

**The Conference - School** is intended for young scientists and Ph.D. students interested in Materials Science and Condensed Matter Physics. This year the Conference-School is devoted to the advanced methods of spectroscopy and microscopy; UV optoelectronics; computational modelling of materials; nanotechnologies and nanomaterials, fluctuation techniques and terahertz photonics. The lectures, poster presentations, round table discussions with industry representatives as well as COST information day will be organized.

#### Topics and areas

- Methods of analysis;
- Surfaces and nanostructures;
- Ceramics;
- Polymers and composites;
- Advanced engineering materials;
- Electronic and optical materials.

#### Important dates:

- **May 6, 2008** deadline for the registration and abstracts;
- **May 31, 2008** payment of the registration fee and deposit of one day accommodation;
- **June 17, 2008** final announcement;
- **August 27, 2008** beginning of the Conference - School.

#### Further information:

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**Registration:** <http://fmf.ktu.lt/amtpalanga>  
**Website:** [http://www.ktu.lt/lt/index2\\_3.html](http://www.ktu.lt/lt/index2_3.html)

#### Organizers:

Institute of Physical Electronics of KTU (FEI)  
Kaunas University of Technology (KTU)  
Institute of Theoretical Physics and Astronomy of Vilnius University (VU TFAI)  
Vilnius Gediminas Technical University (VGTU)  
Semiconductor Physics Institute (PFI)  
Vilnius University (VU)  
Lithuanian Energy Institute (LEI)  
Institute of Solid State Physics University of Latvia (ISSP)

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MSc student A. Šileikaitė (KTU)  
MSc student T. Tamulevičius (KTU)  
BSc student R. Balčiūnas (KTU)  
BSc student A. Vasiliauskas (KTU)

#### Sponsors:

Lithuanian State Science and Studies Foundation  
Lithuanian Ministry of Education and Science  
JSC "Grida lab"  
Kaunas Regional Innovation Centre  
JSC "Technologija"



**First Announcement**

## The 10-th International Conference-School

## ADVANCED MATERIALS AND TECHNOLOGIES

**August 27-31, 2008  
Palanga (Lithuania)**

## Tentative list of presentations:

**Matti Alatalo** (Lappeenranta University of Technology, Finland), *"Computational modeling of Cu oxidation"*

**David L. Andrews** (Nanostructures and Photomolecular Systems School of Chemical Sciences, University of East Anglia, U.K.) *"Optical principles, systems and applications"*

**Jonas Baltrušaitis** (Department of Chemistry, and Central Microscopy Research Facility, University of Iowa, Iowa, USA), *"Correlative microscopy and spectroscopy in materials analysis"*

**Henrikas Česiulis** (Department of Physical Chemistry, Faculty of Chemistry, Vilnius University, Vilnius, Lithuania), *"Electrochemical synthesis of nanostructured materials and their applications"*

**Arvidas Galdikas** (Kaunas University of Technology, Department of Physics, Kaunas, Lithuania), *"Computational Materials Science"*

**Joseph Gyulai** (Research Institute for Technical Physics and Material Science, HAS, Hungary), *"Micromachining, integration of micro- and nanotechnologies"*

**Vladimir Hizhnyakov** (Institute of Physics, University of Tartu, Estonia) *"Nonlinear dynamics: localization of vibrational energy in perfect crystal lattices"*

**Rimantas Kačianauskas** (Department of Strength of Materials Vilnius Gediminas Technical University, Vilnius, Lithuania), *"The Discrete Element Method - New Prospects in Modelling of Materials"*

**Ales Kroupa** (Department of Structure, Institute of Physics of Materials Academy of Sciences of the Czech Republic), *"The problems of lead free soldering and the use of nanoscale approach to search for the solution"*

**Rimantas Levinskas** (Lithuanian Energy Institute, Kaunas, Lithuania), *"High temperature plant lifetime extension"*

**Arvydas Matulionis** (Semiconductor Physics Institute, Vilnius, Lithuania), *"Fluctuation techniques for investigation of ultrafast processes"*

**Biljana Stojanovic** (Centre for Multidisciplinary Studies University of Belgrade, Serbia), *"Challenges in electroceramics produced from nanopowders: properties and application"*

**Gintautas Tamulaitis** (Semiconductor Physics Department Vilnius University, Vilnius, Lithuania), *"UV optoelectronics: materials, devices, applications"*

**Leonas Valkūnas** (Institute of Physics, Vilnius, Lithuania), *"Advanced molecular spectroscopy"*

**Gintaras Valušis** (Semiconductor Physics Institute, Vilnius, Lithuania), *"Components for terahertz photonics"*

**Shimon Levit** (Department of Condensed Matter Physics, Weizmann Institute, Rehovot, Israel) *"Semiconductor Spin Optics with Squeezed Photons"*

**Rimas Vaišnys** (Yale University, USA) *"The study of truly advanced materials: people"*

*Duration of the oral presentation lecture: 45 or 90 minutes*

## Place:

Hotel "Žilvinas" Kestucio str. 26; Palanga, Lithuania and KTU hotel "Politechnika", S.Dariaus ir S.Girėno str. 37, Palanga, Lithuania.

## Registration fee:

**35 LTL** (10 EUR) for the students and **70 LTL** (20 EUR) for other participants. It includes book of abstracts, participation in all sessions and conference events (coffee breaks, conference welcome party and excursion).

The registration fee does not include accommodation costs!

## Accommodation costs:

Approximately 30 LTL per day per person.

## (KTU hotel "Politechnika")

For prices in hotel "Žilvinas" please visit the website: <http://www.baltijahotel.lt/>

## Abstracts and proceedings:

The **book of Abstracts** in printed version will be distributed during the Conference-School.

The participants, wishing to give oral or poster presentations, are kindly asked to submit the abstract (up to 1200 characters) in electronic version.

Manuscripts should be prepared following the requirements:

Microsoft Word , font Arial:

	Font, pt	Style
<b>Title</b>	11	Bold
<b>Authors</b>	9	Bold
<i>Institution</i>	9	Italic
Main text	9	Normal
References	8	Normal
<i>Keywords</i>	9	Italic
Line spacing	1	

Page set up: paper size A4, margins: top- 18 mm, bottom- 98 mm, left- 17 mm, right- 80 mm.

First line of the paragraph tabulator position - 7 mm.

The abstract should be sent by e-mail to the secretary of the conference.

## **The text will not be edited.**

The lecturers are kindly asked to deliver materials of the lecture (electronic version) to the Organizing Committee during the registration. **The materials of oral presentations** will be published on CD and will be sent after the conference to all the participants.

## PALANGA



Palanga is an international seacoast resort for active recreation and rehabilitation treatment also offering a wide range of entertainments. It became a famous resort in early XX century and presently is one of the largest resorts and tourism centres of Lithuania. As a recreation place, it has already operated for a century and a half. People come here to escape their daily urbanized routines and gain strength from natural resources: the sun, sea water and fresh pine-forests' air. There also are many things to see in Palanga: from the wonderful white sand beaches and variety of remarkable landscapes to Museum of Amber, Botanical Gardens, Birute's hill and Church of Saint Marie. It is also a fine place to have a great night out with your friends in one of the bars and nightclubs, of which the town now has plenty.

Palanga has its own small airport with the international flights from the United Kingdom, Ireland, Norway and Denmark. One can also use Vilnius international airport - still the most convenient way to enter Lithuania. More detailed information about Lithuania and Palanga can be found on the websites:

<http://www.tourism.lt>

<http://www.palanga.lt>