24 September 2014 – Afternoon

Room AM 2: Computer-Navigated Radiotherapy

14:00 Clinical Application of Liver Surgery Planning
14:30 Soft Tissue Navigation – On the Way to Clinical Routine
15:00 Surgical Experience in Soft Tissue Navigation
15:30 Refreshments, exhibition

Room AM 2: Neue Förderprogramme für Innovationen in den Lebenswissenschaften – in Forschungseinrichtungen und KMU

16:00 Image Guided Radiotherapy – the Present and the Future
15:30 Refreshments, exhibition

Computer-Navigated Radiotherapy

16:00 Image Guided Radiotherapy – the Present and the Future

17:00 Can a Simple Tool Change the Face of Radiotherapy?

17:30 Summary / Closing

Eröffnung / Begrüßung

10:00 Die Förderinitiative KMU-innovativ, Spitzenforschung
10:30 Pause
11:00 Die förderfähigen KMK-innovationen, Spitzenforschung
11:30 Förderung innovation KMK

Module 5: Funding

12:10 Deutsch-Dänische Interreg 5A-Zusammenarbeit
11:40 EUROSTARS und das Enterprise Europe Network (EEN)
11:00 Förderung innovativer KMU und internationaler Kooperationen im ZIM
10:30 Pause
10:10 Opportunities for Cross-border Cooperation with Partners in North Germany

09:40 EU-Förderprogramme mit besonderer Eignung für Unternehmen und das neue KMK-Instrument
10:00 Eröffnung / Begrüßung

Room AM 2: Neue Förderprogramme für Innovationen in den Lebenswissenschaften – in Forschungseinrichtungen und KMU

16:00 Eröffnung / Begrüßung
16:30 Freie Diskussion mit den Referenten (im Foyer)
12:40 Imbiss, Ausstellung
20:14 Zeitplan / Programme
11:00 Die Förderinitiative KMU-innovativ, Spitzenforschung
10:30 Pause
10:10 Opportunities for Cross-border Cooperation with Partners in North Germany

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10:00 Eröffnung / Begrüßung
You are cordially invited to join Lübeck 2014 Summer Academy on Industry and Commerce (IHK zu Lübeck). BioMedTec Science Campus / Medisert, Life Science Nord e.V., Forum and networking receptions are organised in the exhibition.

The Summer Academy is accompanied by a poster and trade show in Poster and trade exhibition partners. This is complemented with information on national funding SME instrument, and special opportunities in cooperating with Danish are presented, including opportunities for the life sciences, the novel sources. First experiences with the European Horizon 2020 programme projects are introduced in module 5. The focus is on public funding opportunities (modules 3 and 4) and European and national funding opportunities (modules 2 and Module 3).

Current issues of regulatory affairs around medical devices are high- lighted in modules 3 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 is the medical devices industry and the cooperation between manufacturers and notified bodies is in the focus of regulatory modules. Further awareness courses cover low flow technologies in medical technology (module 3) and imaging technologies (module 2). Metroid for drug delivery and manufacturing technologies for low flows in other med-technologies are discussed. Computer-assisted surgery and computer- mounted radiology 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 instruments, 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 cooperation in the EU 9th IPA programmes.

Poster and trade exhibition

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

Lübeck 2014 Summer Academy is again jointly organised by Lübeck BioMedTec Science Campus / Medisert, Life Science Nord e.V., Forum for Medizintechnik (FMM e.V.), Fraunhofer MIVOS and Lübeck Chamber of Industry and Commerce (HMK 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 Room AM 2
Registration, lunch, exhibition

13:40 Conference opening / Welcome Fenna Hartmann, Acting Chairman, BioMedTec Science Campus

13:45 Quo vadis – The most posts for the revision of ISO 14155 Karl Beck, German Institute for Standardisation, Plasmonsshof

15:30 Refreshments, exhibition

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

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

17:00 New Challenges in Clinical Evaluation and Clinical Trials Elia Hoving, 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

08:30-09:00 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’ Anna-Teresa Timmermann, University Medical Center, Utrecht, Netherlands

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

11:00 Refreshments, exhibition

11:30 Lunch, exhibition Room AM 3: 8th Workshop on Low Flows in Medical Technology 24 September 2014 – Afternoon

08:30 Registration, coffee, exhibition Room AM 2: Plenary Session

08:00-08:55 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’ Anna-Teresa Timmermann, University Medical Center, Utrecht, Netherlands

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

11:00 Refreshments, exhibition

11:30 Lunch, exhibition

12:30 Module 3: 8th Workshop on Low Flows in Medical Technology

13:30 Registration, coffee, exhibition Room AM 2: Plenary Session

13:30-14:20 See left (module 2) for plenary session programme Room AM 3: Focus Session: Metrology for Drug Delivery, part 1

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

14:20 Fast Techniques for Measuring Small Flows in Mass Production Filip Gomes, OMRON France, France

15:00 Microfluidics for Electrical Biopsy Technology Lennart Rahn, Fraunhofer Inst. for Silicon Technology – ISE, Hötting

15:30 Refreshments, exhibition

16:00 Metrological Methods for Low Volume Liquid Handling in Drug Delivery and In-Vitro Diagnostics Peter Kölzy, Albert-Ludwigs-University, Department of Microsystems Engineering, ISET/FE, Freiburg

16:30 Microfluids in Chemical and Biochemical Engineering Applications Utrecht, Martin Krämer, Technical University of Denmark, DTU, Kongens Lyngby, Denmark

17:00 Flow Measurement for the Double-Actuator Pump mp6 Martin Ahrens, FH Lübeck, Germany

17:30 Get-together, refreshments, exhibition For details on Module 3 please see www.mstg.fh-luebeck.de

18:30 Dosing Errors in Multi-Infusion Therapies Frank Bartels, Bartels Mikrotechnik GmbH, Düsseldorf

19:00 Flow Source Based on Expansion Principle as Primary Standard for Flow Rates Above 10 mL/min Peter Lucas, Dutch Metrology Institute, VSL, Delft, Netherlands

19:30 An Optical Measurement Method for Flow Rates Above 10 mL/min Martin Keneke, PTB, Berlin, Germany

20:00 Assessment of Flow Meters and Drug Delivery Devices Elia Batista, IPT – Instituto Português da Qualidade, Caparica, Portugal

21:30 Dealing Issues in Multi-Infusion Roland Seidler, University Medical Center, Utrecht, Netherlands

23:00 Lunch, exhibition