

## Workshop Agenda, **Wednesday 20. November 2013**

| Time                          | Title of talk  | Presenter                              |
|-------------------------------|--|--|
| <b>9:30 Vorstellungsrunde</b> |  |  |
| 10:00 – 10:40                 | Intracellular Calcium Ion Dynamics in Osteoblasts on Defined Microstructured Surface   | Susanne Stählke                        |
| 10:40 – 10:55                 | Evaluation of the influence of topographic and chemical surface properties on the cell biology                                   | Caroline Mörke, fairly new PHd Student |
| 11:00 – 11:40                 | Steuerung der Adhäsion Humaner MG-63-Osteoblasten auf Silizium mit Hilfe einer Elektronischen Nanostruktur                       | Andreas Körtge                         |
| 11:40 – 12:20                 | Improved Models for the Electric Double Layer on Implants in Biosystems  | Azhar Syed                             |
| 12:20 – 14:00                 | <b>Foto auf der Seebrücke &amp; Lunch</b>  |  |
| 14:00 – 14:40                 | Spatio-Temporal Modeling of Cell-State of the Art  | Tom Theile                             |
| 14:40 – 15:20                 | Stimulation of Primary Neuronal Cells <i>in vitro</i>  | Matthias Nissen                        |
| 15:20 – 16:00                 | Influence of electrical fields on neuronal growth and electrical activity in cortical neuronal networks cultivated on neurochips | Anne Langenbach                        |
| 16:00 – 16:20                 | <b>Coffee</b>  |  |
| 16:20 – 17:00                 | Covering Aspects and Fault Tolerance for Spike-Assigments  | Sebastian Hanisch                      |
| 17:00 – 17:40                 | System Development for Stimulation of Human Osteblasts   | Sebastian Bonk                         |
| 17:40 – 18:20                 | Persistent Beneficial Effects of DBS in Behavioural Tests with Freely Moving Hemiparkinsonian Rats                               | Kathrin Badstübner                     |

## Thursday 21. November 2013

| Time                 | Title of talk   | Presenter            |
|----------------------|---|----------------------|
| <b>09:00</b> – 09:40 | Variations in Cochlea Implant Modeling and the Effect on the Auditory Nerve       | Annekathrin Grünbaum |
| 09:40 - 10:20        | Electrical Properties of electrolyte-filled glass microelectrodes: The Experiment | Mirjana Holst        |
| 10:20 - 11:00        | Auditory Nerve Models in Cochlea  | Kiran Sriperumbudur  |
| <b>11:00 - 11:20</b> | <b>Coffee</b>   |                      |
| 11:20 – 12:00        | Detection of Muscle Activity  | Ralf Warmuth         |
| 12:00 – 12:40        | New Methodology for Multivariate Parameter Optimization using COMSOL and Isight   | Yukun Su             |
| 12:40 – 13:20        | Introduction to Bone Remodeling   | Ulf Zimmermann       |
| <b>13:30</b>         | <b>Lunch &amp; Abreise</b>  |                      |

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