

LASERS IN BIOTECHNOLOGY (LiB '17)

THURSDAY 15 JUNE 2017

**BIBLIOTHEQUE MARIE-CURIE, INSA,
LYON, FRANCE**

Presentations, exhibition, networking, tour



Image courtesy Femto-ST

08:45 - 09:30 Registration, refreshments & exhibition

09:30 - 11:00 **Session 1**

Welcome Jonathan Lawrence (Coventry University), Dave MacLellan (AILU)

Introduction to INSA Michel Magnin (INSA, France)

New laser technology for tattoo removal & lasers in dermatology

Romain Royon IRISIOME, France

Laser manufacturing of coronary stents

Lin Li University of Manchester, UK

Ultrafast laser inscription of photonic micro-optic components for endoscopic applications

Robert Thomson Heriot-Watt University, UK

Laser micromachining for next-generation diagnostics and therapeutics

Chris Randon OpTek Systems, UK

11:10 - 11:30 Refreshments & Exhibition

11:30 - 13:10 **Session 2**

Beam shaping for transparent materials machining and cutting

Jassem Safioui FemtoEngineering, France

Towards high throughput laser texturing of antibacterial surfaces on stainless steel

Luca Romali University of Parma, Italy

Using lasers to control biological and microbiological cell growth: Applications in healthcare and the food industry

David Waugh Coventry University

Surface biofunctionalisation with Enise/UJM

Bertrand Nicolet Manutech, France

13:10 - 14:10 Lunch & Exhibition

14:10 - 15:30 **Session 3**

Comparative in vitro study of Ho:YAG and Tm fibre laser lithotripters in dusting mode of operation

Stan Wilford IPG Photonics

Laser-living materials interaction with LaHC / UJM

Bertrand Nicolet Manutech, France

Ultrafast laser surgery for the treatment of early stage colorectal cancer

Rainer Beck Heriot-Watt University, UK

Open Forum Panel Discussion: What does the market require?

15:40 - 16:00 Refreshments & Exhibition

15:50 - 16:30 Tour of Facilities

It is with great pleasure that we invite you to participate in Lasers in Biotechnology (LiB '17), the first AILU workshop on this high-impact topic and the first AILU event to be held outside of the UK. The medical sector was one of the first to seize the benefits offered by lasers. As conservative as medicine is, the laser has and is continuing to gain acceptance in many medical disciplines by replacing traditional tools and offering new ones. Such is the take up of lasers that dermatology and ophthalmology cannot be practised fully without them. In consequence, the laser biotechnology market is huge, with the laser-based aesthetic devices market alone worth \$1.2 billion today.

Industrial lasers for laser manufacturing and surface engineering are now established processes for the manufacture of medical devices such as coronary stents, blood filters, bone implants and other orthopaedic artefacts, with laser surface engineering paving the way for new and improved biotechnology device performance and radical new methods for cell manipulation.



This workshop is aimed at manufacturers, end users, and academic and industrial researchers in the biotechnology field. You will hear and see how the latest developments in laser technology and academic and industrial research are having immediate and growing impact on our quality of life, as well as opening up and growing new markets.

Professor Jonathan Lawrence
Workshop Chair

Venue:

Bibliothèque Marie-Curie,
INSA
31 Avenue Jean Capelle
69100 Villeurbanne
Lyon
France



Delegates

On arrival you will receive a delegate pack containing essential notes for the day. The pack will include information for downloading PDFs of the presentations, which will be made available after the event. A buffet lunch (including vegetarian options) and refreshments will be provided. Please advise us of any special dietary needs.

Exhibitors

There will be a table-top exhibition in a dedicated area in which refreshments and lunch will also be served. The exhibition will start at delegate registration (08:45) and end following afternoon refreshments (15:50). An exhibition table will be provided.

Registration

See overleaf for registration details.

Travel and Accommodation

Please see the Events page on the AILU website for information:
www.ailu.org.uk/events

REGISTRATION

Due to accounting restrictions we are unable to take payment for workshop registrations until 1st June 2017.

- BEFORE 1st June: please email or phone the AILU office to pre-register:
info@ailu.org.uk +44 (0) 1235 539595
- AFTER 1st June: register online at lib17-150617.eventbrite.co.uk or contact the AILU office

	AILU member	Non-member	Concessions	Full-time student
Delegate only	£195	£225	£95	£55
Exhibitor only	£185	£215	NA	NA
Delegate and Exhibitor*	£300	£360	NA	NA

* includes £80 discount for combined delegate + exhibitor ticket



Image courtesy IRISIOME

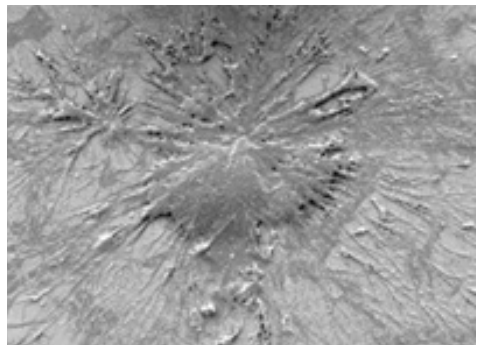


Image courtesy Coventry University