Administrative Details


The University of Leeds

VENUE

The course venue will be the Faculty of Engineering at the University of Leeds.

COURSE FEES

The following course fees include the cost of tuition, lunches and light refreshments:

£495 – 2 day course

ACCOMMODATION

Delegates are responsible for their own accommodation, if required. A list of hotels close to the University will be sent out with the joining instructions.

How to Book

Booking for this course should be completed through our secure Online Store. To complete your booking please follow the instructions below:

1. Log on to our Online Store at: **https://store.leeds.ac.uk/**
2. Select Conferences and Events in the left-hand navigation bar.
3. Select CPD Faculty of Engineering
4. Select the course or event for which you wish to register and click on "Book".
5. If you are a new user, please follow the instructions to register. If you already have an account log in as instructed.
6. Complete the application process as directed by the booking system.

You will receive an automatic confirmation email within 24 hours of your booking.

For online booking queries and for all other enquiries:

Jenny Carter
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E: **cpd@engineering.leeds.ac.uk**
W: **http://www.engineering.leeds.ac.uk/short-courses/**

Potential delegates who have any special requirements should contact the course coordinator as soon as possible.

Terms and conditions for online booking

Payment in full should accompany your booking. The course fee is exempt from VAT. Fees must be paid in full no later than 15 working days before the course commences. Failure to pay may result in attendance being refused.

Registrations are accepted on the understanding that the printed programme is given in good faith but may have to be re-scheduled or the speakers changed for reasons outside our control. The University of Leeds reserves the right to cancel or postpone the course, in which case fees will be refunded in full. In the event of cancellation, the University will not be held liable for delegates travel or accommodation expenses.

Delegates will receive a full refund for cancellations made within 7 days of online booking, except where the booking has been made for an event commencing within the next 7 days. Where a delegate wishes to cancel a registration after this 7 day period, written cancellations received up to 28 working days before the course will be subject to an administrative charge of 25% of the total remittance; between 28 and 15 days before the course 80% of the total remittance will be charged; within 14 days of the commencement of the course the total remittance is chargeable and no refunds will be made, this also applies for non-attendance but copies of the course documents will be sent. Substitutions may be made at any time.

Institute of Medical & Biological Engineering

UNIVERSITY OF LEEDS

THE LEEDS ORTHOPAEDIC BIOMECHANICS COURSE

WEDNESDAY 10 – THURSDAY 11 DECEMBER 2014

Course Directors:
Professor Richard Hall and Dr Sophie Williams

The Leeds Orthopaedic Biomechanics Course is part of the Medical Engineering postgraduate provision. This course together with additional teaching and learning activities may be used as credits towards a higher degree such as an MSc or PGDip.

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THE LEEDS ORTHOPAEDIC BIOMECHANICS COURSE
WEDNESDAY 10 – THURSDAY 11 DECEMBER 2014

Course aims
As part of the Medical Engineering postgraduate programme provision, the Institute of Medical & Biological Engineering is offering a specialist course on Orthopaedic Biomechanics. The course aims to give delegates an understanding of the necessary fundamentals of biomechanics and how they are applied to solve problems in orthopaedics. The course will integrate the engineering and medical approaches to orthopaedic problems.

Who should attend?
The course will be of interest to personnel from academic, health-care and industrial sectors; including researchers and PhD students in the field; orthopaedic surgeons, trainees and practitioners, and in the orthopaedic industry those involved in development, testing, regulation, sales and marketing.

www.imbe.leeds.ac.uk

Course Programme

Wednesday 10 December 2014

Time	Title	Invited speaker
09.15	Registration and coffee	
09.45	**Welcome**	Prof R Hall and Dr S Williams Institute of Medical and Biological Engineering, University of Leeds
10.00	**Introduction – Materials in orthopaedics**	Dr S Williams, Institute of Medical and Biological Engineering, University of Leeds
10.30	**Introduction – Engineering fundamentals**	Prof R Hall, Institute of Medical and Biological Engineering, University of Leeds
11.00	**Introduction – Biological responses in orthopaedics**	Prof J Tipper, Institute of Medical and Biological Engineering, University of Leeds
11.30	Coffee	
12.00	**The normal synovial joint and introduction to OA**	Prof P Conaghan, NIHR LMBRU, University of Leeds
12.45	**Biomechanics of the hip**	Dr T Stewart, Institute of Medical and Biological Engineering, University of Leeds
13.15	Lunch	
14.00	**Polyethylene in hip replacements; in vitro and in vivo**	Dr S Williams, Institute of Medical and Biological Engineering, University of Leeds
14.30	**Understanding failure of cemented hip replacements**	Mr M Stone, Leeds Teaching Hospitals NHS Trust
15.15	Tea	
15.45	**Knee replacement tribology**	Dr C Brockett, Institute of Medical and Biological Engineering, University of Leeds
16.15	**Clinical biomechanics of the knee**	Dr N Messenger, Centre for Sport and Exercise Sciences, University of Leeds
16.45	**Total knee replacements, a clinical perspective**	Mr N London, Consultant Knee Surgeon, Yorkshire Knee Clinic
17.30	Close	

Thursday 11 December 2014

Time	Title	Invited speaker
08.30	**An overview of the ankle joint, gait and total ankle replacements**	Dr C Brockett, Institute of Medical and Biological Engineering, University of Leeds
08.45	**Ceramic on ceramic wear**	Dr T Stewart, Institute of Medical and Biological Engineering, University of Leeds
09.15	**Metal on metal hips: Design, surgeon and patient factors**	Dr S Williams, Institute of Medical and Biological Engineering, University of Leeds
09.45	**Wear and osteolysis**	Prof J Tipper, Institute of Medical and Biological Engineering, University of Leeds
10.15	Coffee	
10.45	**Philosophy of uncemented stems**	Prof Tim Board, Centre for Hip Surgery, Wrightington Hospital
11.30	**Bone healing – and how it is influenced by treatment**	Speaker to be confirmed
12.15	**Gait analysis**	Prof A Redmond, Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds
12.45	Lunch	
13.30	**Basic spinal biomechanics**	Dr P Hyde, Institute of Medical and Biological Engineering, University of Leeds
13.45	**Mechanics of spinal trauma**	Prof R Hall, Institute of Medical and Biological Engineering, University of Leeds
14.00	**Biomechanics of compression fracture and vertebroplasty**	Dr Sami Tarsuslugil, Institute of Medical and Biological Engineering, University of Leeds
14.15	**Clinical biomechanics of fusion surgery**	Speaker to be confirmed
14.45	**Shoulder and elbow biomechanics**	Mr D Limb, Leeds Teaching Hospitals NHS Trust
15.45	**Closing remarks**	
16.00	**Optional Lab Tour**	

Please note, although the organisers remain dedicated to the programme specified, they reserve the right to vary the programme in detail if required to do so by factors beyond their control.

Registration and general enquiries:
Please contact Jenny Carter via the contact details on the back page