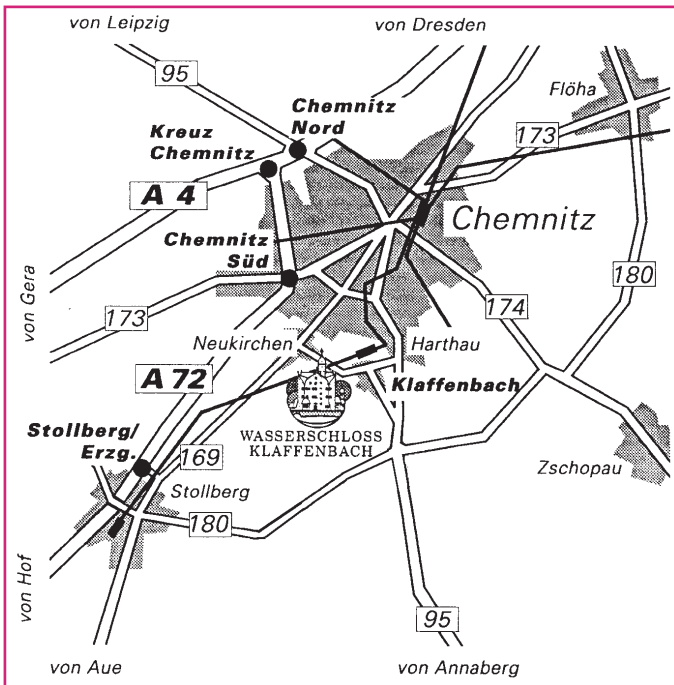


General informations



Venue:
Wasserschloss Klaffenbach
Wasserschlossweg 6
09123 Chemnitz
Tel.: (0371) 2 6110
www.schlosshotel-klaffenbach.de

Attendance fee and arrival:
Arrival and accommodation are individually, the attendance fee of **EUR 150,-** contains coffee break, lunch and dinner, registration documents as well as the culture program.

Organiser:



3D-Micromac AG
Annaberger Str. 240
D-09125 Chemnitz
Tel.: +49 (0)371 400 43-0
Fax: +49 (0)371 400 43-40
info@3d-micromac.com



Laser 2000 GmbH
Argelsrieder Feld 14
D-82234 Wessling
Tel. +49 (0)8153 405-0
Fax +49 (0)8153 405-33
contact@laser2000.de

More information: www.laser2000.de

Company/Institute _____ Department _____
Name, first name _____ Titel _____
Street _____ Number _____
Zip code, city, country _____ eMail address _____
Telephone with prefix _____ Sign and date _____

Yes, I will participate
 No, I do not participate, but I am interested in further information
The attendance fee of EUR 150,- will be invoiced after the registration. **Deadline for registrations is 14th August 2006.** I agree with the fact that my data are taken up to the list of participants and processed and stored for purposes of the ISL 06-Organisation.

Fax +49 (0)8153/405-33

More information and easy on-line registration: www.laser2000.de

Webcode: 9004

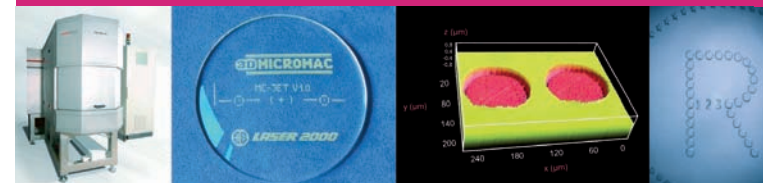
International Symposium on Laser-Micromachining



ISL

CHEMNITZ

13th. - 14th.
September 2006



Technologies and Applications

- Applications in micro systems technology and SEMI-Industry
- New horizons with short and ultra short pulsed lasers
- New lasers and components

Laser micro machining

Schlosshotel Klaffenbach

13th - 14th September 2006



Symposium topic

„Micro“ – one of the most mentioned words in the last years when it comes to technologies for the future. In almost all processes in industry the addition „Micro“ promises a more effective use of resources, lower production costs, producibility of new products, and after all the opening of new customer groups. This is also true for the laser machining. The questions that many end users have are: „How can micro technology open new markets for us? Is especially the laser micro machining a chance for our business?“

To answer these questions with innovative products, two leading companies of the laser sector came together in 2003 for a unique distribution partnership: Laser 2000 as one of the largest seller of laser technologies in Europe and 3D-Micromac AG as a specialist of systems for laser micro machining.

To give end users and laser specialists a new platform for information exchange and to present innovative solutions the first „International Symposium on Laser micro machining“ will be held this year in Chemnitz/Germany. With top-class lectures and speakers from industry and research the organizers want to point out the possibilities and chances of laser micro machining and give the participants an overview over novelties and solutions – individual and customer-oriented.

We look forward to your attendance and we expect exciting discussions and new impulses.



Tino Petsch
CEO/President
3D-Micromac AG



Gerold Simke
Head of business area
Laser micro machining
Laser 2000 GmbH

Wednesday, 13th September 2006

14:00 Salutation and opening speech*:

„Optical technologies: world market, past and future“
Prof. Dr. Gerd Marowsky, Laser-Laboratorium Göttingen e.V.

15:00 - 16:00 Femtosecond laser

Material processing with UV femtosecond pulses

Dr. Peter Simon, Laser-Laboratorium Göttingen e.V.

3D micro structuring of glasses and metals using femtosecond laser pulses

Steffen Weißmantel, Laserinstitut Mittelsachsen e.V.

Material processing with femtosecond pulses

Dr. Thomas Höche, 3D-Micromac AG

16:20 - 17:20 Short pulsed laser

Manufacturing with highest precision – where are the limits of laser processing?

Dr.-Ing. habil. Andreas Ostendorf, Laser Zentrum Hannover e.V.

Laser micro machining using ultra short pulsed lasers with different wavelengths and machine concepts, *Jens Hänel, 3D-Micromac AG*

Production in sealed separative enclosures – a perspective on future demands on cleanroom technology, *Joachim Ludwig, COLANDIS GmbH*

17:40 - 18:40 Free swing lesson...

Swing like Bernhard Langer

You will learn swinging, pitching and chipping. A condensed version of the rules of golf and etiquette are included. This is a good value that provides the fastest way to start playing. Why not learn here and play here!

15:00 - 16:00 High end laser machining

Laser micro technology for integrated-optical components of polymer basis
Prof. Dr. Simon Metev, BIAS - Bremer Institut für angewandte Strahltechnik

Micro structuring of wide band-gap materials using fluorine laser pulses
Prof. Dr. Günther Reißer, Laserinstitut Mittelsachsen e.V.

Laser Backside Etching – principles and applications, *Prof. Dr. Bernd Rauschenbach, Leibniz-Institut für Oberflächenmodifizierung e.V. (IOM)*

16:20 - 17:20 Laser in MEMS production

Laser trimming of silicon micro mirror devices

Dr.-Ing. Christian Kaufmann, TU Chemnitz, Zentrum für Mikrotechnologien

Laser trimming of fibre arrays

Dr. Michael Schmidt, Bayerisches Laserzentrum

High precision and cost efficient? – micro assembling on the test bench
Dr. Arnd Menschig, MiLaSys technologies GmbH

17:40 - 18:40 Laser applications

Laser drilling with helical drilling optic system, *Welf Wawers, ILT Aachen*

Laser in SEMI-Industry, *Dr. Bernd Keiper, 3D-Micromac AG*

Micro machining in Japan, *Akimi Watanabe, BEAMS Inc.*

from 19:00 evening program with dinner and music

Thursday, 14th September 2006

09:00 Salutation and opening speech:

„fs lasers in micro materials processing“
Prof. Dr. Wolfgang Kautek, Universität Wien, Inst. f. Physikalische Chemie

09:50 - 10:50 Micro laser sintering

RAPID – not just simple prototyping, actual trends

Prof. Dr.-Ing. habil. Gerd Witt, Universität Duisburg-Essen

e-Manufacturing, *Dr. Hans J. Langer, EOS AG*

Micro laser sintering – actual developments

Prof. Dr. Horst Exner, Laserinstitut Mittelsachsen e.V.

Industrial micro laser sintering of metallic materials

Tino Petsch, 3D-Micromac AG

11:30 - 12:10 Excimer laser

Application report of excimer lasers in ophthalmic industry

Jürgen Ruppel, Optiswiss AG

Unveiling of new solutions for progressive lens engraving and inking

Gerold Simke, Laser 2000 GmbH

09:50 - 10:50 Laser sources

Advanced diode-pumped femtosecond lasers

Eric Mottay, Amplitude Systèmes

ps-lasers with programmable pulse sequences for micro processing

Bernhard Klimt, LUMERA LASER GmbH

Nano second laser sources in industrial environments

Dr. Frank Maßmann und Dipl. Phys. André Schirmmacher, IB Laser AG

11:30 - 12:10 Laser applications

Printed RFID-systems produced by reel-to-reel process

Dr. Reinhard Baumann, TU Chemnitz

Laser sintering on the example material SiC

Dr. Reinhard Lenk, IKTS Dresden

Power and energy measurement for industrial applications

Dr. Andreas Stangassinger, Laser 2000 GmbH

12:10 - 13:10 Lunch

afterwards **departure or optional culture program:** Visit with us Dresden, a city of art and culture. Discover the beauty of this city with a boat travel on the Elbe river and an opera attendance in the world-famous Semperoper. We invite you cordially and look forward to a beautiful finale.

* all lectures are in english