



November 14 -16, 2012

Hall 8a, Booth F19, F29, F 34, G19, H19, H23, H29



Source: Bernd Müller für HSG-IMT
(F29, 2)

EXHIBITOR CATALOG 2012

Product Market
High-tech for Medical Devices

Forum Program:

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Product Market High-tech for Medical Devices

2E mechatronic GmbH & Co. KG, DE	p. 4	H19.3
ACEOS GmbH, DE	p. 4	H23.7
Bartels Mikrotechnik GmbH, DE	p. 4	H19.4
Carl Zeiss Industrielle Messtechnik GmbH, DE	p. 4	F19.3
CDA GmbH, DE	p. 4	H29.1
CiS Forschungsinstitut für Mikrosensorik und Photovoltaik GmbH, DE	p. 4	G19.5
EDC GmbH, DE	p. 5	F29.5
Etchform BV, NL	p. 5	G19.2
Feinmess Dresden GmbH, DE	p. 5	H23.4
FISBA OPTIK AG, CH	p. 5	G19.4
Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung IFAM, DE	p. 5	G19.6
Fraunhofer-Institut für Lasertechnik ILT, DE	p. 5	F34
HSG-IMIT (Institut für Mikro- und Informationstechnik der Hahn-Schickard-Gesellschaft e.V.), DE	p. 6	F29.2
IMT Masken und Teilungen AG, CH	p. 6	G19.1
Invetech, US	p. 6	H29.2
IVAM Microtechnology Network, DE	p. 6	F29
IVAM Research, DE	p. 6	F29
iX-factory GmbH, DE	p. 6	F19.5
Leesys - Leipzig Electronic Systems, DE	p. 7	F29.6
Little Things Factory GmbH, DE	p. 7	H23.6
MDI SCHOTT Advanced Processing GmbH, DE	p. 7	F19.2
Micreon GmbH, DE	p. 7	F29.3
Micro Systems (UK) Ltd, GB	p. 7	F19.4
micrometal GmbH, DE	p. 7	F19.1
Micromotion GmbH, DE	p. 8	H19.5
Minitubes S.A., FR	p. 8	F29.4
NanoFocus AG, DE	p. 8	H23.3
NUMERIK JENA GmbH, DE	p. 8	H19.2
OPTIPRINT AG, CH	p. 8	H19.1
Philips Digital Photon Counting, DE	p. 8	H29.5
POLIGRAT GmbH, DE	p. 9	H23.2
RKT Rödinger Kunststoff-Technik GmbH, DE	p. 9	H29.6
ROFIN-BAASEL Lasertech GmbH & Co KG, DE	p. 9	H29.4
Sensirion - the sensor company, CH	p. 9	H19.6
Serode SAS, FR	p. 9	F29.4
SPECIALTY COATING SYSTEMS, US	p. 9	H29.3
Surfix BV, NL	p. 10	F19.5
Sysmelec® - Unitechnologies SA, CH	p. 10	H23.1
THEON Sensors S.A., GR	p. 10	F29.1
TURCK duotec GmbH, DE	p. 10	G19.3

Hall Plan
Fair Plan
Forum Program

p. 12-13
p. 14-15
p. 16-21

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

Dear Visitor,

Health care is probably the field which has been most profoundly changed by micro and nanotechnology. The progress diagnostics and therapy have gone through in the past twenty years is significant and would have been impossible without miniaturization. Innovations in micro and nanotechnology enable the constant improvement of medical devices which results in fewer costs and enhances methods of treatment and patient care.

With about 300 companies and institutes from about 20 countries IVAM is a constantly growing network in the field of microtechnology, nanotechnology and advanced materials. 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". The following pages of the IVAM exhibitor catalog provide an overview of the international companies from Germany, the Netherlands, France, UK, Switzerland, Greece and the USA 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, 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/T., DE

H19.3



ACEOS GmbH
Fürth, DE

H23.7

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

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- Xmed
- DXmed
- DXV

Exhibitors of the IVAM Joint Pavilion



EDC GmbH
Langenhagen, DE

F29.5



Etchform BV
Hilversum, NL

G19.2

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- Microfluidic
- Lab on a Chip
- Nano-structured Polymer Products

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- Photo Etching
- Electroforming
- Metal Precision Parts



Bartels Mikrotechnik GmbH
Dortmund, DE

H19.4



Carl Zeiss Industrielle Messtechnik GmbH
Oberkochen, DE

F19.3

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- Active Microfluidics
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Feinmess Dresden GmbH
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H23.4



FISBA OPTIK AG
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G19.4

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- Optical (Micro)Systems
- Laser Optics
- Visualisation



CDA GmbH
Suhl OT Albrechts, DE

H29.1



CIS Forschungsinstitut für Mikrosensorik und Photovoltaik GmbH
Erfurt, DE

G19.5

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- Microsensors for Cardiovascular Signs Monitoring
- Accommodation Sensors / Lab-on-Chip
- Force and Pressure Sensors



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

G19.6



Fraunhofer-Institut für Lasertechnik ILT
Aachen, DE

F34

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- Biomaterials Technology
- Implants
- Micro Technology

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- Metal and Plastics Laser Welding
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HSG-IMIT (Institut für Mikro- und Informationstechnik der Hahn-Schickard-Gesellschaft e.V.)

Villingen-Schwenningen, DE
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- Drug Delivery Devices
- Micro Medical Technology
- MEMS-based Sensors and Systems



IMT Masken und Teilungen AG
Greifensee, CH

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Fax: +41 449 431 901
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- BioChips and Sensors
- Wave Guides with Gratings
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F29.2

G19.1

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Leesys - Leipzig Electronic Systems
Leipzig, DE

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- Electronic Manufacturing Services



Little Things Factory GmbH
Elsoff, DE

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info@ltf-gmbh.de

- Microfluidic
- Lab on Chip
- Pumps

F29.6

H23.6

Invetech
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- Medical Device Design
- Product Engineering
- Contract Manufacturing



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Dortmund, DE

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

F29.2

F29



MDI SCHOTT Advanced Processing GmbH
Mainz, DE

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- Glass Processing
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- Ultrafast Laser
- Laser Job Shop

F19.2

F29.3



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- Economic Data and Surveys on Micro/ Nanotechnology and Advanced Materials
- Project Management
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iX-factory GmbH
Dortmund, DE

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info@ix-factory.de

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- Micro & Opto fluidics, etc.

F29

F19.5



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Warrington, GB

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ptipler@microsystems.uk.com

- Micro Molding
- Micro Mold Tooling
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micrometal GmbH
Müllheim/Baden, DE

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F19.4

F19.1

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H19.5



Minitubes S.A.
Grenoble Cedex 2, FR

F29.4

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g.mansart@minitubes.com

- Small Tubes, High Technology

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POLIGRAT GmbH
München, DE

H23.2



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

H29.6

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www.nanofocus.de
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**ROFIN-BAASEL Lasertechnik
GmbH & Co KG**
Starnberg, DE

H29.4



**Sensirion - the sensor
company**
Stäfa ZH, CH

H19.6

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H19.1



**Philips Digital Photon
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H29.5

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- PCB
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Contact:
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- Digital
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- Detectors



Serode SAS
Pirey, FR

F29.4



**SPECIALTY COATING
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H29.3

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- Stamping

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Lonny Wolgemuth

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H23.1



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»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. »inno« is published in German three times per year! Subscription at <http://www.ivam.de/news/inno>

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- Capacitive Pressure Sensor
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- Accelerometer



F29.1 TURCK duotec GmbH
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G19.3



H29

H29.1 CDA GmbH	H29.4 ROFIN-BAASEL Lasertech
Storage	
H29.2 Invetech	H29.5 Philips PDPc
	H29.6 RKT
H29.3 Specialty Coating Systems	

H23

H23.1 SYSMELEC	H23.4 Feinmess Dresden
	Meeting Room
H23.2 POLIGRAT	
	H23.6 Little Things Factory
Storage	
H23.3 NanoFocus	H23.7 ACEOS

H19

H19.1 Optiprint	H19.4 Bartels Mikrotechnik
	H19.5 MICROMOTION
H19.2 NUMERIK JENA	
	H19.6 SENSIRION
Storage	
H19.3 2E mechatronic	

F29.4 Minitubes & Serode	F29.5 EDC	F29.6 Leesys
IVAM BUSINESS LOUNGE		
F29.1 THEON	Storage	F29.2 HSG-IMIT
		F29.3 MICREON

F29

G19

G19.1 IMT Masken und Teilungen	G19.2 Etchform	G19.3 TURCK duotec
G19.4 Fisba Optik	Storage	G19.5 CIS Forschungs-Institut
		G19.6 Fraunhofer IFAM

F19

F19.1 micrometal	F19.2 MDI SCHOTT	F19.3 Carl Zeiss
F19.4 Micro Systems UK	Storage	F19.5 iX-factory & SurfIX

Storage	F34 Fraunhofer ILT
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**MEDICA**

14 – 16 Nov 2012
10.00 – 18.30 h

17 Nov 2012
10.00 – 17.00 h
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COMPAMED

14 – 16 Nov 2012
10.00 – 18.30 h

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Hallen/Halls 1, 2, 3

Labortechnik, Diagnostica
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Hallen/Halls 4, 5

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Physiotherapy/orthopaedic equipment

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

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Hallen/Halls 9 – 14

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Hospital equipment, communication systems

Halle/Hall 15

Informations- und Kommunikationstechnik
Information and communications technology

Hallen/Halls 16, 17

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

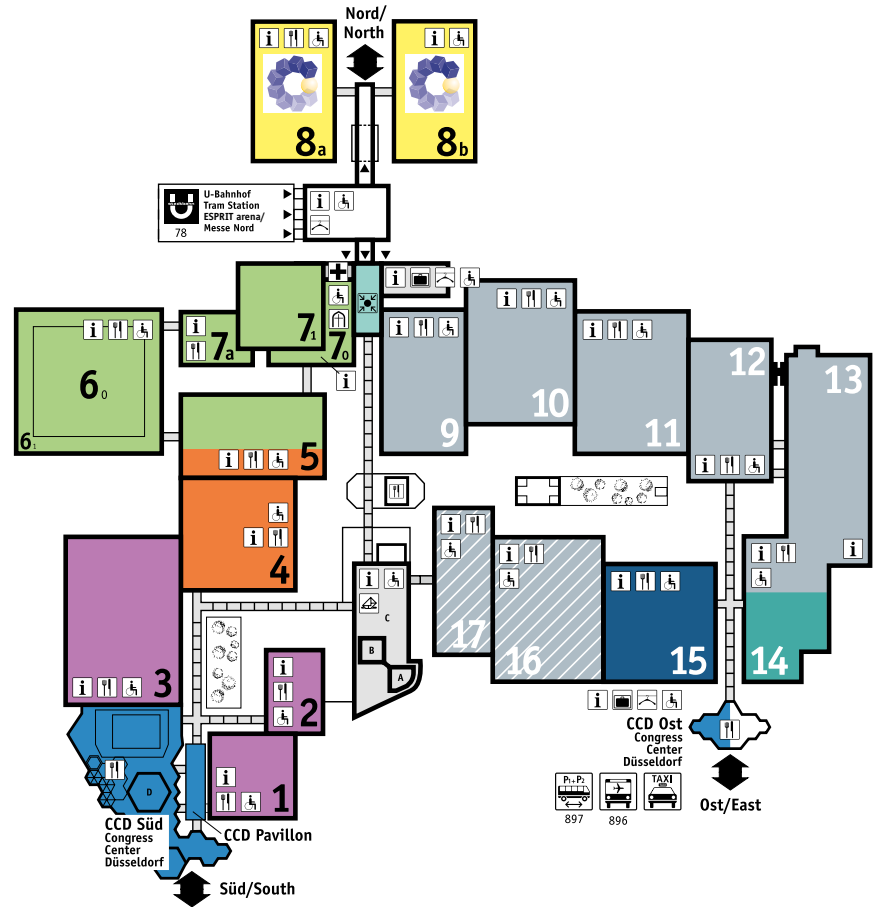
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Eingang
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**Halle/Hall 3****Halle/Hall 4****Halle/Hall 6****Halle/Hall 8a****Halle/Hall 8b****Halle/Hall 12****Halle/Hall 15****Halle/Hall 16, 17****Opening hours:**

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November 14 - 16, 2012
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10 a.m.-6:30 p.m.

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Messe
Düsseldorf

Wednesday, November 14

1:05 p.m.	Opening	Dr. Frank Bartels, IVAM Microtechnology Network, Dortmund, DE
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Session:**Laser and Photonic Applications****Session chair:** Dr. Uwe Schnakenberg, RWTH Aachen, Aachen, DE

1:10 p.m.	Fully Digital Arrays of Silicon Photomultipliers (dSiPM) - A Scalable Technology for Fast Photon Detection	Dr. York Hämisch/Anja Schmitz, Philips Digital Photon Counting, Aachen, DE
1:30 p.m.	Glass Processing with Laser Technology for Medical Applications	Dr. Christoph Hermanns, MDI SCHOTT Advanced Processing GmbH, Mainz, DE
1:50 p.m.	Customized Photonic Systems for Life Science Applications	Jan Fehse, Fisba Optik AG, St.Gallen, CH
2:10 p.m.	Polishing with Laser Radiation	Christian Nüsser, Fraunhofer Institute for Laser Technology ILT, Aachen, DE
2:30 p.m.	High-Power Diode Lasers as All-rounder in Medical Applications for Soft Tissue Treatment	Andre Grütz, LIMO Lissotschenko Mikrooptik GmbH, Dortmund, DE
2:50 p.m.	The Challenge to build State-Of-The-Art Optical Devices for OEM.	Dr. Stefan Beyer, Berliner Glas KGaA, Berlin, DE
3:10 p.m.	Laser Machining of Polymer Medical Devices: Benefits and Challenges to Device Designers	Dr. David Gillen, Blueacre Technology, Co Louth, Ireland, IE

Session:**Miniaturized Electronics for Medical Products****Session chair:** Harald Pötter / Erik Jung, Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, DE

4:00 p.m.	Micro Systems Technology as a Key for State-of-the-Art Diagnostics and Therapy - Update 2012	Harald Pötter, Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, DE
4:20 p.m.	Microtechnology Enabling implanted Brain Computer Interfaces	Dr. Prashant Tathireddy, University of Utah, Utah, USA
4:40 p.m.	Smaller and Smarter Implants: Smart Sensors for Intracardiac Pressure Measurement	Dr. Volker Bödecker, Vital Sensors GmbH, Hanover, DE
5:00 p.m.	Innovative Prostheses using implantable Micro Systems	Martin Rohm, University of Heidelberg, Heidelberg, DE
5:20 p.m.	Point of Care Diagnostics: Driving Innovations with Micro Technologies	Claudia Gärtner, microfluidic ChipShop GmbH, Jena, DE
5:40 p.m.	The Future Role of Electronics in Medical Products – Opportunities for Innovations	Erik Jung, Fraunhofer Institute for Reliability and Microintegration IZM, Berlin, DE

Thursday, November 15**Session:****Microprecision, Manufacturing and Processing**

Session chair: Andrea Pick,

Aufgeräumt - Büro und Management, Krefeld, DE

11.00 a.m.	Highly Precise Differential Pressure Sensor for Medical Applications	Dr. Sophie Billat, HSG-IMIT, Villingen-Schwenningen, DE
11.20 a.m.	Precision Positioning in Medical and Biotechnological Application	Jens Klattenhoff, Feinmess Dresden GmbH, Dresden, DE
11.40 a.m.	From Lab-on-Chip to Embedded Diagnostic Systems	Dr. Nicolaus Hettler, CDA GmbH, Suhl, DE
12.00 a.m.	Metal Injection Moulding of Thin-Walled Titanium Parts	Vera Friederici, Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM, Bremen DE
12.20 a.m.	Evaluation of Reusables for their intended Reprocessing Procedure - New Requirements by FDA	Anja Friedrich, BSL BIOSERVICE, Planegg / Munich, DE
12.40 a.m.	Mo(o)re Biotechnology through MEMS - a Marriage between two State-Of-The-Art Technologies	Hans Bouwes, iX-factory GmbH, Dortmund, DE
1.00 p.m.	When Medical Devices Miniaturization pushed out the Physical Limits: Manufacturing a 25 µm ID Metal Tube	Guy Mansart, MINITUBES, Grenoble, FR
1.20 p.m. Break		
1.40 p.m.	Hermetic Sealing of Intracorporeal Devices by Solderjet Bumping	Thomas Burkhardt, Fraunhofer Institute for Applied Optics and Precision Engineering IOF, Jena, DE
2.00 p.m.	Development of Customized PPG Sensors - Miniaturization Technologies and Examples for Medical Applications	Dr. Olaf Brodersen, CiS Forschungsinstitut für Mikrosensorik und Photovoltaik GmbH, Erfurt, DE
2.20 p.m.	Organic Surface Modification: A Key Process for Micro- and Nanotechnology based Devices	Dr. Luc Scheres, Surfix BV, Wageningen, NL
2.40 p.m.	Electropolishing in Medical Technology	Siegfried Pießlinger-Schweiger, POLIGRAT GmbH, Munich, DE
3.00 p.m.	Novel Pattern Structuring of Metallic Thin Film Layers at Polymers for Biosensor Applications using Plasma Activated Plating	E-R. Weidlich, GRT GmbH&Co. KG, Hamm, DE M. Hanner /B. Gründig, Senslab GmbH, Leipzig, DE J. Borris/ M. Thomas, Fraunhofer IST, Braunschweig, DE
3.20 p.m.	New Chances for Medical Devices with Flexible Printed Circuits	Markus Voeltz, Mektec Europe GmbH, Weinheim, DE
3.40 p.m.	Microprecision through Innovation Team Diversity	Richard Stephens, Invetech, San Diego, CA, US

Session:

Examining, Measuring, Quality Assurance

Session chair: Dr. Ulrike Michelsen,

Bartels Mikrotechnik GmbH. Dortmund, DE

4.20 p.m.	High Resolution Optical 3D Surface Inspection for Design and Process Control of Medical Devices	Jochen Hegenbart, Nanofocus, Oberhausen, DE
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4.40 p.m.	Obtaining Knowledge of Gas Type or Gas Concentration - New Achievements in Flow-Sensor Technology	Dr. Daniel Trautlein, Sensirion AG, Staefa ZH, CH
5.00 p.m.	MEMS Sensors For Medical Applications	Vassilis Grammatikakis, THEON Sensors, Athens, GR
5.20 p.m.	Innovative Sensing Solutions for Medical Applications	Dr. Adriano Pittarelli, Sensortechinics GmbH, Puchheim, DE

Friday, November 16

Session:

Electronic Manufacturing Services (EMS)

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

10.30 a.m.	Parylene: Biocompatible Barrier Protection for Medical Electronic Devices	Lonny Wolgemuth, Specialty Coating Systems, Indianapolis/Indiana, US
10.50 a.m.	Manufacturing Services for Communications Interfaces - Know-how in the Integration of Communications Technologies	Matthias Keith, Leesys - Leipzig Electronic Systems GmbH, Leipzig, DE
11.10 a.m.	Electronics And Traceability For Medical Systems	Frank Unland, Lacroix Electronics GmbH, Willich, DE

Session:

Microfluidic Enabled Innovation in Diagnostics

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

12.00 a.m.	Microfluidic Enabled Innovation in Diagnostics – Promises & Reality	Dr. Holger Becker, microfluidic ChipShop GmbH, Jena, DE
12.10 a.m.	Detection of Nucleic Acid Amplicons by Lateral Flow in an Integrated, Commercially Available Development Platform	Dr. Brendan O'Farrell, DCN, Carlsbad, California, US
12.30 a.m.	Microfluidic Systems for the Investigation of Cellular Properties and Behavior	Vivienne Williams, Cellix Limited, Dublin, IE
12.50 a.m.	Low Cost Disposable Integrated Microsystem for Detection of Proteins and Nucleic Acids	Dr. Thanos M. Demiris, micro2gen Ltd, Athens, GR
1.10 p.m.	Multisense Chip – A flexible Microfluidic Platform for Enzyme Assays	Dr. Claudia Gärtner, microfluidic ChipShop GmbH, Jena, DE
1.30 p.m.	Spintronics for Single Cell Detection in Whole Blood	Dr. Oliver Hayden, Siemens, Erlangen, DE
1.50 p.m. - 3.00 p.m.	Hands on Test & Discussion: Live Demo of Systems and Components	Dr. Holger Becker, microfluidic ChipShop GmbH, Jena, DE Dr. Brendan O'Farrell, DCN, Carlsbad, California, US Vivienne Williams, Cellix Limited, Dublin, IE Prof. Dr. Ciara O'Sullivan, Unviersity of Rovira I Virgili, Tarragona, ES Dr. Claudia Gärtner, microfluidic ChipShop GmbH, Jena, DE Dr. Oliver Hayden, Siemens, Erlangen, DE

Your notes:

Your notes:

High-Tech for Medical Devices

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

November 14 -16, 2012
Hall 8a, Booth F19, F29, F 34, G19, H19, H23, H29

FURTHER INFORMATION

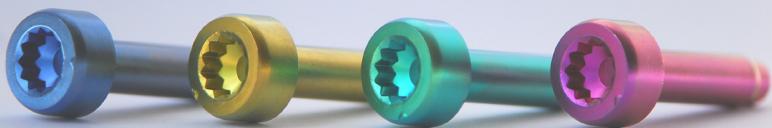
IVAM Product Market High-Tech for Medical Devices

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Source: POLIGRAT GmbH (H 23.2)