Further information

Venue
The course will be held within the Faculty of Engineering at the University of Leeds. Please note, car parking for visitors is unavailable at the University. The nearest public car park is Woodhouse Lane (multi storey) at LS1 3HQ.

Course fees
The following course fees include the cost of tuition, course materials, lunches and light refreshments:
£495

Accommodation
Delegates are responsible for booking their own accommodation, if required. A list of hotels close to the University will be included within the delegate joining instructions.

Accessibility
Please let us know if you have any specific requirements including any access or dietary requirements in relation to this course.

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 please contact:
CPD, Conference & Events Unit
Faculty of Engineering
Room 3.11 School of Chemical and Process Engineering
University of Leeds
LEEDS, LS2 9JT, UK

T: + 44 (0) 113 343 8104/2494
E: cpd@engineering.leeds.ac.uk
W: http://www.engineering.leeds.ac.uk/short-courses/

Terms and conditions for 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.
The Leeds Orthopaedic Biomechanics course

Monday 11 – Tuesday 12 December 2017

Course directors
Professor Richard Hall and
Dr Sophie Williams
School of Mechanical Engineering

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

Programme

Monday 11 December 2017

08.45 Registration and coffee
09:15 Welcome
Prof R M Hall and Dr S Williams,
Institute of Medical and Biological Engineering, University of Leeds
09:30 Orthopaedic perspectives
(patient, industry and surgeon)
Patients – Mr T Fellowes, Ms S Shepherd
Industry – Mr J Anderson
Principal Bioengineer – Hips,
DePuy Synthes Joint Reconstruction
Surgeon – Mr V Borse Specialist Registrar
Trauma & Orthopaedics, Leeds Teaching Hospitals NHS Trust
11:00 Coffee
11:30 Gait analysis
Dr D Lunn, Leeds Musculoskeletal Biomedical Research Unit, Leeds Teaching Hospitals NHS Trust and University of Leeds
12:00 Knee replacement – a clinical perspective
Mr N London, Consultant Knee Surgeon, Yorkshire Knee Clinic
12:00 Lunch
13:00 Polyethylene wear in total knee arthroplasty
Mr J Barnett, Senior Bioengineer – Knees
DePuy Synthes Joint Reconstruction
13:45 Clinical biomechanics of the knee
Dr John Arnold, Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds
14:15 Fracture mechanics
Mr K Sherman, Orthopaedic Surgery Consultant, Spire Hull and East Riding Hospital
15:15 Coffee
15:45 Shoulder and elbow biomechanics
Mr D Limb, Consultant in Orthopaedic Trauma, Leeds Teaching Hospitals NHS Trust
16:45 End of day one

Tuesday 12 December 2017

08.00 The normal synovial joint and introduction to OA
Prof P Conaghan, Leeds Musculoskeletal Biomedical Research Unit, Leeds Teaching Hospitals NHS Trust and University of Leeds
08:45 Basic biomechanics
Prof R M Hall, Institute of Medical and Biological Engineering, University of Leeds
09:15 Mechanics of spinal trauma
Prof R M Hall, Institute of Medical and Biological Engineering, University of Leeds
09:45 Biomechanics of compression fracture and vertebroplasty
Mr J Timothy, Consultant Neurosurgeon and Spinal Surgeon, Leeds
10:30 Tea
11:00 Clinical biomechanics of fusion surgery
Prof R M Hall, Institute of Medical and Biological Engineering, University of Leeds
11:30 Biomechanics of the hip – an engineer's perspective
Dr T Stewart, Institute of Medical and Biological Engineering, University of Leeds
12:00 Lunch
12:45 Metal on polyethylene total hip replacements
Dr S Williams, Institute of Medical and Biological Engineering, University of Leeds
13:15 Understanding failure of cemented hip replacements
Mr M Stone, Consultant Orthopaedic Surgeon, Leeds Teaching Hospitals NHS Trust Honorary Clinical Associate Professor, University of Leeds
14:00 Wear and osteolysis
Prof J Tipper, Institute of Medical and Biological Engineering, University of Leeds
14:30 Tea
15:00 Philosophy of uncemented stems
Prof T Board, Consultant Hip and Knee Surgeon, Wrightington Hospital
15:45 Ceramic on ceramic interface
Dr T Stewart, Institute of Medical and Biological Engineering, University of Leeds
16:15 Failure and corrosion in hip replacements
Dr M Bryant, Institute of Functional Surfaces, University of Leeds
16:45 Closing remarks
End of day two and course

What our previous delegates say:
“Such a great experience and opportunity for patients, academics, engineers and surgeons to engage and participate in discussion “
“One of the best courses I have ever attended. Orthopaedic biomechanics was thoroughly covered.”