

13-15 September 2011
Cambridge, UK

LASER SAFETY MASTERCLASS

Another in the series of Cambridge Laser Safety Courses, this three-day Laser Safety Masterclass is an in-depth course for users and manufacturers who need to deepen their understanding of laser safety issues.

Building on the success of our previous courses in Cambridge, the Masterclass is especially suitable for Laser Safety Officers (LSOs), Laser Protection Advisers (LPAs), development engineers and others who require a detailed working knowledge of the relevant safety standards, quantitative hazard assessment, exposure evaluation, risk assessment and safety management.

The course is based on European and international standards of laser safety, including EN 60825-1 (Edition 2, 2007), IEC TR 60825-14, EN 207, EN 208 and other relevant standards and regulations.

Interactive sessions will demonstrate how these standards are applied in the 'real world' by using worked examples and problem-solving exercises.

The course covers fundamental aspects of laser safety and hazard assessment that are common to many laser applications, including industrial, medical, scientific, telecommunications and other sectors.



King's College, Cambridge

The course will cover:

- An overview of laser emission characteristics
- A detailed discussion of laser hazards
- The legislative framework of laser safety
- Organisational issues and safety responsibilities
- Laser safety standards, including what's new in Edition 2 of EN 60825-1 (2007)
- Exposure limits for the eyes and the skin
- Laser hazard classification
- Evaluating levels of laser emission and human exposure (including detailed coverage of AEL and MPE issues, and calculation of NOHD)
- Risk assessment in laser safety
- The implementation of safety controls and precautions, covering
 - engineering and equipment design issues
 - administrative and procedural issues ('local rules', and the use of 'controlled areas')
 - personal protection, including a discussion of safety eyewear
- Laser safety management (record keeping, safety reviews, human factors, training, incidents & accidents)

After the course participants will:

- have deepened their knowledge of laser hazards
- have gained experience in using the laser safety standards
- understand the procedures for laser classification and exposure evaluation
- know how to assess the risks associated with specific laser installations
- be able to specify appropriate control procedures and protective measures
- have increased their effectiveness in the management of laser safety



Course Instruction

Primary instruction for the Masterclass will be given by Roy Henderson. Roy is an established lecturer and author on laser safety, and through his company Bioptica has been providing training and consultancy services since 1990 to both manufacturers and users of laser equipment. He is an active member of European (BSI, CEN & CENELEC) and international (IEC & ISO) laser-safety committees. He is the Chairman of the European laser safety committee (CLC/TC 76), which is responsible for EN 60825-1 and other European laser standards, and he is the Project Leader of the ISO laser eye-protection group. He is also Chairman of the UK's Association of Laser Safety Professionals (ALSP).



Additional instruction will be given by Tim Hitchcock, a noted laser safety lecturer from RLI in the US, giving an international perspective to the course.

Bioptica (founded in the UK in 1990) and Rockwell Laser Industries (founded in the US in 1978) are leading specialists in laser safety and have been combining their expertise on various collaborative initiatives. Between them they have a wealth of experience in practical laser safety and in providing safety education and training to laser users on both sides of the Atlantic.

Venue

The course will be held in The Pitt Building, Trumpington Street, Cambridge. This building, part of Cambridge University Press, was completed in 1843 but has been completely refurbished to provide modern conference and meeting-room facilities of the highest standard. It is located in the heart of the historic university city, not far from the river and adjacent to a number of Cambridge's oldest colleges. It is also close to the university's museums and to a wide range of pubs, bars, restaurants and shops.

Fees

The fee for the Laser Safety Masterclass is £1050 per person, plus 20% VAT, a total of £1260. Payment in full must be made before the commencement of the course. Invoices can be issued if required. We regret that credit card payments cannot be accepted (except for overseas visitors who may book online at www.rli.com, but see notes on next page).

The fee covers tuition, a daily buffet lunch, morning and afternoon refreshments, course notes and a copy of the 450-page book "*Laser Safety*" by Henderson & Schulmeister. Accommodation is not included, but details of a choice of hotels within walking distance of the venue will be sent to all those who register. A discount of 15% is allowable if more than one person from the same company or organisation is booked on the course.



To Register

To register for this course, please send your name and full contact details (email, postal address and daytime telephone number), together with your remittance of £1260, payable to Bioptica, to –

Bioptica
St John's Innovation Park
Cowley Road
Cambridge
CB4 0WS (UK)

Tel: +44 (0) 7766 591085
Fax: +44 (0) 1223 420844
Email: training@bioptica.co.uk
Web: www.bioptica.co.uk

Notes

If you have any special dietary or other requirements, please notify us when making your booking. The venue is accessible to those having a disability.

Payment must be made in full before registration can be confirmed, although provisional reservations will be accepted. If you would like us to send an invoice, please let us have the billing address together with a Purchase Order number.

If you are paying by bank transfer, Bioptica's bank is Santander UK, Business Banking, 301 St Vincent Street, Glasgow G2 5NT, UK. (Account number 40217821, Sort code: 09-06-66, IBAN: GB68ABBY09066640217821.)

If you find that you are unable to attend the course after you have registered, you may nominate a substitute to replace you.

Cancellations received up to 9th August 2011 will be given a full refund, less a 10% administration fee. Cancellations received after 9th August but before 23rd August will be given a 50% refund. No payment will be refunded for any cancellation received after 23rd August.

Where a booking is made online at RLI's website, payment from your credit card will be taken in US dollars and will include the VAT component. However, no VAT receipts or invoices can be issued for payments made by this method.



PLEASE NOTE: Full payment must be received before the commencement of the course. Where a provisional booking is made but payment is not received before the start of the course, we may at our discretion allow the person concerned to attend the course, but this will be subject to a 15% administration surcharge for late payment.