

# XXXI ECLIM

## Second Announcement

### 31<sup>st</sup> European Conference on Laser Interaction with Matter

September 6-10, 2010  
Budapest, Danubius Hotel Gellért  
Hungary



Sponsored by:

**National Office for Research and Technology, Hungary**

**Thales Laser Co. Ltd., [www.thales-laser.com/](http://www.thales-laser.com/)**

**Femtolasers GmbH, [www.femtolasers.com](http://www.femtolasers.com)**

## General Information

**The 31<sup>st</sup> European Conference on Laser Interaction with Matter**  
the ECLIM 2010 will be held in Budapest, Hungary, September 6-10, 2010.

The conference continues a traditional series of meetings in the field of the interaction of high-power lasers with matter. In the year of the 50<sup>th</sup> anniversary of the invention of lasers it will be a good opportunity to assemble and to exchange ideas in the country where the Attosecond Facility of the ELI laser will be constructed.

The International Scientific Committee and the Local Organizing Committee invite you to attend the conference and to submit an abstract on your latest scientific achievements.

## Venue and Date

The conference will take place in the traditional Danubius Hotel Gellért in Budapest. All the conference lectures, poster sessions, workshops and meals will take place at the same site.

## Conference Topics

1. High Power Lasers and Ignition Facilities
2. Inertial Fusion Energy, Including Fast Ignition
3. Hot-Dense Plasma Atomic Processes
4. Interactions with Ultrashort Laser Pulses, Attophysics
5. Diagnostics
6. Equation of State
7. Hydrodynamics and Instabilities
8. Laser- and Ion Beam Interaction with Matter
9. Laboratory Astrophysics
10. Novel X-ray and EUV Sources, X-ray Lasers
11. Laser Acceleration, Nuclear and Particle Physics with Ultra Intense Lasers
12. Innovative Laser Systems, Short-Pulse Lasers

**A special session will be devoted to ELI-related activities and a HiPER-related session is being organized as well.**

## Invited Lectures

**TEODORA BAEVA**, Rutherford Appleton Laboratory, UK: *Coherent X-rays and fast electrons in relativistic overdense laser-plasmas*

**KEN BARAT**, Lawrence Berkeley National Lab. USA  
*Laser Safety at High Profile Laser Facilities*

**DIMITRIOS CHARALAMBIDIS**, Univ. Crete, Greece  
*News and views from the attosecond generation, characterization and applications frontier*

**SEE LEANG CHIN**, Univ. Laval, Canada  
*Intense femtosecond laser filamentation science*

**DIRK GERICKE**, Univ. Warwick, UK  
*Interaction of energetic ions with high density plasmas*

**LEONIDA A. GIZZI**, CNR and INFN - Pisa, Italy  
*High Gradient Acceleration with the FLAME Laser at LNF-FRASCATI*

**ALEXANDER GOLUBEV**, Institute for Theoretical and Experimental Physics (ITEP), Russia  
*Intense ions for high energy density in matter research*

**HONG JIN KONG**, KAIST, Korea  
*Coherent beam combination of wave-front divided 4 beams by phase controlled stimulated Brillouin scattering phase conjugation mirrors toward the realization of the practical laser fusion driver*

**FERENC KRAUSZ**, Max-Planck-Institut für Quantenoptik, Germany  
*Attosecond Physics*

**GEORGE KYRALA**, Los Alamos National Lab. USA  
*Measuring implosion symmetry on the NIF laser*

**TAMMY MA**, Lawrence Livermore National Laboratory, USA  
*Effects of Preplasma on Hot Electron Coupling and Propagation in Cone Attached Wire Targets*

**MATTIAS MARKLUND**, Umeå Universitet, Sweden

**GERARD MOUROU**, Ecole Polytechnique, France

**DAVID NEELY**, Rutherford Appleton Laboratory, UK  
*Ion beams - advances in spectral and efficiency control*

**GERHARD G. PAULUS**, Institute of Optics and Quantum Electronics Jena, Germany: *POLARIS: a petawatt-class all-diode pumped solid-state laser*

**CHARLES KIRKHAM RHODES**, Univ. Illinois, USA  
*The Ideal Amplifier: Xe(L) at  $\lambda \sim 2.9 \text{ \AA}$  with Xenon Clusters*

**DAVID ROS**, LASERIX, France  
*LASERIX : an open facility for developments of Soft X-ray and EUV lasers and Applications*

**GUY SCHURTZ**, CELIA, Bordeaux, France  
*Shock Ignition: a New Perspective for Inertial Fusion Energy*

**JOHN SETHIAN**, NRL, USA

*Inertial Fusion Energy with Krypton Fluoride Lasers*

**TOSHIKI TAJIMA**, Ludwig Maximilians Univ. Germany

*Laser acceleration and high field science*

**HIDEAKI TAKABE**, ILE Osaka Univ., Japan

*Laser Astrophysics on Weibel-instability-mediated Collisionless Shock Formation and Physics of Origin of Cosmic-Rays – Theory, Computation, Scalings, and Experiments*

**CSABA TÓTH**, Lawrence Berkeley National Lab. USA

*Radiation sources based on laser plasma accelerators*

## Contributed Papers

The deadline for registration and submission of the abstracts is **June 30, 2010**.

Contributed papers are to be presented either in a limited number of oral lectures and in poster sessions.

The Book of Abstracts will be distributed to participants at the beginning of the conference.

All contributed papers will be referred by the international scientific committee and may be rejected on scientific grounds.

## Registration and Conference Fees

Registration form is available at the conference web-site (<http://top-congress.hu/2010/eclim>). Conference fees for participants and accompanying persons are detailed at the conference web site. A fee reduction will be applied to students.

<b>Rates (in €)</b>	<b>Early</b> (before June 30)	<b>Late</b> (after July 1)
Regular participant	310 €	360 €
Students' fee (a copy of valid students' ID is required)	250 €	-
Accompanying Persons	250 €	250 €

## Accommodation

Accommodation is available for special rates at the Conference Hotel, Danubius Hotel Gellért. It is an Art Nouveau Style Hotel, one of the most traditional hotel in Budapest on the Danube river bank. It houses the world-famous Gellért Spa offering splendid indoor bathing. Note that special rates for this Hotel is available only until July 1. The conference website (<http://top-congress.hu/2010/eclim>) offers accommodation in the Hotel Mercure Budapest Corona, too, which is 5 minutes walk from the conference site crossing the Danube.

## **International Scientific Committee**

**I. B. Földes, Hungary (Chairman)**

**A. Caruso, Italy**

**C. Deutsch, France**

**M. Dunne, U.K.**

**S. Eliezer, Israel**

**H. Fiedorowicz, Poland**

**D.H.H. Hoffmann, Germany**

**M. Kalal, Czech Republic**

**O. Krokhin, Russia**

**T. Mendonça, Portugal**

**G. Velarde, Spain**

## **Conference Secretary**

**Péter Dombi**

## **Local Organizing Committee**

**Zoltán Szőkefalvi Nagy (Chair)**

**Gagik Djotyan**

**Péter Rácz**

**Nóra Sándor**

## **Deadlines**

The deadline for early registration, and the deadline for abstract submission is June 30, 2010 at the conference website: <http://top-congress.hu/2010/eclim>

The early registration fee is accepted until 30th June, too.

## **Contact**

The e-mail address of the conference is [eclim@mail.kfki.hu](mailto:eclim@mail.kfki.hu)