

The Conference - School is intended for young scientists and PhD students interested in Materials Science and Condensed Matter Physics. This year the Conference - School is devoted to the spintronics devices and materials, semiconductor physics and technology, organic molecules, quantum information, advanced materials and structures for energy applications, characterization techniques such as X-ray spectroscopy, neutron scattering and etc. The lectures and poster presentations 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

- »**June 20, 2010** deadline for the registration and abstract;
- »**June 28, 2010** notification of acceptance;
- »**July 12, 2010** deadline for reduced registration fee;
- »**July 18, 2010** final announcement;
- »**August 27, 2010** beginning of the Conference - School

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Registration and information:
www.fei.lt/amtpalanga

Organizers

Lithuanian Materials Research Society (LT-MRS)
Institute of Materials Science of KTU (MMI)
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)
University of Latvia (LU)

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First Announcement

The 12th International Conference-School

ADVANCED MATERIALS AND TECHNOLOGIES

August 27-31, 2010
Palanga



Tentative list of lectures

Erika Andersson (Herriot Watt University, **UK**)

Introduction to quantum information theory;

Francesco Basile (Universita di Bologna, **Italy**) Catalysis for hydrogen production;

Artur Braun (EMPA, **Switzerland**), Probing energy materials at the molecular scale with X-ray spectroscopy and neutron scattering;

Eugenijus Butkus (Vilnius University, **Lithuania**) Crystal engineering and supramolecular architectures designed by bicyclic organic molecules;

Antanas Daugėla (Seagate Technology, **USA**), Exploring material properties at nanoscale: current status and new trends;

Yuri Dekhtyar (Riga Technical University, **Latvia**), Prethreshold electron emission for characterization and targeting applications of nanoobjects;

John S. Hammond (Physical Electronics, **USA**), Multilayer thin film characterization of semiconductor materials, organic electronics and biomaterials;

Justin Holmes (National University of Ireland, **Ireland**), Synthesis and applications of 1D semiconductors;

Eimutis Juzeliūnas (University of Cambridge, **UK**), Silicon electrochemistry - expanding horizons of photovoltaics;

Vaidotas Kažukauskas (Vilnius University, **Lithuania**), Organic photovoltaics for solar energy harvesting: status quo and challenges related to charge transport;

Arūnas Krotkus (PFI, **Lithuania**), Dilute bismides and their applications in optoelectronic devices;

Edmundas Kuokštis (Vilnius University, **Lithuania**), Carrier localization and radiative recombination of nitride-based semiconductor compounds;

Patrick Öhberg (Herriot Watt University, **UK**) Quantum nano-cantilevers;

Yasemin Oztekin (Selcuk University, **Turkey**) Recent developments on ion-exchange membranes and electro-membrane processes;

Claude Templier (University of Poitiers, **France**), Influence of the crystallographic orientation on the microstructure and properties of plasma nitrided polycrystalline austenitic stainless steel 316L;

Juozas Vaitkus (Vilnius University, **Lithuania**) Defect engineering for modification of semiconductor parameters;

Bonifacas Vengalis (PFI, **Lithuania**), Recent advances in spintronics devices and related materials;

Artūras Žalga (Vilnius University, **Lithuania**) Preparation and characterization of different molybdate-wolframate materials.

Duration of oral presentation lecture: 45 or 90 minutes

Place:

» Hotel "Palangos Vėtra", Daukanto str. 35, Palanga, Lithuania.

Registration fee:

Before July 12

» **50 LTL** (15 EUR) for the students;

» **100 LTL** (30 EUR) for other participants.

After July 12

» **70 LTL** (20 EUR) for the students;

» **140 LTL** (40 EUR) for other participants.

It includes book of abstracts, participation in all sessions and conference events (coffee breaks and conference welcome party).

The registration fee does not include accommodation costs!

Accommodation costs:

» Hotels "Palangos vėtra" and "Austėja" offer special prices for participants of the conference. More information can be found on the conference web page.

Abstracts and lecture materials:

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.

The abstract should be uploaded after the registration on the website www.fei.lt/amtpalanga/upload.php. **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

Full papers of the presentations after review can be published in journal "Materials Science-Medžiagotyra" (included in the Web of Science of Institute of Scientific Information). The papers prepared according to the requirements of the journal should be presented during the registration. For more information see conference web page.

Posters should fit within 1.1 m x 0.9 m !!!



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 from 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 plan 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 Norway, Denmark and Latvia. One can also use Kaunas airport or 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>

<http://www.palangatic.lt/en.php/>