

PRELIMINARY PROGRAM – 23.06.2014

Thursday 04/12/2014

09:00	Welcome adress French Embassy Person to be confirmed
09:10	Introduction: Public funding landscape in Germany in the field of biomaterials Régis Cartier (Project Management Agency for the Federal Ministry of Education and Research VDI Technologiezentrum GmbH- GER)
09:30	Architectured biomaterials - An Introduction Peter Fratzl (Max Planck Institute of Colloids and Interfaces in Potsdam – GER)
09:50	Session 1: Architectured ceramic biomaterials
	Chair: Wojciech Swieszkowski (Warsaw University of Technology – PL)
09:50	The answer of bioceramics to mechanical demands: towards complex microstructures and architectures Jérôme Chevalier (INSA Lyon - FR)
10:10	Architectured Biomaterials Based on Bioactive Glasses for Tissue Engineering: Progress and Challenges Aldo Boccaccini (University of Erlangen-Nuremberg - GER)
10:30	Synthesis and selected applications in orthopedy of GoHAP - nano sized hydroxyapatite particles ideally mimicking the structure of bioapatite Witold Lojkowski (Institute of High Pressure Physics, Polish Academy of Sciences, Warsaw - PL)
10:50	Coffee Break



08:00

Registration







L1:20	Session 2: Multiscale polymeric biomaterials
	Chair: Denis Favier (University of Grenoble - FR)
L1:20	Multifunctional biohybrid hydrogels Carsten Werner (IPF Dresden - GER)
11:40	New functional polymeric biomaterials for in situ forming implants Miroslawa El Fray (West Pomeranian University of Technology, Szczecin - PL)
L2:00	Innovative bioresorbable (co)polyesters as multiscale biomaterials Benjamin Nottelet (University of Montpellier 1 - FR)
L2:20	Lunch
L3:50	Session 3: Materials for stem cell manipulation or regeneration Chair: Peter Fratzl (Max Planck Institute of Colloids and Interfaces in Potsdam – GER
	Chair . Peter Fratzi (Max Planck institute of Collolus and Interfaces in Potsualii – GEN
L3:50	Materials stiffness and architecture influence cell fate in vitro Malgorzata Lewandowska-Szumiel (Warsaw Medical University - PL)
L4:10	3D polymeric scaffolds for cardiovascular tissue repair Didier Letourneur (INSERM, University Paris 13 - FR)
14:30	Modeling the regenerative niche in vitro : application to Tissue Engineering James Kirkpatrick (University of Mainz - GER)
L4:50	Coffee Break
L5:20	Session 4: Architectured surfaces
	Chair: Wojciech Swieszkowski (Warsaw University of Technology – PL)
15:20	Layer-by-layer films as new engineered surface coatings: from bench to clinics Thomas Boudou (Grenoble INP- FR)
15:40	Approaches to dynamic biomaterials Aranzazu Del Campo (Max Planck Institute for Polymer Research, Mainz - GER)
16:00	Surface design for blood contacting medical devices Tomasz Ciach (Warsaw University of Technology - PL)
16:20	Poster Session
L7:00	Get together - Networking
	Friday 05/12/2014

09:00 Session 5: Metallic Biomaterials

Chair: Denis Favier (University of Grenoble - FR)

09:00 Biodegradable Metals as emerging temporary biomaterials for load-bearing applications

Frank Witte (Charité Medical University Berlin - GER)

09:20 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 Potentialities of the metastable beta titanium alloys for biomedical applications

Thierry Gloriant (INSA Rennes - FR)

10:00 Coffee Break

10:30 Session 6: Systems approaches

Chair: Peter Fratzl (Max Planck Institute of Colloids and Interfaces in Potsdam – GER)

10:30 Combined experimental and computational approach in development of biomaterials for regenerative

medicine

Krzysztof Kurzydlowski (National Centre for Research and Development, Warsaw - PL)

10:50 Building on Biomimetics: a basis for medical devices

Donald Martin (University of Grenoble - FR)

11:10 Structured Material for enhanced neural stimulation and regeneration in the auditory System

Thomas Lenarz (Medical University Hannover - GER)

11:30 Round table discussion on the future prospects of architectured biomaterials

Chair: Yves Brechet (CEA - French Alternative Energies and Atomic Energy Commission - FR)

Maurice Bérenger (CEO PROTIPMEDICAL - FR)

Heinrich Planck (CEO Polymedics Innovations GmbH - GER)

Krzysztof Kurzydlowski (Director National Centre for Research and Development - 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 Symposium closure

12:30 End of the Event

We kindly invite all participants to register before **the 5th of November 2014**. The registration is on line: http://www.wissenschaft-frankreich.de/de/formular/. An acknowledgement will be sent to you. Registration is obligatory but free of charge. The number of places is limited.

Participants attending the symposium have a possibility to submit an AO poster, presenting the research activities in their host institution (team, department,..). Please submit a proposition of a poster including: title, authors, collaborations and very short description before **the 15**th **of September 2014** to louis.thiebault@diplomatie.gouv.fr Selection of posters will be done by the scientific coordinators (P. Fratzl, D. Favier, W. Swieszkowski).

You will be informed about the selection on **the 15**th **of October 2014.**

For more information please contact:

Jolanta Lewandowska, Attaché for Science and Technology at the French Embassy in Berlin Jolanta.lewandowska@diplomatie.gouv.fr; Tel. +49 30 590 03 92 55







