

WEDNESDAY, MAY 30 "MOTIVATION DAY"

9:00 Registration open (welcome coffee)

10:00 Welcome (U101)

10:30 Keynote speeches (chair: Prof. H.-G. Rubahn)

- Prof. Kjeld Pedersen, Aalborg University, Denmark, *Nanoscale materials for solar absorbers and thermal emitters*
- Dr. Lars Heepe, Kiel University, Germany, *Biological surfaces as templates for (nano)biomimicry: selected examples*
- Dr. Emerson Coy, Adam Mickiewicz University in Poznan, Poland, *Functionally Graded Nanocomposite Materials as a Multifunctional Platform for Electronics, Energy and Life Sciences*
- Prof. Mady Elbahri, Aalto University, Finland, *Specular Reflective Plasmonic Coloration*

12:30 Lunch break

13:15 Topical fora I (chair: Prof. S. Tamulevicius)

- Prof. Franz Faupel, Kiel University, Germany, *Functional Nanocomposites – From Fabrication to Function*
- Prof. Holger Kersten, Kiel University, Germany, *Non-conventional diagnostics of process plasmas used for surface modification*
- Prof. Ulf Helmersson, Linköping University, Sweden, *The generation of nanoparticles and thin films using pulsed high-power plasmas*
- Dr. Cenk Aktas, Kiel University, Germany, *Functional Surfaces*
- Assoc. Prof. Frank Balzer, SDU, Denmark, *Excitons in Neat and Blended Squaraine Thin Films*

15:30 Coffee break

15:45 Topical fora II (chair: Prof. F. Faupel)

- Assoc. Prof. Morten Madsen, SDU, Denmark, *Printed thin film photovoltaics*
- Assoc. Prof. Brian Julsgaard, Århus University, Denmark, *Improving the efficiency of solar cells by upconverting sunlight using optimized field-enhancing nano-structures*
- Adj. Prof. Dr. Stephan Roth, DESY, Germany and KTH Stockholm, *Sputter coating – nanostructure formation observed in real-time*
- Assoc. Prof. Jonathan Brewer, SDU, Denmark, *Helium Ion and Optical Microscopy of Spider Silk*

18:00 Welcome reception

THURSDAY, MAY 31 "INNOVATION DAY"

8:30 Registration open

9:00 Morning Session (chair: Assoc. Prof. J. Fiutowski, U101)

- Prof. N. Asger Mortensen, SDU, Denmark, *Plasmonic Nanostructures for Enhanced Light-matter: Interactions: From Fundamentals to Applications*
- Prof. Dr. Rainer Adelung, Kiel University, Germany, *Porosity as key element for the macroscopic impact of nanostructures?*
- Prof. Christine Selhuber-Unkel, Kiel University, Germany, *Controlling cells by micro- and nanostructured 3D scaffolds*

10:20 Coffee break

10:35 Topical fora III (chair: Dr. C. Ohrt)

- Assoc. Prof. Donats Erts, University of Latvia, Latvia, *Creation of nanowire-based nanoelectromechanical switches*
- Dr. Antonio Casares, Carl Zeiss Microscopy, Germany, *Multiscale and Multimodal Microscopy: XRAY & MultiSEM*
- Dr. Lars Lindvold, Stensborg A/S, Denmark, *High throughput Nanoimprint Lithography - HoloPrint®*
- Jens W. Larsen, CEO Polyteknik AS, Denmark, *FLEXURA PVD Systems from Polyteknik*

12:15 Lunch break

13:00 Topical fora IV (chair: Prof. H.-G. Rubahn)

- Dr. Ala Cojocar, Phi-Stone AG, Germany, *The technology transfer way from research to industrial GMP production*
- Dr. Hans-Jürgen Donath, DESY, Germany, *Baltic Tram Project*
- Dr. Andris Anspoks, University of Latvia, Latvia, *Nanotechnology development in Institute of Solid State Physics and innovation ecosystem in Latvia*

14:15 Coffee break

14:30 Entrepreneurship forum (chair: Assoc. Prof. S. Tegtmeier)

Parallel workshops:

- Innovation across borders - creating new business models from academic hi-tech spinoff projects (Innovation Lab)
- Rollflex workshop (M301)
- Green PE workshop (M201)

16:00 Poster session (chair: Assist. Prof. Till Leissner)

19:00 Conference dinner

FRIDAY, JUNE 1 "YOUNG RESEARCHERS DAY"

9:00 Registration open

9:30 Talks of Postdocs, Ph.D. students and students (chair: Assoc. Prof. J. Fiutowski, U109)

- Michela Prete, SDU, Denmark, *Stability of organic solar cells*
- Carlos Bravo Costa, SDU/AmiNIC ApS, Denmark, *Functionalization of MEMS biosensors for cadaverine detection*
- Elodie Destouesse, SDU, Denmark, *Printing and up-scaling of highly efficient organic solar cells*
- Damian Maziukiewicz, Adam Mickiewicz University, Poland, *Nanodiamonds-based conjugates for glioblastoma multi-forme photothermal therapy*
- Zachary Glover, SDU, Denmark, *Nano to Macro scale investigation of the reconstitution, structure and formation of dairy systems and gels: Use of Super-resolution microscopy and Ultrasound Spectroscopy*
- Elzbieta Sobolewska, SDU, Denmark, *Excitation of surface plasmon polaritons in nanostructured organic hybrid systems*

11:00 Coffee break

11:15 TEI session

- Sönke Wolter, SDU, Denmark, *Factors influencing SME decision making when investing in Industry 4.0 technologies*
- Kari Kleine, SDU, Denmark, *Educating for technology entrepreneurship – insights from an engineering program*
- Ali Ahmad Malik, SDU, Denmark, *Digital-twins in lean automation*

12:30 Best poster award, closing remarks

12:45 Lunch and departure