

<u>association of Solutions to today's manufacturing challenges:</u> Applications using cutting, drilling, marking, engraving and surface texturing 10 December 2014 TRUMPF UK

President Way, Luton LU2 9NL

PROGRAMME

11:55 - 12:50 Innovate UK industrial grants for Photonics 08:30 - 09:25Registration and refreshments Louise Jones (Knowledge Transfer Network) 09:25 - 09:30Introduction Ric Allott (Science & Technology Facilities Council) Louise Jones, High Value Manufacturing and Photonics Specialist at KTN-UK, will make a 'setting the scene' Session 1: Laser and competing cutting processes 09:30 - 10:25 presentation. Delegates will then have the opportunity Laser cutting of non-metallic materials to make an input to the Innovate UK's future industrial Gerry Jones (TRUMPF UK) strategy and funding options. This is a great opportunity to voice your opinion and make sure that what you care Comparison of laser, abrasive waterjet and wireabout is put on the table for consideration. EDM and recent developments for fine cutting Don Miller (Finepart Sweden AB) 12:50 - 13:40 Lunch break 5-axis waterjet versus laser 13:40 - 14:50 Dave Larcombe (Bystronic UK) Session 3: Pulsed laser applications 10:25 - 10:55Refreshment break Glass and sapphire laser cutting Andrew May (Rofin-Baasel UK) 10:55 - 11:55 Session 2: Drilling and other fibre laser applications A short review of methods and shortcomings and the Flexible laser system for precision laser benefits of ultrashort pulse laser filamentation materials processing Mo Naeem (Prima Power Laserdyne) Scanned mask imaging Quasi-CW fibre laser drilling of aerospace Dave Myles (M-Solv) materials Pulsed UV laser processing of non planar Sundar Marimuthu surfaces and structures (Manufacturing Technology Centre) Paul Apte (Rideo Systems and Micronanics) Influence of the beam parameter product on The use of lasers in digital fabrication fibre laser cutting of highly reflective materials

Refreshment break

Alan Ferguson (Oxford Lasers)

TRUMPF UK showroom tour and departure

For on-line registration and details of travel and accommodation please follow the event link at www.ailu.org.uk Chair's hopes for this workshop

At the heart of laser materials processing is an increasing number of applications in which the laser use is well established. But for this event I want to push the boundaries by addressing laser solutions to the more challenging of today's manufacturing applications: ones that, for example, involve a material such as glass that is intrinsically difficult to process, or a material with a multilayer structure of which only the top layer is to be scribed/drilled without damaging the layer beneath. Other such applications include those where the workpiece presents a difficult geometry or topography and/ or where multi-axis processing or the creation of a features

ment Manager at STFC's Central with, say, a very high aspect ratio is required. And to provide Laser Facility. a broader perspective to the workshop, I have included two presentations that address competing/complementary processes: water-jet and wire-EDM.

Frank Gaebler (Coherent GmbH)

Stuart McCulloch (SPI Lasers)

Challenging applications using fibre lasers

This workshop therefore highlights unique solutions to some of the really tough engineering problems that exist across a large number of industrial sectors. A key aim is to match solutions to potential clients.

Finally, we have taken the opportunity of an industrial laser community gathering to provide input to the future industrial UK strategy and funding options being considered by Innovate UK, by inviting Louise Jones, High Value Manufacturing and Photonics Specialist at KTN-UK, to 'set the scene' and elicit responses.

All in all, this is an event that is not to be missed.

Ric Allott, Workshop Chair.

AlLU's Market Development Special Interest Group

The Market Development SIG was formed in 2003 with a brief to 'Grow the UK Market' for AILU members. It is out of the MD SIG that the 'Design for Laser Manufacture'

Supporting organisations





website was formed (www.designforlasermanufacture.com). The group was also responsible for producing the UK Laser Materials Processing statistics in 2009 and is currently partway to producing updated statistics for 2014.

Registration

14:50 - 15:10

15:10

Ric Allott is All U

Vice President and

Business Develop-

Contact details

AILU members can register simply by contacting the AILU Office (details below) Otherwise, please complete and return this form.

Position:	
Postcode:	
Tel;	Fax:
E-mail:	

*mandatory field

Charges

I wish to register as a delegate:

■ Not an AILU member £ 110.00 (+ VAT = £132.00) Existing member of AILU £ 95.00 (+ VAT = £114.00) Full time student £ 35.00 (+ VAT = £42.00) Unemployed or retired £ 45.00 (+ VAT = £54.00)

Payment options

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I wish to pay in advance by: ☐ Bank/Euro cheque in £ Sterling, payable to AILU ☐ Visa/Mastercard (billing in GBP): Name on Card Number Exp _/ Please debit my account	
Please debit my account	

Please return completed form to the AILU office, details below

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