483 541 050  
www.scscoatings.com  
scssales@scscoatings.com

- Conformal Coatings
- Parylene
- Biocompatible and Biostable



**STATICE**  
Besançon, FR

F29.4

Contact:  
Anne Legain

Tel.: +33 38 148 434 3  
Fax: +33 38 153 352 3  
www.statice.com  
commercial@statice.com

- Contract R&D
- Contract Manufacturing
- Advanced Medical Devices



**Turck duotec GmbH**  
Halver, DE

H19.3

Contact:  
Dr. Mareike Haaß

Tel.: +49 2353 139 00  
Fax: +49 2353 139 065 19  
www.turck-duotec.com  
sales@turck-duotec.com

- Electronics development, electronics manufacturing
- Autoclavable thermoplastic overmoulding, dip coating
- Fluoropolymer coating



**Varioprint AG**  
Heiden, CH

F39.1

Contact:  
Herbert Garielli

Tel.: +41 71 898 818 1

www.varioprint.ch  
office@varioprint.ch

- Implantable rigid-flex PCB
- Electro-optical PCB
- High frequency PCB



**Surfix BV**  
Wageningen, NL

H23.4

Contact:  
Dr. Luc Scheres

Tel.: +31 854 881 285

www.surfix.nl  
info@surfix.nl

- Chemical surface modification
- Innovative nanocoatings custom-made
- Local and material-selective



**SwissOptic AG**  
Heerbrugg, CH

G19.6

Contact:  
Asim Rexhepi

Tel.: +41 71 727 379 2  
Fax: +41 71 727 468 6  
www.swissopic.com  
asim.rexhepi@swissopic.com

- Optical Key Components, Assemblies & Systems
- From Concept to Volume Production
- Customer-Specific



**Volpi AG**  
Schlieren, CH

H19.2

Contact:  
Dr. Harald Kraushaar

Tel.: +41 44 73 243 43  
Fax: +41 44 73 243 44  
www.volpi-group.ch  
mail@volpi-group.ch

- In Vitro Diagnostics
- Life Science Tools
- Medical Technology



**Zünd precision optics**  
Diepoldsau, CH

F29.5

Contact:  
Oscar Turienzo

Tel.: +41 71 737 740 2  
Fax: +41 71 737 741 0  
www.zuendoptics.com  
o.turienzo@zuendoptics.com

- Prism, beamsplitter, mirror, window, corner cubes, wedges
- Planar optical components and subassemblies
- Worldclass in microoptical

## Monday, November 13

12.15 *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 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**

### France Session



**Session Chair:** Mona Okroy-Hellweg,  
IVAM Microtechnology 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. **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 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. **Grégoire 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**



# High-tech for Medical Devices

November 13-16, 2017  
Hall 8a, Booth F19, F29, F34, F35, F39, G19, H19, H23, H29

## OPENING HOURS:

November 13-16, 2017, 10 a.m.- 6:00 p.m.

## FURTHER INFORMATION

IVAM Product Market High-tech for Medical Devices

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Source: microsensys - RFID in motion  
(booth H29.2)