



E-MRS 2004 SPRING MEETING
Palais de la Musique et des Congres
Strasbourg, France – May 24-28, 2004

**EMRS TECHNICAL FORUM ON: FIBER LASERS FOR MATERIALS
PROCESSING IN INDUSTRY**

May 24, 2004

Support by



Originally developed in the 1990's for optical telecommunications, fiber lasers now offer a serious alternative to solid-state and carbon dioxide lasers for industrial materials processing (Plastics, ceramics, metals...). Today, the production of high power systems capable of emitting several kW opens the market to major industrial sectors including the car and shipbuilding industries, aerospace, medical equipment...

This one-day international Technical Forum will be the unique opportunity to bring together both main source manufacturers and potential customers including scientists, engineers, developers and production managers. The goal is to provide the largest possible overview of the present status and future challenges of high power fiber lasers and their applications, especially in the field of laser marking, cutting and welding. Their economic impact on the development of new markets will be also considered.

Co-Chairmen:

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PROGRAMME

- 9:00** **Welcome**
Eric Fogarassy, Wolfgang Knapp
- 9:30** **“Industrial applications of fiber lasers”**
Eugene Shcherbakov, IPG Laser GmbH, Burbach, Germany
- 10:00** **“New progress in high-power short-pulse fiber lasers for industrial applications”**
François Salin, CELIA, Université de Bordeaux I, Talence, France
- 10:30** **“Rod, disk, slab, fiber, a comparison of diode pumped solid state lasers for industrial applications”**
Hans-Dieter Hoffmann, Fraunhofer ILT, Aachen, Germany
- 11:00** **BREAK**
- 11:30** **“Welding with lasers of strong focusability: A comparison of disk and fiber lasers”**
Andreas Russ, IFSW, University of Stuttgart, Stuttgart, Germany
- 12:00** **“RoboScan - A new technology in laser remote welding with industrial robots for carbody production”**
Peter Rippl, KUKA Schweissanlagen GmbH, Augsburg, Germany
- 12:30** **LUNCH**
- 14:00** **“Review of high power fiber lasers”**
Stuart Woods, SPI, Southampton, U.K.
- 14:30** **“Selective laser melting - Overcoming physical fabrication limits with a new rapid manufacturing process using fiber lasers”**
Dieter Schwarze, F&S GmbH, Paderborn, Germany
- 15:00** **“Marking by fiber laser sintering of mineral powder”**
José Daems, CERLASE, Limoges, France
- 15:30** **BREAK**
- 16:00** **“Micro- and nanomachining using fiber laser seeded femtosecond sources”**
Thorsten Bauer, Laserzentrum Hannover, Germany
- 16:30** **“Applications of fiber lasers in marking and assembling”**
Alain Biernaux, IREPA LASER, Illkirch-Strasbourg, France
- 17:00** **Round table**



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REGISTRATION FEES

Monday May 24 Industrial Forum 150,00 Euro net
(including the lunch and breaks)
Industrial Forum + Spring Meeting May 25-28 520,00 Euro net
(including one proceeding, breaks, lunches, E-MRS membership for one year and Materials Today Bulletin)

REGISTRATION

(before May 10, 2004)

NAME: _____

First Name: _____

INSTITUTION: _____

Department: _____

Street/ PO Box: _____

Zip/City: _____

Phone: _____

Fax: _____

e-mail: _____

I will attend the EMRS Technical Forum on Fiber Lasers for Materials Processing in Industry on Monday May 24

Registration fees : 150,00 Euro net including the lunch.

Please charge my credit card :

carte bleue carte visa Eurocard/Mastercard

Card number: _____

Expiration date _____

Card holder's signature:

I enclose a cheque (to the order of E-MRS)

I enclose a copy of a bank transfer (account references: ASS. EMRS CONFERENCES BANQUE POPULAIRE D'ALSACE
IBAN:FR76 1760 7000 0111 1913 8543 911
BIC: BPRS-FR2A

I enclose a purchase order form to invoice my institution/company

In case of full participation in E-MRS Meeting the registration in the Technical Forum is free of charge, please indicate clearly on the E-MRS conference registration form "**TECHNICAL FORUM**"