

11-th International Conference-School
„ADVANCED MATERIALS AND TECHNOLOGIES“
Palanga August 27-31, 2009

Programme

August 27, Thursday

10:00 – 18:00 Arrival and registration

August 28, Friday

Chairman – prof. S. Tamulevičius

8:30 – 8:45 Opening

8:45 – 9:30 Prof. A. Ramanavičius (Vilnius University, Lithuania) **Nanostructured conducting polymers for biosensor design**

9:30 – 10:15 Prof. A. Malkov (Loughborough University, UK) **New supported catalysts for parallel chemistry in drug discovery**

10:15 – 11:00 Prof. J. V. Gražulevičius (Kaunas University of Technology, Lithuania) **Organic electroactive materials for optoelectronic and electronic applications**

11:00 – 11:15 Coffee break

11:15 – 12:00 Dr. V. Gulbinas (Institute of Physics, Lithuania) **Exciton and charge carrier dynamics in conjugated polymers**

12:00 – 12:45 Prof. V. Yashchuk (Kyiv National Taras Shevchenko University, Ukraine) **The electronic processes in pi-electron-containing synthetic and biopolymers. The fundamental and applied aspects**

12:45 – 13:30 Dr. D. Hertel (University of Cologne, Germany) **Organic LEDs: photophysics, charge transport, and bimolecular processes**

13:30 – 14:15 Dr. M. Hornung (SUSS MicroTec Lithography GmbH, Germany) **Substrate conformal nanoimprint lithography technique for LED manufacturing**

14:15– 18:00 Break

18:00 – 22:00 Discussions and welcome party

August 29, Saturday*Chairman – prof. J.V. Gražulevičius*

- 8:30 – 9:30** Prof. U. Schubert (Vienna University of Technology, Austria) **Sol-Gel nanocomposite materials from molecular building blocks**
- 9:30 – 10:30** Prof. A. Matulis (Semiconductor Physics Institute, Lithuania) **Graphene and polymers**
- 10:30 – 11:15** J. Ch. Stinville (LMPM, France) **Plasma nitriding of 316L austenitic stainless steel: experimental investigation of the fatigue life and surface damage**
- 11:15 – 11:30** **Coffee break**
- 11:30 – 13:00** Prof. A. Žukauskas (Vilnius University, Lithuania) **Colour quality of lighting**
- 13:00 – 13:45** Prof. J. Vilemas (Lithuanian Energy Institute, Lithuania) **Future of renewable energy and new materials**
- 13:45 – 15:00** **Break**
- 15:00 – 16:00** **Exposition of posters**
- 16:00 – 22:00** **Excursion** (Lithuanian beer and basketball)

August 30, Sunday*Chairman – prof. A. Matulis*

- 8:30 – 9:30** Dr. D. Erts (University of Latvia, Latvia) **Nanoelectromechanical systems**
- 9:30 – 10:15** Prof. M. Szymonski (Jagiellonian University, Poland) **Atomic scale technologies for assembling, characterization, and manipulation of nanostructures at solid surfaces**
- 10:15 – 11:00** Prof. G. Juzeliūnas (Institute of Theoretical Physics and Astronomy of Vilnius University, Lithuania) **Surface polaritons in metamaterials**
- 11:00 – 11:15** **Coffee break**
- 11:15 – 12:30** Prof. U. Kreibig (I. Physikalisches Institut IA, Germany) **Fundamentals of linear nanooptics and nanoplasmonics**
- 12:30 – 13:15** Prof. F. Balzer (Syddansk Universitet, Denmark) **Organic Nanowires**
- 13:15 – 14:00** Prof. P. Villechaise (LMPM, France) **Contribution of EBSD to the analysis of microstructures and basic mechanisms of deformation and damage in metals**
- 14:00 – 16:00** **Break**
- 16:00 – 18:00** **Poster Session** *Chairman – prof. U. Kreibig, dr. M. Andrulevičius*

August 31, Monday*Chairman – prof. F. Balzer*

- 8:30 – 9:15** Prof. M. Ichimura (Nagoya Institute of Technology, Japan) **Introduction to SiC materials and devices**
- 9:15 – 10:00** Dr. M. Kato (Nagoya Institute of Technology, Japan) **Characterization of deep level and carrier lifetime in silicon carbide**
- 10:00 – 10:45** Prof. S. Mattsson (Malmö University Hospital, Sweden) **Recent technical developments and trends in medical X-ray and molecular imaging**
- 10:45 – 11:30** Prof. D. Adlienė (Kaunas University of Technology, Lithuania) **Radiation detectors for medical applications: materials and methods**
- 11:30** **Departure**