

## Module 4: Imaging Technologies 24 September 2014 – Afternoon

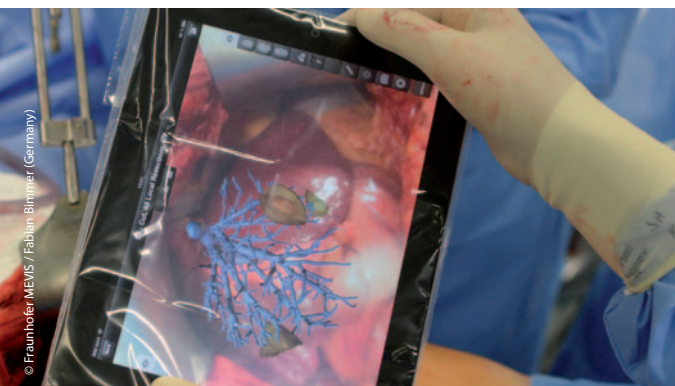
### Room AM 2

#### Computer-Assisted Surgery

- 14:00 Clinical Application of Liver Surgery Planning  
Andrea Schenk, Fraunhofer MEVIS, Bremen
- 14:30 Soft Tissue Navigation – On the Way to Clinical Routine  
Matthias Peterhans, CAScination AG, Bern, Switzerland
- 15:00 Surgical Experience in Soft Tissue Navigation  
Markus Kleemann, Universitätsklinikum Schleswig-Holstein, UKSH, Lübeck
- 15:30 Refreshments, exhibition

#### Computer-Navigated Radiotherapy

- 16:00 Image Guided Radio Therapy – the Present and the Future  
Florian Sterzing, Universitätsklinikum Heidelberg, Radio-Oncology & Radiation Therapy
- 16:30 Computerized Image Analysis for Effective Radiotherapy  
Benjamin Haas, Varian Medical Systems, Baden, Switzerland
- 17:00 Can a Simple Tool Change the Face of Radiotherapy?  
Stefan Wirtz, Fraunhofer MEVIS, Bremen
- 17:30 Summary / Closing
- 17:45 Refreshments, exhibition



## Module 5: Funding 25 September 2014

Präsentationen in deutscher Sprache, außer wo anders vermerkt.

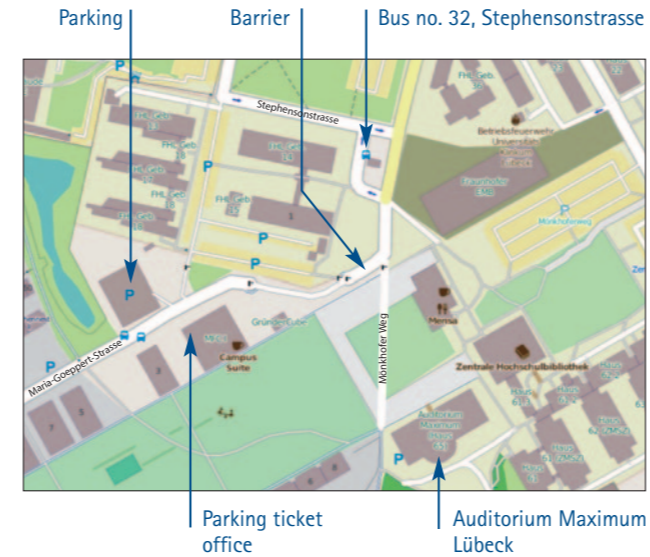
08:30 Registrierung, Begrüßungskaffee

### Raum AM 2: Neue Förderinstrumente für Innovationen in den Lebenswissenschaften – in Forschungseinrichtungen und KMU

- 09:00 Eröffnung / Begrüßung
- 09:05 Horizont 2020: Überblick zu EU-Fördermöglichkeiten für die Lebenswissenschaften  
Doris Bell, Projektträger im DLR, Europäische und intern. Zusammenarbeit, Nationale Kontaktstellen KMU und Lebenswissenschaften, Bonn
- 09:40 EU-Förderprogramme mit besonderer Eignung für Unternehmen und das neue KMU-Instrument  
Doris Bell, Projektträger im DLR, Bonn
- 10:10 Opportunities for Cross-border Cooperation with Partners in North Germany (in English)  
Nikolaj Helm-Petersen, Innovation Centre Denmark, München
- 10:30 Pause
- 11:00 Die Förderinitiative KMU-innovativ, Spitzenforschung im Mittelstand in der Medizintechnik  
Ricarda Rieck, Förderberatung Forschung und Innovation des Bundes, Forschungszentrum Jülich GmbH, Berlin
- 11:20 Förderung innovativer KMU und internationaler Kooperationen im ZIM  
Christian Fichtner, AiF Projekt GmbH, Berlin
- 11:40 EUROSTARS und das Enterprise Europe Network (EEN)  
Anette Benz, Investitionsbank SH, Kiel
- 12:10 Deutsch-Dänische Interreg 5A-Zusammenarbeit 2014 bis 2020  
Anna Kindberg, Interreg 5A-Sekretariat, Kruså
- 12:30 FBÖ TransTechTrans – Reisestipendien bis EUR 5.000 für die F&E-Zusammenarbeit im Fehmarnbelt-Öresund Korridor  
Dirk Hermsmeyer, IHK zu Lübeck
- 12:40 Imbiss, Ausstellung
- 13:30 Freie Diskussion mit den Referenten (im Foyer) (ggf. 1-zu-1 Gespräche über Projektskizzen)
- Ca. 15:00 Ende

## Directions & Accommodation

### Directions



Parking is available in the parking deck opposite Maria-Goeppert-Strasse 1 (about 200 m walk from Auditorium Maximum). Day tickets for parking (10 EUR) are available in Maria-Goeppert-Strasse 1 (ground floor). There is no ticket machine. PLEASE NOTE: Car access from Mönkhofer Weg to Maria-Goeppert-Strasse is blocked. The parking deck is accessible from Berliner Allee (B 207, west of the campus), via Maria-Goeppert-Strasse.

Bus no. 32 goes from Lübeck central bus station to Lübeck Stephensonstrasse in 16 min (200 m walk from the conference building).

### Accommodation

Hotel Excelsior Lübeck  
[www.hotel-excelsior-luebeck.de](http://www.hotel-excelsior-luebeck.de)

Atlantic Hotel Lübeck  
[www.atlantic-hotels.de/luebeck](http://www.atlantic-hotels.de/luebeck)

Klassik Altstadt Hotel Lübeck  
[www.klassik-altstadt-hotel.de](http://www.klassik-altstadt-hotel.de)

Park Inn by Radisson Lübeck  
[www.parkinn.de/hotel-luebeck](http://www.parkinn.de/hotel-luebeck)

## Registration, Contact and Further Information

### Website and registration

Please register before 16 September 2014 at [www.biomedtec-campus.de/summeracademy](http://www.biomedtec-campus.de/summeracademy). Programme details may be subject to change.



### Fees

Attendance fee for modules 1, 2, 3 and 4 is 50 EUR per module. Attendance for module 5 (funding) is free of charge.

### Discounts

Representatives of member organisations of the BioMedTec Science Campus are exempt from fees. Students are also exempt from fees. A valid student-ID is required at registration. All participants must register.

### Poster and trade exhibition

Exhibition of scientific posters is free of charge. Poster presenters are subject to registration fees and discounts as described above. Fees for company stands are 250 EUR per stand, including catering and free access to the conference presentations for two company staff. Contact: IHK zu Lübeck, Dirk Hermsmeyer (see below for contact details).

### Location

Auditorium Maximum Lübeck  
Joint lecture hall of Universität zu Lübeck and Fachhochschule Lübeck  
Mönkhofer Weg 239, Building 65  
23538 Lübeck

### Contact

IHK zu Lübeck  
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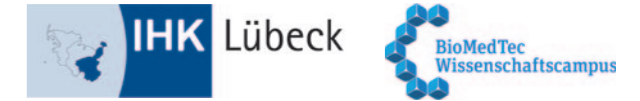
**DGBMT** GERMAN SOCIETY FOR BIOMEDICAL ENGINEERING WITHIN VDE



**ZUKUNFTS**programm  
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Financed by the European Union, European Regional Development Fund (ERDF), the Federal Republic of Germany and the Land of Schleswig-Holstein



# Lübeck 2014

## Summer Academy on Medical Technology

23 to 25 September 2014  
BioMedTec Wissenschaftscampus Lübeck  
Germany



In cooperation with



## Invitation to Lübeck!

Lübeck Summer Academy on Medical Technology is the medical technology industry's showcase with supra-regional attraction at the Lübeck BioMedTec Science Campus. As networking event it is the most important med-tech bridge into Scandinavia in Germany.

In 2014 the Summer Academy offers five modules. Each module can be booked individually. Regulatory affairs (modules 1 and 2), technology (modules 3 and 4) and funding opportunities (module 5) are on the agenda. Modules 1 to 4 are offered in English language, module 5 will be in German and English.

Current issues of regulatory affairs around medical devices are highlighted in modules 1 and 2. With the newly elected European parliament discussions around the proposed EU Medical Device Regulation will be ongoing. The impact of regulation on innovation in the medical device industry, and the cooperation between manufacturers and notified bodies are in the focus of regulatory modules.

Technology sessions cover low volume flows in medical technology (module 3) and imaging technologies (module 4). Metrology for drug delivery and measuring technologies for low flows in other med-tech applications are discussed. Computer-assisted surgery and computer-navigated radiotherapy are issues highlighted in this year's imaging technology sessions.

European and national funding opportunities for medical technology projects are introduced in module 5. The focus is on public funding sources. First experiences with the European Horizon 2020 programme are presented, including opportunities for the life sciences, the novel SME instrument, and special opportunities in cooperating with Danish partners. This is complemented with information on national funding programmes offered by the German Federal Ministries, and particular German-Danish opportunities in the EU Interreg 5A programme.

### Poster and trade exhibition

The Summer Academy is accompanied by a poster and trade show in the foyer of the conference building. All coffee breaks, lunch breaks and networking receptions are organised in the exhibition.

Lübeck 2014 Summer Academy is again jointly organized by Lübeck BioMedTec Science Campus / Medisert, Life Science Nord e.V., Forum für Medizintechnik (FFM e.V.), Fraunhofer MEVIS and Lübeck Chamber of Industry and Commerce (IHK zu Lübeck).

You are cordially invited to join Lübeck 2014 Summer Academy on Medical Technology!

## Module 1: Regulatory Affairs 23 September 2014 – Afternoon

12:30 Registration, lunch, exhibition

### Room AM 2

13:40 **Conference opening / Welcome**  
Enno Hartmann, Acting Chairman,  
BioMedTec Science Campus  
Lars Schöning, CEO, IHK zu Lübeck

### Development of Medical Devices – the Impact of Regulation on Innovation

14:00 **German Legislation regarding Clinical Trials  
with Medical Devices**  
Matthias Neumann, Federal Ministry of Health, Berlin

14:45 **Quo vadis – The next steps for the revision of ISO 14155**  
Karl Wenzelowski, DIN German Institute for  
Standardization, Pforzheim

15:30 Refreshments, exhibition

16:00 **Clinical Research with Medical Devices  
in Clinical Practice: An Example**  
Inke R. König, Inst. of Medical Biometry and Statistics,  
Univ. of Lübeck

16:30 **Specific Types of Studies and Practical Hurdles  
from a Legal Perspective**  
Heike Wachenhausen, Forum for Medical Technology, Lübeck

17:00 **New Challenges in Clinical Evaluation and Clinical Trials**  
Elisa Hoenig, PROSYSTEM Clinical Services GmbH, Hamburg

17:30 **Panel Discussion**

### Foyer

18:30 Lübeck 2014 Summer Academy Networking Reception

## Module 2: Regulatory Affairs 24 September 2014 – Morning

08:30 Registration, coffee, exhibition

### Room AM 2: Plenary Session

09:00 **Opening / Welcome**  
Life Science Nord e.V. and Forum for Medical Technology

09:20 **Introductory Key Note: From Innovation to Market**  
Ron Kikinis, Harvard Medical School, Boston, MA, USA and  
Fraunhofer Institute for Medical Image Computing MEVIS,  
Bremen and Lübeck

09:50 Change of rooms for parallel sessions  
Module 2 and Module 3

### Room AM 2 Module 2: Regulatory Affairs European Implementing Measures – Cooperation between Manufacturers and Notified Bodies

10:00 **Recast of the Medical Device Directive – What do we expect?**  
Henrik G. Jensen, Danish Health and Medicines Authority,  
Copenhagen, Denmark

10:30 **Regulatory Requirements for Product / Quality System  
Assessments and Audits – How to Prepare?**  
Hans-Heiner Junker, TÜV SÜD Product Service GmbH, München

11:00 Refreshments, exhibition

11:30 **Recommendation 2013/473/EU on Notified Body-audits –  
questions and problems in the field**  
Angela Graf, Bundesverband der Arzneimittel-Hersteller,  
BAH e.V. (German Association of Medicinal Product  
Manufacturers), Bonn

12:00 **Role and Legal Responsibilities of Notified Bodies –  
Consequences of Liability Cases**  
Volker Lücker, Kanzlei Lücker MP-Recht, Essen

12:30 Panel Discussion

13:30 Lunch, exhibition

## Module 3: 8<sup>th</sup> Workshop on Low Flows in Medical Technology 24 September 2014 – Morning

08:30 Registration, coffee, exhibition

### Room AM 2: Plenary Session

09:00-09:50 See left (module 2) for plenary session programme

### Room AM 3 Focus Session: Metrology for Drug Delivery, part 1

10:00 **Overview 'Metrology for Drug Delivery'**  
Peter Lucas, Dutch Metrology Institute, VSL,  
Delft, Netherlands

10:20 **Motivation and Clinical Relevance  
'Metrology for Drug Delivery'**  
Annemoo Timmermann, University Medical Center,  
Utrecht, Netherlands

10:40 **Primary Standards for Flow Rates from ~100  
to ~1 mL/min – Gravimetric Principle**  
Hugo Bissig, Swiss Metrology Institute,  
METAS, Bern, Switzerland

11:00 Refreshments, exhibition

### Focus Session: Metrology for Drug Delivery, part 2

11:30 **Flow Source Based on Expansion Principle as Primary  
Standard for Flow Rates Above 10 nL/min**  
Peter Lucas, Dutch Metrology Institute, VSL,  
Delft, Netherlands

11:50 **An Optical Measurement Method for Flow Rates  
Above 10 nL/min**  
Martin Ahrens, FH Lübeck, Germany

12:20 **Assessment of Flow Meters and Drug Delivery Devices**  
Elsa Batista, IPQ – Instituto Português da Qualidade,  
Caparica, Portugal

12:40 **Dosing Errors in Multi-Infusion**  
Roland Snijder, University Medical Center,  
Utrecht, Netherlands

13:00 Lunch, exhibition

## 24 September 2014 – Afternoon

### Room AM 3

14:00 **Effects of Applying Flow on Stem Cell Differentiation  
and Function**  
Martin Dufva, Technical University of Denmark, DTU,  
Kongens Lyngby, Denmark

14:30 **Fast Techniques for Measuring Small Flows  
in Mass Production**  
Niklaus Schneeberger, Helbling Technik Bern AG,  
Bern, Switzerland

15:00 **Microfluidics for Electrical Biochip Technology**  
Lars Blohm, Fraunhofer Inst. for Silicon Technology – ISIT,  
Itzehoe

15:30 Refreshments, exhibition

16:00 **Metrological Methods for Low Volume Liquid  
Handling in Drug Delivery and In-Vitro Diagnostics**  
Peter Koltay, Albert-Ludwig University, Department of  
Microsystems Engineering, IMTEK, Freiburg

16:30 **Microfluids in Chemical and Biochemical Engineering  
Applications**  
Ulrich Krühne, Technical University of Denmark, DTU,  
Kongens Lyngby, Denmark

17:00 **Flow Measurement for the Double-Actuator  
Pump mp6**  
Frank Bartels, Bartels Mikrotechnik GmbH, Düsseldorf

17:30 Get-together, refreshments, exhibition

[For details on Module 3 please see www.msgt.fh-luebeck.de](http://www.msgt.fh-luebeck.de)