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International Conference

ALT⁺12

Advanced Laser Technologies

2 – 6 September 2012, Thun, Switzerland



Second Announcement and Call for Papers

www.alt12.org

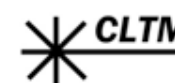


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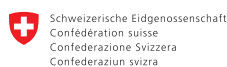
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and Surface Technologies



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For more information visit to:
www.alt12.org

Important dates

Abstract submission deadline	1 May 2012
Notification of acceptance	1 June 2012
Advanced Registration Fee payment deadline	15 June 2012
Conference Program	1 August 2012
Conference	2 – 6 September 2012

The ALT'12 Conference

The annual conference on Advanced Laser Technologies (ALT) takes place for the 20th time. In 2012, exactly after ten years, it returns to Switzerland.

It is focused on the recent developments and advances in laser technologies and their applications. This international conference was established in 1993 by the late Nobel Prize Laureate Alexander Prokhorov.

ALT'12 will be a wonderful occasion for fruitful discussions and for establishing contacts. Leading scientists are invited to give lectures reviewing the latest achievements in their field of research.

Key topics

- Laser – matter interaction and processing technologies
- Biophotonics
- Laser systems and materials
- Fiber lasers
- Laser diagnostics and spectroscopy
- Non-linear optics
- THz sources and applications
- Photoacoustics
- Micro- and nanophotonic devices

Plenary talks

Laser synthesis of nano-carbon structures Yongfeng Lu, University of Nebraska, Lincoln, USA	Small is beautiful? Challenges in micro- and nano-optics Hans Peter Herzog, EPFL, Neuchâtel, Switzerland
Dynamics of femtosecond laser interaction with dielectrics and towards semi-conductors Marc Sentis, CNRS – Aix-Marseille University, Marseille, France	THz Near-Field Imaging of Functional Meta-Materials Thomas Feurer, Universität Bern, Switzerland
Rare earth ion doped crystalline bulk and waveguide lasers in the visible and near infrared spectral range Günter Huber, Universität Hamburg, Germany	Fiber designs and signal modulation approaches for SBS mitigation in high-power optical fibers William Torruellas, Johns Hopkins University, Baltimore, USA
Picosecond Laser Ultrasonics: Achievements and Perspectives Vitaliy E. Gusev, CNRS-Université du Maine, Le Mans, France	Laser Processing of Carbon-fiber-reinforced polymer (CFRP) Rudolf Weber, Universität Stuttgart, Germany
Mechanism of femtosecond laser nano-ablation for metals Masaki Hashida, Kyoto University, Japan	Laser in synthesis, micro and nanofabrication of diamond materials Vitaliy I. Konov, Natural Sciences Center, GPI, Moscow, Russia
Contact Laser-Ultrasonic Evaluation Alexander A. Karabutov, International Laser Center, MSU, Moscow, Russia	Ultrafast solid-state laser oscillators Ursula Keller, ETH Zürich, Switzerland

Presentations

- Invited presentations (on topics of general interest)
- Specialized oral parallel sessions
- Poster session

Contributions

Summary of presentations

The authors are invited to submit a summary with a maximum length of two pages. A template and instructions for submission will be available on the web page. The submission will be open from 1 March to 1 May 2012.

Poster presentations

The authors who will present their work at the poster session will be asked to submit their poster in electronic form prior to the conference.

Organizers

- Bern University for Applied Sciences, BUAS, Institute for Applied Laser, Photonics and Surface Technology, ALPS, Switzerland
- General Physics Institute of the Russian Academy of Sciences, Russia
- International Laser Centre of Moscow State University, Russia
- Center of Laser Technology and Material Science, Russia

Meeting venue

The conference will take place at the GWATT-Zentrum located close to Thun in the Bernese Oberland, situated directly at the lakefront of the beautiful Thunersee.

Accommodation

The accommodation will be in the GWATT-Zentrum itself and in nearby hotels. Please consult the web page for more details.

Language

The official language of the conference will be English.

Conference registration fees

Regular conference fee:

CHF 614 (incl. bank charges)

Reduced student (up to PhD candidate) fee:

CHF 490 (incl. bank charges)

Accompanying person: CHF 250

This includes:

- Access to conference
- Book of abstracts
- Welcome reception
- Lunch during the conference
- Poster session on boat with refreshments
- Conference dinner

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For registrations after 15 June 2012 an additional late registration fee of CHF 50 will be charged. (664 / 540 / 300)