Universität Rostock

Traditio et Innovatio

DEPARTMENT LIFE, LIGHT & MATTER

GRADUATE WORKSHOP

JANUARY, 18TH 2019

9.00 OPENING

09:00-09:10 Prof.Meiwes-Broer Welcome
09:15-09:25 Rui Zhang Combined Atomic Force Microscopy (AFM) - Fast Scanning Calorimetry (FSC) Device for Crystallization Studie
09:30-09:40 Christian Völkner The nanomorphology of live cells with regard to their behavior investigated by Scanning Ion Conductance Microscopy
09:45-09:55 Karsten Sperlich Laser-based corneal collagen cross-linking and method development for its characterization by induced laser scattering
10:00-10:10 Dr.Michael Stiehm Numerische Biofluidmechanik zur Bewertung des Thrombosepotentials kardiovaskulärer Implantate
10:15-10:25 Dinis Faustino Development and Application of Optimized Cardio-Specific Ad Vector-based Systems for In Situ Establishment of Biological Pacemakers
10:30-10:40 Denise Meinhardt SINC: an algorithm for the automated and simultaneous phase and baseline correction of NMR data
10:45-10:55 Philipp Henning Modellierung der mitochondrialen Dynamik

11.00 COFFEE BREAK

11:30-11:40 Riko Siewert Thermodynamic analysis for the optimization of the synthesis of Guerbet alcohols
11:45-11:55 Martin Preising High-pressure melting line in helium
12:00-12:10 Dr. Heiko Lemcke Programmierte Herzschrittmacherzellen zur in vitro Medikamententestung - iRhythmics
12:15-12:25 Simone Krüger Electrical stimulation of hyaline cartilage: In vitro characterisation of stimulation parameters
12:30-12:40 Ch. Steinlechner Earth Abundant Metal Complexes for Solar Driven CO_2 Reduction
12:45-12:55 Christoph Drobek Scherbelastbarkeit von Zellen in Strömungen/Suspensionen

13.00 LUNCH BREAK

13:30-13:40 Anja Kurzhals Automatisierte Analyse von Partikeln durch morphologische und spektroskopische Untersuchungen
13:45-13:55 Paul Oldorf, Georg Schnell Tribo- and Rheological Functionalization of Articulating Implant Surfaces Using Ultrashort Laser Pulses
14:00-14:10 Prasanth Ganta DFT-based molecular dynamics simulations of phosphates at the mineral surface/water interface
14:15-14:25 Chris Rehhagen Excitons observed with Fluorescence Lifetime Imaging Microscopy
14:30-14:40 Dr. S. Stählke Topographical influence of material surfaces on cell morphologhy

14.45 SURVERY LECTURE

Dr. Rigo Peters Micro material processing and applications using ultra-short pulsed lasers

LOCATION:
SEMINARROOM 110
RESEARCH BUILDING LLM

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