

COURSE CONVENORS

Professor Ofer Levy
Professor Ibrahim Esat

Course Coordinator:

Neriman Ozada

ORGANISING COMMITTEE

Prof. Ofer Levy
Prof. Ibrahim Esat
Dr. Koen Matthys
Neriman Ozada

We are offering a two-day course on Orthopaedic Biomechanics. The course aims to give participants an understanding of the necessary fundamentals of biomechanics and how they are applied to solve problems in orthopaedics. It will integrate the engineering and clinical approaches to orthopaedic problems.

The course will be of interest to personnel from both the public health-care and industrial sectors including Orthopaedic surgeons, Consultants and trainees, Marketing staff, Physiotherapists and Bioengineers.

INFORMATION

The course will be held in Brunel University, Hamilton Centre Hospitality at 1th floor. Car parking permits will be sent by post or provided by main reception. Accommodation is **not** included in the course fee. Please find the Brunel University map on:

http://www.brunel.ac.uk/287/where_pdfs/campusmap.pdf

THE COURSE SPONSORS



COURSE PROGRAM - 11th May 2009

Chairman: Professor Ibrahim Esat
09.00-09.30 Registration, Coffee, Welcome talk

Opening: Professor Ibrahim Esat / Professor Ofer Levy

09.30-10.30 Basic Biomechanics Review

Prof. Ibrahim Esat

10.30-11.00 Biomaterials

Prof. Aldo Boccaccini

11.00-11.30 Biological Materials

Prof. Aldo Boccaccini

Biological Tissues and Biomaterials

11.30-12.00 Polymer on Metal Wear

Dr Ulrich Hansen

12.00-12.30 Ceramic on Ceramic Wear

Dr Ulrich Hansen

12.30-14.00 Lunch Break, Coffee and Workshops

Biological Tissues and Biomaterials

14.00-14.30 Metal on Metal Wear/Resurfacing

Arthroplasty

Dr Richie Gill

Lower Limb

14.30-15.00 Biomechanics of Cementless Hip Replacement

Dr Ulrich Hansen

15.00-15.30 Understanding Failure of Cemented Hip

Replacement

Dr Richie Gill

15.30-16.00 Clinical Applications of Hip Biomechanics

Mr Shawn Tavares

16.00-16.30 Biomechanics of Ankle Joint Articulation

Dr Anthony Bull

16.30-17.30 Coffee/Tea Break

Upper Limb

17.30-18.00 Biomechanics of Shoulder Joint Articulation

Dr Anthony Bull

18.30-19.00 Clinical Applications of Shoulder

Biomechanics

Prof. Ofer Levy

19.00-21.00 Course Dinner

COURSE PROGRAM - 12th May 2009

Chairman:
09.00-09.30 Registration, Coffee, Welcome talk

Lower Limb

09.30-10.00 Biomechanics of Knee Joint Articulation

Prof. Andrew Amis

10.00-10.30 Clinical Applications of Knee Biomechanics

Mr Colin Fergusson

11.00-11.30 Biomechanics of tendons and ligaments.

Mr Colin Fergusson

14.30-15.00 Wear and Osteolysis

Mr Ron Langstaff

Upper Limb

11.30-12.00 Biomechanics of Elbow Joint Articulation

Prof. Ibi Esat

12.00-12.30 Clinical Applications of Elbow Biomechanics

Mr David Stanley

12.30-14.00 Lunch Break, Coffee and Workshops

Upper Limb

14.00-14.30 Biomechanics of Wrist Joint Articulation

Mr Zulfi Rahimtoola

14.30-15.00 Biomechanics of the Hand and fingers

Mr Zulfi Rahimtoola

Spine

15.00-15.30 Biomechanics of Spine and New Surgery
Developments

Mr Rob Marshall

15.30-16.00 Biomechanics of Spine Trauma

Mr Patrick McKenna

16.00-16.30 *Coffee/Tea Break*

16.30-17.00 Computer Assisted 3D Modeling and Analysis
of Joint Articulations

Prof. Ibrahim Esat / Neriman Ozada

17.00-17.30 FRCS (Tr&Orth) Review

Mr Jai Relwani

17.30-18.00 Closing remarks

Prof. Ofer Levy

