



DRAFT CONFERENCE PROGRAMME

[Please note this may be subject to change]

Monday 10th September

- 0815 onwards Registration and coffee
0900 Welcome to BORS 2018, Prof Mark Wilkinson, BORS President and Prof Sophie Williams for the local organising team
- 0915-1045 Session 1: Orthopaedic Biomechanics**
 Chairs Dr Richard van Arkel and Amy Garner
- 0915 Keynote presentation – Prof Paul Rullkoetter, University of Denver
- 0945-1045 1. Hip capsular function after arthroplasty
 Dr Richard van Arkel, Imperial College
2. Cortical Bone Spherical Indentation Modulus Correlates with the Elastic Modulus from Compression Testing and CT-measured Porosity
 Mr Oliver Boughton, Imperial College
3. Decellularisation affects the strain rate dependent and dynamic mechanical properties of a xenogeneic anterior cruciate ligament graft
 Dr Jennifer Edwards, University of Leeds
4. Biomechanical Testing for the in vitro Testing of Intervertebral Disc Nucleus Augmentation Devices
 Dr James Warren, University of Leeds
5. Estimation of viscoelastic bushing parameters of a musculoskeletal cervical spine model in impact scenarios
 Dr Sabina Gheduzzi, University of Bath
6. Physiological mechanical loading from voluntary wheel running promotes increased plasma membrane disruptions in osteocytes
 Dr Meghan McGee-Lawrence Medical College of Georgia, Augusta University
- 1045-1200 Session 2: Poster teaser presentations ~30 presentations (2 minute pitch + transition time)**
 Chairs / Organisers Dr Claire Brockett / Prof Sophie Williams
- 1200-1315 Lunch and BORS AGM, Poster viewing
- 1315-1445 Session 3: Translation of Orthopaedic Research into Clinic**
 Chairs Mr Tom Kurien and Jake Bowd
- 1315-1335 Keynote presentation – Dr Chaozong Liu, UCL
- 1335-1355 Keynote presentation – Dr John Wilkinson, MHRA

1355-1445	<p>1. A Collagen-Based Soft Tissue Barrier Membrane with Periosteal Mesenchymal Stem Cell Homing Capability for Bone Defect Repair Ms Heather Owston, University of Leeds</p> <p>2. Introducing the Z-track method for cells-delivery injection in a model of atrophic non-union to prevent backflow leakage Dr Murthadah Jalal, University of Edinburgh</p> <p>3. Comparison of Different Tissue Processing Methods for Maximization of Bacterial Recovery Mr Mohamed Askar, University of Nottingham</p> <p>4. Genome-wide Expression Analysis of Human Osteoblasts on Prosthesis Surfaces following Clinically Relevant Cobalt and Chromium Exposure Dr Karan Shah, University of Sheffield</p> <p>5. Nanotubes improve Human Dermal Fibroblasts and Keratinocytes attachment on Intraosseous Transcutaneous Amputation prosthesis Ms Elena Giusto, UCL</p>
1445-1520	<p>Session 4: Orthopaedic Research Outreach Chair Dr Susan Clarke</p>
1445	Keynote presentation – Prof Julia Shelton, QMUL
1505	Keynote presentation – Patient involvement <i>Speaker TBC</i>
1520-1550	Coffee, Mini science-fair
1550-1640	<p>Session 5: Manufacturing in Orthopaedics Chairs Dr Tony Herbert and Lekha Korla</p>
1550	Combined Keynote – Prof Eileen Ingham and Prof Ruth Wilcox, Leeds
1620 -1640	<p>1. The effect of pore size on bone marrow mesenchymal stem cell morphology, proliferation and mineralisation of bone in vitro. Dr Anita Sanghani Kerai UCL</p> <p>2. Nanotechnology based antimicrobial drug delivery system for orthopaedic application Dr Polina Prokopovich, Cardiff</p> <p>3. A biomimetic peptide/glycosaminoglycan hybrid hydrogel for nucleus pulposus augmentation therapy utilising minimally invasive methods Dr James Warren, University of Leeds</p>
1645-1715	<p>Presidential Prize Lecture – Professor Paul Gregg Chair Prof Mark Wilkinson</p>
1720-1750	<p>Public Engagement Lecture – Prof Kate Robson-Brown, Bristol Chair Dr Claire Brockett</p>
1845	Coach pick up for dinner
1900	Conference dinner, Thackray Medical Museum

Tuesday 11th September

0900-1030

Session 6: Trauma

Chairs Dr Jerry Tsang and Alex Seghal

0900

Keynote presentation: Trauma Research - current scope and future horizons. Prof Ian Pallister, Swansea

0930-1030

1. Mechanical Characterisation of the Lateral Collateral Ankle Ligaments Under Sprain-like Conditions

Dr Anthony Herbert, University of Leeds

2. The treatment method and results of percutaneous pinning and dynamic external fixator application for unstable distal radius fractures
Dr Burak Sena, Uskuda University, Turkey

3. Stratification of decellularised porcine super flexor tendon for replacement of the anterior cruciate ligament

Mr Samuel Whitaker, Leeds General Infirmary

4. Development of a method for proper X-ray viewing of the leg in a clinically-relevant model of atrophic non-union

Dr Murtadah Jalal, University of Edinburgh

5. Comparison of vertebral body displacements obtained by DIC and motion capture in a cervical spine impact experiment

Mr Stuart Boyd, University of Bath

6. Computational modelling of tendons and ligaments, a pathway to understand damage mechanisms

Dr Marlene Mengoni, University of Leeds

1030-1100

Coffee break, Poster viewing

1100-1250

Session 7: OATech Network

Chair Prof Cathy Holt and Prof Philip Rowe

1100-1200

OATech Research Presentations (details TBC)

1200-1250

1. The Biomechanical Characterisation of Subjects with Medial and Lateral Knee Focal Cartilage Defects

Mr Nidal Khatib, University of Cardiff

2. Epigenetic drugs as potent modulators in osteoarthritis

Dr Maria de Andres, University of Southampton

3. The in vivo compatibility, integration and regeneration of a decellularised porcine bone scaffold in an ovine model

Dr Hazel Fermor, University of Leeds

4. Universal drug delivery platform into cartilage

Dr Polina Prokopovich, University of Cardiff

1250

BORS/BJR Travelling Fellowships

Chair Prof Hamish Simpson

1300-1410

Lunch, Poster viewing

1410-1540

Session 8: Orthopaedic Outcomes

Chairs Mr Oliver Broughton and Ruben Doyle

1410

Keynote presentation – Prof Ashley Blom, University of Bristol

1440-1540

1. Bone Ageing Atlas Development: The UK Biobank Study

Mr Moshen Farzi, University of Sheffield

2. Combining inertial sensors and principle component analysis to distinguish between knee rehabilitation exercises

Dr Philippa Jones, University of Cardiff

3. Patellofemoral-arthroplasty improves gait in isolated patellofemoral-arthritis, a prospective cohort gait analysis study

Dr Aliya Choudury, St Georges

4. An evaluation of survival modelling approaches for personalised risk prediction after hip replacement for osteoarthritis

Prof Mark Wilkinson, University of Sheffield

5. Stratifying the immune response to biomaterials: can cobalt-mediated inflammation be prevented?

Ms Amy Mawdsley, University of Nottingham

6. Relationship Between Differing Measures of Function Following Total Knee Arthroplasty

Mr Maurice Griffin, University of Edinburgh

1540 -1600

Awards, Presidential Handover & thank yous - pass on to BORS2019
Chair Prof Mark Wilkinson

1600

CLOSE