

Programme
Thursday, 04th November 2004

Chairman: Dr. Klaus Liefeith

- 9:00 Welcome
Dieter Althaus
Prime Minister of the Free State of Thuringia
- 9:30 Introduction
Dr. Klaus Liefeith, iba Heiligenstadt e.V., Germany
- 9:40 Nano- and microfabrication and biochemical modifications to create biofunctional surfaces
Prof. Bengt Kasemo, Chalmers University of Technology Gothenburg, Sweden
- 10:25 Multiphoton laser microscopy with compact femto-second lasers
Prof. Dr. Karsten König, Fraunhofer Institute for Biomedical Technology, St. Ingbert, Germany

11:10 Coffee Break

Chairman: Prof. Dr. Karsten König

- 11:30 TriM Scope - Real Time 2-Photon Microscopy
Dr. Thomas Pingel, LaVision Biotec GmbH, Bielefeld, Germany
- 11:50 Surface and interface analysis and modification of biomaterials
Prof. Klaus D. Jandt, Institute of Material Science and Technology, Jena, Germany
- 12:10 New biofunctional features by material science engineering and analysis
Dr. Cecilla Pederzoli, Centre for Scientific and Technological Research, Povo, Italy
- 12:30 Design of metallic biomaterial surfaces by anodic immobilization of DNA single strands
Dr. Dieter Scharnweber, Max-Bergmann-Centre for Biomaterials, Dresden, Germany
- 12:50 AFM for biological and material science applications
Christian Löbbe, JPK Instruments AG, Berlin, Germany
- 13:10 Dental implants with plasma sprayed bioceramic coatings
Prof. Natalia Protasova, Technical University, Dept. of Material Studies, Saratov, Russia
- 13:30 Lunch
- 14:30 - 17:30 Individual pre-arranged meetings between potential partners

19:00

Reception with a "Thuringian Buffet" in the Atrium
Statement by Prof. Dr. Werner Bornkessel, Chairman of STIFT Thuringia

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09:00 Relevance of bioreactors for tissue engineering
Prof. Dr. Augustinus Bader, University Leipzig/BBZ, Germany

09:45 Cellular responses to select biophysical stimuli
Prof. Rena Bizios (Ph.D.), Rensselaer Polytechnic Institute, Troy/USA

10:30 Coffee Break

Chairman: Prof. Dr. Augustinus Bader

11:00 Interaction of cells with artificial materials developed for tissue engineering
Dr. Lucie Bacakova, Academy of Sciences, Institute of Physiology, Prague, CZ

11:20 Tissue engineering-related environment and analysis with focus on collagen
Dr. Tillman Vollbrandt, Centre of Competence for Tissue Engineering, Lübeck, Germany

11:40 Cell-material communication
Dr. Nancy Senyah, iba Heiligenstadt, Germany

12:00 Nano-hydroxyapatite crystals on a meso-structured matrix
Dr. Aranzazu Diaz, Institute of Material Sciences Sevilla, Spain

12:20 Development of granular micro-scaffolds based on hydroxyapatite for the genetic
treatment of tissues
Dr. Antonio Ravaglioli, ISTECCNR Faenza, Italy

12:40 Development and application of standard and advanced cell culture models
Prof. Dr. Gerhard Unteregger, Institute of Molecular Biology, Biomedical Centre &
AG. exp. Urology, University of the Saar, Homburg, Germany

13:00 Lunch

14:00-17:00 Individual pre-arranged meetings between potential partners

17:00 End of the event