



University of  
**Strathclyde**  
Glasgow



# BORS 2026 Annual Meeting

**8–9th September 2026**

Technology and Innovation Centre  
University of Strathclyde, Glasgow

## PROGRAMME

*BORS 2026 Local Organising Committee*

Dr Philip Riches, Dr Jonathan Williams (University of Strathclyde)

Dr David Hamilton (Glasgow Caledonian University)

Prof Matthew Dalby, Mrs Claire Carberry (University of Glasgow)

Dr Ian Kennedy (Queen Elizabeth University Hospital)

Prof Jon Clarke (NHS Golden Jubilee)



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# Day 1 – Tuesday 8th September 2026

| Time        | Programme                                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08:30–09:00 | <b>Registration Opens</b>                                                                                                                                                                                                  |
| 09:00–09:10 | <b>Welcome</b>                                                                                                                                                                                                             |
| 09:10–10:50 | <b>Session 1: Clinical Orthopaedics</b><br>Session chair: Ian Kennedy                                                                   |
| 09:10–09:40 | <b>Keynote 1: Translational orthopaedics ...are we there yet ??</b><br><b>Neal Millar, Professor of Orthopaedics, University of Glasgow. Academic Consultant Orthopaedic Surgeon, Queen Elizabeth University Hospital</b>  |
| 09:40–09:50 | Inequalities in the use of total hip replacement to treat hip fracture: a population-based study<br>James Webster                                                                                                          |
| 09:50–10:00 | The gut microbiome as a reservoir of pathogens and antimicrobial resistance in orthopaedic infection<br>Christopher Deacon                                                                                                 |
| 10:00–10:10 | Patient-Specific Periprosthetic Fracture Risk Calculator in Total Hip Arthroplasty: A Multicenter Update<br>Milos Brkljac                                                                                                  |
| 10:10–10:20 | Population-level associations of BMI and physical activity with chronic pain, osteoarthritis, and joint replacement of the hip and knee: a standardisation analysis of UK Biobank<br>Marcus Beasley                        |
| 10:20–10:30 | The effects of tourniquet use on postoperative complications after ankle fracture fixation: a multicentre comparative cohort study using propensity score weighting<br>Muhammed Alanie                                     |
| 10:30–10:40 | Antidepressants, Frailty, and Perioperative Opioid Consumption in Primary Total Hip Arthroplasty: A Single-Centre Cohort Study<br>Swati Chopra                                                                             |
| 10:40–10:50 | Synovial fluid biomarkers and proteomic signatures associated with clinical response to Arthrosamid® in knee osteoarthritis<br>Karina Wright                                                                               |
| 10:50–10:55 | <b>Sponsor presentation – A New Paradigm in Knee OA Treatment: Synovial Mechano-Modulation with Arthrosamid®</b><br>Philip Kusk PhD, Senior Project Manager, Contura                                                       |
| 10:55–11:05 | <b>Poster flash presentations</b>                                                                                                                                                                                          |
| 11:05–11:45 | <b>Coffee &amp; Posters</b>                                                                                                                                                                                                |
| 11:45–13:25 | <b>Session 2: Engineering / Biomechanics</b><br>Session chair: Phil Riches                                                            |
| 11:45–12:15 | <b>Keynote 2: Shape Matters in Orthopaedics: Understanding Osteoarthritis Risk and Outcomes</b><br><b>Dr Jenny S. Gregory, Senior Lecturer, School of Medicine, Medical Sciences and Nutrition, University of Aberdeen</b> |
| 12:15–12:25 | Improving trabecular microarchitecture representation in a structural whole-bone adaptation framework using a Voronoi network<br>Muhammad Yusril Sulaiman                                                                  |
| 12:25–12:35 | Comparison of markerless and marker-based motion capture accuracy benchmarked against biplane videoradiography<br>Lauren Swain                                                                                             |
| 12:35–12:45 | Multimodal imaging provides structural evidence for biomechanical alterations in decellularised tendon scaffolds<br>Anthony Herbert                                                                                        |

| Time               | Programme                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:45–12:55        | Gait analysis following Anterior Cruciate Ligament primary repair with Internal Bracing versus reconstruction<br>William Wilson                                                          |
| 12:55–13:05        | Ceramic Hip Resurfacing Maintains Physiological Femoral Bone Strain Compared with a Cemented Stem: A Biomechanical Study<br>Milos Brkljac                                                |
| 13:05–13:15        | Patient-specific finite element analysis of osteochondral autograft: press-fit stability and contact restoration under in vivo derived kinematics<br>Roberto Leonardo                    |
| 13:15–13:25        | Characterising in-vivo lumbar disc mechanics using MRI and biplanar videoradiography<br>David Williams                                                                                   |
| <b>13:25–14:30</b> | <b>Lunch &amp; Posters</b>                                                                                                                                                               |
| <b>14:30–15:20</b> | <b>BORS Presidential Lecture: Title to be confirmed</b><br>Professor Hamish Simpson                                                                                                      |
| <b>15:20–16:00</b> | <b>Coffee &amp; Posters</b>                                                                                                                                                              |
| <b>16:00–17:40</b> | <b>Session 3: Clinical Technology</b><br>Session chairs: Prof Jon Clarke and Prof Christopher Gee<br> |
| <b>16:00–16:30</b> | <b>Keynote 3: Robotic TKA: Evolution or Revolution?</b><br><b>Mr Akash Sharma, Consultant Knee Surgeon, Royal Orthopaedic Hospital, Birmingham; President, CAOS UK</b>                   |
| 16:30–16:40        | Predicting Early Aseptic Loosening in Total Knee Arthroplasty Using Longitudinal Deep Learning<br>Rory Ormiston                                                                          |
| 16:40–16:50        | Evaluating a 3D freehand ultrasound and motion capture fusion technique for patellofemoral kinematic assessment<br>Caterina Vanelli Coralli                                              |
| 16:50–17:00        | Evaluation of ankle joint structure in chronic ankle instability using ultrasound imaging and shear wave elastography.<br>Kimia Rezaei Fard                                              |
| 17:00–17:10        | Real-Time Tibial Force Sensing for Intraoperative Characterisation of Posterior Cruciate Ligament Tension in Cruciate-Retaining Total Knee Arthroplasty<br>Alistair Lawley               |
| 17:10–17:20        | Functional pelvic orientation affects acetabular assessment and clinical interpretation in structural hip disorders<br>Mingke You                                                        |
| 17:20–17:30        | Geometric Analysis of Surface Changes in Total Ankle Replacement Polyethylene Inserts<br>Asma Sabouni                                                                                    |
| 17:30–17:40        | TET2 Clonal Haematopoiesis may be linked to impaired recovery following Total Hip Replacement, a multimodal analysis<br>Ines Reichert                                                    |
| <b>19:00</b>       | <b>BORS Bash - Conference Dinner and Welcome Drink</b><br><i>University of Strathclyde Students' Union</i><br><b>Dinner served from 19:30</b>                                            |

## Day 2 – Wednesday 9th September 2026

| Time        | Programme                                                                                                                                                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08:30–09:00 | Registration Opens                                                                                                                                                                                                                                    |
| 09:00–10:40 | <b>Session 4: Biology</b><br>Session chair: Prof Matt Dalby                                                                                                        |
| 09:00–09:30 | <b>Keynote 4: Biofilms at the Interface: Understanding and Tackling Infection in Orthopaedic Implants</b><br><b>Prof Gordon Ramage, Professor of Infection Prevention &amp; Control, ReaCH, Glasgow Caledonian University</b>                         |
| 09:30–09:40 | Sex Based Differences in IPSC Derived Nociceptor Responses to Osteoarthritic Synovial Fluid<br>Ryan Jones                                                                                                                                             |
| 09:40–09:50 | Type I Interferon Signalling Drives Stromal-Immune Crosstalk and Dendritic Cell Activation in Tendinopathy<br>Clara Burgy                                                                                                                             |
| 09:50–10:00 | Unlocking the origin of Benninghoff arcades: is strain-directed alignment the architect of the stratified organisation of mature articular cartilage?<br>Ilyas Khan                                                                                   |
| 10:00–10:10 | Beyond Hormonal Changes: Bone Mineral Nanostructure as a Critical Determinant of Osteogenic Impairment in Postmenopausal Osteoporosis<br>Mostafa Khabooshani                                                                                          |
| 10:10–10:20 | Sex and hormonal status regulation of joint pathology, pain behaviour and DRG neuroimmune responses in early osteoarthritis<br>Carmen Huesa                                                                                                           |
| 10:20–10:30 | Integrated Lipidomic and Metabolomic Profiling Reveals Stage Dependent Changes and Metabolic Signatures Associated with Clinical Response Following Autologous Chondrocyte Implantation<br>Yumna Ladha                                                |
| 10:30–10:40 | Tissue of Origin Defines Transcriptional States in Osteoarthritis-Derived Mesenchymal Stem Cells<br>Antonia Vogt                                                                                                                                      |
| 10:40–10:50 | Poster flash presentations                                                                                                                                                                                                                            |
| 10:50–11:35 | Coffee & Posters                                                                                                                                                                                                                                      |
| 11:35–11:50 | <b>BORS-BJR Travelling Fellowship 2027 Update</b><br>David Williams + Chloe Scott (Editor-in-Chief, Bone & Joint Research)                                                                                                                            |
| 11:50–13:05 | <b>Orthopaedic Cell Therapies: From GMP Manufacturing to NHS Delivery</b><br>Session chair: Jonathan Williams<br>Sponsored by MAINSTREAM                         |
| 11:50–12:05 | <b>GMP manufacturing and translation of cell therapies</b><br>Dr Diana Martínez Redondo, Senior R&D Researcher at Histocell Regenerative Medicine                                                                                                     |
| 12:05–12:20 | <b>Value by design in advanced therapy development</b><br>Thomas Strakosch, Health Economics and Market Access Lead, Cell and Gene Therapy Catapult                                                                                                   |
| 12:20–12:35 | <b>From Vein to Vein: The NHS Cellular Therapy Pathway</b><br>Dr Samantha Carmichael MRCPharm, Lead Pharmacist, Clinical Trials / Research & Innovation / Advanced Therapy Medicinal Products<br>Research & Innovation, NHS Greater Glasgow and Clyde |
| 12:35–13:05 | Panel discussion and audience Q&A                                                                                                                                                                                                                     |
| 13:05–14:35 | Lunch & Posters + BORS AGM                                                                                                                                                                                                                            |

| Time        | Programme                                                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:35–16:15 | <b>Session 5: Bioengineering and Translational</b><br>Session chair: David Hamilton                                   |
| 14:35–15:05 | <b>Keynote 5: Clinical Confidence from Biomechanical Modelling</b><br><b>Prof Chloe Scott, Consultant Orthopaedic Surgeon, Royal Infirmary of Edinburgh, Honorary Professor, Imperial College London</b> |
| 15:05–15:15 | Proteomic Profiling of Osseointegration in an Ovine Femoral Condyle Model<br>Sasza Nabilla                                                                                                               |
| 15:15–15:25 | Impact of International Transport on Clinical Osteochondral Allograft Viability and Integrity: A Controlled Comparison<br>Tomas Link                                                                     |
| 15:25–15:35 | Cellular Response to Implant-Delivered Ultrasound<br>Cosmo Prince                                                                                                                                        |
| 15:35–15:45 | Engineering Injectable Granular Hydrogels with Chondrocyte Spheroids for Osteochondral Repair<br>Pooya Davoodi                                                                                           |
| 15:45–15:55 | Assessing the bioactive profile of antifungal-loaded calcium sulphate against fungal biofilms<br>Mark Craig Butcher                                                                                      |
| 15:55–16:05 | Cam Deformity Cartilage as a Regenerative Cell Source: Biological Characterisation and Evaluation of Arthroscopic Harvest Techniques<br>Ben Woodhouse                                                    |
| 16:05–16:15 | Healikick: Translational development of acellular and cellular approaches to bone grafting for non-union bone repair<br>Peter Childs                                                                     |
| 16:15–16:30 | <b>Awards &amp; Closing Ceremony</b>                                                                                                                                                                     |