

Workshop Agenda, Friday 19. April 2013

Time	Title of talk	Presenter
09:00 – 10:00	Nanostructured Microelectrodes for Improved Stimulation and Recording of Neuronal and Cardial Cells	Prof. Dr. Christine Thielemann, Hochschule Aschaffenburg
10:00 – 10:15	Coffee	
10:15 – 11:00	Working principles of IDES, potentiometric and amperimetric sensors as well as theoretical models of growth stimulation of bone	Sebastian Bonk
11:00 – 11:45	Reconstruction of cell-electrode-incidences on MEAs	Sebastian Hanisch
11:45 – 12:30	Biofunctionality of CaTiO ₃ : Piezoelectricity	Rico Schnierer
12:30 – 14:00	Lunch	
14:00 – 14:45	Modelling and Simulation of an <i>in-vitro</i> Experiment Setup for Determination of Impedances of Biological Tissues	Mirjana Holst
14:45 – 15:30	Über Cochlea-Implantate und Regelkreise	Ralf Warmuth
15:30 – 16:15	Electromagnetic Modelling of the Auditory Nerve Stimulation	Annekathrin Grünbaum
16:15 – 16:30	Coffee	
16:30 – 17:15	Effects of Bowian Motion on EDL	Azahr Syed
17:15 – 18:00	Optimization of Elektrodes and Stimulation Parameters for Deep Brain Stimulation in the 6-OHDA Rat Model of Parkinson's	Kathrin Badstübner

Saturday 20. April 2013

Time	Title of talk	Presenter
08:30 – 09:45	Structured Titanium Surfaces for Biomedical Studies	Ronny Löffler, Universität Tübingen Susanne Stähle
09:45 - 10:00	Coffee	
10:00 - 10:45	Computation of the Electric Field Distribution at a Topographically Nanostructured Titanium Electrolyte Interface – Influence of the Passivation Layer	Andreas Körtge
10:45 - 11:15	Intracellular Calcium Dynamics in Osteoblasts	Dr. Friederike Kunz
11:15 – 12:00	Finite Element Analysis of Electric Field Distribution of Electrostimulation Implant in Bone Contact: Modelling and Validation Experiment	Yukun Su

Schlosshotel Groß Plasten, Tel: 039934 - 802 546, <http://www.schlosshotel-grossplasten.de>

Welisa – Research Training Group



www.welisa.uni-rostock.de