

Current Research, Industrial and Clinical Issues in Bone Implant Development

Final Programme – Day 1

Wednesday, 21 May 2014	
14:00	Prof. Dr. M. Basista, CEO of KMM-VIN Welcome, introduction to KMM-VIN
14:15	Dr. Philipp Imgrund, Fraunhofer IFAM Development and processing of degradable biomaterials for bone implants
14:45	Prof. Dr. Annelie Weinberg, Medical University of Graz Current research issues in the development of magnesium implants
15:15	Julia Matena, University of Veterinary Medicine Hannover Biocompatibility studies on porous magnesium and titanium implants using different polymer coatings for bone tissue engineering
15:45	Coffee break
16:15	Prof. Dr. Aldo Boccaccini, University Erlangen Nuremberg Material innovations in bone tissue engineering scaffolds
16:45	Dr. Ingo Grunwald, Fraunhofer IFAM Biofunctionalisation of implant surfaces
17:15	Prof. Dr. Pasquale Vena, Politecnico di Milano Multilayered scaffolds for osteochondral substitutes
17:45	Transfer to evening event
19:00	Evening Event: Tour of Bremen City Hall (UNESCO World Heritage) and dinner at Ratskeller

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Final Programme – Day 2

Thursday, 22 May 2014	
08:00	Flash Poster Presentations
08:30	Prof. Dr. Kurosch Rezwan, University Bremen Advanced bioceramic materials for bone implants
09:00	Prof. Dr. Christian Hellmich, Vienna University of Technology „Universal“ laws in bone mechanics and biology, as a basis for computer-aided biomaterial design
9:30	Prof. Dr. Wojciech Swieszkowski, Warsaw University of Technology A scaffold-based tissue engineering approach to bone regeneration
10:00	Claudia Kleinhans, Fraunhofer IGB Development of in-vitro assays for resorbable bone implants
10:30	Coffee Break
11:00	Dr. Tobias Wolfram, KLS Martin Industrial development of resorbable CMF implants
11:30	Dr. Raimund Jäger, Fraunhofer IWM Mechanical performance of acrylic bone cements
12:00	Priv.-Doz. Dr. Bernd Lethaus, University Hospital Aachen Clinical issues and benefits of novel CMF implant materials
12:30	M. Basista, Ph. Imgrund, A. Boccaccini KMM-VIN Open Forum
13:00	Tour of Fraunhofer IFAM
13:45	Lunch
14:30	End of workshop

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Posters

Flash presentations of the posters: May 22, 8:00 – 8:30h

Name	First name	Organisation	Poster Nr.	Poster title
Bertolla	Luca	Academy of Sciences of the Czech Republic	1	Preparation and characterization of Bioglass®-based scaffolds reinforced by poly-vinyl alcohol/microfibrillated cellulose composite coating
Chen	Qiang	University of Erlangen Nuremberg	2	Electrophoretic co-deposition of polyvinyl alcohol (PVA) reinforced alginate–Bioglass® composite coating on stainless steel
Diaz Lantada	Andres	Universidad Politecnica de Madrid	3	Design and prototyping of fractal geometries for tissue repair
Ding	Yaping	University of Erlangen Nuremberg	4	Fabrication of electrospun PHB/PCL/Silica hybrid fiber mats with and without Calcium addition
Fiori	Fabrizio	Università Politecnica delle Marche	5	Synchrotron radiation micro-CT applied to biomaterials studies and biomedical research
Kusnierczyk	Katarzyna	Polish Academy of Sciences	6	Bioactivity of hydroxyapatite and hydroxyapatite matrix composites
Li	Wei	University of Erlangen Nuremberg	7	PHBV microsphere/45S5 Bioglass® composite scaffolds with vancomycin releasing function
Major	Roman	IMMS Polish Academy of Sciences	8	Porous synthetic coatings as a efficient scaffold for the cell growth
Miguez-Pacheco	Valentina	University of Erlangen Nuremberg	9	Design and development of multifunctional bioactive glass scaffolds for Bone Tissue Engineering
Pawlak	Sylvia	Polish Academy of Sciences	10	Microstructural characteristics of the calcium carbonate and hydroxyapatite synthesized a spider silk
Warchomicka	Fernando	TU Graz	11	Surface structuring of biomaterials by electron beam technique