

## Registration by fax

+ 49 6732 935 123

Title, Last name, First name

Company

E-Mail

Street (invoice address)

ZIP Code, City (invoice address)

Signature

With my signature I accept the terms and conditions of Photonics Hub GmbH (available at [www.photonics-hub.de/kontakt/agb](http://www.photonics-hub.de/kontakt/agb)).

Note: According to Art 6 GDPR (EU General Data Protection Regulation) we inform you about the electronic storage of your data and the processing in the automatic procedure.

## Online registration

[www.photonics-hub.de/Veranstaltungen](http://www.photonics-hub.de/Veranstaltungen)

## Location

LASER World of Photonics 2019

Messegelände

81823 Munich

Conference room B13, 1. floor Hall B1/south side

## Attendance Fee

- Members of German Photonic Innovation Networks **170,00 € pp**  
(+19% VAT, corr. 202,30 € gross)
- Non-members **190,00 € pp**  
(+19% VAT, corr. 226,10 € gross)

The price includes entrance to the LASER World of Photonics 2019, drinks during the event and a course documentation. After registration you will receive a registration confirmation and the invoice. Cancellations are subject to the terms and conditions until 21 days before the event possible. Thereafter, the full participation fee is to be paid.

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## Short Course

# Introduction to Laser Material Processing



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Photonics  
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June 25th, 2019  
in Munich

# Introduction to Laser Material Processing

**This short course will give an overview on the basics in laser material processing.**

Starting with physical basics regarding

- forming of high power laser beams
- energy conservation and laser material processing

within the short course different processes as

- surface treatment and modification
- cutting and drilling with laser beams
- laser beam welding
- additive manufacturing using laser beams

will be presented and discussed with respect to industrial applications.

The short course is oriented to different questions, like

- Which are the process relevant parameters in laser material processing?
- Which lasers are useful in different processes and applications?
- What are the decisive factors in applying laser beams in real production?
- Are there new trends in laser material processing?

## Target Audience

The short course is addressed to potential users of laser material processes in industrial production and to persons responsible for innovation and new developments in industrial companies.

## Programme

- 09:00 **Physical Basics: Laser Material Processes and Applications I**
- 10:30 **Break "Coffee and Discussion"**
- 10:45 **Laser Material Processes and Applications II**
- 12:00 **Final Discussions**

In detail the programme will be oriented to the requirements of the audience. Therefore it will be flexible in content and timing and it will be open for continuous questions and discussions.

## Speaker



**Prof. Dr. Klaus Behler** is professor at the Technische Hochschule Mittelhessen University of Applied Sciences in Friedberg.

Since 1998 he give lectures in laser technology, physics, systematic development and quality management.

In these areas of activity he has a lot of cooperation with industrial companies regarding application related process development, technical consulting or enhancement in innovation management. A lot of his students are successfully employed in different companies related to high power laser systems, laser beam diagnostics, laser beam manufacturing for different industrial branches or also to medical or clinical system technology.

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