

Agenda Ringberg Workshop Oct 2009

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| Osteoporosis | Thursday Afternoon |
| Plasma-Medicine | Wednesday Afternoon and Thursday Morning |
| Raman Spectroscopy | Thursday Afternoon |
| Electroencephalographic Analysis | Friday Morning |

| Wednesday, 21.10. | Thursday, 22.10. | Friday, 23.10. |
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| | 8:00 - 9:00 Breakfast | 8:00 - 9:00 Breakfast |
| | Session: Plasma-Medicine II | Session: EEG-Analysis and Interpretation |
| | 9:00 - 9:30 Yukinori Sakiyama: Modeling of Plasma Chemistry at Atmospheric Pressure: Toward Plasma-Biomaterial Interaction | 9:00 - 9:30 Stephan Springer and Gerhard Kluger: Epilepsy and Autism in Infants: Clinical and Electroencephalographic Manifestations |
| | 9:30 - 10:00 Tetyana Nosenko: Argon Plasma vs. Air Plasma: Characterization and Interaction with Biological Systems | 9:30 - 10:00 Wolfram Bunk: Identification of Pathological EEG Patterns Using Symbolic Representations |
| | 10:00 - 10:30 Sigrid Karrer: Effects of Plasma on Wound Healing: In Vivo and in Vitro Results | 10:00 - 10:30 Gerhard Schneider: Review: Indicators of Anaesthetic Depth in the EEG |
| | 10:30 - 11:00 Coffee Break | 10:30 - 11:00 Coffee Break |
| | 11:00 - 11:30 (1)Maevsky E.I., (1)Selezneva I.I., (2)Murashev A.N., (3)Vasiliev M. M., (3)Petrov O. F., (1)Davidova G.A., (2)Abashina T.N., (2)Vainshtein M.B. (1)Bogdanova L.A. and (3)Fortov V. E. : (1)Institute of Theoretical and Experimental Biophysics of Russian Academy of Sciences (RAS), Pushchino, Moscow Region, 142290. Russia; (2)Pushchino State University, Pushchino; (3)Joint Institute for High Temperatures RAS, Moscow.) Bioeffects of the Low-Temperature Argon Plasma "In Vitro" and "In Vivo" | 11:00 - 11:20 Denis Jordan: EEG Analysis Methods in Monitoring Anesthesia |
| | 11:30 - 12:00 Roberto Monetti: Analysis of "Filter-pad" Images for the Assessment of the Bacterial Load | 11:20 - 11:50 Thomas Aschenbrenner: Novel Measures to Quantify the Effects of Anesthetics on Electrical Brain Activity |
| | 12:00 - 12:30 Wolfram Bunk: Description of Skin Wounds Using an Image Analysis Approach | 11: 50 - 12:10 Steffen Mihatsch: Exploring the State-Space of a Spatio-Temporal Coupled System |
| | 12:30 - 14:00 Lunch | 12:30 -14:00 Lunch |
| 14:30 - 14:40 Welcome | Session: Osteoporosis | |
| Session: Plasma-Medicine I | 14:00 - 14:30 Dirk Müller: Clinical Aspects of Osteoporosis | |
| 14:45 - 15:15 Gregor Morfill: New Developments in Plasma Healthcare | 14:30 - 15:15 Jörn Rittweger: Bone Loss in Space and on Earth - Physiological Mechanisms and Clinical Consequences | |
| 15:15 - 15:30 Hans-Ulrich Schmidt: Antimicrobial Strategies in Practical Medicine - Classic Procedures and New Developments | 15:15 - 15:30 Christoph R ath: Assessing and Selecting Texture Measures for Quantifying the Trabecular Bone Using Surrogates | |
| 15:30 -15:45 Coffee Break | 15:30 - 15:45 Coffee break | |
| 15:45 - 16:00 Julia Zimmermann: Investigation of Bacterial Resistance Build-Up Against Plasma Treatment | 15:45 - 16:00 Roberto Monetti: Quantifying Bone Strength Using Scaling Indices, Minkowski Functionals and their Combination | |
| 16:00 - 16:30 Georg Isbary: Update on Munich Plasma Project - From Medical Point of View | 16:00 -16:15 Jan Bauer: Influence of Acquisition Parameters (noise, field strength etc.) on Texture Measures and their Predictive Power in MR Imaging | |
| 16:30 - 17:00 Ermolaeva S.A., Chernukha M.Yu., Varfolomeev A.F., Vasiliev M.M., Zigangirova N.A., Shaginyan N.A., Petrov O.F., Mayevsky E.I., Naroditsky B.S., and V. E. Fortov: The Bactericidal Effect of Low Temperature Plasma on Extra- and Intra-Cellular Pathogens | 16:15 - 16:30 Irina Sidorenko: Quantifying Bone Strength Using Finite Element Models (FEM) | |
| 17:00 - 17:30 Coffee Break | 16:30 - 17:00 Coffee break | |
| 17:30 - 18:00 Tetsuji Shimizu: Characterization of Plasma Produced by MicroPlaSter and HandPlaSter | Session: Raman Spectroscopy and Glioblastoma | |
| 18:00 - 18:30 Martina Anton: Killing of viruses with cold plasma produced by FlatPlaSter: Adenoviruses as an example of non-enveloped viruses | 17:00 - 17:30 J rgen Schlegel: Review: Glioblastoma Research | |
| | 17:30 - 18:00 Katharina Klein/ Alex Gigler: Label-free Bio-Imaging of Living Human Glioblastoma Cells by Confocal Raman Microscopy | |
| | 18:00 - 18:15 Thomas Aschenbrenner: Registration of Immunofluorescence and Raman-Spectroscopic Images Using Information Measures | |
| | 18:15 - 18:30 Wolfram Bunk/Roberto Monetti: Decomposition of Raman-Spectra for the (Re)construction of Multicolor IF-Images of Cells | |
| 19:00 - 20:00 Dinner | 19:00 Bavarian Dinner | |
| 20:00 - open end Discussions | 20:00 - open end Discussions | |