

Trends and new developments in Laser Technology

24-28 August 2015

Technical University of Dresden, Fraunhofer IWS, Dresden, Germany

The Fraunhofer Institute for Material and Beam Technology (IWS) and the Technical University of Dresden organizes for the fourth time the International Summer School "Trends and new developments in Laser Technology" from August 24 until 28, 2015. This one-week International Summer School aims to bring together undergraduate and PhD students for an intensive programme of study on fundamental and applied aspects of laser technology.

The main programme will consist of lectures by renowned experts, supplemented by poster presentations and informal discussion sessions, as well as practices in the laboratory. The course aims to enable the exchange of new ideas across these fields.

Topics

- Surface hardening technologies
- High speed 2D laser cutting
- Laser welding
- Additive manufacturing processes
- Applications of ultra short pulsed lasers
- Laser process simulation
- Laser microstructuring, laser interference patterning

In addition, the programme will include:

- Participant presentations (15 minutes)
- 4 practices at IWS laboratories

Participants will have the chance to submit their work in a **proceeding's book** to be published by **Springer Verlag** (book with ISBN, 5 to 7 pages manuscripts)

Summer school fees

University students: 50 € (exception for students from the *Technische Universität Dresden*: 0 €)

Companies and non-students: 200 €

Deadlines

Registration: June 30

Submission of participant presentation title (**optional**): June 30, 2015 *

Acceptance notification of authors: July 1, 2015

On-line registration:

www.iws.fraunhofer.de/summerschool

Summer School Chairman:

Prof. Andrés Lasagni

Chair for Large Area Based Surface micro/nano-Structuring,
Technical University of Dresden
Working Group Surface Functionalization, Fraunhofer Institute for Material and Beam Technology IWS

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www.iws.fraunhofer.de

Associated Partner:



* For a limited number of persons. Participants submitting a short presentation will have priority for the practices at the IWS laboratories.



Over 40 researchers from 11 countries including Spain, Italy, Great Britain, Lithuania, Finland and Switzerland attended the 2014 school which also provided a unique networking opportunity for attendees.