



November 20-22, 2013
Hall 8a, Booth F19, F29, F34, F36, G19, H19, H23, H29



Source: RISBA OPTIK AG (G19.4)

EXHIBITOR CATALOG 2013

Product Market
High-tech for Medical Devices

Forum Program:

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Product Market High-tech for Medical Devices

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Product Market High-tech for Medical Devices Micro, Nano & Material Technology

Dear Visitor,

The healthcare sector is worldwide one of the most important and fast growing economic branches. Especially, this applies to the Medical Technology. The continuous improvement of medical devices is due to innovations in micro and nanotechnology and results in less cost, improved methods of treatment and better patient care.

The IVAM Microtechnology Network – as a constantly growing network in the field of microtechnology, nanotechnology and advanced materials – supports companies and institutes from all over the world. To bring suppliers and users of high-tech together and to connect innovative companies and institutes from all over the world is one of the major activities of IVAM. In addition to that IVAM's main goal is to fully satisfy its exhibitors and guests. True to the motto **“We make your business happen”** we boost your business and attract customers to your individual booth. This is why exhibitors, members and partners build on our know-how and exhibit at the IVAM Product Markets.

During this year's COMPAMED IVAM will be very pleased to support more than 40 companies and institutes located at the IVAM Product Market “High-tech for Medical Devices” in hall 8a. The following pages of the IVAM exhibitor catalog provide an overview of the international companies from Germany, Switzerland, the Netherlands, Spain, France, Greece, Finland, the United Kingdom, the USA and Japan which will be exhibiting at this year's IVAM Product Market within the COMPAMED.

Be sure to take the advantage of the corresponding “COMPAMED HIGH-TECH FORUM” which enables you to gain exclusive insights into the innovative world of micro and nanotechnology and to be better informed about current advances in the medical technology.

The Product Market is placed in hall 8a (F19, F29, F34, F36 G19, H19, H23, H29). Please find IVAM at the Business Lounge F 29. We will be pleased to be of assistance if you should have any further questions.

We are looking forward to meeting you at COMPAMED!

Your IVAM Team

Exhibitors of the IVAM Joint Pavilion



2E mechatronic GmbH & Co. KG
Kirchheim unter Teck, DE

H19.3



Aceos GmbH
Fürth, DE

H23.7

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www.2e-mechatronic.de
info@2e-mechatronic.de

- MID-Technology
- Sensor Technology
- High-Precision Injection Moulding

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Cornelius.michaela@aerolution.de

- Xmed
- DXmed
- DXV

Exhibitors of the IVAM Joint Pavilion



CiS Forschungsinstitut für Mikrosensorik und Photovoltaik GmbH
Erfurt, DE

H23.1

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www.cismst.de
arkath@cismst.de

- Microsensors for Cardiovascular Signs Monitoring
- Pupil Width Sensor
- Optical and Micromechanical Sensors for Microfluidics



EDC GmbH
Langenhagen, DE

F29.5

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Tel.: +49 511 9721 377
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- Microfluidic
- Analytic
- Injection Moulding



Bartels Mikrotechnik GmbH
Dortmund, DE

H19.4

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www.Bartels-Mikrotechnik.de
bickenbach@bartels-mikrotechnik.de

- Active Microfluidics
- Engineering Services
- Micro Pumps



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

H23.5

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medical@berlinerglas.de

- OEM manufacturer
- Optical assemblies & systems
- Design & manufacturing



ESS European Sensor Systems
Athen, DE

F29.1

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- Capacitive Pressure Sensor
- Mass Air Flow Sensor
- Accelerometer



Etchform BV
Hilversum, NL

G19.2

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- Photo Etching
- Electroforming
- Metal Precision Parts



Cambridge Technology
Bedford, MA, US

H29.2

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Tel.: +49 89 3171 070
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www.camtech.com
scanners-europe@camtech.com

- Galvo
- Scanner
- Galvanometer



CDA GmbH
Suhl OT Albrechts, DE

H29.1

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- Smart integrated systems
- Microoptics
- Microfluidics



Feinmess Dresden GmbH
Dresden, DE

H23.4

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d.boettcher@feinmess.de

- Positioning Stages
- Customized Products
- Mechatronic Systems



FISBA OPTIK AG
St. Gallen, CH

G19.4

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Tel.: +41 71 2823 131
Fax: +41 71 2823 130
www.fisba.com
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- Micro-optical systems
- Fast Axis Collimator Lenses (FAC)

Exhibitors of the IVAM Joint Pavilion



ENAS

Fraunhofer Institute for Electronic Nano Systems ENAS
Chemnitz, DE

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Fax: +49 371 45001 101
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info@enas.fraunhofer.de

- Smart systems for health monitoring
- Micro fluidics
- Printed functionalities



IFAM

Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung IFAM
Bremen, DE

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vera.friederici@ifam.fraunhofer.de

- Research & Development
- Materials characterization
- Implants and medical instruments

H23.2

G19.6

Exhibitors of the IVAM Joint Pavilion



HSG-IMIT - Institut für Mikro- und Informationstechnik der Hahn-Schickard-Gesellschaft e.V.

Villingen-Schwenningen, DE
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Monika Teichner

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info@hsg-imit.de

- Drug Delivery Devices
- Micro Medical Technology
- MEMS-based Sensors and Systems

F19.5



IMS B.V.
Aimelo, NL

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kim.nijenhuis@winn-group.com

- The Innovators in Micro Manufacturing

G19.3



ILT

Fraunhofer-Institut für Lasertechnik ILT
Aachen, DE

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Martin Wehner

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Fax: +49 241 8906 121
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- Metal and Plastics Laser Welding
- Additive Manufacturing and Functional Layers
- Medical Laser Equipment and Therapeutic Devices

F34



IZM

Fraunhofer-Institut für Zuverlässigkeit und Mikrointegration IZM
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georg.weigelt@izm.fraunhofer.de

- Electronic Packaging
- Systems Integration
- Reliability

G19.5



PRECISION ON GLASS

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Contact:
Sandra Maffezoni

Tel.: +41 44 9431 900
Fax: +41 44 9431 001
www.imtag.ch
smaffezoni@imtag.ch

- BioChips and Sensors
- Wave Guides with Gratings
- Microfluidic Components

G19.1



IVAM Microtechnology Network
Dortmund, DE

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- Technology Marketing
- International Business Contacts
- Micro/Nanotechnology- and Advanced Materials Network

F29



Leiterplattentechnik

HLT-Heissenberger Leiterplattentechnik GmbH
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- Connecting people

H19.2



HSG-IMAT – Institut für Mikroaufbautechnik der Hahn-Schickard-Gesellschaft e.V.

Stuttgart, DE
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Tel.: +49 711 685 84792
Fax: +49 711 685 83705
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fritz@hsg-imat.de

- Pumps and dosage systems
- Micro Assembly

F19.5



JENOPTIK Polymer Systems GmbH
Triptis, DE

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Fax: +49 36482 45226
www.jenoptik.com/oes_medical
medical-oes.os@jenoptik.com

- Microlenses, system integration
- Endoscopy, optoelectronic readers
- Modules for readers

F29.2



Karl Küfner KG
Albstadt, DE

Contact:
Rolf Bronner

Tel.: +49 7432 9511 92
Fax: +49 7432 9511 15
www.kuefner.com
rolf.bronner@kuefner.com

- Rescue iFil
- Tailor-made-filters, screens and strainers
- Concept, prototype, serial production

F19.5

Exhibitors of the IVAM Joint Pavilion



Micreon GmbH
Hannover, DE

F29.3

Micro Systems UK Ltd.
Warrington, GB

F19.4

Contact:
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Tel.: +49 511 2772 030
Fax: +49 511 2772 039
www.micreon.de
kamlage@micreon.de

- Laser Micromachining
- Ultrafast Lasers
- Job Shop

Contact:
Philip Tipler

Tel.: +44 1942 2909 60
Fax: +44 1942 7272 92
www.microsystems.uk.com
ptipler@microsystems.uk.com

- Micro-molding
- Micro-engineering
- High precision

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Minitubes S.A.
Grenoble Cedex 2, FR

F29.4

Contact:
Guy Mansart

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Fax: +33 456 58 58 60
www.minitubes.com
info@minitubes.com

- Small tubes, high technology



Modulight, Inc.
Tampere, FI

H29.5

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Tel.: +358 20 743 9000
Fax: +358 20 743 9009
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sampsa.kuusiluoma@modulight.com

- Medical device design and manufacturing
- OEM laser solutions for life science
- Turnkey laser systems and components



MicroE Systems
Bedford, US

H29.2



microLiquid
Mondragon, ES

F36

Contact:
Marc Rykaczewski

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Fax: +1 978 655 3238
www.microesys.com
info_europe@microesys.com

- Encoders
- Motion Control
- Motion Feedback

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Borja Barredo

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Fax: +34 943 7122 23
www.microLIQUID.com
microliquid@microluquid.com

- Microfluidics
- Labonachip
- Microfluidic valves



Numerik Jena GmbH
Jena, DE

H23.3

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Uwe Goldhorn

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Fax: +49 3641 4728 202
www.numerikjena.de
info@numerikjena.de

- Linear Encoder
- Position Encoder
- Microsensor



■ Innovative PCB Solutions

OPTIPRINT AG
Berneck, CH

H19.1

Contact:
Pascal Oberson

Tel.: +41 71 7478 686
Fax: +41 71 7478 687
www.optiprint.ch
info@optiprint.ch

- Printed Circuit Boards
- Flexible and flex-rigid printed circuit boards
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micrometal GmbH
Müllheim/Baden, DE

F19.1



Micromotion GmbH
Mainz-Gonsenheim, DE

H29.4

Contact:
Nathalie Rousseau

Tel.: +49 7631 9368 8131
Fax: +49 7631 9368 8109
www.micrometal.de
nathalie.rousseau@micrometal.de

- Micro components
- Etching
- Highly accurate

Contact:
Dipl.-Ing. Felix Kiesel

Tel.: +49 6131 6692 70
Fax: +49 6131 6692 720
www.micromotion.de
info@micromotion-gmbh.de

- Micro drive engineering
- Micro gears
- Micro positioning systems



PRONTOR GmbH
Bad Wildbad, DE

F19.2

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g.fath@prontor.de

- R&D Services
- Contract Manufacturing
- Optics & Mechatronics



PTF Pfüller GmbH & Co. KG
Stollberg, DE

H19.5

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Fax: +49 37296 92723 898
www.precision-ptf.com
o.zintl@precision-ptf.com

- CNC milling
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Exhibitors of the IVAM Joint Pavilion



**RKT Rodinger Kunststoff-
Technik GmbH**
Roding, DE

H29.6



Sensirion AG
Stäfa ZH, CH

H19.6

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Peter Wagner

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www.rkt.de
info@rkt.de

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Contact:
Barbara Thurnherr

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Fax: +41 44 3064 030
www.sensirion.com
info@sensirion.com

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- Humidity & Temperature Sensors



Serode S.A.R.L.
Pirey, FR

F29.4



**SPECIALTY COATING
SYSTEMS**
Indianapolis, US

H29.3

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Tel.: +33 381 5054 56
Fax: +33 381 5053 55
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contact@serode.fr

- Stamping
- Deep-drawing

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Juan Gudino

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Fax: +1 317 2402 739
www.scscoatings.com
jgudino@scscoatings.com

- Parylene Conformal Coatings
- Biocompatible Coatings
- Antimicrobial Parylene Technology



Taisei Kogyo Co., Ltd.
Osaka, JP

F29.6



Yole Développement
Lyon-Villeurbanne, FR

H23.6

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- Powder Metallurgy
- micro-MIM
- Porous Materialsphrase

Contact:
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www.yole.fr
clotilde.fabre@yole.fr

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Being an international association, we represent the interests of companies and institutes from approx. 20 countries.

Our members are active in the fields of microtechnology, nanotechnology and advanced materials.

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The latest news pertaining to our co-exhibitors and other events related to the COMPAMED can be accessed on our website.

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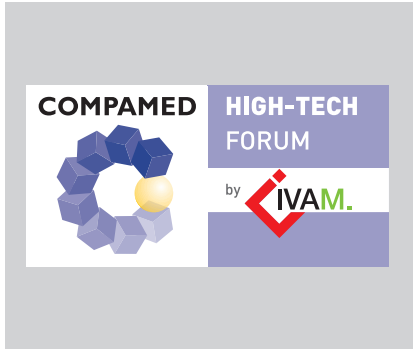
High-tech magazine »inno«

»inno« introduces new developments and technological trends in microtechnology, nanotechnology and advanced materials. The magazine's focus is on the application in different industry sectors.

Subscription at <http://www.ivam.de/news/inno>

Any questions about IVAM?

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**H29**

H29.1 CDA GmbH	H29.4 Micromotion
H29.2 MicroE Systems	H29.5 Modulight
Cambridge Technology	Meeting Room
H29.3 Specialty Coating Systems	H29.6 RKT

H23

H23.1 CiS Forschungs-institut	H23.4 Feinmess Dresden
H23.2 Fraunhofer ENAS	H23.5 Berliner Glas
Storage	H23.6 Yole Développement
H23.3 NUMERIK JENA	H23.7 ACEOS

H19

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H19.2 HLT	H19.5 PTF Pfüller
Storage	H19.6 SENSIRION
H19.3 2E mechatronic	

F29.4 Minitubes & Serode	F29.5 EDC	F29.6 Taisei Kogyo
IVAM BUSINESS LOUNGE		
F29.1 European Sensor Systems	Storage	F29.2 Jenoptik Polymer Systems
		F29.3 Micreon

F29**G19**

G19.1 IMT Masken und Teilungen	G19.2 Etchform	G19.3 IMS
G19.4 Fisba Optik	Storage	G19.5 Fraunhofer IZM
		G19.6 Fraunhofer IFAM

F19

F19.1 micrometal	F19.2 Prontor	Storage	Karl Küfner KG
F19.4 Micro Systems UK	F19.5 HSG-IMAT		HSG-IMIT

Storage	F36 microLIQUID	F34 Fraunhofer ILT
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**MEDICA**

20 – 22 November 2013 10.00 – 18.30 h

23 November 2013 10.00 – 17.00 h

www.medica.de**COMPAMED**

20 – 22 November 2013 10.00 – 18.30 h

www.compamed.de**Hallen/Halls 1, 2, 3**

Labortechnik, Diagnostica
Laboratory equipment, diagnostics

Hallen/Halls 4, 5

Physiotherapie/Orthopädietechnik
Physiotherapy/orthopaedic equipment

Hallen/Halls 5, 6, 7.0, 7.1, 7a

Bedarfs- und Verbrauchsartikel, Textilien
Disposables, commodities and consumer goods, textiles

Hallen/Halls 8a, 8b

COMPAMED
High tech solutions for medical technology

Hallen/Halls 9 – 14

Elektromedizin, Medizintechnik, OP-Technik und Einrichtung
Electromedicine, medical technology, operating technology and equipment

Krankeneinrichtung, Kommunikations-Systeme
Hospital equipment, communication systems

Halle/Hall 15

Informations- und Kommunikationstechnik
Information and communications technology

Hallen/Halls 15, 16, 17

Nationale und internationale Gemeinschaftsstände, Elektromedizin, Medizintechnik
National and international joint participants, electromedicine, medical technology

CONFERENCES & FORUMS

CCD Süd
CCD Ost
CCD Pavillon



CCD Süd



CCD Ost



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Entrance North/
Mall



Halle/Hall 3



Halle/Hall 4



Halle/Hall 6



Halle/Hall 8a



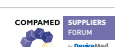
Halle/Hall 8b



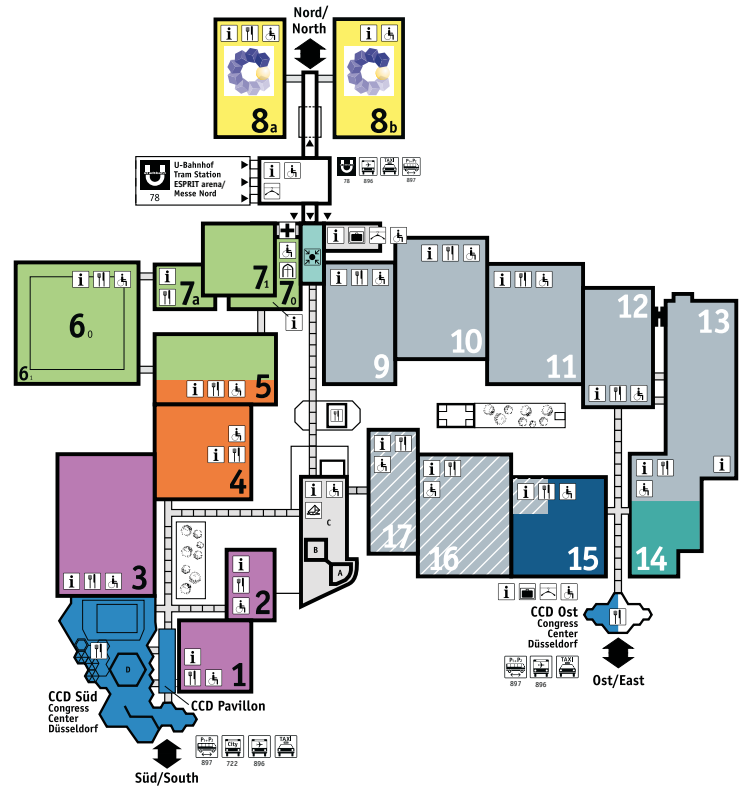
Halle/Hall 12



Halle/Hall 15



Halle/Hall 15

**Opening hours:****COMPAMED**

November 20-22, 2013

www.compamed.de

10 a.m.-6:30 p.m.

Messe Düsseldorf GmbH
Postfach 10 10 06 _ 40001 Düsseldorf _ Germany
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Messe
Düsseldorf

Wednesday, November 20		
1:05 p.m.	Opening	Dr. Frank Bartels, IVAM Microtechnology Network, Dortmund, DE
Session:		
Printed Intelligence		
Session chair: Ilkka Kaisto, PrintoCent/VTT, Oulu, FI		
1:10 p.m.	PrintoCent boosting printed rapid Diagnostics System Cases for Wellness & Medical Applications	Ilkka Kaisto, PrintoCent/VTT, Oulu, FI
1:30 p.m.	Quality Measurements for Medical Packaging and Tubing	Sauli Törmälä, Focalspec, Oulu, FI
1:50 p.m.	Mobile Microscope for Medical Applications	Jaakko Raukola, KeepLoop, Espoo, FI
2:10 p.m.	Patient Monitoring and Diagnostics; Novel Approaches by Printing for Medicine, Sports and Wellness	Antti Tauriainen, Screenshot Oy, Oulu, FI
2:30 p.m.	Integrating Micro-Electromechanical Systems into Medical Devices	Dr. Tapani Koivukangas, Lewel Group Finland Oy, Oulu, FI
2:50 p.m.	New Opportunities in Diagnostics; From New Technologies to New Applications	Dr. Raimo Korhonen, VTT-Technical Research Centre of Finland, Oulu, FI
3:10 p.m.	Printed Battery driving printed Smart Sensor System	Dr. Andreas Willert, Fraunhofer ENAS, Chemnitz, DE
Session:		
Medizinische Innovation durch Mikrotechnik		
Session chair: Harald Pötter / Erik Jung, Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, DE		
4:00 p.m.	Mikrosystemtechnik als Schlüssel für die Medizintechnik des 21. Jahrhunderts	Harald Pötter, Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, DE
4:25 p.m.	TUDOS – Kontinuierliche Dosierung von Chemotherapeutika mit höchster Präzision	Dr. Martin Richter, Fraunhofer EMFT, München, DE
4:50 p.m.	Flexible Substrate für hochanspruchsvolle Anwendungen in der Medizintechnik	Dr. Dietmar Lüttke-Notarp, NBTechnologies, Bremen, DE
5:15 p.m.	Glukosemessung in der Tränenflüssigkeit - Innovationen aus der Halbleitertechnik für die Medizin	Prof. Dr. Michael Kraft, Fraunhofer IMS, Duisburg, DE
5:40 p.m.	Mikro- und Nanotechnik: Treiber der Innovation in der medizinischen Diagnostik und Therapie	Erik Jung, Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, DE
6.00 p.m.	End of Session	

Thursday, November 21

Session:

Microprecision, Manufacturing and Processing

Session chair: Dr. Frank Bartels, Bartels Mikrotechnik GmbH, Dortmund, DE/ IVAM Microtechnology Network, Dortmund, DE

11.00 a.m.	Fabrication and Integration Issues of Highly-integrated Lab-on Chips Systems	Dr. Jörg Nestler, Fraunhofer ENAS, Chemnitz, DE
11.20 a.m.	Color Coded Micro Fluidic Signature Analysis	Dr. Angelika Murr, CDA GmbH, Suhl, DE
11.40 a.m.	Superfine Etching for Micro Applications	Christian Ehrat, micrometal GmbH, Mülheim/Baden, DE
12.00 a.m.	Photo Etching: Unlimited Possibilities	Eric Kemperman, Etchform BV, Hilversum, NL
12.20 a.m.	Microfluidic Substrates	Frédéric Breussin, Yole Développement, Lyon-Villeurbanne, FR
12.40 p.m.	Fluorescence - sensors for Microfluidic	Dr. Olaf Brodersen, CiS Forschungsinstitut für Mikrosensorik und Photovoltaik GmbH, Erfurt, DE

Session chair: Andrea Pick, Aufgeräumt – Organisation & Coaching

1.00 p.m.	Miniaturization in Medical Technology - Manufacturing of Polymer and Hybrid Microsystems	Kay-Uwe Klepzig, JENOPTIK Polymer Systems GmbH, Triptis, DE
1.20 p.m.	Antimicrobial Parylene Technology for Medical Device Applications	Juan Gudino, Specialty Coating Systems, Indianapolis/Indiana, US
1.40 p.m.	Mass Flow Controllers in Medical Applications: Fastest Response Time and Shortest Time to Market	Dr. Daniel Träutlein, Sensirion AG, Staefa ZH, CH
2.00 p.m.	Innovative MEMS Sensors for Medical Applications	Dr. Emmanuel Zervakis, ESS European Sensor Systems, Athens, GR

Session:

Laser & Photonic Applications

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

2.20 p.m.	Optical Solutions for Imaging and Diagnosis	Dr. Fabian Weise, Berliner Glas KGaA Herbert Kubatz GmbH & Co., Berlin, DE
2.40 p.m.	Photonic Microsystems for Life Science Applications	Jan Fehse, Fisba Optik AG, St.Gallen, CH
3.00 p.m.	Biophotonics Applications	Bejamin Roussel, Yole Développement, Lyon-Villeurbanne, FR
3.20 p.m.	Turnkey OEM Laser Design Service of Life Science Application	Sampsa Kuusiluoma, Modulight, Inc., Tampere, FI

Session:

Singapore Session

Session chair: TBA, IVAM Microtechnology Network, Dortmund, DE

4.00 p.m.	Opening	Terence Seow, International Enterprise Singapore, SP
4.30 p.m.	Medtech Manufacturing Technologies in Asia	Hope Technik /PSB Technologies/ Sys-Mac Automation
6.00 p.m.	End of Session	

Friday, November 22

Session:

Lab-on-a-Chip – Miniaturized Tools for Diagnostic Applications and Bioprocess Intensification

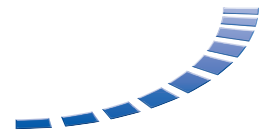
Session chair: Dr. Holger Becker,
microfluidic ChipShop GmbH, Jena, DE

11.00 a.m.	Microfluidic Driven Analytics – Tools and System – Introduction	Dr. Holger Becker, microfluidic ChipShop GmbH, Jena, DE
11.10 a.m.	Microfluidic Tools Embedded in Complete Systems	Dr. Holger Becker, microfluidic ChipShop GmbH, Jena, DE
11.30 a.m.	Precision Microfluidics: Blood/Plasma Separation using Multi-Layer Laminate Driven by Capillary Action.	Dan Winebrenner, Auer Precision, Arizona, US
11.50 a.m.	IFSA – Merger of Immunofiltration, Lab-on-a-chip Devices and Liquid Handling – Cardiac Markers on a Flexible Microfluidic Device	Dr. Peter Miethe, fzmb GmbH, Bad Langensalza, DE
12.10 a.m.	MinoLab - A Novel Magnetic Bead-based Diagnostic Platform for the Detection of Pathogen-specific Biomolecules	Dr. Christian Zilch, Magna Diagnostics GmbH, Leipzig, DE
12.30 a.m.	Controlling Biological Processes Using Micro Reactor Technology	Dr. Sven Tombrink, iX-Factory, Dortmund, DE
12.50 a.m.	Artificial Micro Organs – A Microfluidic Tool for Cell Studies in Drug Development	Dr. Julia Schütte, NMI Naturwissenschaftliches und Medizinisches Institut an der Universität Tübingen, Reutlingen, DE
1.10 p.m.	Panel Discussion	Dr. Holger Becker, microfluidic ChipShop GmbH, Jena, DE Dan Winebrenner, Auer Precision, Arizona, US Dr. Peter Miethe, fzmb GmbH, Bad Langensalza, DE Dr. Christian Zilch, Magna Diagnostics GmbH, Leipzig, DE Dr. Sven Tombrink, iX-Factory, Dortmund, DE Dr. Julia Schütte, NMI Naturwissenschaftliches und Medizinisches Institut an der Universität Tübingen, Reutlingen, DE
1.40 p.m.	End of Forum	

Your notes:

Your notes:

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High-Tech for Medical Devices

November 20-22, 2013
Hall 8a, Booth F19, F29, F34, F36, G19, H19, H23, H29

FURTHER INFORMATION

IVAM Product Market High-Tech for Medical Devices

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Source: micrometal GmbH (F19.1)