

## Workshop

### Computational Bio-Electromagnetism

#### Agenda:

Thursday 02. February 2012

Time	Title of talk	Presenter
12 <sup>00</sup> – 13 <sup>00</sup> pm	Arrival	
13 <sup>00</sup> – 14 <sup>00</sup>	Lunch	
14 <sup>00</sup>	Welcome and Introduction	<b>Prof. Dr. Ursula van Rienen</b> , Institute of General Electrical Engineering, University of Rostock
14 <sup>15</sup> – 15 <sup>15</sup>	Host presentation	<b>Prof. Dr. Guido Dehnhardt / Associates</b> Marine Science Center Rostock
15 <sup>15</sup> – 16 <sup>00</sup>	Electromagnetic compatibility of biological systems – effects, regulations, simulations, experiments	<b>Dr. Joachim Streckert</b> , Faculty of Electrical, Information and Media Engineering, University of Wuppertal
16 <sup>00</sup> – 16 <sup>30</sup>	<b>Coffee break and Photoshooting</b>	
16 <sup>30</sup> – 17 <sup>15</sup>	Intelligent Fuzzy Computing for Biomedical Signal Analysis	<b>PD Dr. Mohit Kumar</b> , Institute for Preventive Medicine, University of Rostock/ Center for Life Science Automation, Rostock
17 <sup>15</sup> – 18 <sup>00</sup>	Modeling bone-cells electrotaxis	<b>M.Sc. Juan Carlos Vanegas- Acosta</b> , Department of Electrical Engineering, Technical University of Eindhoven
18 <sup>30</sup>	<b>Working Dinner</b>	

Location:

Marine Science Center (MSC), Am Yachthafen 3a, 18119 Rostock, Tel +49-381-50408181, [www.msc-mv.de](http://www.msc-mv.de)

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Friday 3. February 2012

Time	Title of talk	Presenter
9 <sup>30</sup> -10 <sup>15</sup> am	Role of biochemical and physical stimuli in cell differentiation	<b>Prof. Dr. Dieter Scharnweber</b> , Institut für Werkstoffwissenschaft, TU Dresden, Max Bergmann Center
10 <sup>15</sup> – 11 <sup>00</sup>	Bioelectrics: Manipulation of Living Cells with Pulsed Electric Fields and Plasma	<b>Prof. Dr. Jürgen Kolb</b> , Leibniz Institute for Plasma Science and Technology Greifswald & Institute of Physics, University of Rostock
11 <sup>00</sup> – 11 <sup>20</sup>	<b>Coffee break</b>	
11 <sup>20</sup> – 12 <sup>05</sup>	Theoretical Biophysics of Multimodal Integration: A Vista of Challenges and Implementations	<b>Prof. Dr. J. Leo van Hemmen</b> , Theoretical Biophysics Physik Department T35 TU Munich
12 <sup>05</sup> – 13 <sup>00</sup>	<b>Lunch</b>	
13 <sup>00</sup> – 13 <sup>45</sup>	Microscopic 3D electromagnetic particle-in-cell simulations (MicPIC)	<b>Prof. Dr. Thomas Fennel</b> , Institute of Physics, University of Rostock
13 <sup>45</sup> – 14 <sup>30</sup>	Structure and Dynamics of Clusters, Liquids and Biomolecules - Insights from Molecular Dynamics Simulations	<b>Prof. Dr. Ralf Ludwig</b> University of Rostock Institute of Chemistry Physical and Theoretical Chemistry
14 <sup>30</sup> – 15 <sup>30</sup>	Demonstrations / computer simulation: o 24/7 Mobile Monitoring of Mental Stress	<b>PD Dr. Mohit Kumar</b>
15 <sup>30</sup>	<b>Closing remarks and Departure</b>	<b>Prof. Dr. Ursula van Rienen</b> , Institute of General Electrical Engineering, University of Rostock

Location:

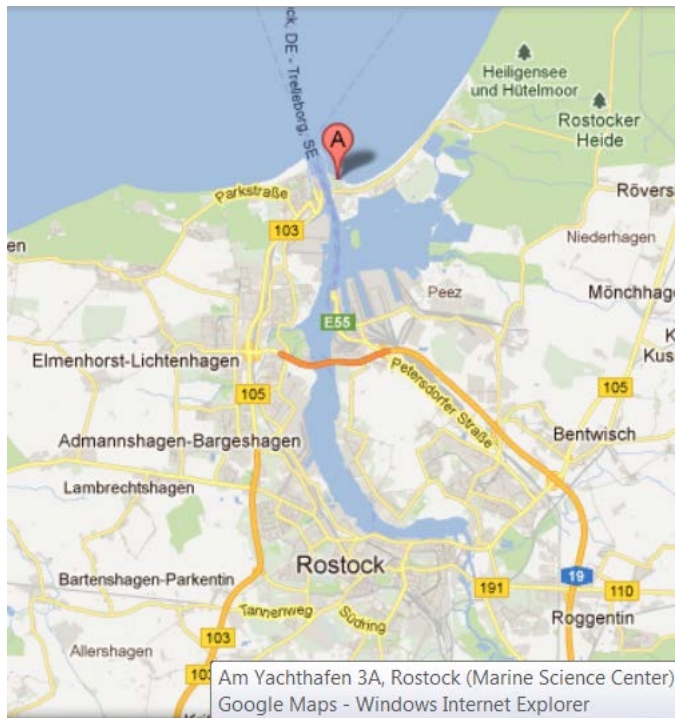
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## Workshop location:



## Accomodation:

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