



Program

**THURSDAY
 04/12/2014**

 Wifi available in the auditorium

Schedule	Topic	Speaker
08:00 – 08:50	Registration	
09:00 – 09:10	Welcome address by the Ambassador of France	H.E. Philippe Etienne
09:10 - 09:20	Welcome address by the Ambassador of Poland	H.E. Jerzy Margański
09:20 – 9:40	Current national and European public funding options in the field of biomaterials	Monika Weinhold (VDI Technologiezentrum GmbH, Research Funding Consultancy – Health Industry, Project Management Agency for the Federal Ministry of Education and Research – GER)
09:40 – 10:00	Architected biomaterials – An Introduction	Peter Fratzl (Max Planck Institute of Colloids and Interfaces in Potsdam – GER)
10:00 - 11:00	Session 1: Architected ceramic biomaterials	Chair : Wojciech Swieszkowski (Warsaw University of Technology - PL)
10:00 - 10:20	The answer of bioceramics to mechanical demands: towards complex microstructures and architectures	Jérôme Chevalier (INSA Lyon - FR)
10:20 - 10:40	Architected Biomaterials Based on Bioactive Glasses for Tissue Engineering: Progress and Challenges	Aldo Boccaccini (University of Erlangen-Nuremberg - GER)



10:40 – 11:00	Synthesis and selected applications in orthopedy of GoHAP - nano sized hydroxyapatite particles ideally	Witold Lojkowski (Institute of High Pressure Physics, Polish Academy of Sciences, Warsaw - PL)
11:00 – 11:30	Coffee Break	
11:30 – 12:30	Session 2: Multiscale polymeric biomaterials	Chair : Denis Favier (University of Grenoble - FR)
11:30 – 11:50	Multifunctional biohybrid hydrogels	Carsten Werner (IPF Dresden - GER)
11:50 – 12:10	New functional polymeric biomaterials for in situ forming implants	Mirosława El Fray (West Pomeranian University of Technology, Szczecin - PL)
12:10 – 12:30	Innovative bioresorbable (co)polyesters as multiscale biomaterials	Benjamin Nottelet (University of Montpellier 1 - FR)
12:30 – 13:50	Lunch break	
13:50 – 14:50	Session 3: Materials for stem cell manipulation or regeneration	Chair : Peter Fratzl (Max Planck Institute of Colloids and Interfaces in Potsdam - GER)
13:50 – 14:10	Materials stiffness and architecture influence cell fate in vitro	Malgorzata Lewandowska-Szumiel (Warsaw Medical University - PL)
14:10 – 14:30	3D polymeric scaffolds for cardiovascular tissue repair	Didier Letourneur (INSERM, University Paris 13 - FR)
14:30 – 14:50	Modeling the regenerative niche in vitro : application to Tissue Engineering	James Kirkpatrick (University of Mainz - GER)
14:50 – 15:20	Coffee Break	
15:20 – 16:20	Session 4: Architected surfaces	Chair : Wojciech Swieszkowski (Warsaw University of Technology - PL)
15:20 – 15:40	Layer-by-layer films as new engineered surface coatings: from bench to clinics	Thomas Boudou (Grenoble INP- FR)
15:40 – 16:00	Approaches to dynamic biomaterials	Aranzazu Del Campo (Max Planck Institute for Polymer Research, Mainz - GER)
16:00 – 16:20	Surface design for blood contacting medical devices	Tomasz Ciach (Warsaw University of Technology - PL)
16:20 – 17:00	Poster Session	
17:00	Get together - Networking	



FRIDAY
05/12/2014

08:00 – 09:00	Registration	
09:00 – 10:00	Session 5: Metallic Biomaterials	Chair : Denis Favier (University of Grenoble - FR)
09:00 – 09:20	Biodegradable Metals as emerging temporary biomaterials for load-bearing applications	Frank Witte (Charité Medical University Berlin - GER)
09:20 – 09:40	Design of structural titanium and biodegradable magnesium alloys as biomaterials	Jan Dutkiewicz (Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Cracow - PL)
09:40 – 10:00	Potentialities of the metastable beta titanium alloys for biomedical applications	Thierry Gloriant (INSA Rennes - FR)
10:00 – 10:30	Coffee Break	
10:30 – 11:30	Session 6: Systems approaches	Chair : Peter Fratzl (Max Planck Institute of Colloids and Interfaces in Potsdam - GER)
10:30 – 10:50	Combined experimental and computational approach in development of biomaterials for regenerative medicine	Wojciech Swieszkowski (Warsaw University of Technology - PL)
10:50 – 11:10	Building on Biomimetics: a basis for medical devices	Donald Martin (University of Grenoble - FR)
11:10 – 11:30	Structured Material for enhanced neural stimulation and regeneration in the auditory System	Thomas Lenarz (Medical University Hannover – GER)
11:30 – 12:20	Round table discussion on the future prospects of architected biomaterials Chair: Yves Brechet (High Commissioner for Atomic Energy and Alternative Energies, CEA - French Alternative Energies and Atomic Energy Commission - FR)	Maurice Bérenger (CEO PROTIPMEDICAL - FR) Heinrich Planck (CEO Polymedics Innovations GmbH - GER) Tadeusz Burczynski (Director of Institute of Fundamental Technological Research, Polish Academy of Sciences - PL) Georg Duda (Director of Institute Julius Wolff, Charité Medical University Berlin - GER) Didier Letourneur (Director of Laboratory for vascular translational science, INSERM Paris - FR)
12:20 – 12:30	Symposium closure	
12:30	End of the Event	

Service pour la science et la technologie

<http://www.science-allemande.fr/>

