

ISB
2015
GLASGOW



XXV
CONGRESS OF THE
INTERNATIONAL
SOCIETY OF
BIOMECHANICS

XXV Congress of the International Society of Biomechanics

Programme Book

Scottish Exhibition and Conference Centre (SECC),
Glasgow, UK
12th - 16th July 2015

www.isbglasgow.com



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'BIG DATA' MOTION ANALYSIS

at Strathclyde's 'ISB EXPERIMENT'



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21**



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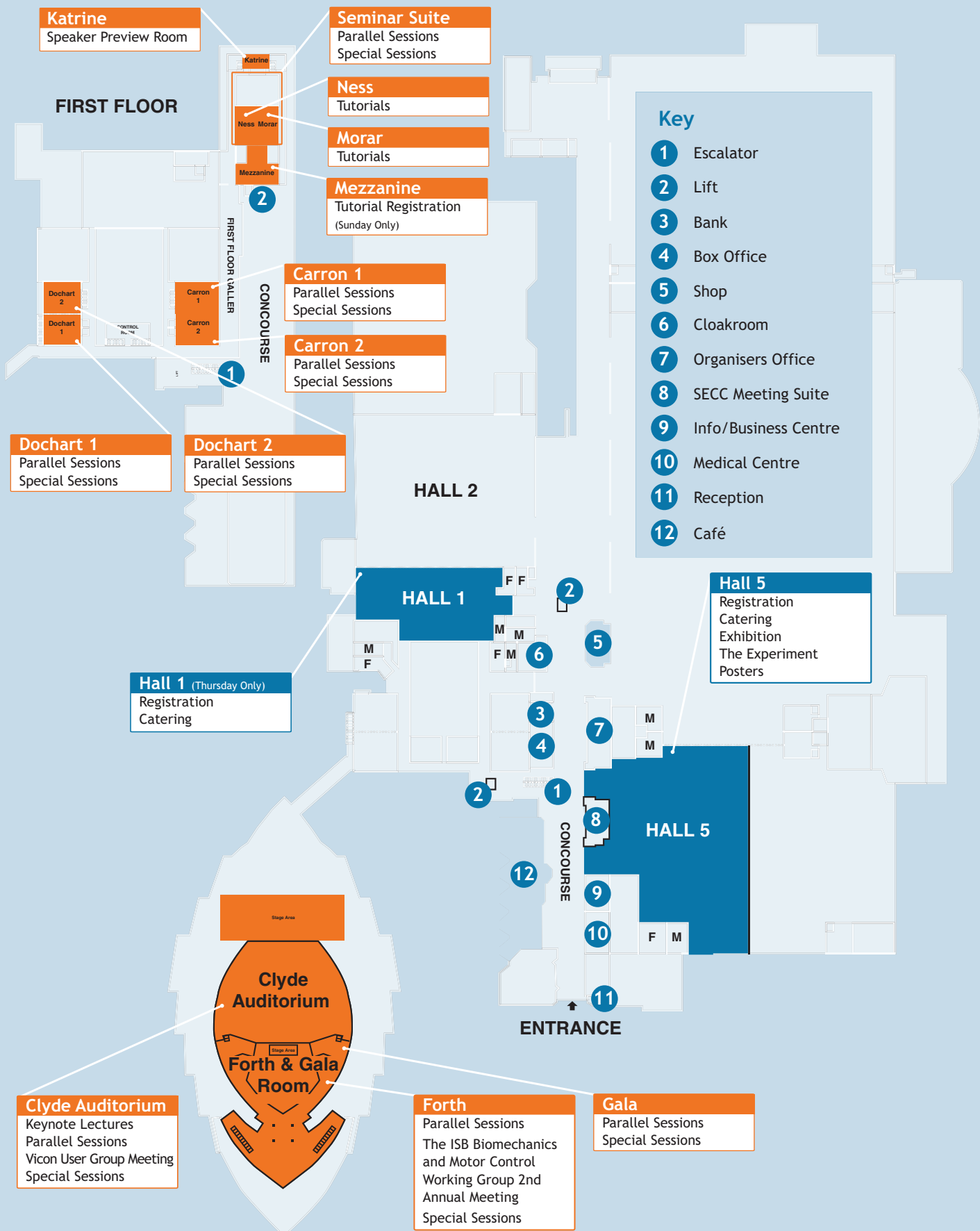
**VISIT
US!**

At Booth 21 or see the M-Gait during the University of Strathclyde's "ISB Experiment" in the exhibition hall.

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Venue Floor Plan



Welcome Address

Dear Delegate,

On behalf of myself and my co-event organisers Dr Philip Riches and Dr Andrew Murphy may I welcome you to Glasgow, Scotland and to the 25th Congress of the International Society of Biomechanics. For us in the Clinical and Sports Biomechanics Research Group, in the Biomedical Engineering Department of the University of Strathclyde in Glasgow it is a real privilege to be hosting this meeting and we are grateful to our colleagues in the University, on the ISB committee, on the ISB2015 International scientific panel, In the City of Glasgow Marketing Bureau, Glasgow Science Centre, The Scottish Exhibition and Conference Centre and particularly to conference organisers MCI for helping us to get this special event on the road.

We are particularly delighted to be hosting ISB2015 for the first time in the UK and organising the 25th Congress has coincided with the 50th Birthday of the Biomedical Engineering Department here at Strathclyde and we look forward to welcoming back members of the “Strathclyde Mafia” as former members of the department are known around the world. We look forward to welcoming back old friends but more importantly making new ones. In 1986 I attended my first ISB in Amsterdam. it strengthened my resolve to stay in this fascinating field , it made me some friends from other countries that I still collaborate with and it propelled me forwards in my career and thinking on the subject. We hope ISB 2015 will have the same effect for you. Our only regret is that our dear biomechanics founder, mentor, friend and academic leader here in Strathclyde, Professor John Paul, will not be with us to enjoy the 25th anniversary congress. As many of you know “Prof” as he was known died last year after over 50 years leadership, innovation and inspiration to the biomechanics group and Biomedical Engineering department here at Strathclyde and to the Biomechanics world in general. Our only sadness is that he will not be present, but this is mitigated by the kindness of his daughter who is attending on his behalf.

We are confident that, with your help as presenters of papers and posters, we have organised a top notch event with scientific merit, good networking opportunities and which is informative and enjoyable. Prof Paul was notorious for asking the one question the speaker did not want to be asked but in the most supportive and encouraging way. He once said to me “if you did not want me to question you then you would not have invited me to the meeting, so I would be letting you down if I did not express an opinion now that I am here”. We would encourage all delegates to follow his spirit of open enquiry alongside positive support for the work being presented. A vibrant meeting is made just as much by the interesting questions from the floor as by the papers and posters presented. Many people who know me know that I am not backwards in coming forwards to ask a question and this was reinforced by Prof Paul. So we would challenge all delegates to ask a question during the congress. We have enough sessions, papers and posters for this and it would stop old hacks like me trotting out the inevitable ones to make the presenters feel their work has been noticed. If we all do this we will have a lively conference as we all wish.

Inevitably in preparing the 25th Congress we wished - and the ISB committee want us - to mark the occasion. We have recruited pairs of keynotes, to whom we are also indebted, paired them up often unknown to each other and challenged them to both to look back over the developments that have taken place in their topic in biomechanics over the last 24 congresses, but also to gaze into the future for the next 25 years. We hope you will find these keynotes both informative and thought-provoking. Certainly our team in Strathclyde is excited and enthused about the future of biomechanics. We have seen significant lowering of the cost of biomechanics technology, its increasing adoption in both clinical and sport arenas and the increasing use of movement analysis and biomechanical information for therapeutic and training activities in sport and rehabilitation as well as clinical diagnosis and monitoring.

These are also reflected in the congress papers both in the free papers sessions and in the special sessions. Again, thanks to all those who have enabled a special session or agreed to chair a free paper session.

We hope in the congress to showcase these new equipment possibilities and the opportunities they present and have gone a step further to see if “mass and efficient” motion capture can be achieved without compromising data quality. We have done this by putting on an ISB experiment which we very much hope you will take 20 minutes during the congress to participate in. We are very grateful to MotekForce Link and to Vicon, our key Congress sponsors for providing equipment, additional help, moral support and considerable staff assistance to make this possible, this on top of their already generous sponsorship of the event. If successful the experiment will provide a normative database which we will make available to all to share.

One of our personal desires for the congress was to encourage the growing relationship between biomechanics and motor control. It is pleasing therefore that the experiment will quantify not only how we walk on average but also how variable normal gait is and what this says about the motor control of the normal person. It is also pleasing that the pre-congress Sunday will see the 2nd Meeting of the ISB seed group on Biomechanics and Motor control organised by Carlo De Luca and supported by our sponsor Delsys.

This will be running alongside four exceptional tutorials being run by Dr Phil Riches, Dr Jon Clarke, Dr Anthony McGarry and Professor Jap Harlaar. We are exceedingly grateful to these people for their assistance, generosity and time commitment. Finally, can we say a big thank you to our delegates, sponsors and exhibitors without whom none of this would have been possible.

Thanks also to Daniel Bassett of “Bassett Biomechanics” and “Biomech-V” for his assistance with video recording the event during his vacation and we hope his family enjoy their stay in Glasgow without daddy. We would also like to thank Kelsey Collins from Calgary and her boss Walter Hertzog for her energy, time and commitment to supporting satellite events for research students and PDRFs.

Outside the congress itself we hope you enjoy the various satellite events making a full week of activities in Glasgow. If you can we would encourage you to spend some down time in Glasgow, a former recipient of the European City Of Culture award, a friendly and welcoming city whose motto is “People make Glasgow”. A bit further afield is Edinburgh, a world heritage city, or you could become a Highlander by visiting the mountains and isles of Scotland which begin a short distance to the North and West of Glasgow. Whatever your preference we are delighted to welcome you to Glasgow and ISB XXV.



Professor Philip Rowe



Dr Philip Riches



Dr Andrew Murphy



International Society of Biomechanics

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<https://isbweb.org/>

Membership Benefits

- Reduced registration fees for ISB Congresses
- Reduced journal subscription fees
- International travel grants
- Awards for excellence in research
- International network of specialists
- Student support and awards
- Support for biomechanics in economically developing countries



XXIII ISB Congress – Brussels, Belgium

Technical Groups

- Computer Simulation
- Footwear Biomechanics
- 3D Analysis of Human Movement
- International Shoulder Group

ISB Sponsors



The International Society of Biomechanics promotes and supports international contacts amongst scientists, the dissemination of knowledge, and the activities of national organizations in the field of biomechanics.

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Exhibitors



ISB Society Sponsors

The ISB is very pleased to have company sponsors with products that have applications in various areas of biomechanics. The ISB provides the sponsors with unique opportunities of getting in touch with numerous specialists, coming from all over the world. The ISB are thankful and proud of our sponsors:

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Bronze Sponsors



Organising Committees

Local Organising Committee

Professor Philip Rowe

University of Strathclyde
Professor of Rehabilitation
Science & Biomechanics
Chair XXV ISB LOC



Professor Rowe obtained a BSc Hons in mechanical engineering from the University of Birmingham (1982) followed by a PhD in Bioengineering from the University of Strathclyde (1990). For his PhD work he was awarded the European Society of Biomechanics, Clinical Biomechanics award in 1987. Since completing his PhD he has held various academic appointments at Queen Margaret University, Edinburgh, UK where he pursued his own research and was also responsible for research development within the School of Health Sciences. He joined the staff of the Bioengineering Unit at Strathclyde in September 2005 as part of the HealthQWest research consortium for which he was the Head of the Function for Living research programme. He is currently the leader of the Clinical & Sports Biomechanics Research group, The Director of the Centre for Robotic Orthopaedic Surgery at Strathclyde and the co-director of the Centre of Excellence in Rehabilitation Research. Professor Philip Rowe's main research areas lie in movement analysis, functional analysis and biomechanics of the human body in motion. His research has helped elucidate the clinical outcomes of various musculoskeletal and neurological disorders such as Knee replacement surgery, Hip replacement surgery, Hip fractures, back pain, Hyper-mobility syndrome, Patello-femoral pain syndrome, stroke and aging. He is especially interested in the application of science and engineering methods to patient treatment and also their use to quantify and analyse the clinical effects of rehabilitation services. He has major funded research in the use of robotics in orthopaedic surgery and rehabilitation, tele-rehabilitation and visualization of biomechanical data.

Dr Phil Riches

University of Strathclyde
Lecturer in Biomechanics
Scientific Programme
Lead
<http://www.strath.ac.uk/staff/richesphilipdr/>



Dr Phil Riches graduated in Aeronautical Engineering from the University of Bristol in 1994. After an MSc in Bioengineering at the University of Strathclyde (1994-5), he returned to the University of Bristol to research the microhardness properties of cortical bone for his PhD. In 1998 he was awarded a 3-year Wellcome Trust Research Training Fellowship in Mathematical Biology during which he developed poroelastic models of the intervertebral disc. Phil subsequently joined the Scottish School of Sports Studies as a biomechanics lecturer in 2001 and transferred to the Bioengineering Unit in 2007. Currently a Senior Lecturer, Phil leads initiatives in teaching and learning for the Department of Biomedical Engineering, in addition to being the Course Director for the undergraduate degree in Biomedical Engineering. Phil's research interests include orthopaedic device design, robotic/haptic orthopaedic surgery and experimental and computational hard and soft tissue mechanics. In particular, the application of poroelastic (biphasic) modelling, dynamic mechanical analysis, atomic force microscopy, and nanoindentation of bone, cartilaginous tissue and tissue engineered constructs in fundamental and applied contexts, namely hip and knee arthroplasty and intervertebral disc biomechanics. Phil is a chartered engineer and anatomist, managing the tissue mechanics laboratory licensed under Scottish law.

Dr Andrew J Murphy

University of Strathclyde

Research Fellow

Exhibition and
Sponsorship Lead



Dr Murphy obtained a BSc Hons in Sport and Exercise Science and an MRes in Biomedical Engineering from the University of Strathclyde (2004 and 2005), followed by a PhD in Bioengineering and Human Movement and Performance from Imperial College London (2009). For his PhD work he was awarded the Institution of Mechanical Engineers' 2008-2010 Best Medical Engineering PhD. He returned to Glasgow and the University of Strathclyde in 2010 to take a post as Research Fellow where key contributions are in relation to the design, development, and deployment of clinical mobility services, the management of Cerebral Palsy, gait analysis, assistive devices, and image processing. Other responsibilities include optimising departmental policy and mechanisms for Clinical Research Governance, and public engagement in science technology engineering and mathematics. Dr Murphy also works in an honorary role within the Greater Glasgow and Clyde National Health Service and has held consultancy and support positions for elite sporting bodies under UK Sport, Paralympics GB and GB Rowing. He has been, and remains, a major contributor to the organization of UK national and European international scientific conferences.

Organising Committees

Scientific Committee

Dr Lynne Baillie	Glasgow Caledonian University
Prof Richard Baker	University of Salford
Dr Richard Black	University of Strathclyde
Mr Roy Bowers	University of Strathclyde
Prof Anthony Bull	Imperial College London
Prof Aurelio Cappozzo	Italian University of Sport and Movement
Mr John Colvin	westMARC Southern General Hospital
Prof Bernie Conway	University of Strathclyde
Prof Jack Crosbie	The University of Sydney
Prof Sam Evans	Cardiff University
Prof Dario Farina	Aalborg University
Dr Jonathan Folland	Loughborough University
Prof Terry Gourlay	University of Strathclyde
Prof Malcolm Granat	University of Salford
Prof Madeline Grealy	University of Strathclyde
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Prof Tracey Howe	Glasgow Caledonian University
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Dr Peter Zioupos	Cranfield University

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Aurelio Cappozzo	Jody Riskowski
Ed Chadwick	Neil Roberts
John Challis	Philip Rowe
Jon Clarke	Manunchaya Samala
John Colvin	Hazel Screen
Carlo de Luca	Ben Stansfield
Genevieve Dumas	Caroline Stewart
Dario Farina	Ton van den Bogert
Julien Favre	Marietta van der Linden
Jonathan Folland	Jos Vanrenterghem
Terry Gourlay	Antonio Veloso
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Anthony McGarry	
Scott McLean	
Donal McNally	

Acknowledgements

ISB would like to thank the following for their contribution to the XXV Congress of the International Society of Biomechanics:

Conference Support



The Experiment



The ISB Biomechanics and Motor Control Working Group 2nd Annual Meeting



Tutorials

Jaap Harlaar
Jon Clarke
Philip Riches
Anthony McGarry

Video Services

Daniel Bassett

Congress Information

Abstract Book

Abstracts are available as a fully searchable and downloadable PDF file on the conference website at <http://www.isbglasgow.com/index.php/scientific-information/abstract-submission-and-guidelines>

Accommodation

ISB has secured accommodation at a variety of hotels in Glasgow. If you have a query about an existing accommodation booking please visit the registration secretariat desk located in Hall 5.

Certificate of Attendance

General certificates of attendance will be distributed via email after the conference. If you do not receive your certificate within 28 days, please contact the conference organisers at isb2015@mci-group.com

Cloakroom

Coats and bags can be stored in the cloakroom located in the main concourse on a complimentary basis.

Exhibition Schedule

The exhibition area is located in Hall 5 and will be open at the following times:

Date	Opening Times
Monday 13th July 2015	08:00 - 17:30
Tuesday 14th July 2015	08:00 - 17:30
Wednesday 15th July 2015	08:00 - 16:00

Meeting Language

The official meeting language will be English. All submitted abstracts, full papers, general correspondence and meeting sessions will also be in English.

Mobile Phones

Delegates are kindly requested to keep their mobile phones on silent in all rooms where scientific and educational sessions are being held, as well as in and around the poster and exhibition area.

Name Badge

Name badges must be worn at all times when attending the meeting and social programme events.

Onsite Registration

Online registration is closed from Wednesday 1st July. For registrations after this time please visit the registration secretariat desk when you arrive at the SECC.

Parking

The multi-storey car park (MSCP) at the SECC, operated by City Parking (Glasgow) LLP, is the main parking area used for events at the venue. This facility is located at 10 Stobcross Road, Glasgow, G3 8YW. A map and directional information is available on the SECC website. On-site pay machines are located on level 2 (walkway level) and ground floor main foyer of the car park. Payment can be made by cash or credit/debit card. Tariff Rates in the MSCP Monday to Sunday are:

- 1 hour £3.50
- 2-12 hours £7.00
- 13 hours £10.50
- 14-24 Hours £14.00

Visitors can either pre-pay after arrival or pay before exiting.

Photo booth

The Congress organisers, MCI UK Ltd, are pleased to be providing a photo booth to capture the great memories of the event. The photo booth will be located at the Congress party at the Scottish Exhibition and Conference Centre (SECC) on Thursday 16th July. Have fun!

Congress Information

Refreshment Breaks

Lunch and coffee breaks are included within the registration fee.

Date	Coffee Break AM	Lunch	Coffee Break PM	Location
Monday 13th July	10:20 – 11:00	12:00 – 13:30	15:30 – 16:40	Hall 5
Tuesday 14th July	10:20 – 11:00	12:10 – 13:30	15:30 – 16:40	Hall 5
Wednesday 15th July	10:20 – 11:00	12:00 – 13:30	15:30 – 16:00	Hall 5
Thursday 16th July	10:20 – 11:00	12:00 – 13:00	14:00 – 14:20	Hall 1

Registration Opening Times

Lunch and coffee breaks are included within the registration fee.

Date	Opening Times
Sunday 12th July	09:00 – 10:00 (Tutorials only) 16:00 – 19:00 (All registrations)
Monday 13th July	07:00 – 18:00
Tuesday 14th July	07:00 – 18:00
Wednesday 15th July	07:00 – 18:00
Thursday 16th July	07:00 – 16:00

All registration and supporting programme fees are payable in Pounds Sterling (£GBP). Payment is possible by credit card or cash. For payment by credit card we accept Eurocard/Mastercard and Visa. Please note we do not accept payment by American Express.

Awards

Promising Scientist Award

The Promising Scientist award is designed to acknowledge people who have performed superior biomechanics research early in their career. It entails a certificate and a monetary award of US\$ 5000 for scientific purposes, such as visiting another research group to collaborate on a project. The competition is held each year in which there is an ISB-conference.

The winner of the Promising Scientist Award 2015 is Ross Miller who will be presenting a summary of his work in the Awards Session on Thursday 16th July, 14:20 – 16:10 in the Clyde Auditorium.

David Winter Young Investigator Award

As of 2012, these awards are presented in honour of Professor David Winter and his pioneering contribution to the science and application of biomechanics.

There are two Young Investigator awards, one for the best oral presentation (sponsored by the Journal of Biomechanics, Elsevier Science Ltd) and one for the best poster presentation (Sponsored by the organizers of the previous ISB Congress). The award recipients are offered a certificate, a monetary award of US\$ 750. A short biography with an outline of the recipients' professional background is published in the ISB Newsletter and ISB website.

The top 5 poster presentation applicants for this award are:

Andrew Symonds
Chiaki Ohtaka
Geoffrey Alonzo Power
Jonathan De Melker Worms
Robert Eberle

The top 5 oral presentation applicants are:

Frank Ruben Halfwerk
Katherine M Steele
Kelly A Larkin-Kaiser
Lasse P. Räsänen
Sandra K. Hnat

These abstracts will be presented in the David Winter Young Investigator Award Session on Wednesday 15th July, 16:00 – 17:20 in Dochart 1. The abstracts will be judged and the winner will present again in the Awards Session on Thursday 16th July, 14:20 – 16:10 in the Clyde Auditorium.

Clinical Biomechanics Award

The abstract must describe a study related to a clinical problem and contain some form of biomechanical analysis pertaining to the clinical problem. From the abstracts submitted, 5 are selected and nominated for the award. The authors of the 5 selected abstracts are requested to submit a full length paper prepared according to the guidelines of Clinical Biomechanics. The paper must be entirely original, not published at the time of the ISB-congress nor submitted for publication to any Book or Journal other than Clinical Biomechanics.

The top 5 applicants for this award are:

Luca Parisi
Brook Galna
Geoffrey Ng
Ayman Assi
Andrew Tan

The winner of the Clinical Biomechanics Award 2015 is Andrew Tan who will be presenting a summary of his work in the Awards Session on Thursday 16th July, 14:20 – 16:10 in the Clyde Auditorium.

Emerging Scientist Award sponsored by Carlo De Luca

The ISB has had great pleasure to announce the 2nd Emerging Scientist Award sponsored by Professor Carlo J De Luca. The award honors excellence in graduate research in the area of motor control and electromyography and is associated with a monetary award of \$US 2,500. The winners are selected prior to the next ISB Congress and will present in the award's session at that ISB Congress.

The winner of the Emerging Scientist Award 2015 is Hagio Shota who will be presenting a summary of his work in the Awards Session on Thursday 16th July, 14:20 – 16:10 in the Clyde Auditorium.

Keynote Presentations

The organising committee for ISB 2015 wanted to celebrate the landmark occasion of the XXV congress by some rather unusual keynote speeches. We wanted the congress to not only look back over the past 25 congresses concerning the history of biomechanics, but also to look to the future for the next 25 years. Since this task was somewhat larger than a traditional keynote speech, we decided to give the task to two people in each of the keynote themes. Without causing offence, our intention was to pair those in the prime of their career with those with a significant proportion of their career ahead of them. We hope this will lead to some interesting talks and to inspire conversation and debate throughout the congress!

Our keynotes themes are:

Motor control:	Carlo De Luca and Dario Farina
Measurement Technology:	Laurence Cheze and Claudia Mazza
Sport:	Gert-Peter Brüggemann and Sharon Dixon
Hip Biomechanics:	Georg Bergmann and Jonathan Jeffers
Knee Biomechanics:	Peter Walker and Mark Taylor
Tissue Mechanics:	Gerard Ateshian and Hazel Screen
Spine biomechanics:	Saeed Shirazi-Adl and Jude Meakin

Keynote Speaker Biographies



Carlo De Luca

Carlo J. De Luca, Ph D, Professor Emeritus of Boston University, Founding President and CEO of Delsys Inc. and the Neuromuscular research Foundation. He has held academic appointments at Queens University, Harvard College, MIT and Boston University. He served as Dean of the college of Engineering at Boston University.

He is recognized for introducing engineering concepts to the field of Electromyography, for improving the understanding of motor unit control, and for inventing and promulgating applicable EMG technology. He has trained 42 graduate students and 41 scientists from 14 countries. He has received continuous support of \$50 M for R&D over the past 40 Years. His body of work includes: a book, *Muscles Alive*, 120 peer-reviewed articles, 20 book chapters, 18 peer-reviewed conference papers, and 18 patents. His writings have been cited over 23,500 times. He is a member of 10 professional societies in which he has held various offices. He is the recipient of various scientific and humanitarian awards.



Dario Farina

Dario Farina received Ph.D. degrees in automatic control and computer science and in electronics and communications engineering from the Ecole Centrale de Nantes, Nantes, France, and Politecnico di Torino. After a work period at Aalborg University, Denmark, first as Associate (2004-2008) and then as Full Professor in Motor Control and Biomedical Signal Processing (2008-2010), he has been appointed Full Professor and Founding Chair of the Department of Neurorehabilitation Engineering (2010-present) at the University Medical Center Göttingen, Georg-August University, Germany. Among other awards, he has been the recipient of the 2010 IEEE Engineering in Medicine and Biology Society Early Career Achievement Award, in 2012 he has been elected Fellow of the American Institute for Medical and Biological Engineering (AIMBE), and in 2014 he has been elected Distinguished Lecturer IEEE. His research focuses on biomedical signal processing, neurorehabilitation technology, and neural control of movement, where he has (co)-authored approximately 350 papers in peer-reviewed Journals. He has received financial support for his research by several national and international granting agencies, including an Advanced Research Grant by the European Research Council (2011-2016).

Keynote Speaker Biographies



Laurence Cheze

Engineer in Mechanics, Ph.D. in Biomechanics, Professor at University of Lyon (France) where I am responsible of the Biomechanics specialty of the Master degree, I have been an active researcher in the field of biomechanics since the 1990s, involved in many research projects conducted with academic and industrial partners which applications were mainly in orthopedics and rehabilitation. I have organized several international congresses, and I am reviewer for many international journals and research projects. Author of approximately 90 papers in archive journals and ex-president of the French speaking Society of Biomechanics, my main fields of interest are multi-body modeling of the musculo-skeletal system, 3D motion experimental measurement and analysis for both fundamental research and clinical investigations. Until now, I have supervised 40 students in MSc and 24 students in Ph.D on these topics.



Claudia Mazza

Claudia received her PhD in Bioengineering in 2004 from the University of Bologna. She carried out her PhD and post-doctoral research activities at the Department of Human Movement Sciences at the University of Rome "Foro Italico", where she was appointed Assistant Professor from 2006 to 2012. She joined the Department of Mechanical Engineering at the University of Sheffield as a Lecturer in Feb 2013. Claudia's research focuses on the biomechanics of human movement and on the definition of experimental and modelling techniques for the clinical assessment of an individual's locomotor and postural abilities.

Keynote Speaker Biographies



**Gert-Peter
Brüggemann**

Dr. Brüggemann received his undergraduate training in mathematics and human movement sciences at the Universities Muenster and Frankfurt/Main, Germany. In 1980 he obtained a doctoral degree at the University of Frankfurt/Main in Biomechanics. He accepted an Associate Professor position at the German Sport University of Cologne in 1984. There Dr. Brüggemann received a full professorship in human movement science in 1993. Since 2000 he has held a professorship in Biomechanics and is the director of the Institute for Biomechanics and Orthopaedics at the German Sport University. This multi-disciplinary research institute concentrates on the study of the human body, its movements and its biological tissue response to mechanical loading related to exercise using micro- and macroscopic approaches. Dr. Brüggemann's research concentrates on human movement and the related mechanical loading of biological structures in sports and daily life activities. He is interested in the application of movement related products for able bodied and handicapped recreational and elite athletes such as sport shoes, playing surfaces, sport equipment, braces, orthoses and prostheses. Dr. Brüggemann has collaborated with many sporting goods, footwear and health care companies.



Sharon Dixon

Dr Sharon Dixon is a Senior Lecturer in Sports Biomechanics at the University of Exeter, UK. Dr Dixon gained her Ph.D. in 1996 from Loughborough University. She then held postdoctoral research positions in the School of Civil Engineering, University of Nottingham and in the Human Performance Laboratory, University of Calgary. Dr Dixon's research interests focus on biomechanical mechanisms of lower extremity overuse injury in sport and exercise, and the influence of footwear and surface manipulations on human biomechanics. Dr Dixon leads the Exeter Biomechanics Research Team, with projects funded by research councils and industry. Sports injury mechanisms are being explored with military populations (Royal Marines) and sports performers (Rugby Football). Sports surface and shoe projects include those with the International Tennis Federation, New Balance and Umbro. Dr Dixon is on the Editorial Board for the journals Footwear Science and Journal of Sport Sciences, and has published in a range of journals in sports and exercise related biomechanics, sports medicine and sports engineering.

Keynote Speaker Biographies



Georg Bergmann

After studying Biomedicine, Georg worked at the Biomechanics Lab of the Free University in Berlin since 1974. In 1979 he started the technically demanding development of a load measuring micro-telemetry to be integrated in joint endoprosthesis. Since 1988 about 50 instrumented implants were used to measure the loads acting in hip, knee and shoulder implants as well as in the spine; this is the largest number worldwide. About 150 publications and the public data base www.OrthoLoad.com became a standard for developing and testing new implants, improving physiotherapy, for many biomechanical investigations, teaching purposes and as a gold standard for testing the validity of load predicting computer models. Together with Prof. Georg Duda he founded the Julius Wolff Institute at the Charité in Berlin in 2008. It is the largest German institute dedicated to research in Biomechanics, Orthopaedics, basic bone and cell research.



Jonathan Jeffers

Jonathan Jeffers graduated from Trinity College Dublin before completing his PhD in the University of Southampton. He led several projects in industry (Finsbury Orthopaedics), including the CE marking of a Delta ceramic hip resurfacing. He now is a Senior Lecturer in Imperial College London where he leads a research team of 10 doctoral and post-doctoral staff, with a research income of c£2m from the Engineering and Physical Sciences Research Council (EPSRC), the Wellcome Trust and Industry. His main research interest is the application of engineering in orthopaedics, in terms of understanding the biomechanics of healthy joints and investigating the technology that will enable new, small, early interventional treatments. In 2010 he was honoured to be elected the youngest fellow of the Institution of Mechanical Engineers and in 2013 he was awarded a fellowship by the EPSRC – the governmental body for engineering research in the UK.

Keynote Speaker Biographies



Peter Walker

Peter S Walker earned a BA in Mechanical Sciences from Cambridge University, England, in 1963. After 3 years in industry, in 1969 he was awarded a PhD on his thesis 'The Lubrication and Wear of Human Joints', at the University of Leeds working under Duncan Dowson. His external examiner was Robert M Kenedi from Strathclyde University. In 1969, he joined the Hospital for Special Surgery, New York, where with Drs Chit Ranawat and John Insall, designed one of the first successful artificial knee joints, the Total Condylar. Dr Walker then joined Howmedica-Stryker, as Director of Product Development. Subsequently he established an orthopaedic biomechanics laboratory at the Brigham and Women's Hospital, Harvard Medical School, Boston, where he was co-designer of the Kinemax knee. From 1987-2000, he was Professor of Biomedical Engineering at University College London, England, directing a broad research program, which included design & manufacture of custom implants for complex reconstructive problems. From 2000 to the present he has been Professor of Orthopaedic Surgery at New York University Medical Center-Hospital for Joint Diseases, and Professor of Mechanical Engineering at NYU-Polytechnic. He has authored/co-authored over 300 papers in peer-reviewed journals, and has written one book. He has received honors from the Knee Society, the Hip Society, The American Society of Mechanical Engineers, International Society for Technology in Arthroplasty, and The European Society of Biomechanics. He has served on many Committees, and is on the Editorial Board and Reviewer for several biomechanical journals.



Mark Taylor

Professor Mark Taylor is a Strategic Professor in Biomedical Engineering within the School of Computer Science, Engineering and Mathematics at Flinders University, Adelaide. He has over 20 years in experience in the field of orthopaedic biomechanics and has spent time in both academia and industry. His main area of expertise is using computational modelling to assess the performance of total joint replacements, with a focus on assessing the influence of patient and surgical variability.

Keynote Speaker Biographies



Hazel Screen

Hazel Screen is a Reader in Biomedical Engineering at Queen Mary University of London. She has a BEng in mechanical engineering, MRes in Instrumentation Systems, and a PhD in tissue mechanics. Her research interests are in multi-scale mechanics in soft connective tissues, characterising tissue behaviour from the whole body (in vivo) level through to cell mechanobiology.

She has a particular interest in tendon structure-function relationships, characterising hierarchical tissue mechanics and the propagation of mechanical cues through the matrix to drive mechanotransduction processes.

Some key goals are to establishing how certain tendons (such as the Achilles tendon) are able to withstand repetitive high loads without damage in some individuals, whilst other individuals are tendinopathy prone. She has focused on the biomechanical factors associated with the onset and progression of tendinopathy, to unravel how fatigue damage and cell mechanobiological response interplay with disease progression.

The downstream goal is to develop evidenced based treatments for tendinopathy, targeting the key mechanical deficits identified in structure-function studies.



Gerard Ateshian

Gerard Ateshian is the Andrew Walz Professor of Mechanical Engineering and Director of the Musculoskeletal Research Laboratory at Columbia University in New York City. His primary research is in the field of soft tissue mechanics, with an emphasis on cartilage mechanics, lubrication, and tissue engineering, and the formulation of growth theories for biological tissues. In collaboration with Prof. Clark T. Hung at Columbia, he has translated his findings on cartilage mechanics to the field of functional cartilage tissue engineering, with a particular focus on the role of mechanical loading in tissue growth. Together with Dr. Jeffrey A. Weiss at the University of Utah, he has developed open-source computational tools that facilitate the modeling of tissue mechanics, transport, and growth processes (febio.org). He has applied and validated these tools with the modeling of engineered cartilage growth.

Keynote Speaker Biographies



Judith Meakin

Judith Meakin is a Lecturer in the Biophysics group at Exeter University where she has worked since 2010. Previously she held post-doctoral research positions at the Universities of Aberdeen and Calgary. She received her BSc in Physics from Manchester University in 1993 and her MSc in Information Technology (Medical Physics) and PhD in Biomedical Physics and Bioengineering from Aberdeen University in 1995 and 1999 respectively. She is a Fellow of the Institute of Physics and Engineering in Medicine. Her research interests are concerned with the biomaterials and biomechanics of the spine and associated tissues. Recent work has focussed on characterising variation in lumbar spine shape and assessing the implications of this variation for spinal biomechanics. Current work aims to establish the source of this variation, assess the role of the spinal muscles, and determine the effects on spinal loading, using a combination of imaging and modelling.



Saeed Shirazi

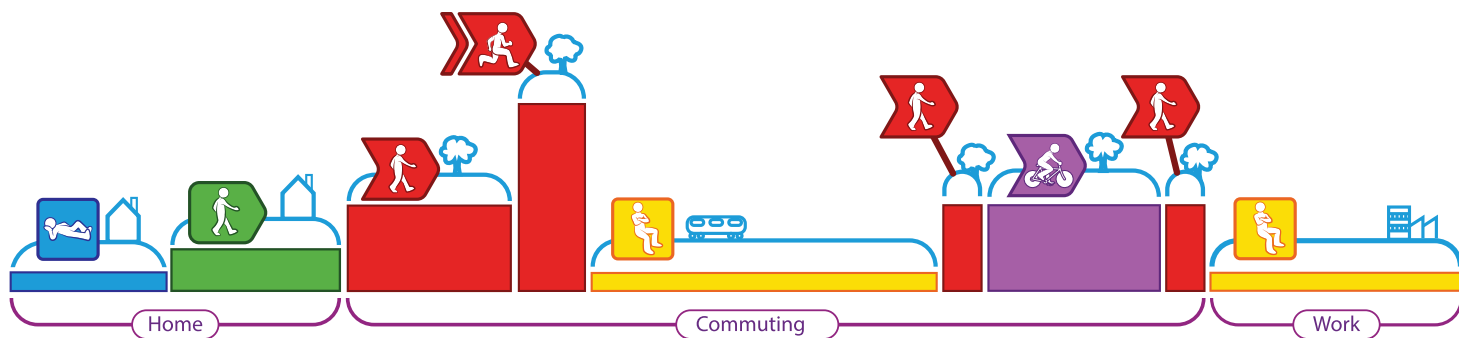
Saeed A. Shirazi-Adl received his Ph.D. in biomechanics of spine from the Department of Civil Engineering and Applied Mechanics at McGill University in Montreal, Canada in 1984. He is currently a Professor at the Departments of Mechanical and Biomedical Engineering of École Polytechnique in Montreal. The main focus of his research has been on computational biomechanics of human musculoskeletal systems such as spine (manual material handling, kinematics, back loads, intervertebral disc) and knee joint (muscle activity, kinematics, contact forces, cartilage stresses).

Special Sessions

Again, for XXV ISB 2015, the organising committee wanted to do something different for the various interest groups and research fields that comprise what we know as biomechanics. We decided to hand over an hour of each day of the conference programme to these groups with a completely free remit. These sessions, which run 11am to 12 noon Monday to Thursday, have been denoted “Special Sessions”. Some Special Sessions will be discussion for a, some contain invited speakers, and some are simply the highest ranked presentations, as decided by our abstract reviewers, in that field.

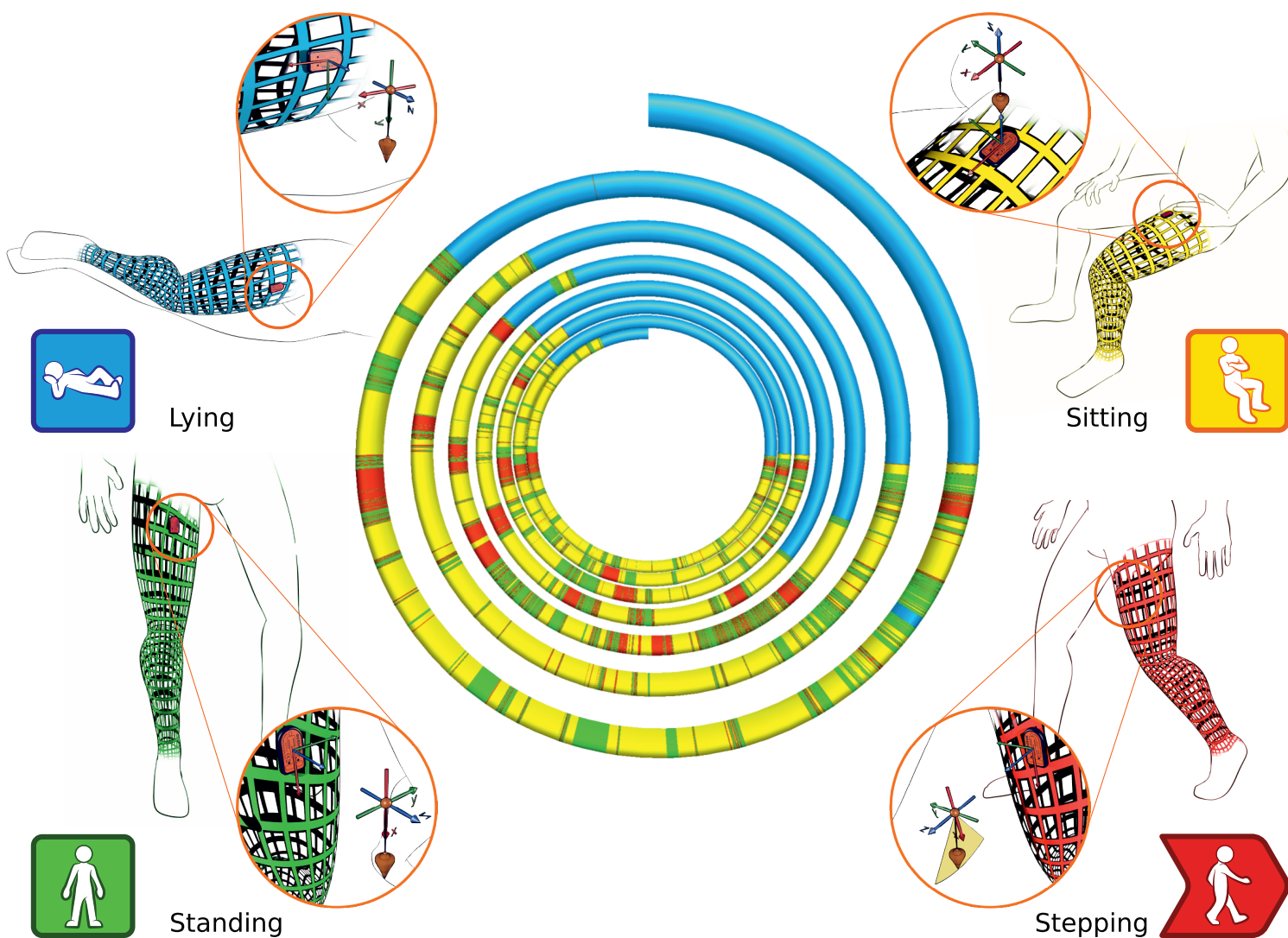
We sincerely hope you fully support these Special Sessions – the organisers have put a lot of effort in to them – and that they too spark discussion and collaborative activity.





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Information for Speakers and Poster Presenters

Speaker Preview Room

The speaker preview room is located in the Katrine located on the first floor mezzanine level within the Seminar Suite. Access is for invited speakers and oral abstract presenters only.

All presentations must be submitted to the Speaker Preview Room at least 4 hours prior to your presentation time. The room will be open at the following times:

Date	Opening Times
Sunday 12th July 2015	16:00 – 19:00
Monday 13th July 2015	07:00 – 18:00
Tuesday 14th July 2015	07:00 – 18:00
Wednesday 15th July 2015	07:00 – 18:00
Thursday 16th July 2015	07:00 – 16:00

You may bring your presentation on CD or USB in PowerPoint (PPT) version 2007 or 2010. A member of the technical team will assist you in uploading your presentation, along with any minor changes you may have. If you plan to use embedded videos in your presentation, please remember to bring these video files. Video formats accepted are AVI and WMV.

Instructions for Oral Presentations

Type of Presentation	Presentation Time	Discussion Time	Total Length
Keynote Session	40 minutes	10 minutes	50 minutes
Abstract Session	7 minutes	2 minutes	9 minutes
Wednesday 15th July	10:20 – 11:00	12:00 – 13:30	15:30 – 16:00
Thursday 16th July	10:20 – 11:00	12:00 – 13:00	14:00 – 14:20

Speakers should be in the presentation room at least 10 minutes before the beginning of the session to meet with the chairpersons. Please strictly follow the instructions provided by the chair, especially with regards to time allocated to the presentation.

Please ensure that presentations are kept to time – you will be prompted by staff in the room who will show time cards at the back of the room when a speaker is due to finish (this is including question time). Please ensure that time is built within each presentation for questions. If a laser pointer is not necessary, please leave it on the lectern.

Instructions for Poster Display

Date of Display	Install Time	Dismantle Time	Location
Monday 13th July 2015	07:30 (Monday)	From 16:40. Must be removed by 18:00.	Hall 5
Tuesday 14th July 2015	07:30 (Tuesday)	From 16:40. Must be removed by 18:00.	Hall 5
Wednesday 15th July	10:20 – 11:00	12:00 – 13:30	15:30 – 16:00
Thursday 16th July	10:20 – 11:00	12:00 – 13:00	14:00 – 14:20

If your poster is not removed by the relevant deadline, you risk your poster being removed and disposed of.

Scientific Programme

Sunday 12th July

Time	Abstract Number	Title
09:00 - 10:00		Registration Opens for Tutorials Location: Mezzanine
10:00 - 12:00		The ISB Biomechanics and Motor Control Working Group 2nd Annual Meeting Chair: Carlo De Luca Location: Forth
10:00 - 12:00		Tutorial 1 - Advanced Tissue Mechanics - Organised by Philip Riches Location: Ness
10:00 - 12:00		Tutorial 2 - Using Biomechanical Data for Therapy and Purposeful Gaming - Organised by Jaap Harlaar Location: Morar
12:00 - 13:00		Break
13:00 - 16:00		The ISB Biomechanics and Motor Control Working Group 2nd Annual Meeting Chair: Carlo De Luca Location: Forth
13:00 - 15:00		Tutorial 3 - Motion Capture and Robotic Surgery - Organised by Jon Clarke Location: Ness
13:00 - 15:00		Tutorial 4 - Prosthetics and Orthotics Biomechanics - Organised by Anthony McGarry Location: Morar
16:00 - 19:00		Registration Opens for Congress Location: Hall 5
17:00 - 18:00		Opening Ceremony Location: Clyde Auditorium
18:00 - 19:00		Wartenweiler Lecture - Aurelio Cappozzo Location: Clyde Auditorium
Civic Welcome Reception - Glasgow Science Centre		

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
07:00 - 18:00		Registration Opens Location: Hall 5			
08:20 - 09:20		Abstract Session - Sport 1 Chairs: Darren Stefanyshyn & Bill Wannop Location: Clyde Auditorium			
08:20 - 08:30	AS-0001	THE EFFECTS OF SQUATTING FOOTWEAR ON THREE-DIMENSIONAL LOWER LIMB AND SPINE KINETICS.	Shane Petersen	Nipissing University	Canada
08:30 - 08:40	AS-0002	THE EFFECT OF AUGMENTED FEEDBACK ON IMPULSE GENERATION DURING A QUICK FIRST STEP	Christopher Daniel Ramos	University of Southern California	United States
08:40 - 08:50	AS-0311	THE KINETIC IMPULSE ASYMMETRY INDEX IN THE VERTICAL JUMP PREDICTS LOWER BODY INJURY IN ELITE ATHLETES	M J Jordan	University of Calgary	Canada
08:50 - 09:00	AS-0004	EFFECTS OF PEDALLING CADENCE ON VASTUS LATERALIS FASCICLES BEHAVIOUR	Julio Cézar Lima Da Silva	The Swedish School of Sport and Health Sciences	Sweden
09:00 - 09:10	AS-0005	FORCE PRODUCTION AND WEIGHT SHIFTING DURING OLYMPIC LIFTS UNDER DIFFERENT ATTENTIONAL FOCUS CONDITIONS	Natalie Maltz	California State University, Long Beach	United States
09:10 - 09:20	AS-0006	3D MOTION ANALYSIS OF WRIST ENGAGEMENT AND MALLET TRAJECTORY IN CROQUET	Jenny Claire Clarke	University of Canterbury	New Zealand
08:20 - 09:20		Modelling & Computer Simulation 1 Chairs: Saikat Pal & Andrew Phillips Location: Gala			
08:20 - 08:30	AS-0007	MODELLING AND SIMULATION OF OSTEOCHONDRAL AUTOGRAFT TRANSFER: QUANTIFYING THE EFFECTS OF CARTILAGE THICKNESS MISMATCH BY FINITE ELEMENT ANALYSIS	Yuxing Wang	University of Strathclyde	United Kingdom
08:30 - 08:40	AS-0008	BOTTOM-UP MECHANO-STRUCTURAL MODELING OF THE CARTILAGE MATRIX	Ying-Chun Chen	University of Oxford	United Kingdom
08:40 - 08:50	AS-0010	COMPARISON BETWEEN ELASTIC AND POROELASTIC MODEL TO SIMULATE CARTILAGE-MENISCUS-CARTILAGE INTERACTIONS	Bernardo Innocenti	Université Libre de Bruxelles	Belgium
08:50 - 09:00	AS-0011	POROELASTIC FINITE ELEMENT MODEL OF OSTEOGENESIS WITHIN A TITANIUM SCAFFOLD COUPLING BIOLOGY AND MECHANICS	Mary Schmitt	Arts et MétiersParisTech	France
09:00 - 09:10	AS-0012	A NEW STRAIN ENERGY FUNCTION FOR THE HYPERELASTIC MODELLING OF LIGAMENTS AND TENDONS BASED ON FASCICLE MICROSTRUCTURE	Tom Shearer	University of Manchester	United Kingdom

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:20		Abstract Session - Motion Analysis 1 Chairs: Genevieve Dumas & Todd Pataky Location: Forth			
08:20 - 08:30	AS-0013	KINETIC COMPARISON OF WALKING ON AN INSTRUMENTED TREADMILL VERSUS OVER GROUND IN CHILDREN WITH AND WITHOUT CEREBRAL PALSY	Marjolein Margaretha Van Der Krogt	VU University Medical Center	Netherlands
08:30 - 08:40	AS-0014	IMPROVED CALIBRATION OF INSTRUMENTED TREADMILLS USING AN INSTRUMENTED STICK	Lizeth Slood	VU University Medical Center	Netherlands
08:40 - 08:50	AS-0015	FUNCTIONAL ESTIMATION OF THE METACARPOPHALANGEAL JOINT AXES OF ROTATION	Pierre Devos	Université de Technologie de Compiègne	France
08:50 - 09:00	AS-0016	JOINT KINEMATIC CALCULATIONS BASED ON STANDARD CLINICAL DIRECT KINEMATIC VERSUS CONTEMPORARY INVERSE KINEMATIC APPROACHES: HOW LARGE IS THE DIFFERENCE?	Hans Kainz	Griffith University	Australia
09:00 - 09:10	AS-0017	GAIT INITIATION IN PATELLAR CHONDROMALACIA SUBJECTS	Matias Noll	Instituto Federal Goiano	Brazil
09:10 - 09:20	AS-0018	COMPARISON OF BIOMECHANICAL PARAMETERS OF HEALTHY ADULT GAIT USING THREE MARKER BASED MODELS	Manunchaya Samala	University of Strathclyde	United Kingdom
08:20 - 09:20		Abstract Session - Musculoskeletal 1 Chairs: Johnathan Folland & Sabrina Lee Location: Seminar Suite			
08:20 - 08:30	AS-0019	COLLAGEN CROSSLINKING DOES NOT DICTATE STIFFNESS IN A TRANSGENIC MODEL OF SKELETAL MUSCLE FIBROSIS	Mark Andrew Chapman	University of California - San Diego	United States
08:30 - 08:40	AS-0020	LONG-TERM STIMULATION RESULTS IN SARCOMERE LENGTH NON-UNIFORMITY	Maria Engel	University of Calgary	Canada
08:40 - 08:50	AS-0021	RISK OF FALLS IN WOMEN WITH FIBROMYALGIA	Suelen M. Meira Goes	Dalhousie University	Canada
08:50 - 09:00	AS-0022	ACUTE EFFECTS OF CONTRACT-RELAX STRETCHING, STATIC STRETCHING AND ISOMETRIC CONTRACTIONS ON MUSCLE-TENDON MECHANICS	Anthony Kay	The University of Northampton	United Kingdom
09:00 - 09:10	AS-0023	EXPLORING THE RELATIONSHIP BETWEEN LOCAL AND GLOBAL SPINE STABILITIES DURING REPETITIVE LIFTING TASKS.	Matthew Mavor	Nipissing University	Canada

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:20		Abstract Session - Motor Control 1 Chairs: Bart Koopman & Vincenzo Carbone Location: Carron 1			
08:20 - 08:30	AS-0025	IN SEARCH OF THE UNDERLYING MECHANISMS RESPONSIBLE FOR IMPAIRED GAIT-RELATED POSTURAL CONTROL IN PEOPLE WITH PARKINSON'S DISEASE	Brook Galna	Newcastle University	United Kingdom
08:30 - 08:40	AS-0026	INDIVIDUALS WITH CHRONIC ANKLE INSTABILITY USE DIFFERENT PATTERNS OF MUSCULAR ACTIVATION TO MAINTAIN BALANCE WHILE KICKING A BALL IN SINGLE-LEG STANCE	Jaqueline Lourdes Rios	University of Calgary	Canada
08:40 - 08:50	AS-0027	INDIVIDUALS WITH KNEE OSTEOARTHRITIS USE DIFFERENT MUSCLE ACTIVATION PATTERNS THAN HEALTHY SUBJECTS DURING MAXIMAL ISOMETRIC KNEE EXTENSIONS	Jaqueline Lourdes Rios	University of Calgary	Canada
08:50 - 09:00	AS-0028	MUSCLE SYNERGIES IN LEVEL AND INCLINED WALKING	Lars Janshen	Humboldt-Universität zu Berlin	Germany
09:00 - 09:10	AS-0029	THE EFFECTS OF FATIGUE ARE INFLUENCED BY MUSCLE ACTION (ECCENTRIC VS CONCENTRIC) AND FORCE DEMANDS (SUBMAXIMAL VS MAXIMAL)	Chad A. Sutherland	McMaster University	Canada
09:10 - 09:20	AS-0030	EXISTENCE OF MUSCLE SYNERGIES INCREASE LEARNING SPEED: SIMULATION STUDY BASED ON NEURAL NETWORK MODEL	Shota Hagio	Kyoto University	Japan
08:20 - 09:20		Abstract Session - Upper Body: Trunk & Spine 1 Chairs: Jaqueline Alderson & Kirsty McDonald Location: Carron 2			
08:20 - 08:30	AS-0031	MALPOSITIONING OF THE PATIENT DURING X-RAY ACQUISITION CAN AFFECT THE ASSESSMENT OF SAGITTAL PELVIC PARAMETERS: EVALUATION IN ADULTS AND CHILDREN	Ayman Assi	School of Medicine, University of Saint-Joseph	Lebanon
08:30 - 08:40	AS-0032	THE POSTPARTUM DIASTASIS RECTIS ABDOMINIS AND THE ABILITY OF THE ABDOMINAL MUSCLES TO STABILIZE THE PELVIS DURING THE DOUBLE-LEG LOWERING EXERCISE	Augusto Gil Pascoal	University of Lisbon	Portugal
08:40 - 08:50	AS-0033	A GOAL PROGRAMMING MODEL FOR ASSESSING SAGITTAL SPINAL CURVATURE UNDER BACKPACK CARRIAGE	Daniel HK Chow	The Hong Kong Institute of Education	Hong Kong
08:50 - 09:00	AS-0034	INTERVERTEBRAL DISC STRESS IN STANDING AND SITTING; MAGNETIC RESONANCE IMAGING BASED FINITE ELEMENT STUDY	Sahand Zanjani-pour	University of Exeter	United Kingdom

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
09:00 - 09:10	AS-0035	IS THERE A CHANGE IN THE ABILITY TO REACT TO A PERTURBATION FOLLOWING A BOUT OF PROLONGED SITTING?	Tara Diesbourg	Queen's University	Canada
09:10 - 09:20	AS-0036	INTRA-TRUNK COORDINATION EXHIBITED DURING TREADMILL RUNNING BY INDIVIDUALS WITH SPINAL FUSION FOR ADOLESCENT IDIOPATHIC SCOLIOSIS	Yumeng Li	University of Georgia	United States
08:20 - 09:20	Abstract Session - Cardiovascular 1 Chairs: Richard Black Location: Dochart 1				
08:20 - 08:30	AS-0037	THE EFFECT OF BREATHING ON ACTIVE DRAG WHILE SWIMMING	Pendar Hazrati	Australian Institute of Sport	Australia
08:30 - 08:40	AS-0038	UTILITY OF VOLUMETRIC FLOW ULTRASOUND INDICES IN PREDICTING INTRAUTERINE GROWTH RESTRICTION FETUSES	Choon Hwai Yap	National University of Singapore	Singapore
08:40 - 08:50	AS-0039	EFFECT OF PULSATILITY RATE ON THE HEMODYNAMICS OF BILEAFLET MECHANICAL PROSTHETIC HEART VALVES (ST. JUDE MODEL) FOR THE AORTIC POSITION IN THE OPENING PHASE; A COMPUTATIONAL STUDY	Mehdi Jahandardoost	University of British Columbia	Canada
08:50 - 09:00	AS-0040	MODELLING EXPIRATION USING VISCOELASTIC PRESSURE DEPENDANT RECRUITMENT MODELS – IS IT THE SAME AS INSPIRATION	Daniel Redmond	University of Canterbury	New Zealand
09:00 - 09:10	AS-0041	A COUPLED HUMAN LEFT VENTRICLE AND SYSTEMIC ARTERIES MODEL	Weiwei Chen	University of Glasgow	United Kingdom
09:10 - 09:20	AS-0042	NUMERICAL INVESTIGATION OF DESIGN PARAMETER EFFECTS ON HEMODYNAMICS IN A NOVEL SPIRAL-INDUCING BYPASS GRAFT	Andres Ruiz-Soler	Manchester Metropolitan University	United Kingdom
08:20 - 09:20	Abstract Session - Rehabilitation: Wheelchair Chairs: Kristan Zhao & Emma Fortune Location: Dochart 2				
08:20 - 08:30	AS-0043	ESTIMATED ATHLETE'S BASKETBALL MATCH PERFORMANCE BASED ON MEASUREMENT OF WHEELCHAIR KINEMATICS USING INERTIAL SENSORS.	Rienk van der slikke	The Hague University of Applied Sciences	Netherlands
08:30 - 08:40	AS-0044	INFLUENCE OF THE MANUAL WHEELCHAIR SETTINGS WHEN ROLLING ON A CROSS-SLOPE : A THEORETICAL STUDY	Ian Miles Russell	University of Southern California	United States
08:40 - 08:50	AS-0045	MODIFICATIONS OF PROPULSION MECHANICS WITH INCREASES IN SPEED ALTERS DISTRIBUTION OF MECHANICAL DEMAND IMPOSED ON THE UPPER EXTREMITY	Rodrick Shangali	KCMC Hospital	Tanzania, United Republic of

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:50 - 09:00	AS-0046	EVALUATION OF A WHEELCHAIR TRICYCLE ATTACHMENT FOR PERSONS WITH DISABILITIES IN DEVELOPING COUNTRIES	Joseph Bascou	Institution Nationale des Invalides / Centre d'Etudes et de Recherches sur l'Appareillage d'Handicapés (INI/CERAH)	France
09:00 - 09:10	AS-0047	SPINAL POSTURE AND BALANCE IN INDIVIDUALS WITH SPINAL CORD INJURY IN RESPONSE TO WHEELCHAIR SEAT CHANGES	Beth Allison Cloud	Mayo Clinic	United States
09:10 - 09:20	AS-0048	ESTIMATED ATHLETE'S BASKETBALL MATCH PERFORMANCE BASED ON MEASUREMENT OF WHEELCHAIR KINEMATICS USING INERTIAL SENSORS.	Rienk van der Slikke	The Hague University of Applied Sciences	Netherlands
09:20 - 09:30 Transition 10 minutes					
09:30 - 10:20 Keynote Lecture - Hip Biomechanics Location: Clyde Auditorium					
		Hip Biomechanics	Georg Bergmann	University Medicine Berlin	Germany
			Jonathan Jeffers	Imperial College London	United Kingdom
10:20 - 11:00 Coffee Break Location: Hall 5					
11:00 - 12:00 Special Session - Evolving Concepts in Motor Control for Biomechanics Chairs: Carlo De Luca Location: Clyde Auditorium					
11:00 – 11:15		BIOMECHANICAL BENEFITS OF THE ONION-SKIN MOTOR UNIT CONTROL SCHEME	Carlo De Luca	Boston University	United States
11:15 – 11:30		EMPIRICAL EVIDENCE DISPUTING THE NOTION THAT COMMON INPUTS CAUSE MOTOR UNIT SYNCHRONIZATION	Joshua C. Kline	Delsys Inc	United States
11:30 – 11:45		TRANSPPOSITION OF MOTOR UNIT FIRING RATES DURING OSCILLATORY CONTRACTIONS	Paola Contessa	Delsys Inc	United States
11:45 - 12:00		Q & A			

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00 Special Session - ISB-ISG standard for inertial sensors: a proposal for upper-limb kinematics Chairs: Andrea Giovanni Cutti & Prof Dirk Jan Veeger Location: Gala					
11:00 - 11:10		GENERAL INTRODUCTION TO ISG AND TO THE USE OF INERTIAL SENSORS FOR UPPER-LIMB KINEMATICS	Andrea G. Cutti	Centro Protesi INAIL	Italy
11:10 - 11:20	SS-0006	UPPER LIMB KINEMATICS AND INERTIAL SENSORS: WHICH CALIBRATION FOR THE BEST ACCURACY?	Brice Bouvier	INRS	France
11:20 - 11:30		ACCURATE MEASUREMENT OF SCAPULAR KINEMATICS USING IMMS NEEDS ANATOMICAL CALIBRATION IN JUST ONE POSITION	Jaap Harlaar	VU Medical Centre Amsterdam	Amsterdam
11:30 - 11:40		WHAT CAN WE LEARN FROM SPORT? PROPOSAL OF AN ULNAR SENSOR TO AVOID SOFT-TISSUE ARTEFACTS	Andreas Kontaxis & Andrea G. Cutti	Hospital for Special Surgery	United States
11:40 - 12:00		MODERATED DISCUSSION ABOUT THE NEW ISB-ISG STANDARD	DirkJan Veeger	VU Amsterdam & TU Delft	Amsterdam
11:00 - 12:00 Special Session - John Paul Hip Biomechanics Chairs: Philip Rowe Location: Forth					
11:10 - 11:20	SS-0001	DIFFERENCES IN ANATOMICAL PARAMETERS BETWEEN THE AFFECTED AND UNAFFECTED HIP IN PATIENTS WITH BILATERAL CAM-TYPE DEFORMITIES	K.C. Geoffrey Ng	University of Ottawa	Canada
11:20 - 11:30	SS-0002	MRI-BASED GEOMETRICAL DETAIL AFFECTS HIP CONTACT FORCES MORE THAN COST FUNCTION FORMULATION	Mariska Wesseling	KU Leuven	Belgium
11:30 - 11:40	SS-0003	SIMULATION OF IMPINGEMENT AND MICRO-SEPARATION FOR TOTAL HIP REPLACEMENTS DURING STAIR CLIMBING	Amir Andreas Al-Munajjed	AnyBody Technology	Denmark
11:40 - 11:50	SS-0004	WEAR OF CROSS-LINKED UHMWPE HIP REPLACEMENTS USING AN ELECTROMECHANICAL HIP JOINT SIMULATOR UNDER TWO-AXIS AND THREE-AXIS OF ROTATION CONDITIONS	Murat Ali	Institute of Medical and Biological Engineering	United Kingdom
11:50 - 12:00	SS-0005	GENDER DIFFERENCES IN 3D PELVIS, HIP AND KNEE KINEMATICS DURING HUMAN GAIT	Gabriel Gollner Zeitoune	Federal University of Rio de Janeiro, Brazil	Brazil

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00 Special Session - 3D Analysis of Human Movement ISB Technical Group Chairs: Tung-Wu Lu & Kamiar Aminian Location: Seminar Suite					
11:00 - 11:10	SS-0013	DO SUBJECT SPECIFIC SIMULATIONS MODIFY GAIT ASSESSMENT OUTPUTS COMPARED TO THOSE FROM TRADITIONAL GAIT ANALYSIS?	Luca Modenese	Centre for Musculoskeletal Research	Australia
11:10 - 11:20	SS-0014	BIOMECHANICAL-BASED CLASSIFICATION OF FLATFOOT: EFFECTIVENESS OF DYNAMIC ANGLES AND INDEXES FROM 3D KINEMATICS AND BAROPODOMETRY	Claudia Giacomozzi	Istituto Superiore di Sanità	Italy
11:20 - 11:30	SS-0015	QUANTIFICATION OF HEAD AND TRUNK ACCELERATIONS DURING GAIT AS A PROXY MEASURE OF POSTURAL CONTROL DEFICITS IN PARKINSON'S DISEASE.	Christopher John Buckley	University of Sheffield	United Kingdom
11:30 - 11:40	SS-0016	IN VIVO ACHILLES TENDON FORCES DURING CYCLING DERIVED FROM 3D ULTRASOUND-BASED MEASURES OF TENDON STRAIN	Taylor Dick	Simon Fraser University	Canada
11:40 - 11:50	SS-0017	WALKING WITH INCREASED TRUNK SWAY TO DECREASE AMBULATORY LOAD ON THE KNEE JOINT: IMPLICATIONS FOR THE LOWER BACK	Corina Nüesch	University Hospital Basel	Switzerland
11:50 - 12:00	SS-0018	INTERPRETATION OF TIBIO-FEMORAL KINEMATICS CRITICALLY DEPENDS UPON THE KINEMATIC ANALYSIS APPROACH	Maryam Hajizadeh	ETH Zurich	Switzerland
11:00 - 12:00 Special Session - Feet & Footwear Chairs: Toni Arndt Location: Carron 1					
11:00 - 11:10	SS-0019	COMPUTATIONAL SIMULATIONS AND STRESS DISTRIBUTIONS OF LANDING DURING BAREFOOT RUNNING USING FOREFOOT STRIKE PATTERN	Yu Hua Li	School of Mechanical and Aerospace Engineering	Singapore
11:10 - 11:20	SS-0020	THREE-DIMENSIONAL INTERSEGMENT MOTION OF THE PAEDIATRIC FOOT DURING GAIT: ASSOCIATIONS WITH OBESITY	Ryan Mahaffey	Human Motor Performance	United Kingdom
11:20 - 11:30	SS-0021	THE INFLUENCE OF MINIMALIST FOOTWEAR ON METATARSAL BONE STRAINS DURING RUNNING	Colin Firminger	University of Calgary	Canada
11:30 - 11:40	SS-0022	BODY MASS INDEX, HBA1C, AGE AND DURATION OF DIABETES AS RISK FACTORS FOR DIABETIC FOOT ULCER	Taeyong Lee	Dongguk University	Korea, Republic Of
11:40 - 11:50	SS-0023	REQUIRED FIDELITY OF FOREFOOT GEOMETRY REPRESENTATION FOR PRACTICAL AND ACCURATE PREDICTION OF PLANTAR PRESSURES USING FINITE ELEMENT ANALYSIS	Scott Telfer	Glasgow Caledonian University	United Kingdom
11:50 - 12:00	SS-0024	ON THE INTERACTION OF THE ACHILLES TENDON, PLANTAR HEEL PAD AND PLANTAR FASCIA	Freddy Sichtung	Technische Universität Chemnitz	Germany

Scientific Programme

Monday 13th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00		Special Session - Computer Simulation ISB Technical Group Chairs: Mark King Location: Carron 2			
11:00 - 11:10		THE EFFECT OF DROP HEIGHT ON OPTIMUM TECHNIQUE IN DROP JUMPING	Stuart McErlain-Naylor		
11:10 - 11:20	SS-0025	THE RELATIVE IMPORTANCE OF INCLUDING PERSONALIZED HIP JOINT CENTER LOCATION AND MUSCLE LINE-OF-ACTION DEFINITION IN MUSCULOSKELETAL MODELS TO ASSESS HIP JOINT LOADING IN CP-PATIENTS WITH PROXIMAL FEMORAL DEFORMITY.	Ilse Jonkers	KU Leuven	Belgium
11:20 - 11:30		TASK-LEVEL SIMULATION OF SUBJECT-SPECIFIC MOVEMENT USING OPENSIM	Jeff Reinbolt	University of Tennessee	United States
11:30 - 11:40		THE INFLUENCE OF SEAT POSITION ON WHEELCHAIR PROPULSION EFFORT IN THE PUSH PHASE: A QUASI-STATIC COMPUTATIONAL STUDY	Marko Ackermann	Mechanical Engineering Department, FEI University	Brazil
11:40 - 11:50		MULTI-SCALE COMPUTATIONAL SIMULATIONS: THE ROLE OF BIOMECHANICS IN CARDIOVASCULAR DISEASES AND THERAPIES	Thomas Franz	University of Cape Town	South Africa
11:50 - 12:00	SS-0026	DEVELOPMENT OF A MUSCLE MODEL PARAMETER CALIBRATION METHOD VIA PASSIVE MUSCLE FORCE MINIMIZATION	Allison Kinney	University of Dayton	United States
11:00 - 12:00		Special Session - Knee Chairs: Jos Vanrenterghem & Mark Robinson Location: Dochart 1			
11:00 - 11:30		PATIENT-SPECIFIC NEUROMUSCULOSKELETAL MODELS TO GET INSIDE THE KNEE: WHY, WHERE WE ARE, AND WHERE TO?	David Lloyd	Griffiths University	Australia
11:30 - 11:40	SS-0073	INTRA-OPERATIVE 3D LASER SCANNING OF TIBIO-FEMORAL JOINTS FOR COMPUTER ASSISTED ORTHOPAEDIC SURGERIES	Shailesh of Joshi	University of Strathclyde	United Kingdom
11:40 - 11:50	SS-0028	EFFECTS OF HIGH TIBIAL OSTEOTOMY ON TRUNK, HIP, KNEE AND ANKLE BIOMECHANICS DURING GAIT	Cathy Holt	Cardiff University	United Kingdom
11:50 - 12:00	SS-0029	OSTEOARTHRITIS KNEE BRACE ABDUCTION MOMENT DOMINATES INVERSE DYNAMICS AND MUSCLE FORCE CHANGES IN REDUCING MEDIAL KNEE LOADS	Scott Brandon	Queen's University	Canada

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00		Special Session - Chinese Biomechanics Chairs: Yubo Fan Location: Dochart 2			
11:00 - 11:10	SS-0030	THE INFLUENCE OF DRILL-GUIDE ANGLE ON STRESS REDISTRIBUTION AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION	Jie Yao	School of Biological Science and Medical Engineering, Beihang University	China
11:10 - 11:20	SS-0031	CARDIOVASCULAR SYSTEM RESPONSES TO ACCELERATIONS: A MODEL AND ITS VALIDATION	Yawei Wang	Beihang University	China
11:20 - 11:30	SS-0032	MULTI-JOINT CONTROL STRATEGY OF THE LOWER LIMB DURING RUNNING	Yu Liu	Shanghai University of Sport	China
11:30 - 11:40	SS-0033	ROBOTIC-ASSISTED PROSTATE TUMOR LOCALIZATION USING NEEDLE ROTATION FORCE	Xiaoyu Liu	Key Laboratory for Biomechanics and Mechanobiology of Ministry of Education, Beihang University, Beijing, PR China.	China
11:40 - 11:50	SS-0034	LOCOMOTION DYNAMICS OF GECKO: PATTERNS OF REACTION FORCES ON INCLINES?	Zhendong Dai	Nanjing University of Aeronautics and Astronautics	China
11:50 - 12:00	SS-0035	AGE-RELATED CHANGES IN CENTER OF MASS TRAJECTORIES AND ACCELERATION DURING OBSTACLE CROSSING	Le Li	First Affiliated Hospital, Sun Yat-sen University	China
12:00 - 13:30		Lunch Break Location: Hall 5			
13:30 - 14:20		Keynote Lecture - Measurement Technology Location: Clyde Auditorium			
		Measurement Technology	Laurence Cheze	Université de Lyon	France
			Claudia Mazza	University of Sheffield	United Kingdom
14:20 - 14:30		Transition 10 minutes			

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:30 - 15:30		Abstract Session - Motion Analysis 2 Chairs: Caroline Stewart & Renate List Location: Clyde Auditorium			
14:30 - 14:40	AS-0049	SOFT TISSUE ARTIFACT DESCRIPTION USING TRIANGULAR COSSERAT POINT ELEMENTS	Dana Solav	Technion	Israel
14:40 - 14:50	AS-0050	HUMAN PERFORMANCE IN SIMULATED REDUCED GRAVITY ENVIRONMENTS	Matt Cowley	NASA / Lockheed Martin	United States
14:50 - 15:00	AS-0051	PREGNANCY-RELATED CHANGES IN CENTRE OF PRESSURE DURING GAIT	Jeanne Bertuit	Université Libre de Bruxelles	Belgium
16:00 - 15:10	AS-0052	QUANTIFYING VARUS AND VALGUS THRUST IN INDIVIDUALS WITH SEVERE KNEE OSTEOARTHRITIS	Lauren Sosdian	The University of Melbourne	Australia
15:10 - 15:20	AS-0053	KINEMATIC AND MUSCULAR CHANGES IN THE GAIT PATTERN DURING CROSS-SLOPE WALKING WITH MINIMAL SHOES AND BAREFOOT	Lea Nösberger	University of Basel	Switzerland
15:20 - 15:30	AS-0054	THE INFLUENCE OF WALKING ON A SLOPED INCLINE AND DECLINE SURFACE ON LUMBAR-PELVIC COORDINATION: A DYNAMICAL SYSTEMS APPROACH	Robert Needham	Staffordshire University	United Kingdom
14:30 - 15:30		Abstract Session - Rehabilitation - Assistive Technology Chairs: Ton van den Bogert & Sandra Hnat Location: Gala			
14:30 - 14:40	AS-0055	ASSESSMENT OF LIMPING DURING GAIT BY ACCELEROMETERS	Ligia Cristiane Santos Fonseca	Institute of Applied Medical Engineering	Germany
14:40 - 14:50	AS-0056	MUSCLE AND JOINT CONTACT LOADING DURING ASSISTED UPPER-EXTREMITY MOVEMENTS PERFORMED WITH A ROBOTIC EXOSKELETON	David Ackland	University of Melbourne	Australia
14:50 - 15:00	AS-0057	ANALYSIS AND SIMULATION OF VARIOUS STEWART PLATFORM CONFIGURATIONS FOR LOWER LIMB REHABILITATION	Alireza Rastegarpanah	Doctoral researcher - University of Birmingham	United Kingdom
16:00 - 15:10	AS-0058	REHABILITATION ROBOT PATH PLANNING AND TRACKING USING KINECT	Alireza Rastegarpanah	Doctoral researcher - University of Birmingham	United Kingdom
15:10 - 15:20	AS-0059	EVALUATION OF INDIVIDUAL MOVEMENT PERFORMANCE BASED ON MOVEMENT ANALYSIS USING INERTIAL SENSORS	Catheriene Disselhorst-Klug	Applied Medical Engineering, RWTH Aachen University	Germany
15:20 - 15:30	AS-0060	FALL RISK MONITORING: FROM LABORATORY TO PORTABLE DEVICE, INFLUENCE OF SAMPLING FREQUENCY.	Paola Tamburini	Alma Mater Studiorum- Università di Bologna	Italy

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:30 - 15:30		Abstract Session - Sport 2 Chairs: Johnathan Folland & Sam Allen Location: Forth			
14:30 - 14:40	AS-0061	BIOMECHANICS ANALYSIS OF BASEBALL PITCHING: COMPARISON AMONG STANDARD, WEIGHTER AND LIGHTER BALLS	Silvia Fantozzi	University of Bologna	Italy
14:40 - 14:50	AS-0062	ELITE ATHLETES EXHIBIT INCREASED VERTICAL FORCE DURING RUNNING AT DIFFERENT SPEEDS	Stephen John Preece	University of Salford	United Kingdom
14:50 - 15:00	AS-0064	COMPARISON OF SUBJECT-SPECIFIC TORQUE PROFILES OF ATHLETES BASED ON ISOKINETIC DYNAMOMETER DATA	Frederik Heinen	Aalborg University	Denmark
15:00 - 15:10	AS-0065	CAN COMPRESSION AID IN MAINTAINING JUMP PERFORMANCE OVER A FATIGUING PROTOCOL?	John William Wannop	University of Calgary	Canada
15:10 - 15:20	AS-0066	THE EFFECT OF DIFFERENT SHOE OUTSOLE STRUCTURES ON PLANTAR LOADING DISTRIBUTION AND COMFORT DURING RUNNING	Luming Yang	Sichuan University	China
14:30 - 15:30		Abstract Session - Lower Body: Lower Limb 1 Chairs: Andrew Phillips & Diogo Geraldès Location: Seminar Suite			
14:30 - 14:40	AS-0067	CAN PATELLOFEMORAL JOINT (PFJ) ALIGNMENT BE ASSESSED CLINICALLY USING A CUSTOM MADE CALLIPER?	Kevin Daniel Campbell-Karn	London Metropolitan University	United Kingdom
14:40 - 14:50	AS-0068	FEASIBILITY AND RELIABILITY OF THREE-DIMENSIONAL ULTRASOUND FOR MEASURING HUMAN TIBIALIS ANTERIOR MUSCLE DEFORMATION DURING ISOMETRIC CONTRACTIONS	Brent Raiteri	The University of Queensland	Australia
14:50 - 15:00	AS-0069	INFLUENCE OF STRIKE PATTERN ON BIOMECHANICS ASSOCIATED WITH TIBIAL STRESS FRACTURE IN FEMALE RUNNERS	Clare E Milner	Drexel University	United States
16:00 - 15:10	AS-0070	DIFERENCES IN GLOBAL GAIT ASYMMETRY BETWEEN KNEE OSTEOARTHRITIS PATIENTS AND HEALTHY ADULTS	Silvia Cabral	Faculdade de Motricidade Humana	Brazil
15:10 - 15:20	AS-0071	STATIC ANKLE RANGE OF MOTION IS ASSOCIATED WITH DYNAMIC ANKLE MOTION DURING A SURF-LIKE SIMULATED AERIAL TASK	James Robert Forsyth	University of Wollongong	Australia
15:20 - 15:30	AS-0072	IMPACT OF RELIABILITY ON REPEAT KNEE EXTENSOR STRENGTH TESTING	Jamie E Hibbert	East Carolina University	United States

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:30 - 15:30		Abstract Session - Modelling & Computer Simulation 2 Chairs: Mark King & Sam Allen Location: Carron 1			
14:30 - 14:40	AS-0073	THE EFFECT OF PROPHYLACTIC KNEE BRACING ON LOWER-LIMB MUSCLE FORCES DURING DOUBLE-LEG DROP LANDING	Peter Vee Sin Lee	University of Melbourne	Australia
14:40 - 14:50	AS-0504	COULD FOOT KINEMATICS BE USED TO PREDICT THE DISTRIBUTION OF VERTICAL FORCE IN MULTI-SEGMENT FOOT MODELS?	Iain Hannah	University of Sheffield	United Kingdom
14:50 - 15:00	AS-0075	TESTING MODEL-BASED CONCLUSIONS ON THE OPTIMAL CONTROL OF HUMAN MOVEMENT USING FORMAL STATISTICAL ANALYSES	Ross H Miller	University of Maryland	United States
16:00 - 15:10	AS-0076	NON-NEUROPATHIC DIABETIC INDIVIDUALS SHOW REDUCED ESTIMATED MUSCLE FORCES AT THE GAIT PUSH-OFF PHASE	Aline Arcanjo Gomes	University of Sao Paulo	Brazil
15:10 - 15:20	AS-0077	MUSCLE CO-CONTRACTIONS – A NEUROLOGICAL PROBLEM?	Sebastian Krapf	Childrens University Hospital Basel, University of Basel	Switzerland
15:20 - 15:30	AS-0078	IS KINETIC ASYMMETRY IN BELOW-KNEE AMPUTEE GAIT INEVITABLE? -- A PREDICTIVE SIMULATION STUDY	Anne Koelewijn	Cleveland State University	United States
14:30 - 15:30		Abstract Session - Musculoskeletal 2 Chairs: Mario Lamontagne & Wilfried Alt Location: Carron 2			
14:30 - 14:40	AS-0079	DOES ACHILLES TENDON CONTRIBUTE TO THE FORCE POTENTIATION INDUCED BY STRETCH-SHORTENING CYCLE?	Atsuki Fukutani	University of Calgary	Canada
14:40 - 14:50	AS-0080	A BETTER UNDERSTANDING OF CEREBRAL PALSY PATHOLOGY USING 3D SUBJECT-SPECIFIC MUSCULOSKELETAL MODELING	Ayman Assi	School of Medicine, University of Saint-Joseph	Lebanon
14:50 - 15:00	AS-0081	WALKING VS. NORDIC WALKING EXERCISE: DIFFERENCES IN TRUNK MUSCLE ACTIVITY AND IMPACT ACCELERATION	Luca Zoffoli	University of Hull	United Kingdom
16:00 - 15:10	AS-0082	LOWER AGONIST ACTIVATION MAY EXPLAIN WHY LENGTHENING THE RECTUS FEMORIS MUSCLE DOES NOT INCREASE KNEE EXTENSION TORQUE	Theodoros Bampouras	University of Cumbria	United Kingdom
15:10 - 15:20	AS-0083	LONG-TERM BIOMECHANICAL ADAPTATION IN A BIOLOGICALLY-RECONSTRUCTED FEMUR AFTER EWING SARCOMA	Giordano Valente	Rizzoli Orthopaedic Institute	Italy
15:20 - 15:30	AS-0084	A SIMPLE, MRI-BASED METHOD FOR MEASURING 3D MOMENT ARMS OF HUMAN MUSCLES UNDER DYNAMIC CONDITIONS	Elizabeth Clarke	University of Sydney	Australia

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:30 - 15:30		Abstract Session - Motor Control 2 Chairs: Paola Contessa & Marco Knaflitz Location: Dochart 1			
14:30 - 14:40	AS-0086	CONTROL OF MUSCULOSKELETAL ARM MODEL USING MUSCLE SYNERGY	Reza Sharif Razavian	University of Waterloo	Canada
14:40 - 14:50	AS-0087	DEDUCING MUSCLE SYNERGIES FROM EXPERIMENTAL JOINT MOMENTS	Anantharaman Gopalakrishnan	Imperial College London	United Kingdom
14:50 - 15:00	AS-0088	DECLINE OF CONDUCTION TIME MAY LEAD TO CENTRAL NERVOUS SYSTEM ADAPTIONS THAT ARE IMPORTANT FOR POSTURAL CONTROL AND GAIT	Li Li	Shanghai University of Sport	China
16:00 - 15:10	AS-0089	THE EFFECT OF SLOPE ON THE ACTIVITY AND VARIABILITY OF SEVEN PROXIMAL LOWER LIMB MUSCLES DURING WALKING	Annette Pantall	Michigan State University	United States
15:10 - 15:20	AS-0090	GAIT CHARACTERISTICS OF OBSTACLE CROSSING IN OLDER ADULT FALLERS WITH AND WITHOUT PARKINSON'S DISEASE: INFLUENCE OF OBSTACLE TYPE AND DUAL TASK	Lisa Alcock	Newcastle University Institute for Ageing	United Kingdom
14:30 - 15:30		Abstract Session - Upper Body - Upper Limb 1 Chairs: Bart Bolsterlee & Gretchen Oliver Location: Dochart 2			
14:30 - 14:40	AS-0092	EFFECT OF WRIST POSTURE AND RATE OF FORCE DEVELOPMENT ON FINGER INDEPENDENCE	Peter Keir	McMaster University	Canada
14:40 - 14:50	AS-0093	EFFECT OF FATIGUE ON HIGH SCHOOL UNDERHAND FEMALE PITCHERS	Andrew Kraszewski	Hospital for Special Surgery	United States
14:50 - 15:00	AS-0094	INTEGRATED ANATOMICAL DATABASE FOR THE CREATION OF A COMPLETE MUSCULOSKELETAL MODEL OF THE HUMAN HAND	Faes Kerkhof	Leuven University	Belgium
16:00 - 15:10	AS-0095	USE OF SCAPULOHUMERAL RHYTHM, SYMMETRY AND KINEMATICS TO IDENTIFY ABNORMAL MOVEMENTS OF THE SHOULDER	Aliah F Shaheen	University of Surrey	United Kingdom
15:10 - 15:20	AS-0096	INTRAMUSCULAR EMG AND KINEMATIC ANALYSIS OF HAND POSTURES THAT CORRESPOND WITH GRASPING AND POINTING TASKS	Marije De Bruin	Rehabilitation Institute of Chicago	United States
15:30 - 16:40		Coffee Break & Poster Session Location: Hall 5			

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:40 - 17:40		Abstract Session - Sport 3 Chairs: Alison McGregor & Enrica Papi Location: Clyde Auditorium			
16:40 - 16:50	AS-0097	ANALYSIS OF MUSCLE ACTIVITIES OF THE BOWLING ARM IN CRICKET DURING DELIVERY PHASE	Weijie Wang	University of Dundee	United Kingdom
16:50 - 17:00	AS-0098	THE TIME-COURSE CHANGE OF PITCHING BIOMECHANICS IN A SIMULATED BASEBALL NINE INNINGS	Ryosuke Akaguma	Ritsumeikan University	Japan
17:00 - 17:10	AS-0099	THE MECHANICAL POWER OUTPUT – VELOCITY CURVES FOR VELOTRON ERGOMETER CYCLING AND TRACK CYCLING, AND THE RELEVANCE FOR CYCLING PERFORMANCE AND PACING RESEARCH.	Florentina Johanna Hettinga	University of Essex	United Kingdom
17:10 - 17:20	AS-0100	MOVEMENT SCREENS: MEASURING MOVEMENT DYSFUNCTION OR MOVEMENT SKILL?	Anthony Vidal	California State University, Long Beach	United States
17:20 - 17:30	AS-0101	RELATIONSHIP BETWEEN PELVIS-TORSO COORDINATION AND STRIDE CHARACTERISTIC VARIABILITY	Renae Jackson	California State University, Long Beach	United States
17:30 - 17:40	AS-0102	THE RELATIONSHIP OF SEPARATION FACTORS ON THROW DISTANCE OF FEMALE HAMMER THROWERS	Suzanne Konz	Marshall University	United States
16:40 - 17:40		Abstract Session - Musculoskeletal 3 Chairs: Bart Koopman & Frank Halfwerk Location: Gala			
16:40 - 16:50	AS-0103	A COMPARISON OF OVERGROUND AND TREADMILL GROUND REACTION FORCES DURING LOAD CARRIAGE	Angela Boynton	US Army Research Laboratory	United States
16:50 - 17:00	AS-0104	EFFECT OF SUBJECT-SPECIFIC MUSCULOSKELETAL GEOMETRY ON MODEL PREDICTIONS	Bart Koopman	University of Twente	Netherlands
17:00 - 17:10	AS-0105	FRONTAL PLANE ACHILLES TENDON MOMENT ARM CHANGES WITH FRONTAL PLANE MOVEMENT OF THE FOOT	Susann Wolfram	Manchester Metropolitan University	United Kingdom
17:10 - 17:20	AS-0106	TRANSVERSE EXPANSION OF MUSCLE FIBRES DURING CONTRACTION	James Wakeling	Simon Fraser University	Canada
17:20 - 17:30	AS-0107	COMPLETE OPENSIM SUBJECT-SPECIFIC LOWER LIMB JOINT-SKELETAL MRI-BASED MODEL	Simao Brito Da Luz	Griffith University	Australia
17:30 - 17:40	AS-0108	PASSIVE AND ACTIVE SOLEUS MUSCLE FORCES IN CHRONIC HEART FAILURE	Fausto Antonio Panizzolo	University of Western Australia	Australia

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:40 - 17:40		Abstract Session - Motion Analysis 3 Chairs: Aurelio Cappozzo & Valentina Camomilla Location: Forth			
16:40 - 16:50	AS-0109	HIP POWER ANALYSIS IN INDIVIDUALS WITH TRANSFEMORAL AMPUTATION: A DIFFERENT STRATEGY FROM STABILISATION DURING GAIT STANCE	Raphael Dumas	Université de Lyon	France
16:50 - 17:00	AS-0110	IS THE RESULTANT MOMENT A MORE SENSITIVE METRIC OF STRUCTURAL OSTEOARTHRITIS PROGRESSION THAN INDIVIDUAL MOMENTS?	Kerry E Costello	Dalhousie University	Canada
17:00 - 17:10	AS-0111	A COMPARISON OF HUMAN WALKING USING A CONVENTIONAL GAIT LABORATORY AND THE MOTEK MEDICALA COMPUTER ASSISTED REHABILITATION ENVIRONMENT WITH VARYING LEVELS OF "IMMERSIVNESS"	Andre Attard	University of Strathclyde	United Kingdom
17:10 - 17:20	AS-0112	HIP JOINT CENTRE MODELS IN FAI POPULATION	Giulia Mantovani	University of Ottawa	Canada
17:20 - 17:30	AS-0113	A COMPARISON BETWEEN FOUR FOOT MODEL PROTOCOLS: THE EFFECT OF WALKING ON A TREADMILL	Roberto Di Marco	'Sapienza' University of Rome	Italy
17:30 - 17:40	AS-0114	ESTIMATION OF FORCE, STIFFNESS AND ELASTIC ENERGY BASED ON KINEMATIC DATA WHILE RUNNING	Didier Staudenmann	Movement and Sport Science	Switzerland
16:40 - 17:40		Abstract Session - Motor Control 3 Chairs: Joshua C. Kline & Madeleine Lowery Location: Seminar Suite			
16:40 - 16:50	AS-0115	CORTICAL MODULATION OF ABERRANT LOWER LIMB MUSCLE SYNERGIES FOLLOWING STROKE	Andrew Quesada Tan	Northwestern University	United States Minor Outlying Islands
16:50 - 17:00	AS-0116	DYNAMIC MOTOR CONTROL DURING WALKING PREDICTS TREATMENT OUTCOMES IN CEREBRAL PALSY	Michael Schwartz	University of Washington	United States
17:00 - 17:10	AS-0117	MODELING OF DYNAMIC RESPONSE OF CALF MUSCLES TO FUNCTIONAL ELECTRICAL STIMULATION	Hossein Rouhani	University of Toronto	Canada
17:10 - 17:20	AS-0118	BRAIN ACTIVATION DURING RHYTHMIC LOCOMOTOR TASKS IS COORDINATED WITH THE MECHANICAL DEMANDS OF THE MOVEMENT CYCLE	Hendrik Enders	University of Calgary	Canada
17:20 - 17:30	AS-0119	USING SURFACE ELECTROMYOGRAPHY (SEMG) TO NON-INVASIVELY MONITORING THE ACTIVATION OF DEEP AND SUPERFICIAL EXTRINSIC FOOT MUSCLES	Cara Swanepoel	University of Cape Town	South Africa
17:30 - 17:40	AS-0120	DIAGNOSIS OF PATELLOFEMORAL PAIN SYNDROME IS POSSIBLE USING SURFACE ELECTROMYOGRAPHY	Deisi Ferrari	University of São Paulo	Brazil

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:40 - 17:40		Abstract Session - Rehabilitation 1 Chairs: Caroline Stewart & Annegret Mündermann Location: Carron 1			
16:40 - 16:50	AS-0121	DOES THE ABDOMINAL DRAWING- IN MANEUVER CHANGE THE LOCAL DYNAMIC STABILITY OF REPETITIVE SPINE MOVEMENTS IN A HEALTHY POPULATION?	Daniel Southwell	Nipissing University	Canada
16:50 - 17:00	AS-0122	GAIT IMPROVEMENT INDUCED BY REAL- TIME FEEDBACK BASED ON DYNAMIC FOOT PRESSURE INDEX FOR DYNAMIC EQUINUS IN CHILDREN WITH CEREBRAL PALSY	Weiyan Ren	Beihang University	China
17:00 - 17:10	AS-0123	FORCE MANTAINANCE OF THE PELVIC FLOOR MUSCLES ARE INFLUENCED BY THE COMBINED ACTION OF HIP ABDUCTOR MUSCLES IN HEALTHY WOMEN	Amanda Cruz Amorim	University of Sao Paulo	Brazil
17:10 - 17:20	AS-0124	EFFECTS OF HIP EXTENSOR MUSCLES STRENGTHENING ASSOCIATED WITH LANDING STRATEGY MODIFICATION IN AN ATHLETE WITH PATELLAR TENDINOPATHY: A CASE REPORT	Rodrigo Scattone Silva	Federal University of São Carlos (UFSCar)	Brazil
17:20 - 17:30	AS-0125	DEVELOPMENT OF A BESPOKE MOTION CAPTURE SYSTEM ALLOWING REAL- TIME BIOFEEDBACK OF MOVEMENT FOR USE IN THE CLINICAL ENVIRONMENT.	Lindsay Clarke	University of Strathclyde	United Kingdom
17:30 - 17:40	AS-0126	DETECTING CONTROL PRIORITIES WHEN REGULATING ANGULAR IMPULSE GENERATION IN WELL-PRACTICED GOAL-DIRECTED TASKS	Travis Peterson	University of Southern California	United States
16:40 - 17:40		Abstract Session - Tissue: Soft Tissue Chairs: Sebastien Laporte & Anthony Roux Location: Carron 2			
16:40 - 16:50	AS-0127	ADAPTATION OF CHONDROCYTES TO MECHANICAL COMPRESSION: ARE MEMBRANE RUFFLES UNFOLDED FOR CELL PROTECTION?	Eng Kuan Moo	University of Calgary	Canada
16:50 - 17:00	AS-0128	TRANSMISSION OF A MECHANICAL WAVE THROUGH THE LOWER LIMB DURING A DROP LANDING	Laura-Anne M Furlong	Loughborough University	United Kingdom
17:00 - 17:10	AS-0129	REPRODUCIBILITY OF A NOVEL IN-SHOE ULTRASOUND METHOD FOR ASSESSING SOFT TISSUE BEHAVIOUR OF THE FOREFOOT DURING WALKING	Beverley O'Neill	Glasgow Caledonian University	United Kingdom
17:10 - 17:20	AS-0130	INFLUENCE OF CAPSULAR PPLICATION ON TRANSLATION IN A SIMULATED MDI SHOULDER	Andrew Kraszewski	Hospital for Special Surgery	United States
17:20 - 17:30	AS-0131	CORNEA BIO-INSPIRED CONSTRUCTS BASED ON ORIENTED LONG COLLAGEN FIBERS BIO-COMPOSITES	Mirit Sharabi	Tel Aviv University	Israel
17:30 - 17:40	AS-0132	MINIMUM INDENTATION DEPTH FOR CHARACTERIZATION OF 2ND SUB- METATARSAL HEAD AND HEEL PAD TISSUE PROPERTIES	Jee Chin Teoh	Dongguk University	Korea, Republic Of

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16:40 - 17:40 Abstract Session - Modelling & Computer Simulation 3 Chairs: Donal McNally & Cheeseng Aw Location: Dochart 1					
16:40 - 16:50	AS-0133	SINERGY-BASED TWO-LEVEL OPTIMIZATION FOR PREDICTING KNEE CONTACT FORCES DURING WALKING	Gil Serrancolí	Universitat Politècnica de Catalunya	Spain
16:50 - 17:00	AS-0134	FORWARD-DYNAMICS TRACKING WITH REACTION FORCE TARGETS	Benedikt Sagl	University of Saskatchewan	Canada
17:00 - 17:10	AS-0135	COMPARISON OF GEOMETRIC APPROXIMATION AND ANATOMICALLY SEGMENTED MODELS OF THE AORTA USING FINITE ELEMENT METHOD	Francisco Carrasco-Hernandez	University of Nottingham	United Kingdom
17:10 - 17:20	AS-0136	A COMPUTATIONAL STUDY OF STENT DEPLOYMENT INSIDE A DISEASED ARTERY WITH VARIABLE DEGREES OF STENOSIS, ASYMMETRY AND CURVATURE	Alessandro Schiavone	Loughborough University	United Kingdom
17:20 - 17:30	AS-0137	FREWARE IS A VIABLE ALTERNATIVE TO COMMERCIAL SOFTWARE WHEN CREATING SUBJECT-SPECIFIC FE MODEL GEOMETRY	Jennifer L Boyd	University of Oxford	United Kingdom
17:30 - 17:40	AS-0500	THE EFFECT OF VARIATIONS IN THE MORPHOLOGY OF THE HIP ON FEMORAL/ACETABULAR INTERFERENCE PATTERN DURING MOTION	Ramya Namani	Drexel University	United States
17:40 - 17:50	AS-0501	MODELING MULTIJOINT CONTROL FOR REGULATION OF REACTION FORCES DURING IMPACT PHASE OF LANDINGS	Edward Wagner	University of Southern California	United States
16:40 - 17:40 Abstract Session - Lower Body: Feet & Footwear 1 Chairs: Joseph Hamill & Toni Arndt Location: Dochart 2					
16:40 - 16:50	AS-0139	THE RELATION BETWEEN CLINICAL DIAGNOSED MECHANICALLY INDUCED METATARSALGIA, INCREASED PLANTAR PRESSURE, AND REACTION FORCES AT THE FOREFOOT.	Katrin Schweizer	University Children's Hospital	Switzerland
16:50 - 17:00	AS-0140	DO STATIC FOOT MEASURES PREDICT MEDIAL LONGITUDINAL ARCH MOTION DURING RUNNING?	Ben Langley	University of East London	United Kingdom
17:00 - 17:10	AS-0141	INTRA-ARTICULAR PRESSURE DISTRIBUTION IN THE NATIVE AND PROSTHETIC ANKLE JOINT	Ilse Jonkers	KU Leuven	Belgium
17:10 - 17:20	AS-0142	CHANGES IN FOOT TEMPERATURE AS A FUNCTION OF WALKING SPEED	Prabhav Nadipi Reddy	Manchester Metropolitan University	United Kingdom
17:20 - 17:30	AS-0143	TEST AND RE-TEST RELIABILITY OF ANKLE AND KNEE KINEMATIC VARIABLES DURING RUNNING	Andrea Naomi Onodera	University of São Paulo	Brazil
17:30 - 17:40	AS-0144	USING FINITE ELEMENT ANALYSIS TO IMPROVE THE DESIGN OF SOCCER SHOES OUTSOLES	Michel Behr	IFSTTAR/ Aix-Marseille Université	France

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
17:40 - 18:00		Transition 20 minutes			
18:00 - 19:00		Vicon User Group Meeting			

Scientific Programme

Tuesday 14th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
07:00 - 18:00		Registration Opens Location: Hall 5			
08:20 - 09:20		Abstract Session - Motion Analysis 4 Chairs: Bart Koopman & Geoffrey KC. Ng Location: Clyde Auditorium			
08:20 - 08:30	AS-0145	CROSS CUT BIOMECHANICS ARE AFFECTED TO A GREATER EXTENT WHEN PERFORMED IN AN UNANTICIPATED CONDITION COMPARED TO A FATIGUED CONDITION	Chris Richter	DCU	Ireland
08:30 - 08:40	AS-0146	BIPEDAL LOCOMOTION OF THE JAPANESE MACAQUE: INTERACTIONS BETWEEN TRUNK, LEGS AND SELF-STABILITY	Yefta Sutedja	Friedrich-Schiller-University Jena	Germany
08:40 - 08:50	AS-0147	WHEN ESTIMATING BONE POSE USING PROCRUSTES SUPERIMPOSITION, ONLY THE RIGID COMPONENT OF THE SOFT TISSUE ARTIFACT IMPACTS ON END RESULTS	Tecla Bonci	Università degli Studi di Roma "Foro Italico"	Italy
08:50 - 09:00	AS-0148	ACETABULAR STRESS IN PERSONS WITH AND WITHOUT CAM FEMOROACETABULAR IMPINGEMENT: THE INFLUENCE OF HIP KINEMATICS AND BONY MORPHOLOGY DURING A MAXIMUM DEPTH SQUAT	Jennifer Bagwell	University of Southern California	United States
09:00 - 09:10	AS-0149	A RELIABLE PROTOCOL FOR THE ASSESSMENT OF STEP COUNT ACCURACY OF PHYSICAL ACTIVITY MONITORS IN MULTIPLE SCLEROSIS	Fabio Alexander Storm	The University of Sheffield	United Kingdom
09:10 - 09:20	AS-0150	BALLET DANCERS OF DIFFERENT BACKGROUNDS PERFORM SAUTÉ JUMPS WITH DIFFERENT HIP ROTATION	Debora Cantergi	UFRGS	Brazil
08:20 - 09:20		Abstract Session - Lower Body: Lower Limb Chairs: Claudio Belvedere & John Challis Location: Gala			
08:20 - 08:30	AS-0151	LOWER LIMB MUSCLE FASCICLE FUNCTION DURING GAIT IN CHILDREN WITH CEREBRAL PALSY	Lee Barber	The University of Queensland	Australia
08:30 - 08:40	AS-0152	PARTIAL DIRECTED COHERENCE APPLIED IN LOWER LIMB KINEMATIC DATA DURING RUNNING	Theresa Helissa Nakagawa	Federal University of São Carlos	Brazil
08:40 - 08:50	AS-0153	ACHILLES TENDON SHEAR WAVE SPEEDS SHOW NON-UNIFORM AGING EFFECTS	Laura Chernak Slane	University of Wisconsin-Madison	United States
08:50 - 09:00	AS-0154	IMPACT OF COMPETITION ON STRIDE RATE IN DISTANCE RUNNING	Michelle Norris	University of Limerick	Ireland
09:00 - 09:10	AS-0155	LEG LENGTH DISCREPANCY AFFECTS THE SAGITTAL PLANE BIOMECHANICS OF THE LOWER LIMBS DURING THE STANCE PHASE OF WALKING	Renan Alves Resende	Universidade Federal dos Vales do Jequitinhonha e Mucuri	Brazil
09:10 - 09:20	AS-0156	THE MECHANICAL FUNCTION OF THE TIBIALIS POSTERIOR MUSCLE AND ITS TENDON DURING WALKING	Jayishni Maharaj	The University of Queensland	Australia

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:20		Abstract Session - Sport 4 Chairs: Valentina Camomilla & Silvia Fantozzi Location: Forth			
08:20 - 08:30	AS-0157	THE EFFECT OF A RIGID ANKLE BRACE ON JOINT KINETICS DURING MAXIMAL CYCLING	Paul Richard Barratt	English Institute of Sport	United Kingdom
08:30 - 08:40	AS-0158	BIOMECHANICAL ANALYSIS OF THE UPPER BODY IN THE PEN-HOLD GRIP AND THE HAND-SHAKE GRIP IN TABLE TENNIS	Weijie Wang	University of Dundee	United Kingdom
08:40 - 08:50	AS-0159	SPRINT ACCELERATION MECHANICS: THE ROLE OF HAMSTRING MUSCLES IN HORIZONTAL GROUND REACTION FORCE PRODUCTION	Jean-Benoit Morin	University of Nice Sophia Antipolis	France
08:50 - 09:00	AS-0160	UNEXPECTED CHANGES IN FRICTION ON CLAY COURT SURFACES ARE ASSOCIATED WITH ANKLE INVERSION INJURY RISKS IN TENNIS PLAYERS	Chelsea Starbuck	University of St Mark and St John	United Kingdom
09:00 - 09:10	AS-0161	SPATIOTEMPORAL VARIABLES OF ABLE-BODIED AND AMPUTEE SPRINTERS IN MEN'S 200-M SPRINT	Hiroaki Hobara	National Institute of Advanced Industrial Science and Technology	Japan
09:10 - 09:20	AS-0162	FATIGUE LEADS TO MORE CHANGES IN TRUNK AND HIP KINEMATICS IN NOVICE VERSUS COMPETITIVE RUNNERS	Ellen Maas	KU Leuven	Belgium
08:20 - 09:20		Abstract Session - Musculoskeletal 4 Chairs: Alison McGregor & Angela Kedgley Location: Seminar Suite			
08:20 - 08:30	AS-0163	ACCURACY OF ULTRASOUND MEASUREMENTS OF HUMAN MEDIAL GASTROCNEMIUS MUSCLE ARCHITECTURE	Bart Bolsterlee	Neuroscience Research Australia	Australia
08:30 - 08:40	AS-0164	ACTIVE MUSCLE FORCE IS INFLUENCED BY MUSCLE COMPRESSION	Tobias Siebert	University of Stuttgart	Germany
08:40 - 08:50	AS-0165	ESTIMATION OF ELASTIC AND DYNAMIC PROPERTIES OF A FINGER ATTRIBUTED TO MUSCLE-TENDON COMPLEX BY MEASURING JOINT ANGLES	Satoshi Makita	Sasebo College, National Institute of Technology	Japan
08:50 - 09:00	AS-0166	A PATIENT-SPECIFIC MUSCULOSKELETAL MODELLING PIPELINE APPLIED TO PHALANGEAL LOADING CONDITIONS IN GAIT.	Iain Hannah	The University of Sheffield	United Kingdom
09:00 - 09:10	AS-0167	MUSCULAR ARCHITECTURE DIFFERENCES BETWEEN MALE AND FEMALE AMATEUR SOCCER PLAYERS	Maher Asad Hamzeh	University of Roehampton	United Kingdom
09:10 - 09:20	AS-0168	CHANGES IN PEAK VERTICAL FORCE AND LOADING RATES AT THE BEGINNING AND END OF LOADED WALKING	Jennifer Neugebauer	U.S. Army Research Laboratory	United States

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:20		Abstract Session - Motor Control 4 Chairs: Bahman Nasseroleami & Bente Rona Jensen Location: Carron 1			
08:20 - 08:30	AS-0169	FLEXIBLE FOOT LONGITUDINAL ARCHES ARE LOWERED MORE IN PASSIVE LOADING AND LIFTED MORE DURING SINGLE-LEG STANCE COMPARED TO RIGID ARCHES ALTHOUGH MUSCLE ACTIVATIONS ARE SIMILAR	K. Michael Rowley	University of Southern California	United States
08:30 - 08:40	AS-0170	THE AMPLITUDE OF H-REFLEX AS AN OUTCOME FOR TO INVESTIGATE MUSCLE INHIBITION IN PEOPLE WITH PATELLOFEMORAL PAIN SYNDROME	Nathalie Clara Souto Faria	Universidade Estadual Paulista	Brazil
08:40 - 08:50	AS-0171	IMPROVING EMG DATA CLASSIFICATION ACCURACY BY SUPPORT VECTOR MACHINE SPACES	Stefan Hoerzer	University of Calgary	Canada
08:50 - 09:00	AS-0172	SHAPE AND MAGNITUDE OF LOWER EXTREMITY KINETICS CHANGED STEPS BEFORE GAIT TRANSITION DURING INCREASING SPEED INDUCED WALK-TO-RUN TRANSITION	Li Li	Shanghai University of Sport	China
09:00 - 09:10	AS-0173	A COMPARATIVE STUDY OF THE MUSCLE SYNERGY PATTERNS IN HEALTHY AND ACL-DEFICIENT SUBJECTS	Gil Serrancolí	Universitat Politècnica de Catalunya	Spain
09:10 - 09:20	AS-0174	DOES A HIGH FREQUENT ROTATION IN INDUSTRIAL TASKS POSITIVELY AFFECTS MUSCLE FATIGUE AND PERCEIVED DISCOMFORT?	Tessy Luger	Faculty of Human Movement Sciences - VU University Amsterdam	Netherlands
08:20 - 09:20		Abstract Session - Modelling & Computer Simulation 4 Chairs: Ton van den Bogert & Anne Koelewijn Location: Carron 2			
08:20 - 08:30	AS-0175	MODELING AND COMPUTATIONAL COMPARISON OF FOOT ORTHOSES FOR PLANTAR PRESSURE RELIEF	Óscar Libardo Rodríguez-Montaño	Universidad Nacional de Colombia	Colombia
08:30 - 08:40	AS-0176	STRETCHING YOUR ENERGETIC BUDGET: THE EFFECT OF TENDON COMPLIANCE ON THE METABOLIC COST OF RUNNING	Thomas Uchida	Stanford University	United States
08:40 - 08:50	AS-0505	CEINMS: AN OPENSIM TOOLBOX TO INVESTIGATE THE INFLUENCE OF DIFFERENT NEURAL SOLUTIONS IN PREDICTING MUSCLE EXCITATIONS AND JOINT MOMENTS DURING DYNAMIC MOTOR TASKS	Claudio Pizzolato	Griffith University	Australia

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:50 - 09:00	AS-0178	PREDICTION OF THE SUBJECT-SPECIFIC KNEE PASSIVE MOTION FROM NON-INVASIVE MEASUREMENTS	Nicola Sancisi	University of Bologna	Italy
09:00 - 09:10	AS-0179	CORRESPONDENCELESS GROUPWISE REGISTRATION OF ANATOMICAL OBJECTS USING SPHERICAL EXTENT FUNCTIONS	Jeremy Mogk	Autodesk Canada, Co.	Canada
09:10 - 09:20	AS-0180	CALCULATION OF STUMP-SOCKET PRESSURE IN TRANSTIBIAL PROSTHESES DURING DYNAMIC GAIT SIMULATIONS.	Friedl De Groote	KU Leuven	Belgium
08:20 - 09:20	Abstract Session - Rehabilitation 2 Chairs: Paul DeVita & Peter Milburn Location: Dochart 1				
08:20 - 08:30	AS-0181	OLDER ADULTS SHOW LESS TRICEPS SURAE MUSCLE FASCICLE SHORTENING IN WALKING COMPARED TO YOUNG ADULTS	Lauri Stenroth	University of Jyväskylä	Finland
08:30 - 08:40	AS-0182	REVEALING QUADRICEPS INHIBITION IN MALES AND FEMALES WITH KNEE OSTEOARTHRITIS USING A SIMPLE MUSCULOSKELETAL MODEL	Daniel L. Benoit	University of Ottawa	Canada
08:40 - 08:50	AS-0183	MULTI-CHANNELS FUNCTIONAL ELECTRICAL STIMULATION WALKING SYSTEM INSPIRED BY PURE REFLEXIVE CONTROLLER	Lin Meng	University of Glasgow	United Kingdom
08:50 - 09:00	AS-0184	IDENTIFICATION OF KINEMATIC AND CLINICAL FEATURES THAT PREDICT EXERCISE INTERVENTION OUTCOMES FOR TREATMENT OF PATELLOFEMORAL PAIN.	Ricky Watari	University of Calgary	Canada
09:00 - 09:10	AS-0185	EVALUATION OF HIP POSITION IN THE DEVELOPMENT OF STRENGTH AND ELECTROMYOGRAPHY RESPONSE OF THE RECTUS FEMORAL MUSCLE. SUMMARY TITLE : EVALUATION OF FORCE AND ELECTROMYOGRAPHIC RESPONSE IN RELATION TO THE HIP POSITION .	Paulo Veiga	University of Pernambuco	Brazil
09:10 - 09:20	AS-0186	EFFICACY OF PHARMACOLOGICAL AND NON-PHARMACOLOGICAL STRATEGIES TOWARDS CEREBRAL PALSY INDUCED SPASTICITY	Dinesh Bhatia	North-Eastern Hill University	India

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:20		Abstract Session - Upper Body: Upper Limb 2 Chairs: Dimitra Blana & Andrea Giovanni Cutti Location: Dochart 2			
08:20 - 08:30	AS-0187	COMPARISON OF TWO DIRECT KINEMATIC MODELLING APPROACHES FOR SPORT-SPECIFIC UPPER LIMB MODELLING	Cyril J. Donnelly	The University of Western Australia	Australia
08:30 - 08:40	AS-0188	ACCURACY OF GLENOID PLACEMENT IN REVERSE SHOULDER ARTHROPLASTY. CAN SURGEONS CORRECT THE PRE-OPERATIVE GLENOID DEFORMITIES IN OSTEOARTHRITIC SHOULDERS?	Andreas for special Kontaxis	Hospital for Special Surgery	United States
08:40 - 08:50	AS-0189	SHOULDER ROTATIONAL RANGE OF MOTION PATTERN IN ELITE VOLLEYBALL AND HANDBALL PLAYERS	Augusto Gil Pascoal	University of Lisbon	Portugal
08:50 - 09:00	AS-0190	ACCURACY OF PRE-OPERATIVE PLANNING IN REVERSE SHOULDER ARTHROPLASTY	Andreas for special Kontaxis	Hospital for Special Surgery	United States
09:00 - 09:10	AS-0191	A COMPARISON OF ARTIFICIAL NEURAL NETWORK AND REGRESSION MODELS FOR PREDICTING MANUAL ARM STRENGTH BASED ON HAND LOCATION	Nicholas La La Delfa	McMaster University	Canada
09:10 - 09:20	AS-0192	AGE, GENDER, TRAINING AND ARM DOMINANCE – IMPLICATIONS FOR KINAESTHESIA AND MOVEMENT PERFORMANCE IN THE UPPER EXTREMITIES	Sybele Williams	The University of the West Indies	Trinidad and Tobago
09:20 - 09:30		Transition 10 minutes			
09:30 - 10:20		Keynote Lecture - Spine Biomechanics Location: Clyde Auditorium			
		Spine Biomechanics	Aboufazel Shirazi-Adl	École Polytechnique	Canada
			Judith Meakin	University of Exeter	United Kingdom
10:20 - 11:00		Coffee Break Location: Hall 5			

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00		Special Session - Spinal Biomechanics Chairs: Judith Meakin Location: Clyde Auditorium			
11:00 - 11:20	SS-0037	THE EFFECT OF CERVICAL FLEXION AND EXTENSION ON THE C5-6 AND C6-7 DISC AS MEASURED ON MAGNETIC RESONANCE IMAGING	Areej Elmaazi	Manchester Metropolitan University	United Kingdom
11:20 - 11:40	SS-0039	THE EFFECTS OF EXPERIMENTALLY INDUCED LOW BACK PAIN ON SPINE ROTATIONAL STIFFNESS AND LOCAL DYNAMIC STABILITY.	Gwyneth Ross	Nipissing University	Canada
11:40 - 12:00	SS-0041	THE IMPACT OF SIT-STAND WORKSTATIONS ON MUSCLE ACTIVITY AND SPINAL SHRINKAGE IN OFFICE WORKERS	Ying Gao	University of Jyväskylä	Finland
11:00 - 12:00		Special Session - Hand & Wrist Biomechanics Chairs: Zong-Ming Li & Kai-Nan An Location: Gala			
11:00 - 11:10		HISTORY OF HAND AND WRIST BIOMECHANICS	Kai-Nan An	Mayo Clinic	United States
11:10 - 11:20	SS-0042	THE KINEMATIC ENVELOPE OF THE THUMB CARPOMETACARPAL (CMC) JOINT	J.J. Trey Crisco	Brown University	United States
11:20 - 11:30		ULTRASOUND ASSESMENT OF TENDON GLIDING IN THE CARPEL TUNNEL: IMPLICATIONS FOR WORKPLACE INJURY	Peter Keir	McMaster University	Canada
11:30 - 11:40		KINEMATIC INDICATORS OF EXPERTISE: FROM NEUROLOGICAL IMPAIRMENT TO MUSICAL VIRTUOSO	Cheryl D Metcalf	University of Southampton	United Kingdom
11:40 - 11:50		USING BIOMECHANICAL MODELLING TO CHARACTERIZE ADAPTATIONS OF HAND MUSCLES CAPACITIES RESULTING FROM VARIOUS SPORTS PRACTICES AND VARIOUS PATHOLOGIES	Laurent Vigouroux	Aix-Marseille Université	France
11:50 - 12:00		BIOMECHANICS OF THE TRANSVERSE CARPAL LIGAMENT	Zong-Ming Li	Cleveland Clinic	United States

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11:00 - 12:00		Abstract Session - Upper Body: Shoulder Chairs: Andreas Kontaxis & Edward Chadwick Location: Forth			
11:00 - 11:10	AS-0193	FATIGUE AND RECOVERY IN THE SHOULDER COMPLEX WHILE PERFORMING SIMULATED REPETITIVE WORK	Alison McDonald	McMaster University	Canada
11:10 - 11:20	AS-0194	THE VACUUM PHENOMENON WITHIN A TOTAL SHOULDER REPLACEMENT CAUSING GLENOID COMPONENT DISSOCIATION – A NOVEL OBSERVATION	György Kocsis	Nottingham University Hospitals	United Kingdom
11:20 - 11:30	AS-0195	HUMERAL HEAD REPLACEMENT- DOES IT WORK? A KINEMATIC STUDY OF SHOULDER MOTION FOLLOWING COPELAND® SHOULDER RESURFACING ARTHROPLASTY	Iain Hyndman	University of Dundee	United Kingdom
11:30 - 11:40	AS-0196	NORMAL SHOULDER BIOMECHANICS: AN EMG STUDY	David Hawkes	Liverpool Hope University	United Kingdom
11:40 - 11:50	AS-0197	SHOULDER INSTABILITY TESTS AS EFFECT MEASURES AFTER SHOULDER INTERVENTIONS – AN INTER-EXAMINER RELIABILITY OF THE CLINICAL TESTS	Henrik Eshoj	Faculty of Health Sciences, University of Southern Denmark	Denmark
11:50 - 12:00	AS-0198	MUSCLE CO-CONTRACTION AT THE SHOULDER DURING THE DYNAMIC RELOCATION TEST: A CROSS-SECTIONAL STUDY WITH ASYMPTOMATIC INDIVIDUALS	Daniel Cury Ribeiro	University of Otago	New Zealand
11:00 - 12:00		Special Session - International Society of Electrophysiology & Kinesiology Chairs: Dario Farina Location: Seminar Suite			
11:00 - 11:20		SENSORIMOTOR ADAPTATION IN SPINAL PAIN	Deborah Falla	Universitätsmedizin Göttingen	Germany
11:20 - 11:40		TARGETING BACK PAIN: ADVANCES INFORMED BY BIOMECHANICS AND NEUROPHYSIOLOGY	Paul Hodges	University of Queensland	Australia
11:40 - 12:00		TREATING SHOULDER AND NECK PAIN: ADVANCES INFORMED BY BIOMECHANICAL AND MOTOR CONTROL MEASURES OF BALANCE	Karen Søgaard	University of Southern Denmark	Denmark

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00		Special Session - Prosthetics Chairs: Anthony McGarry Location: Carron 1			
11:00 - 11:10	SS-0043	PHYSIOLOGICAL AND PROSTHETIC ANKLE BEHAVIOUR ON CROSS-SLOPES	Coralie Villa	INI	France
11:10 - 11:20	SS-0044	LOWER-LIMB KINEMATICS AND KINETICS DURING AMPUTEE RUNNING: A NEW APPROACH	Stacey Mary Rigney	UNSW	Australia
11:20 - 11:30	SS-0045	INVESTIGATION INTO RAMP DESCENT AMBULATION FOR TRANSFEMORAL AMPUTEES WHEN USING AN INTEGRATED PROSTHESIS	Nadine Stech	Centre for Biomedical Engineering	United Kingdom
11:30 - 11:40	SS-0046	DIFFERENCES IN PELVIS AND THORAX KINEMATICS DURING THE STANDING TURN FOR PEOPLE WITH A UNILATERAL TRANS-TIBIAL AMPUTATION.	Tina Smith	University of Wolverhampton	United Kingdom
11:40 - 11:50	SS-0047	PRELIMINARY EVALUATION OF A MICROPROCESSOR-CONTROLLED KNEE ANKLE PROSTHESIS (MAKP) FOR ABOVE KNEE AMPUTEES.	Bonnet Xavier	PROTEOR	France
11:50 - 12:00	SS-0048	A LOWER-LIMB AMPUTEE MUSCULOSKELETAL MODEL FOR QUANTIFYING STUMP-SOCKET KINEMATICS AND KINETICS	Ryan Wedge	University of Massachusetts Amherst	United States
11:00 - 12:00		Special Session - Rehabilitation Chairs: Philip Rowe Location: Carron 2			
11:00 - 11:10	SS-0049	MULTI-PARAMETRIC EVALUATION OF MOBILITY USING SINGLE-LOCATION WEARABLE SENSOR: APPLICATION TO STROKE PATIENTS	Kamiar Aminian	EPFL	Switzerland
11:10 - 11:20	SS-0050	KNEE AND BODY ALIGNMENT IN THE FRONTAL PLANE DURING FIVE FUNCTIONAL EXERCISES USED IN REHABILITATION	Kate Button	Cardiff University	United Kingdom
11:20 - 11:30	SS-0051	DOES LONG-TERM PASSIVE STRETCHING ALTER MUSCLE-TENDON UNIT MECHANICS IN CHILDREN WITH SPASTIC CEREBRAL PALSY?	Nicola Theis	St Mary's University	United Kingdom
11:30 - 11:40	SS-0052	TRAINING WITH OFF-LOADED BODY WEIGHT IN A LOWER-BODY POSITIVE PRESSURE CHAMBER IMPROVES PHYSICAL FUNCTION IN PATIENTS WITH MUSCULAR DYSTROPHY	Bente R Rona Jensen	Integrated Physiology, NEXS, University of Copenhagen	Denmark
11:40 - 11:50	SS-0053	COMPENSATION STRATEGIES FOR EXPERIMENTALLY REDUCED MUSCLE FUNCTION DURING SQUATS	Teresa Flaxman	University of Ottawa	Canada
11:50 - 12:00	SS-0054	SMART MONITORING OF KNEE RANGE OF MOTION AND ACTIVITY TYPE FOR KNEE REHABILITATION.	Enrica Papi	Imperial College London	United Kingdom

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00		Special Session - Korean Society of Biomechanics Chairs: Sung-jae Lee Location: Dochart 1			
11:00 - 11:06		DYNAMIC COMPRESSIVE CREEP DEFORMATION OF UHMWPE UNDER HIGH LEVELS OF CONTACT PRESSURES	Kwon-Yong Lee	Department of Mechanical Engineering, Sejong University	Republic of Korea
11:06 - 11:12		DETERMINATION OF OPTIMAL ROTATIONS FOR PERIACETABULAR OSTEOTOMY USING A PATIENT-SPECIFIC FINITE ELEMENT ANALYSIS	Sung-Jae Lee	Department of Biomedical Engineering, Inje University	Republic of Korea
11:12 - 11:18		QUANTITATIVE ANALYSIS OF THE TIBIAL STEM POSITION THROUGH THE VIRTUAL PLANNING OF TKA	Yeo Kyung Kang	Central R&D Center, Corentec Co. LTD.	Republic of Korea
11:18 - 11:24		BIOMECHANICAL COMPARISON OF NUCLEUS IMPLANT DEVICE AND CERVICAL ARTIFICIAL DISC REPLACEMENT FOR DISC DEGENERATION DISEASES - A FINITE ELEMENT ANALYSIS STUDY	Hui Sung Lee	National Institute of Food and Drug Safety Evaluation	Republic of Korea
11:24 - 11:30		EFFECT OF VARUS-VALGUS MALALIGNMENT ON STRESS DISTRIBUTION OF TIBIA USING FINITE ELEMENT ANALYSIS	H.J. Chun	Yonsei University	Republic of Korea
11:30 - 11:36		ESTIMATION OF AN OPTIMAL SHOE BENDING STIFFNESS FOR RUNNING ECONOMY BASED ON NATURAL METATARSOPHALANGEAL JOINT STIFFNESS	Sukyung Park	Korea Advanced Institute of Science and Technology (KAIST)	Republic of Korea
11:36 - 11:42		ROBUST 2D-3D REGISTRATION FOR BI-PLANE FLUOROSCOPIC ANALYSIS OF SKELETAL KINEMATICS	Seungbum Koo	School of Mechanical Engineering, Chung-Ang University	Republic of Korea
11:42 - 11:48		NUMERICAL ANALYSIS OF TRANSIENT STREAMING POTENTIAL INCLUDED WITH PIEZOELECTRIC EFFECTS IN BONE	Junghwa Hong	Department of Control Instrumentation Engineering, Korea University	Republic of Korea
11:48 - 11:54		STUDY OF DYNAMIC GAIT STABILITY EVALUATION MODEL ABOUT BIONIC-LEG FOR LOWER LIMB AMPUTEE	Sung-jae Kang	Korea Orthopedics and Rehabilitation Engineering Center	Republic of Korea
11:54 - 12:00		SHEAR INDUCED MODULATION OF CELLULAR PHYSIOLOGY	Jennifer Shin	Korea Advanced Institute of Science and Technology (KAIST)	Republic of Korea

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11:00 - 12:00		Special Session - Golf Chairs: David Nash Location: Dochart 2			
11:00 - 11:10	SS-0056	ENDPOINT MOBILITY IN BIMANUAL MANIPULATION: INSIGHTS FROM GOLF BALL STRIKING	Fredrik Tinmark	GIH - The Swedish School of Sport and Health Sciences	Sweden
11:10 - 11:20	SS-0055	IDENTIFYING BODY ROTATION FEATURES DURING THE GOLF SWING USING PRINCIPAL COMPONENT ANALYSIS	Aimee Smith	Loughborough University	United Kingdom
11:20 - 11:30	SS-092	SPEED-ACCURACY TRADE-OFF IN GOLF DRIVING: A KINEMATIC AND PERFORMANCE ANALYSIS OF A GROUP OF LOW HANDICAP GOLFERS	Susan Brown & Michael Davidson	Edinburgh Napier University	United Kingdom
11:30 - 11:40	SS-093	PERFORMANCE DIFFERENCES BETWEEN BLADE AND CAVITY BACK IRONS	Tom Corke, Eric Wallace & Steve Otto	Ulster University and The R&A	United Kingdom
11:40 - 11:50	SS-094	ANALYSIS OF THE DELIVERY PLANE IN THE GOLF SWING USING PRINCIPAL COMPONENTS	Andrew Morrison, Denise McGrath & Eric Wallace	Ulster University	United Kingdom
12:00 - 13:30		Lunch Break Location: Hall 5			
13:30 - 14:20		Keynote Lecture - Knee Biomechanics Location: Clyde Auditorium			
		Knee Biomechanics	Peter Walker	New York University Medical Center-Hospital	United States
			Mark Taylor	Flinders University	Australia
14:20 - 14:30		Transition 10 minutes			
14:30 - 15:30		Abstract Session - Sport 5 Chairs: Todd Pataky & Cyril J. Donnelly Location: Clyde			
14:30 - 14:40	AS-0199	QUALITATIVE AND QUANTITATIVE CRITERIA FOR ASSESSING THE TEMPORAL STRUCTURE OF INDOOR ROWING TECHNIQUES	John Simon Fothergill	University of Cambridge	United Kingdom
14:40 - 14:50	AS-0200	COORDINATION ANALYSIS BETWEEN OPPONENT TENNIS PLAYERS USING VECTOR CODING TECHNIQUE.	Felipe ARRUDA Moura	State University of Londrina	Brazil
14:50 - 15:00	AS-0448	NOVEL EVIDENCE OF SOCCER BALL KICKING TO PRACTICAL COACHING INSTRUCTIONS	Hiroyuki Nunome	Fukuoka University	Japan

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15:00 - 15:10	AS-0202	THE EFFECTS OF ALTERED FOREFOOT BENDING AND TORSIONAL STIFFNESS ON THE BIOMECHANICS OF CURVED RUNNING	Ryan Madden	University of Calgary	Canada
15:10 - 15:20	AS-0203	CONCEPT2 ROWING PERFORMANCE CAN BE IMPROVED WITH GREATER ROWING FREQUENCY AND LESS ROWING RESISTANCE	Li Li	Shanghai University of Sport	China
15:20 - 15:30	AS-0204	EFFECT OF RUNNING SPEED ON INTRA-TRUNK ANGULAR DISPLACEMENTS EXHIBITED DURING TREADMILL RUNNING	Kathy J Simpson	University of Georgia	United States
14:30 - 15:30		Abstract Session - Musculoskeletal 5 Chairs: John Challis & Zac Domire Location: Gala			
14:30 - 14:40	AS-0205	THE INTERFASCICULAR MATRIX ENABLES FASCICLE SLIDING AND RECOIL IN TENDON, AND BEHAVES MORE ELASTICALLY IN ENERGY STORING TENDONS	Hazel Screen	Queen Mary University of London	United Kingdom
14:40 - 14:50	AS-0206	SHEAR WAVES ELASTOGRAPHY FOR BIOMECHANICAL ASSESSMENT OF ACHILLES TENDON	Thomas-Xavier Haen	Hopital Raymond Poincaré	France
14:50 - 15:00	AS-0207	THE INFLUENCES OF DEVELOPMENT AND PATHOLOGY ON THREE DIMENSIONAL HUMERAL SHAPE MORPHOLOGY THROUGHOUT THE PEDIATRIC AGE SPECTRUM	Frances Sheehan	National Institutes of Health	United States
15:00 - 15:10	AS-0208	RELATIONSHIP BETWEEN MUSCLE FASCICLES BEHAVIOR DURING MAXIMAL ECCENTRIC EXERCISE AND SUBSEQUENT MUSCLE DAMAGE	Gaël Guilhem	French National Institute of Sport (INSEP)	France
15:10 - 15:20	AS-0209	COMPARISON OF HIP MUSCLE FORCES OBTAINED USING A CALIBRATED EMG-INFORMED MODEL AND STATIC OPTIMIZATION IN A HIP OSTEOARTHRITIC POPULATION	Hoa X. Hoang	Griffith University	Australia
15:20 - 15:30	AS-0210	SHEAR WAVE SPEED IN PLANTARFLEXORS OF INDIVIDUALS WITH CEREBRAL PALSY	Sabrina Lee	Northwestern University	United States
14:30 - 15:30		Abstract Session - Motion Analysis 5 Chairs: Corina Nüesch & Kevin McQuade Location: Forth			
14:30 - 14:40	AS-0211	PREDICTING TIMING OF FOOT STRIKE FOR TREADMILL WALKING AND RUNNING WITH A PRINCIPAL COMPONENT MODEL OF GAIT.	Sean Osis	University of Calgary	Canada
14:40 - 14:50	AS-0212	OBJECTIVELY-MEASURED DAILY PHYSICAL ACTIVITY PATTERNS AND THEIR ASSOCIATIONS WITH BMI IN OLDER WOMEN	Emma Fortune	Mayo Clinic	United States

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:50 - 15:00	AS-0213	EFFECTS OF FATIGUE AND ANTICIPATION ON THE KINEMATICS AND KINETICS DURING A SIDE CUT	Chris Richter	Dublin City University	Ireland
15:00 - 15:10	AS-0214	SENSITIVITY OF A DISTRIBUTIVE TACTILE SENSING DEVICE FOR THE ASSESSMENT OF ARM FUNCTION AFTER STROKE	Amir Ali Mohagheghi	Brunel University	United Kingdom
15:10 - 15:20	AS-0215	IS THE DYNAMIC COEFFICIENT OF FRICTION INDEPENDENT OF VELOCITY IN HUMAN GAIT?	Ilaria Pacifici	Politecnico di Milano	Italy
15:20 - 15:30	AS-0216	EFFECTS OF TWO FATIGUE PROTOCOLS ON LOWER EXTREMITY KINEMATICS AND IMPACT FORCES IN DROP LANDING TASKS	Rui Xia	Shanghai University of Sport	China
14:30 - 15:30	Abstract Session - Modelling & Computer Simulation 5 Chairs: Caroline Stewart Location: Seminar Suite				
14:30 - 14:40	AS-0217	TIBIAL FRACTURE AFTER UNICOMPARTMENTAL KNEE REPLACEMENT: THE IMPORTANCE OF SURGICAL CUT ACCURACY	Elise C Pegg	University of Oxford	United Kingdom
14:40 - 14:50	AS-0218	BIOMECHANICAL ANALYSIS OF THE UNIVERSAL 2 IMPLANT IN TOTAL WRIST ARTHROPLASTY: A FINITE ELEMENT STUDY.	Magnús Kjartan Gíslason	Reykjavik University	Iceland
14:50 - 15:00	AS-0219	TOWARDS AN AUTONOMOUS REACTIVE FINITE ELEMENT MODEL OF THE HUMAN ARM	Dorian Salin	IFSTTAR	France
15:00 - 15:10	AS-0220	A COMBINED EMG-CONSTRAINED AND ENTROPY-ASSISTED STATIC OPTIMIZATION MODEL OF THE INDEX FINGER	Peter Keir	McMaster University	Canada
15:10 - 15:20	AS-0221	MODELING COORDINATED JOINT RANGE OF MOTION OF THE HUMAN HAND -- CHARACTERISTICS OF COORDINATION AND GRASPING IN RELATION TO THE ROM BOUNDARY --	Natsuki Miyata	National Institute of Advanced Industrial Science and Technology	Japan
15:20 - 15:30	AS-0222	PREDICTION OF IN-VIVO KNEE KINEMATICS: DEVELOPMENT OF A PATIENT-SPECIFIC MUSCULOSKELETAL MODEL OF THE KNEE FOR CLINICAL APPLICATION	Malte Asseln	Helmholtz-Institute for Biomedical Engineering, RWTH Aachen University	Germany

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:30 - 15:30		Abstract Session - Rehabilitation: Elderly 1 Chairs: Kamiar Aminian Location: Carron 1			
14:30 - 14:40	AS-0223	EFFECT OF EXERCISE-INDUCED CHANGES OF THE INTRINSIC TRICEPS SURAE MUSCLE-TENDON UNIT PROPERTIES ON MAXIMAL WALKING VELOCITY IN THE ELDERLY	Gaspar Epro	German Sport University Cologne	Germany
14:40 - 14:50	AS-0224	ROLE OF EACH LEG TOWARDS ANGULAR IMPULSE GENERATION DURING TURNING-WHILE-WALKING PERFORMED AT DIFFERENT SPEEDS BY OLDER ADULT FALLERS	Antonia Zaferiou	University of Southern California	United States
14:50 - 15:00	AS-0225	EFFECTS OF STRENGTHENING AND STRETCHING EXERCISES ON RUNNING BIOMECHANICS IN OLDER ADULTS: A RANDOMIZED CONTROLLED TRIAL.	Reginaldo Fukuchi	Federal University of ABC	Brazil
15:00 - 15:10	AS-0226	REDUCED CYCLING SPEED ALONE DOESN'T EXPLAIN DIFFERENCES IN CYCLING KINEMATICS BETWEEN OLDER AND YOUNG CYCLISTS	Rosemary Dubbeldam	Roessingh Research and Development	Netherlands
15:10 - 15:20	AS-0227	ARE THERE DIFFERENCES IN ELDERLY BETWEEN OBSTACLE CROSSING WITH THE PREFERRED AND WITH THE NON-PREFERRED LEG LEADING?	Eliane Celina Guadagnin	Federal University of Rio Grande do Sul	Brazil
15:20 - 15:30	AS-0228	WALKING WITH A PLANTAR FLEXION ASSISTING ANKLE-FOOT EXOSKELETON IN AN OLDER POPULATION	Samuel Galle	Ghent University	Belgium
14:30 - 15:30		Abstract Session - Lower Body: Feet & Footwear 2 Chairs: Alberto Leardini & Annegret Mündermann Location: Carron 2			
14:30 - 14:40	AS-0229	ARE THE FEET AS LOCALLY STABLE AS THE CENTER OF MASS DURING WALKING?	Claude Pothrat	Aix Marseille Université	France
14:40 - 14:50	AS-0231	CHANGES IN COMFORT AND HEEL CUSHIONING PERFORMANCE OF BASKETBALL SHOES WITH INCREASING SHOE USAGE TIME	Wing Kai Lam	Li Ning (China) Sports Goods Company	China
14:50 - 15:00	AS-0232	BAREFOOT VS. SHOD: A COMPARISON OF LOWER LIMB MOTION DURING RUNNING	Ben Langley	University of East London	United Kingdom
15:00 - 15:10	AS-0233	NORM DATA FOR BENDING AND TORSIONAL LOADS OF THE FOOT IN SHOES INCLUDING THE EFFECT OF GENDER	Annette Kerkhoff	Münster University of Applied Sciences	Germany
15:10 - 15:20	AS-0234	LOWER LIMB BIOMECHANICS DURING THE FORWARD LUNGE: THE INFLUENCE OF A SHOE WITH IRREGULAR DEFORMATIONS OF THE MIDSOLE	Charlotte Apps	Liverpool John Moores University	United Kingdom

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:30 - 15:30		Abstract Session - IMPACT Chairs: Andrew Phillips & Donal McNally Location: Dochart 1			
14:30 - 14:40	AS-0235	PROTECTIVE CAPACITIES OF ICE HOCKEY HELMETS FOR DIFFERENT MECHANISMS OF HEAD INJURY	J. Michio Michio Clark	University of Ottawa	Canada
14:40 - 14:50	AS-0236	THE RELATIONSHIP BETWEEN HEAD ACCELERATION AND BRAIN TISSUE RESPONSE VARIABLES FOR THREE COMMON IMPACTS IN AMERICAN FOOTBALL	R. Anna Oeur	University of Ottawa	Canada
14:50 - 15:00	AS-0237	UNDERSTANDING HIGH FORCE TRANSMISSION ON TRAUMA IN THE GLENOHUMERAL JOINT	David James Hughes	Teesside University	United Kingdom
15:00 - 15:10	AS-0238	HOW DO GROUND REACTION IMPACT FORCES RESPOND TO CHANGES IN SUBMAXIMAL GAIT SPEED?	Emmanuel Souza Da Rocha	Federal University of Pampa	Brazil
15:10 - 15:20	AS-0239	EVALUATING THE PROTECTIVE CAPACITY OF BASEBALL HELMETS TO CONCUSSIVE IMPACTS	Clara Karton	University of Ottawa	Canada
15:20 - 15:30	AS-0240	A COMPARISON OF STRESS DISTRIBUTION IN THE HEALTHY AND OSTEOARTHRITIS-AFFECTED EQUINE THIRD METACARPAL UNDER IMPACT LOADING USING FINITE ELEMENT ANALYSIS	Cristin Mccarty	University of Guelph	Canada
14:30 - 15:30		Abstract Session - Motor Control 5 Chairs: Huub Maas & Chris Tijs Location: Dochart 2			
14:30 - 14:40	AS-0241	FACILITATED SOLEUS H-REFLEX AND NORMAL GAIT VARIABILITY DURING WALKING IN PEOPLE WITH KNEE OSTEOARTHRITIS	Tine Alkjaer	University of Copenhagen	Denmark
14:40 - 14:50	AS-0243	SUBJECT-SPECIFIC INTRINSIC AND EXTRINSIC THUMB MUSCLE ACTIVITY DURING FUNCTIONAL TASKS OF DAILY LIFE	Faes Kerkhof	Leuven University	Belgium
14:50 - 15:00	AS-0244	MOVEMENT CONTROL DURING ACTIVE SPINAL RANGE OF MOTION IS ACHIEVED BY A DIFFERENTIAL USE OF ECCENTRIC AND CONCENTRIC MUSCLE ACTIVITY	Stephanie Valentin	University of Veterinary Medicine Vienna	Austria
15:00 - 15:10	AS-0245	THE ASSESSMENT OF BRACHIALIS MUSCLE ACTIVATION WITH SURFACE ELECTROMYOGRAPHY	Didier Staudenmann	Movement and Sport Science	Switzerland
15:10 - 15:20	AS-0246	THE EFFECT OF FEAR OF FALLING AND VESTIBULAR SENSORY FEEDBACK ON POSTURAL CONTROL KINEMATICS	Jonathan de Melker Worms	Manchester Metropolitan University	United Kingdom

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
15:30 - 16:40		Coffee Break & Poster Session Location: Hall 5			
16:40 - 17:40		Abstract Session - Motion Analysis 6 Chairs: Sebastian Dendorfer & Tim Weber Location: Clyde Auditorium			
16:40 - 16:50	AS-0247	ARE MANDIBULAR KINEMATIC MEASUREMENTS RELIABLE DURING MAXIMUM MOUTH OPENING IN HEALTHY SUBJECTS?	Letícia Bojikian Calixtre	Federal University of São Carlos	Brazil
16:50 - 17:00	AS-0248	GAIT ANALYSIS OF TKA PATIENTS AT 2 WEEKS AND 4 WEEKS AFTER SURGERY USING WEARABLE SENSORS	Ryo Takeda	Hokkaido University	Japan
17:00 - 17:10	AS-0249	VALIDATION OF A NEW ALGORITHM FOR THE DETECTION OF STEP DURATIONS IN SHORT EPISODES OF GAIT USING A SINGLE ACCELEROMETER DEVICE ON THE LOWER BACK.	María Encarnación Micó Amigo	Faculty of Human Movement, VU Amsterdam University	Netherlands
17:10 - 17:20	AS-0250	3D BODY CENTRE OF MASS TRAJECTORY IN LOCOMOTION: COMPARISON BETWEEN DIFFERENT MEASUREMENTS METHODS	Elena Seminati	University of Bath	United Kingdom
17:20 - 17:30	AS-0251	DEVELOPMENT OF A BESPOKE BIOMECHANICAL MODEL FOR REAL-TIME CALCULATION OF LOWER LIMB KINEMATICS.	Lindsay Clarke	University of Strathclyde	United Kingdom
17:30 - 17:40	AS-0252	EFFECT OF WEARABLE TRUNK SUPPORT FOR WORKING IN SUSTAINED STOOPED POSTURE ON LOW BACK NET EXTENSION MOMENTS	Chris T.M. T Baten	Roessingh Research and Development	Netherlands
16:40 - 17:40		Abstract Session - Motor Control 6 Chairs: Catherine Disselhorst-Klug & Kathrin Koch Location: Gala			
16:40 - 16:50	AS-0253	THE RELATIONSHIP OF ENERGY COST TO BIOMECHANICS AND MUSCULAR RESPONSES DURING PROLONGED LOAD CARRIAGE	John W Ramsay	Natick Soldier Research, Development and Engineering Center	United States
16:50 - 17:00	AS-0254	OLDER ADULTS AND RECOVERED LOW BACK INJURED PARTICIPANTS HAVE UNIQUE TRUNK MUSCLE MOTOR ADAPTATIONS TO A DYNAMIC LEG LOADING TASK	David Adam Quirk	Dalhousie University	Canada
17:00 - 17:10	AS-0255	NON-NEGATIVE MATRIX FACTORIZATION FOR MUSCLE SYNERGY ANALYSIS: ROBUSTNESS ASSESSMENT AND IMPROVEMENT	Mohammad S. Shourijeh	University of Ottawa	Canada
17:10 - 17:20	AS-0256	NEURO-MECHANICAL CONTROL OF THE PRECISION JUMP. EFFECTS OF AMPLITUDE AND PRECISION CONSTRAINTS IN A FITTS' LIKE TASK.	David Pagnon	Gipsa-Lab	France

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
17:20 - 17:30	AS-0257	MUSCLE ACTIVATION PATTERNS DIFFERENCES IN RUNNING TECHNIQUES	Victor Hugo Munoz-Martel	Universidad SEK	Chile
17:30 - 17:40	AS-0258	EFFECTS OF ADDITIONAL CONSTANT AND IMPROMPTU COGNITIVE LOADINGS ON LOWER EXTREMITY GAIT PERFORMANCE	C.K. Chan	NATIONAL UNIVERSITY OF SINGAPORE	Singapore
16:40 - 17:40 Abstract Session - Sport 6 Chairs: Johnathan Williams & Rachael Bewes Location: Forth					
16:40 - 16:50	AS-0259	IDENTIFYING TREADMILL RUNNING FATIGUE USING TRUNK ACCELEROMETRY BASED MEASURES	Kurt Heinrich Schutte	Stellenbosch University	South Africa
16:50 - 17:00	AS-0260	HOW PLAYERS CONTROL TENNIS RACKET VIBRATION TRANSFERRED TO THEIR FOREARM?	Delphine Chadeaux	Aix-Marseille University	France
17:00 - 17:10	AS-0261	RELATIONSHIP BETWEEN PRE-STRETCH AUGMENTATION OF JUMP PERFORMANCE, ANKLE DORSIFLEXION RANGE OF MOTION AND ANKLE STIFFNESS DURING THE SUPPORT PHASE OF DROP JUMP IN WUSHU ATHLETES	Sébastien Laporte	Arts et Metiers ParisTech	France
17:10 - 17:20	AS-0262	DIFFERENCES IN ANKLE AND KNEE JOINT KINEMATICS AND KINETICS DURING THE FIRST STANCE PHASE OF THE ACCELERATION PHASE DIFFERENTIATE BETWEEN YOUNG AND ADULT HIGH LEVEL SPRINTERS	Jeroen Aeles	KU Leuven	Belgium
17:20 - 17:30	AS-0263	THE ROLE OF TORSIONAL ROTATION OF TRUNK IN SPRINT RUNNING	Natsuki Sado	University of Tokyo	Japan
17:30 - 17:40	AS-0264	PUSHOFF FORCES AND POSTURE ANALYSIS OF TACKLE IN ELITE RUGBY PLAYERS: A PILOT STUDY	Zimi Sawacha	University of padova	Italy
16:40 - 17:50 Abstract Session - Musculoskeletal 6 Chairs: Walter Herzog & Krysta Powers Location: Seminar Suite					
16:40 - 16:50	AS-0265	DOES CARDIAC MUSCLE EXHIBIT HISTORY-DEPENDENT PROPERTIES?	Kevin Boldt	University of Calgary	Canada
16:50 - 17:00	AS-0266	IN VIVO EFFECTS OF EPIMUSCULAR MYOFASCIAL FORCE TRANSMISSION ON SARCOMERE LENGTH OF MUSCLES IN THE RAT HINDLIMB	Chris Tijss	VU University Amsterdam	Netherlands
17:00 - 17:10	AS-0267	A NEW METHOD FOR ESTIMATING MUSCLE-TENDON PARAMETERS FOR SUBJECT SPECIFIC MUSCULOSKELETAL MODELS OF THE LOWER LIMB	Luca Modenese	Centre for Musculoskeletal Research	Australia

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
17:10 - 17:20	AS-0268	RESIDUAL FORCE ENHANCEMENT CONTRIBUTES TO INCREASED PERFORMANCE IN FAST STRETCH-SHORTENING CYCLES OF HUMAN SKELETAL MUSCLES	Wolfgang Seiberl	Technische Universität München	Germany
17:20 - 17:30	AS-0269	METABOLIC AND MUSCLE CONTRIBUTORS TO DIABETIC FOREFOOT DEFORMITY	Victor Cheuy	Washington University in St. Louis	United States
17:30 - 17:40	AS-0270	MECHANICAL INTERACTIONS BETWEEN HUMAN LOWER LEG MUSCLES IN VIVO SHOWN USING ELASTOGRAPHY	Filiz Ates	Bogazici University	Turkey
17:40 - 17:50	AS-0270-2	TOWARDS AN UNDERSTANDING OF THE MECHANISMS UNDERLYING FORCE ENHANCEMENT	Krysta L. Powers	Faculty of Kinesiology, University of Calgary	Canada
16:40 - 17:40	Abstract Session - Rehabilitation: Elderly 2 Chairs: John Challis & Samantha Winter Location: Carron 1				
16:40 - 16:50	AS-0271	THE EFFECTS OF A DUAL-TASK ON OVERGROUND MINIMUM TOE CLEARANCE AND GAIT PARAMETERS DURING WALKING IN OLDER ADULTS	Kim Rachel Duffy	University of Essex	United Kingdom
16:50 - 17:00	AS-0272	IS THE DIFFERENCE BETWEEN PREFERRED AND NON-PREFERRED LEADING LEG OBSTACLE CROSSING LARGER IN ELDERLY FALLERS THAN IN NON-FALLERS?	Emmanuel Souza da Rocha	Federal University of Pampa	Brazil
17:00 - 17:10	AS-0273	EFFECTS OF TAI CHI EXERCISE ON LOWER EXTREMITY IN ELDERS DURING WALKING	Po-Chieh Chen	National Taiwan Normal University	Taiwan, Republic of China
17:10 - 17:20	AS-0274	ANKLE POWER PEAK AND DYNAMIC JOINT STIFFNESS OF THE ANKLE IN RHEUMATOID ARTHRITIS POSTMENOPAUSAL WOMEN WITH AND WITHOUT FALLS HISTORY	Pedro Aleixo	MovLab/ Universidade Lusófona de Humanidades e Tecnologias	Portugal
17:20 - 17:30	AS-0275	THE INFLUENCE OF FUNCTIONAL FITNESS LEVEL ON THE STRATEGIES ADOPTED BY THE ELDERLY TO ACCELERATE THE BODY UPWARDS DURING STAIR ASCENT	Vera Moniz-Pereira	Faculdade de Motricidade Humana - Universidade de Lisboa	Portugal
17:30 - 17:40	AS-0276	JOINT TORQUES DIFFER IN OLD AND YOUNG DURING MAXIMUM STEPPING TASK	Kathleen Bieryla	Bucknell University	United States

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:40 - 17:40		Abstract Session - Orthopaedic Implants 1 Chairs: William Taylor & Niklas König Location: Carron 2			
16:40 - 16:50	AS-0277	SMART KNEE PROSTHESIS FOR ORTHOPEDIC SURGERY: THE IMPLANTABLE AND WEARABLE MEASUREMENT SYSTEM	Kamiar Aminian	EPFL	Switzerland
16:50 - 17:00	AS-0278	TASK DEPENDENCY OF KNEE IMPLANT KINEMATICS BY MEANS OF VIDEOFLUOROSCOPY	Pascal Schütz	Institute for Biomechanics, ETH Zurich	Switzerland
17:00 - 17:10	AS-0280	J-CURVE AND SINGLE-RADIUS FEMORAL DESIGNS DURING DAILY ACTIVITIES. ARE THERE ANY BIOMECHANICAL DIFFERENCES?	Bernardo Innocenti	Université Libre de Bruxelles	Belgium
17:10 - 17:20	AS-0281	INVESTIGATION OF THE LOAD CONTRIBUTIONS OF THE ANTERIOR CRUCIATE LIGAMENT BUNDLES AGAINST DEGREE OF FREEDOM RELEASE	Ryo Takeda	Hokkaido University	Japan
17:20 - 17:30	AS-0282	THE RELATIONSHIP BETWEEN ALIGNMENT, FUNCTION AND LOADING IN TOTAL KNEE REPLACEMENT: IN-VIVO ANALYSIS OF A UNIQUE PATIENT POPULATION	David Williams	Cardiff University	United Kingdom
16:40 - 18:00		Abstract Session - Tissue: Bone Chairs: Ronald Zernicke & Philip Riches Location: Dochart 1			
16:40 - 16:50	AS-0283	RESIDUAL STRESS OF BOVINE FEMURS IN THREE AGE GROUPS	Satoshi Yamada	Hokkaido University	Japan
16:50 - 17:00	AS-0284	3D FINITE ELEMENT MODEL OF PROGRESSIVE DAMAGE AT MICRO-STRUCTURAL LEVEL OF CORTICAL BONE	Camila Arango	CIIM Universitat Politècnica de València	Spain
17:00 - 17:10	AS-0285	THE OSTEOGENIC INDEX OF FOUR COMMON CONTINUOUS AND INTERMITTENT EXERCISES USED IN OSTEOPOROSIS PREVENTION IN AN AT-RISK POPULATION	Gallin Montgomery	University of Hull	United Kingdom
17:10 - 17:20	AS-0286	A ROBUST METHOD TO IDENTIFY CANCELLOUS BONE BEHAVIOUR: FROM THE QUASI-STATIC TO INTERMEDIATE AND DYNAMIC STRAIN RATES.	Sébastien Laporte	Arts et Métiers Paristech	France
17:20 - 17:30	AS-0287	VALIDATION OF FINITE ELEMENT MODELS PREDICTING FRACTURE IN THE OSTEOPOROTIC TIBIA	Magnús Kjartan Gíslason	Reykjavik University	Iceland

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
17:30 - 17:40	AS-0288	MORPHOLOGICAL AND MECHANICAL PROPERTIES OF DMD AND TREATED MOUSE BONES	Noor Shafini Mohamad	University of Portsmouth	United Kingdom
17:40 - 17:50	AS-0289	THEORETICAL INFLUENCE OF AGE, RUNNING SPEED, AND RUNNING DISTANCE ON THE PROBABILITY OF SECOND METATARSAL STRESS FRACTURE	W. Brent Edwards	University of Calgary	Canada
17:50 - 18:00	AS-0290	STRESS-MICROSTRUCTURE RELATIONSHIP IN HUMERUS OF A GOAT	Ashwiji Mayya	Indian Institute of Technology - Madras	India
16:40 - 18:00	Abstract Session - Modelling & Computer Simulation 6 Chairs: Saikat Pal & Giulia Mantovani Location: Dochart 2				
16:40 - 16:50	AS-0291	THE EFFECT OF MALALIGNMENT ON KNEE JOINT CONTACT LOADING	Howard Hillstrom	Anglia Ruskin University	United Kingdom
16:50 - 17:00	AS-0292	CONTRIBUTION OF INDIVIDUAL SOURCES OF ERROR IN GYROSCOPE SIGNAL INTEGRATION FOR BODY SEGMENT ORIENTATION ESTIMATE DURING GAIT	Elena Bergamini	Università degli Studi di Roma Foro Italico	Italy
17:00 - 17:10	AS-0293	THE ROLE OF ALTERED PROXIMAL FEMORAL GEOMETRY IN IMPAIRED PELVIS STABILITY AND HIP CONTROL DURING CP GAIT: A SIMULATION STUDY	Ilse Jonkers	KU Leuven	Belgium
17:10 - 17:20	AS-0294	SOFT TISSUE COMPONENTS INCREASE STABILITY AND EFFECT THE KINEMATICS OF A BIPEDAL PASSIVE-DYNAMIC WALKER	Samuel Masters	The Pennsylvania State University	United States
17:20 - 17:30	AS-0295	HYBRID FORWARD INVERSE DYNAMICS FRAMEWORK FOR HUMAN MUSCULOSKELETAL SIMULATIONS	Mohammad S. Shourijeh	University of Ottawa	Canada
17:30 - 17:40	AS-0296	TIBIOFEMORAL CONTACT LOADING IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTED INDIVIDUALS AND HEALTHY CONTROLS DURING A RANGE OF GAIT TASKS.	Luca Modenese	Centre for Musculoskeletal Research	Australia
17:40 - 17:50	AS-0502	ELEMENT POSITION'S EFFECTS ON THE DEGRADATION PROCESS SIMULATION OF MAGNESIUM ALLOY STENTS IN FINITE ELEMENT ANALYSIS	Yuanming Gao	Key Laboratory for Biomechanics and Mechanobiology of Ministry of Education	China
17:50 - 18:00	AS-0503	A NEW COMPUTATIONAL METHOD TO PREDICT THE DEVELOPMENT OF OSTEOARTHRITIS WITHIN THE KNEE JOINT	Mika Mononen	University of Eastern Finland	Finland

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
07:00 - 18:00		Registration Opens Location: Hall 5			
08:20 - 09:20		Abstract Session - Sport 7 Chairs: Mark Robinson & Niels Nedergaard Location: Clyde Auditorium			
08:20 - 08:30	AS-0297	A SIMULATION MODEL OF ROTATIONAL FALLS IN EQUINE EVENTING	Martin Gary Charles Lewis	Nottingham Trent University	United Kingdom
08:30 - 08:40	AS-0298	EFFECTS OF DIFFERENT STRENGTH TRAINING PROGRAMS ON BIOMECHANICAL AND ENERGETIC PARAMETERS OF RUNNING IN TWO DIFFERENT INTENSITIES	Jorge Lopes Storniolo	University of Milan	Italy
08:40 - 08:50	AS-0299	PERFORMANCE OF VARIOUS NCAA FIELD HOCKEY BALLS	J.J. Trey Crisco	Brown University	United States
08:50 - 09:00	AS-0300	IMPACT OF BOXING PUNCHES ASSESSED WITH WEARABLE INERTIA SENSOR AND MOTION CAPTURING	Akinori Nagano	Ritsumeikan University	Japan
09:00 - 09:10	AS-0301	USING POSTURE TO BOOST TILT PRODUCTION WITH ASYMMETRIC ARM ACTIONS	Joanne Mikl	University of Sydney	Australia
09:10 - 09:20	AS-0302	PERFORMANCE ON THE FUNCTIONAL MOVEMENT SCREEN™ IS RELATED TO HOP PERFORMANCE, BUT NOT TO HIP OR KNEE STRENGTH IN ATHLETES	Nienke Willigenburg	The Ohio State University	United States
08:20 - 09:20		Abstract Session - Modelling & Computer Simulation 7 Chairs: Bart Koopman & Vincenzo Carbone Location: Gala			
08:20 - 08:30	AS-0303	WHICH JOINT TO ASSIST? SIMULATION-BASED GUIDELINES FOR REDUCING THE METABOLIC COST OF WALKING WITH HEAVY LOADS	Christopher Lee Dembia	Stanford University	United States
08:30 - 08:40	AS-0304	RUPTURE OF THE MUSCLE-TENDON COMPLEX IN TENSILE TEST USING DISCRETE ELEMENT MODELING	Anthony Roux	Institut de Biomécanique Humaine Georges Charpak	France
08:40 - 08:50	AS-0305	DYNAMIC PATIENT SPECIFIC FINITE ELEMENT BREAST MODEL FOR NODULE TRACKING DURING MAMMOGRAPHY	Silvia Pianigiani	Istituto Ortopedico Galeazzi	Italy
08:50 - 09:00	AS-0306	A MODIFIED VERSION OF THE THREE-COMPARTMENT MODEL TO PREDICT FATIGUE DURING SUBMAXIMAL TASKS WITH COMPLEX FORCE-TIME HISTORIES	Michael Sonne	McMaster University	Canada
09:00 - 09:10	AS-0307	A THEORETICAL AND COMPUTATIONAL FRAMEWORK FOR MODELING AND SIMULATING MUSCULOSKELETAL STIFFNESS DURING LOCOMOTION	Massimo Sartori	University Medical Center Goettingen	Germany
09:10 - 09:20	AS-0308	APPROXIMATION TO THE MATHEMATICAL MODELING OF ARTICULAR CONTACT BY APPLYING THE DIFFERENTIAL GEOMETRY /KINEMATIC (DG/K) METHOD.	David LEONARDO Maldonado Guzman	Universidad Nacional de Colombia/ Biomechanics Research Group	Colombia

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:20		Abstract Session - Motor Control 7 Chairs: John Challis & Samantha Winter Location: Forth			
08:20 - 08:30	AS-0332	COMPARISON OF FATIGUED AND NON-FATIGUED SQUATTING TRIALS USING MUSCLE SYNERGIES	Kenneth Smale	University of Ottawa	Canada
08:30 - 08:40	AS-0333	ON THE METHODOLOGICAL IMPLICATIONS OF USING THE MUSCLE SYNERGIES CONCEPT	Alessandro Santuz	Humboldt-Universität zu Berlin	Germany
08:40 - 08:50	AS-0334	INSTRUMENTED MEASUREMENT OF NEUROMECHANICAL ANKLE PARAMETERS IN CHILDREN WITH CEREBRAL PALSY	Lizeth Sloot	VU University Medical Center	Netherlands
08:50 - 09:00	AS-0335	THE EFFECT OF ANGULAR VELOCITY ON THE MUSCULAR ACTIVATION OF ELBOW FLEXORS BICEPS AND BRACHIORADIALIS	Catherine Disselhorst-Klug	Institute of Applied Medical Engineering, RWTH Aachen University	Germany
09:00 - 09:10	AS-0336	MUSCLE SYNERGIES AND MODULARITY IN THE RABBITS DURING NORMAL HOPPING AND JUMPING	Pavan Teja Devanaboyina	Griffith University	Australia
09:10 - 09:20	AS-0337	ANTICIPATED MUSCULAR SYNCHRONIZATION IN BAREFOOT CROSS-SLOPE WALKING	Anna S. Estermann	University of Basel	Switzerland
08:20 - 09:20		Abstract Session - Musculoskeletal 7 Chairs: Caroline Stewart Location: Seminar Suite			
08:20 - 08:30	AS-0314	CHARACTERIZATION OF FUNCTIONAL CHANGES IN THE APONEUROSSES OF THE RABBIT MEDIAL GASTROCNEMIUS DURING CONTRACTION IN-SITU	Christine Waters-Banker	University of Calgary	Canada
08:30 - 08:40	AS-0315	REGIONAL VARIATION IN FASCICLE STRAIN IS JOINT DEPENDENT IN A BI-ARTICULAR MUSCLE	Emma Hodson-Tole	Manchester Metropolitan University	United Kingdom
08:40 - 08:50	AS-0316	THE BIOMECHANICAL DEMANDS OF PROLONGED SITTING: AN EVALUATIVE ERGONOMIC COMPARISON OF TRUCK SEATS	Michelle Rae	University of New Brunswick	Canada
08:50 - 09:00	AS-0317	HOW COMPLEX SHOULD LOWER-LIMB JOINT MODELS BE FOR SUBJECT-SPECIFIC SIMULATIONS OF MOVEMENT?	Giordano Valente	Rizzoli Orthopaedic Institute	Italy
09:00 - 09:10	AS-0318	FASTER VS SLOWER RUNNING REDUCES TOTAL LOADS SUMMED ACROSS ALL STEPS USED TO RUN A STANDARD DISTANCE	Paul Devita	East Carolina University	United States
09:10 - 09:20	AS-0319	THE RELATIONSHIP BETWEEN MUSCLE MATERIAL PROPERTIES AND BODY MASS INDEX	Zachary J Domire	East Carolina University	United States

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:20		Abstract Session - Rehabilitation: Balance 1 Chairs: William Zev Rymer & Ilse Jonkers Location: Carron 1			
08:20 - 08:30	AS-0320	A FEEDBACK CONTROLLER TO PREDICT THE POSTURAL CONTROL IN RESPONSE TO A PERTURBATION	Maarten Afschrift	Ku Leuven	Belgium
08:30 - 08:40	AS-0321	ASSESSMENT OF POSTURAL STABILITY IN MINIATURE DACHSHUNDS USING PLANTAR PRESSURE SYSTEMS AND FORCE PLATES	Aliah F Shaheen	University of Surrey	United Kingdom
08:40 - 08:50	AS-0322	EFFECTS OF 45-MINUTE SOCCER MATCH SIMULATION ON BALANCE MECHANISMS FOR SINGLE-LEG HOP LANDING IN HEALTHY AND ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTED FEMALES	Sean Sankey	Liverpool John Moores University	United Kingdom
08:50 - 09:00	AS-0324	THE ROLE OF SOMATOSENSORY PROPRICEPTION IN STANDING AND HANDSTAND BALANCE	Glen Martin Blenkinsop	Loughborough University	United Kingdom
09:00 - 09:10	AS-0325	IS THERE A CORRELATION BETWEEN WOBBLE BOARD PERFORMANCE AND STATIC BALANCE PERFORMANCE?	Jamie Parkinson	Bournemouth University	United Kingdom
08:20 - 09:20		Abstract Session - Upper Body: Trunk & Spine 2 Chairs: Mark King & Sam Allen Location: Carron 2			
08:20 - 08:30	AS-0326	VARIABILITY OF TRUNK MUSCLE SYNERGIES DURING TARGET MATCHING TASKS	Bahman Nasserolelami	Trinity College Dublin	Ireland
08:30 - 08:40	AS-0327	EFFECTS OF VOLITIONAL SPINE STABILIZATION ON LIFTING TASK IN RECURRENT LOW BACK PAIN POPULATION	Ram Haddas	Texas Back Institute Research Foundation	United States
08:40 - 08:50	AS-0328	CAN WE OFFER BIOMECHANICAL SUPPORT FOR LARGER BREASTED WOMEN WITH BACK PAIN?	Ambreen Chohan	University of Central Lancashire	United Kingdom
08:50 - 09:00	AS-0329	THE GEOMETRIC CURVATURE OF THE SPINE DURING THE SIRSHASANA, THE YOGA'S HEADSTAND	Mario hebling Campos	Universidade Federal de Goiás	Brazil
09:00 - 09:10	AS-0330	REPEATABILITY OF THE QUICK-RELEASE METHOD FOR ESTIMATING ACTIVE STIFFNESS OF THE TRUNK	Tara Diesbourg	Queen's University	Canada
09:10 - 09:20	AS-0331	THE GEOMETRIC CURVATURE OF THE LUMBAR SPINE DURING SQUAT EXERCISES WITH AND WITHOUT KNEE MOVEMENT RESTRICTIONS	Mario hebling Campos	Universidade Federal de Goiás	Brazil

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
08:20 - 09:00		Abstract Session - Injury 1 Chairs: David Lloyd & Cyril J. Donnelly Location: Dochart 1			
08:20 - 08:30	AS-0309	CERVICAL SPINE LOADING DURING RUGBY MACHINE SCRUMMAGING	Grant Trewartha	University of Bath	United Kingdom
08:30 - 08:40	AS-0310	EFFICACY OF ISOLATED ANKLE STRENGTHENING AND FUNCTIONAL BALANCE TRAINING FOR REDUCING RUNNING INJURY RISK FACTORS IN NOVICE RUNNERS: A RANDOMIZED CONTROLLED TRIAL	Jennifer Baltich	University of Calgary	Canada
08:40 - 08:50	AS-0312	UTILITY OF A SHORT DURATION HIGH-INTENSITY EXERCISE PROTOCOL TO PROSPECTIVELY ASSESS BIOMECHANICAL AND MUSCULAR MARKERS OF ACL INJURY IN DYNAMIC SPORTS	Fransiska Bossuyt	Liverpool John Moores University	United Kingdom
08:50 - 09:00	AS-0313	CHRONIC ANKLE INSTABILITY ALTERS THE RELATIONSHIP BETWEEN EMG AMPLITUDE AND EVERSION PEAK FORCE OF THE FIBULARIS MUSCLES	Jay Hertel	University of Virginia	United States
08:20 - 09:20		Abstract Session - Orthopaedic Implants 2 Chairs: Sorin Siegler & Claudio Belvedere Location: Dochart 2			
08:20 - 08:30	AS-0338	A MULTIDIMENSIONAL MODEL OF CHANGES IN KNEE JOINT MECHANICS DURING GAIT AFTER TOTAL KNEE ARTHROPLASTY	Jereme Outerleys	Dalhousie University	Canada
08:30 - 08:40	AS-0339	NON-INVASIVE STIFFNESS ALTERATION DURING FRACTURE HEALING BY USE OF A NOVEL SHAPE MEMORY OSTEOSYNTHESIS.	Manuel Krämer	Hannover Medical School	Germany
08:40 - 08:50	AS-0340	THE INFLUENCE OF KINEMATIC CONDITIONS ON THE WEAR OF UHMWPE ARTICULATING AGAINST PEEK OPTIMA FEMORAL COMPONENTS	Raelene Marie Cowie	Institute of Medical and Biological Engineering	United Kingdom
08:50 - 09:00	AS-0341	WEAR ASSESSMENT OF TOTAL KNEE PROSTHESES USING HIGH DEMANDING DAILY ACTIVITY WAVEFORM	Saverio Affatato	Istituto Ortopedico Rizzoli	Italy
09:00 - 09:10	AS-0342	SURGICAL TRANSLATIONAL MALPOSITION AFFECTS THE LEVEL OF THE DYNAMIC MICROSEPARATION, THE SEVERITY OF EDGE LOADING AND THE WEAR IN TOTAL HIP REPLACEMENTS	Oscar O'Dwyer Lancaster-Jones	Institute of Medical and Biological Engineering	United Kingdom
09:10 - 09:20	AS-0343	EFFECT OF ANTIBIOTICS AUGMENTATION AND OPERATING TEMPERATURE ON IMPACT RESISTANCE OF ORTHOPEDIC BONE CEMENT	Maryam Kalantari	Amirkabir University of Technology	Iran, Islamic Republic Of
09:20 - 09:30		Transition 10 minutes			

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
09:30 - 10:20		Keynote Lecture - Tissue Mechanics Location: Clyde Auditorium			
		Tissue Mechanics	Hazel Screen	Queen Mary University of London	United Kingdom
			Gerard Ateshian	Columbia University	United States
10:20 - 11:00		Coffee Break Location: Hall 5			
11:00 - 12:00		Special Session - Tissue Chairs: Himadri Gupta Location: Clyde Auditorium			
11:00 - 11:10	SS-0057	THE NEUROMECHANICAL ADAPTATIONS TO ACHILLES TENDINOSIS	Yu-Jen Chang	University of Southern California	United States
11:10 - 11:20	SS-0058	ON THE USE OF IN VIVO EQUINE DATA TO INFORM A MECHANOSTATISTICAL MODEL OF CORTICAL BONE REMODELLING	Xiaoming Wang	University of Auckland	New Zealand
11:20 - 11:30	SS-0059	PIEZOELECTRICITY MODULATES MECHANICS OF COLLAGEN STRUCTURES	Cameron P Brown	University of Oxford	United Kingdom
11:30 - 11:40	SS-0060	EARLY IN SITU SITE-SPECIFIC CHANGES IN CHONDROCYTE BIOMECHANICAL RESPONSES DUE TO A PARTIAL MENISCECTOMY IN THE LATERAL COMPARTMENT OF THE MATURE RABBIT KNEE JOINT	Walter Herzog	University of Eastern Finland	Finland
11:40 - 11:50	SS-0061	THE EFFECT OF IMPACT LOAD ON THE MECHANICAL PROPERTIES OF CHONDROCYTES AND ITS ASSOCIATION WITH CYTOSKELETON COMPONENTS	Peter Vee Sin Lee	University of Melbourne	Australia
11:50 - 12:00	SS-0062	ANISOTROPIC NONLINEAR VISCOELASTIC MODELLING OF TRABECULAR BONE	Krishnagoud Manda	University of Edinburgh	United Kingdom
11:00 - 12:00		Special Session - Cardiovascular Chairs: Xiaoyu Luo Location: Gala			
11:00 - 11:15	SS-0064	THE FLUID-STRUCTURE MODELLING OF THE HUMAN MITRAL VALVE USING IMMERSED BOUNDARY/FINITE ELEMENT METHOD	Nan Qi	University of Glasgow	United Kingdom
11:15 - 11:30	SS-0065	NOVEL METHOD FOR 3D RECONSTRUCTION OF THE CHICK EMBRYO CARDIOVASCULAR ANATOMY FROM NON-INVASIVE ULTRASOUND SCANS FOR LONGITUDINAL STUDIES	Choon Hwai Yap	National University of Singapore	Singapore

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Wednesday 15th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:30 - 11:45	SS-0066	PARAMETER ESTIMATION OF HUMAN MYOCARDIUM USING IN VIVO CMR	Hao Gao	School of Mathematics and Statistics	United Kingdom
11:45 - 12:00	SS-0068	CREATING BOUNDARY CONDITIONS FOR NUMERICAL SIMULATIONS OF THE FONTAN CIRCULATION USING HEMODYNAMICS DATA OBTAINED WITH NON-SIMULTANEOUS MULTI-POINT MEASUREMENTS	Masanori Nakamura	Saitama University	Japan
11:00 - 12:00 Special Session - Predictive Modelling Chairs: Andrew Phillips Location: Forth					
11:00 - 11:20	SS-0070	PREDICTIVE MESOSCALE STRUCTURAL MODELLING OF BONE INFORMED BY MICROSCALE POROELASTIC ANALYSES	Claire charlotte Villette	Imperial College London	United Kingdom
11:20 - 11:40	SS-0071	REAL-TIME ESTIMATION OF KNEE JOINT CONTACT FORCES DURING WALKING USING OPENSIM AND A CALIBRATED EMG-DRIVEN NEUROMUSCULOSKELETAL MODEL	Claudio Pizzolato	Griffith University	Australia
11:40 - 12:00	SS-0072	THE INFLUENCE OF DIFFERENT LOAD CASES IN ORTHOTROPIC BONE ADAPTATION IN THE FEMUR	Diogo Miguel Gerales	Imperial College London	United Kingdom
11:00 - 12:00 Special Session - EDC Chairs: Andrea Hemmerich & Bart Koopman Location: Seminar Suite					

The goals of this event are to broaden our understanding of the needs of biomechanics communities in developing countries and to share knowledge and strengthen inter-professional, global collaboration with researchers, clinicians, educators, and equipment vendors.

In addition to a brief overview of the ISB Economically Developing Countries (EDC) Programme, we will hold the ISB's inaugural Three-Minute EDC MicroGrant Competition (3mEDCmG). ISB-EDC members and collaborators will have three minutes to propose their innovative solutions to biomechanics-related challenges in their local communities. To enter the competition, please register with the EDC Project Officers by July 3rd, 2015.

The Meet & Greet event will continue into the lunch hour. We encourage presenters to discuss their projects with interested members of the audience during this time. Winner(s) of the 3mEDCmG competition will be announced during the lunch break following this session.

To learn more about the ISB's EDC programme, please visit the <http://isbweb.org/econ-dev-countries/edc-information>.

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Wednesday 15th July

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:00 - 12:00		Special Session - FEBio Chairs: Gerard Ateshian Location: Carron 1			
		<p>This workshop will give an overview of the FEBio software suite (www.febio.org), and provide an opportunity for participants to learn how to use the newest features and capabilities. The FEBio software suite is a set of software tools for nonlinear finite element analysis in biomechanics and biophysics. The software was originally developed by personnel in the Musculoskeletal Research Laboratories at the University of Utah. Currently, development, distribution and support are handled as a joint effort between the University of Utah and the Musculoskeletal Biomechanics Laboratory at Columbia University. FEBio is specifically focuses on solving nonlinear large deformation problems in biosolid mechanics, including nonlinear elasticity and viscoelasticity, multiphase mechanics, interstitial growth mechanics, rigid body mechanics, and heat conduction.</p> <p>FEBio and its source code are freely available for non-commercial use, including academic research and teaching applications.</p>			
11:00 - 12:00		Special Session - Statistical Parametric Mapping: Hypothesis Testing for 1D Curves Chairs: Todd Pataky, Jos Vanrenterghem & Mark Robinson Location: Carron 2			
11:00 - 11:15		SPM PRINCIPLES	Jos Vanrenterghem	Liverpool John Moores University, UK	United Kingdom
11:15 - 11:30		SPM DATA ANALYSIS FOR DUMMIES	Mark Robinson	Liverpool John Moores University, UK	United Kingdom
11:30 - 11:45		SPM vs. PCA, FDA AND OTHER STATISTICAL METHODSs	Todd Pataky	Shinshu University, Japan	Japan
11:45 - 12:00		OPEN DISCUSSION			
11:00 - 12:00		Special Session - Computer Assisted Orthopaedic Surgery Chairs: Jon Clarke & Mark Blyth Location: Dochart 2			
11:00 - 11:10	SS-0027	A NOVEL COMPARISON OF ARTIFICIAL INTELLIGENCE METHODS FOR DIAGNOSING KNEE OSTEOARTHRITIS	Luca Parisi	Cardiff University	United Kingdom
11:10 - 11:20	SS-0074	AUGMENTED REALITY: SHOWING THE WAY IN ORTHOPAEDIC SURGERY	Nicholas Smith	University of Strathclyde	United Kingdom
11:20 - 11:30	SS-0075	IN-VIVO PATELLAR TENDON TRACKING IN NAVIGATED TOTAL KNEE ARTHROPLASTY	Claudio Belvedere	Istituto Ortopedico Rizzoli	Italy
11:30 - 12:00		COMPUTER ASSISTED KNEE REPLACEMENT SURGERY: IS THE MOVEMENT MAINSTREAM?	Frederic Picard	Golden Jubilee National Hospital	United Kingdom
12:00 - 13:30		Lunch Break Location: Hall 5			

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
13:30 - 14:20		Keynote Lecture - Motor Control Location: Clyde Auditorium			
		Motor Control	Carlo De Luca	Boston University	United States
			Dario Farina	Georg-August University	Germany
14:20 - 14:30		Transition 10 minutes			
14:30 - 15:30		Abstract Session - Motion Analysis 7 Chairs: Alberto Leardini & Paolo Caravaggi Location: Clyde Auditorium			
14:30 - 14:40	AS-0344	EXTRACTION OF PROTECTIVE REACTION IN CASES OF INDOOR FALL BEHAVIORS USING CHANGE POINT DETECTION METHODS	Masato Ito	Tokyo Institute of Technology	Japan
14:40 - 14:50	AS-0345	ASSESSMENT OF A RIB-BASED TECHNIQUE TO DEFINE THE THORACIC COORDINATE SYSTEM FOR USE WITH BI-PLANE X-RAY IMAGING	Joshua W Giles	Imperial College London	United Kingdom
14:50 - 15:00	AS-0346	VALIDITY OF THE NEW KINECT-SENSOR IN MEASURING UPPER BODY KINEMATICS	Eveline Graf	Zurich University of Applied Sciences	Switzerland
15:00 - 15:10	AS-0347	VELOCITY PROFILES OF SPATIO-TEMPORAL GAIT PARAMETERS IN LOW BACK PAIN PATIENTS: COMPARISON OF TWO REGRESSION METHODS	Clara Leyh	Université Libre de Bruxelles	Belgium
15:10 - 15:20	AS-0348	TURNING KINEMATICS IN THE ASSESSMENT OF GAIT FOR CHILDREN WITH CEREBRAL PALSY	Philippe C Dixon	University of Oxford	Canada
15:20 - 15:30	AS-0349	EFFECT OF A COMPRESSION GARMENT ON KINEMATICS OF JUMP-LANDING TASKS IN FEMALE RECREATIONAL ATHLETES AND PHYSICALLY ACTIVE WOMEN	Morgana Alves de Brito	Federal University of Santa Maria	Brazil
14:30 - 15:30		Abstract Session - Musculoskeletal 8 Chairs: Hazel Screen & Katherine Boyer Location: Gala			
14:30 - 14:40	AS-0350	A THREE-YEAR LONGITUDINAL STUDY OF BIOMECHANICAL ALTERATIONS IN KNEE OSTEOARTHRITIS AND ASYMPTOMATIC CONTROLS	Dianne M Ikeda	Dalhousie University	Canada
14:40 - 14:50	AS-0351	PROGRESS AND BENEFITS OF SUBJECT SPECIFIC MUSCULOSKELETAL MODELING OF THE HAND	Clint Hansen	UMR 7338 : BioMécanique et BioIngénierie (BMBI)	France
14:50 - 15:00	AS-0352	SUBJECT-SPECIFIC MODELLING OF THE FOOT INTEGRATING FINITE ELEMENT MODELLING, GAIT ANALYSIS AND OPENSIM: PROOF OF CONCEPT IN DIABETIC NEUROPATHIC SUBJECTS	Zimi Sawacha	University of Padova	Italy

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
15:00 - 15:10	AS-0353	3-D PRESSURE-TIME DISTRIBUTION DURING PELVIC FLOOR CONTRACTION AND VALSALVA MANEUVER IN CONTINENT WOMEN	Licia pazzoto Cacciari	Universidade de Sao Paulo	Brazil
15:10 - 15:20	AS-0354	RELATIONSHIP BETWEEN LOADING INTENSITY AND DOSE OF PHYSICAL ACTIVITY WITH AGE AND BMI WHEN RECORDED BY ACCELEROMETRY AND QUESTIONNAIRE: POTENTIAL IMPLICATIONS FOR BONE HEALTH	Tina Smith	University of Wolverhampton	United Kingdom
15:20 - 15:30	AS-0355	PASSIVE ELASTIC PROPERTIES OF HIP EXTENSORS IN SUBJECTS WITH LOW BACK PAIN	Mark Hines	London South Bank University	United Kingdom
14:30 - 15:30 Abstract Session - Sport 8 Chairs: Matthew Pain & Laura-Anne Furlong Location: Forth					
14:30 - 14:40	AS-0356	WHOLE-BODY ENERGY TRANSMISSION EFFICIENCY IN KICKING A FOOTBALL	Shoma Kudo	Ritsumeikan University	Japan
14:40 - 14:50	AS-0357	HOW DOES PLAYING SURFACE AFFECT TIBIAL ACCELERATION DURING FAST BOWLING IN CRICKET?	Billy Senington	Bournemouth University	United Kingdom
14:50 - 15:00	AS-0358	HOW DOES THE SHOOTING MECHANICS CHANGE AFTER 3 MONTHS OF SHOOTING PRACTICES IN YOUNG BASKETBALL PLAYERS?	Yuki Inaba	Japan Institute of Sports Sciences	Japan
15:00 - 15:10	AS-0359	BIOMECHANICAL AND GENDER DIFFERENCES BETWEEN SINGLE-LEGGED AND TWO-LEGGED RUNNING VERTICAL JUMPS	Masanori Sakaguchi	University of Calgary	Canada
15:10 - 15:20	AS-0360	THE DIFFERENCES OF THE KNEE JOINT KINEMATICS AND KINETICS BETWEEN VERTICAL AND ROTATIONAL JUMP LANDING	Daisuke Bai	Heisei Memorial hospital	Japan
15:20 - 15:30	AS-0361	EFFECT OF BRA STRAP STIFFNESS ON BREAST KINEMATICS AND PERCEIVED BRA PERFORMANCE DURING TREADMILL RUNNING	Steph Forrester	Loughborough University	United Kingdom
14:30 - 15:30 Abstract Session - Lower Body: Lower Limb 3 Chairs: David Lloyd & Chris Carty Location: Seminar Suite					
14:30 - 14:40	AS-0363	DOES SELECTION OF STAIR GAIT CYCLES AFFECT RESULTING LOWER LIMB BIOMECHANICS?	Paul Robert Biggs	Cardiff University	United Kingdom
14:40 - 14:50	AS-0364	ACHILLES TENDON MOMENT ARM GEOMETRY IN TYPICALLY DEVELOPING CHILDREN	Cyril Donnelly	University of Western Australia	Singapore
14:50 - 15:00	AS-0365	EFFECT OF THE FOOT STRIKE PATTERN ADOPTED DURING AN INTENSE DOWNHILL TRAIL RUNNING BOUT ON LOWER LIMB MUSCLES ACTIVITY AND NEUROMUSCULAR FUNCTION	Marlène Giandolini	University of Savoie	France

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
15:00 - 15:10	AS-0366	ASSESSING THE EFFECTIVENESS OF FIELD-BASED ACL INJURY RISK SCREENING METHODS IN IDENTIFYING HIGH-RISK LANDING PATTERNS DURING A SPORT-SPECIFIC TASK	Aaron Samuel Fox	Deakin University	Australia
15:10 - 15:20	AS-0367	BIOMECHANICAL CLASSIFICATION OF GAIT FOLLOWING TOTAL KNEE REPLACEMENT - COULD FUNCTIONAL RECOVERY HAVE BEEN PREDICTED?	Paul Robert Biggs	Cardiff University	United Kingdom
15:20 - 15:30	AS-0368	BIOMECHANICAL EFFECTS OF TAPING AND BRACING ON KNEE JOINT STABILITY IN INDIVIDUALS WITH AND WITHOUT PATELLOFEMORAL PAIN.	Jim Richards	University of Central Lancashire	United Kingdom
14:30 - 15:30	Abstract Session - Modelling & Computer Simulation 8 Chairs: Philip Riches & Nicholas Smith Location: Carron 1				
14:30 - 14:40	AS-0369	ULTRASOUND BASED SUBJECT SPECIFIC MODELLING OF THE HEEL	Sara Behforootan	Staffordshire University	United Kingdom
14:40 - 14:50	AS-0370	A NEW 3D RECONSTRUCTION METHOD OF THE BODY ENVELOPE FROM BIPLANAR X-RAYS	Agathe Nérot	IFSTTAR	France
14:50 - 15:00	AS-0371	AN EFFICIENT ALGORITHM TO ESTIMATE PASSIVE FORCES IN SARCOMERES UNDER LENGTH CONTROL CONDITIONS	Gudrun Schappacher-Tilp	University of Graz	Austria
15:00 - 15:10	AS-0372	USING FEA TO DETERMINE THE SAFE CORRECTION ZONE FOR HIGH TIBIAL OSTEOTOMIES	Jennifer L Boyd	University of Oxford	United Kingdom
15:10 - 15:20	AS-0373	ACCURACY OF THE KNEE AXIS ORIENTATION AGAINST EOS, A STANDING BI-PLANE X-RAY SYSTEM	Morgan Sangeux	The Royal Children's Hospital	Australia
15:20 - 15:30	AS-0374	OBTAINING QUICK RUNNING MACROSCALE BEAM MODELS OF WHOLE BONES FROM HIGHER RESOLUTION STRUCTURAL REPRESENTATIONS	Anantharaman Gopalakrishnan	Imperial College London	United Kingdom
14:30 - 15:30	Abstract Session - Rehabilitation: Balance 2 Chairs: Zimi Sawacha & Alessandra Scarton Location: Carron 2				
14:30 - 14:40	AS-0375	THE ASSESSMENT OF BALANCE IN DIFFERENT POSTURES	Glen Martin Blenkinsop	Loughborough University	United Kingdom
14:40 - 14:50	AS-0376	INCREASED ACTIVATION AMPLITUDE LEVELS OF GLUTEUS MEDIUS IN WOMEN DURING ISOMETRIC AND DYNAMIC CONDITIONS FOLLOWING A 4-WEEK PROTOCOL OF LOW LOAD ECCENTRIC EXERCISES	Alexandre Carvalho Barbosa	Federal University of Juiz de Fora	Brazil
14:50 - 15:00	AS-0377	A NEW INVARIANT PARAMETER CHARACTERIZING THE POSTURAL ALIGNMENT OF YOUNG HEALTHY ADULTS	Celia Amabile	Arts et Métiers ParisTech	France

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
15:00 - 15:10	AS-0378	A NUMERICAL MODEL TO PREDICT THE 1-STEP BALANCE RECOVERY THRESHOLD AND REACTIONS FOR YOUNG AND ELDERLY	Pascal Vallee	IFSTTAR	France
15:10 - 15:20	AS-0379	EFFECTS OF TACTILE SURFACE ON OLD ADULTS' GAIT AND PERCEPTION OF SLIPPERINESS IN A SIMULATED WINTER ENVIRONMENT	Yue Li	Toronto Rehabilitation Institute - University Health Network	Canada
15:20 - 15:30	AS-0380	EFFECT OF HANDRAIL HEIGHT ON THE TIMING AND KINEMATICS OF REACH-TO-GRASP BALANCE RECOVERY REACTIONS DURING LEVEL-GROUND WALKING	Vicki Komisar	University of Toronto	Canada
08:20 - 09:20 Abstract Session - Motor Control 8 Chairs: Yasin Dhafer & Marije de Bruin Location: Dochart 1					
14:30 - 14:40	AS-0381	TIBIALIS ANTERIOR AND VASTUS LATERALIS CONDUCTION VELOCITY DURING ISOMETRIC CONTRACTION AT LOW LEVEL FORCE IN DIABETIC INDIVIDUALS WITH DIFFERENT STAGES OF NEUROPATHY	Eneida Yuri Suda	University of São Paulo - School of Medicine	Brazil
14:40 - 14:50	AS-0382	SEX-RELATED DIFFERENCES IN DORSIFLEXOR RATE OF TORQUE DEVELOPMENT	J Greig Inglis	Brock University	Canada
14:50 - 15:00	AS-0383	HYPOTHESIS AND VERIFICATION ON COM DRIVEN CONTROL DYNAMICS DURING GAIT IN CHILDREN.	Maria Cristina Bisi	University of Bologna	Italy
15:00 - 15:10	AS-0384	COMPARISON OF THE ACTIVITIES MEASURED AT THREE ELECTRODE LOCATIONS ON EQUINE GLUTEUS MEDIUS MUSCLE IN WALK AND TROT	Rebeka Zsoldos	University of Natural Resources and Life Sciences Vienna	Austria
15:10 - 15:20	AS-0386	COMPLEXITY OF ISOMETRIC FORCE PRODUCTION IS ASSOCIATED WITH TIME TO ACHIEVE STEADY STATE WHEN MOVING TO A NEW FORCE LEVEL	Samantha L. Winter	University of Kent	United Kingdom
14:30 - 15:30 Abstract Session - Medical Devices Chairs: Michel Mesnard & Bart Koopman Location: Dochart 2					
14:30 - 14:40	AS-0387	ASSESSMENT OF AN INNOVATIVE COLLAR DESIGNED FOR PEOPLE AFFECTED BY NECK WEAKNESS	Silvia Pancani	University of Sheffield	United Kingdom
14:40 - 14:50	AS-0388	ASSESSMENT OF ANTEROPOSTERIOR (AP) KNEE JOINT LAXITY USING NON-INVASIVE NAVIGATION IN HEALTHY VOLUNTEERS	Roberto Jose Alho	Golden Jubilee National Hospital	United Kingdom
14:50 - 15:00	AS-0389	A DESIGN PROCESS OF AN ARTICULAR JOINT PROSTHESIS	Michel Mesnard	Université de Bordeaux	France

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
15:00 - 15:10	AS-0390	AN EXPERIMENTAL STUDY OF MECHANICAL BEHAVIOR OF POLY (LACTIC ACID) FOR STENT APPLICATION	Tianyang Qiu	Loughborough University	United Kingdom
15:10 - 15:20	AS-0391	BIOMECHANICAL FUNCTION OF A PREGNANCY COMPRESSION BELT. THREE-DIMENSIONAL HIP JOINT KINEMATICS: A CASE STUDY	Marilyn Lock	University of Adelaide	Australia
15:30 - 16:00 Coffee Break Location: Hall 5					
16:00 - 17:20 David Winter Young Investigator Awards Session Chair: Kelsey Collins & Catherine Disselhorst-Klug Location: Clyde Auditorium					
16:00 - 16:15	SS-0063	SUPERCRITICAL CARBON DIOXIDE DECELLULARISATION OF PERICARDIUM: MECHANICAL AND STRUCTURAL CHARACTERISATION FOR APPLICATIONS IN CARDIOVASCULAR SURGERY	Frank Ruben Halfwerk	University of Twente	Netherlands
16:15 - 16:30	AS-0085	ALTERED MUSCLE SYNERGIES DURING GAIT IN CEREBRAL PALSY ARE NOT DUE TO ALTERED KINEMATICS OR KINETICS	Katherine M Steele	University of Washington	United States
16:30 - 16:45	SS-0086	LARGER ISOFORMS OF TITIN ARE ASSOCIATED WITH INCREASED SARCOMERE LENGTHS AND SEVERITY OF HIP DISPLACEMENT IN CEREBRAL PALSY.	Kelly A Larkin-Kaiser	University of Calgary	Canada
16:45 - 17:00	AS-0009	IMPLEMENTATION AND IMPORTANCE OF THE SUBJECT-SPECIFIC DISTRIBUTION OF FIXED CHARGE DENSITY OF ARTICULAR CARTILAGE IN THE KNEE	Lasse P. Räsänen	University of Eastern Finland	Finland
17:00 - 17:15	SS-0069	REAL-TIME VIRTUAL MUSCLE CONTROL FOR POWERED PROSTHESES AND EXOSKELETONS	Sandra K. Hnat	Cleveland State University	United States
16:00 - 17:20 Abstract Session - Tissue: Connective Tissue Chairs: Hazel Screen & Laura Slane Location: Gala					
16:00 - 16:10	AS-0392	DEFORMATION PATTERNS OF CRACKED ARTICULAR CARTILAGE UNDER COMPRESSION	Yasir Al-Saffar	University of Malaya	Canada
16:10 - 16:20	AS-0393	IMAGE-BASED FINITE ELEMENT MODELING OF THE ACHILLES TENDON: THE ROLE OF FASCICLE MORPHOLOGY AND MUSCLE FORCES IN NON-UNIFORM TENDON DISPLACEMENTS	Geoffrey Handsfield	University of Virginia	United States
16:20 - 16:30	AS-0394	FATIGUE DAMAGE TO POSITIONAL AND ENERGY-STORING TENDONS AT THE NANOSCALE LEVEL OF THE COLLAGEN FIBRIL	Samuel P. Veres	Saint Mary's University	Canada

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:30 - 16:40	AS-0395	BIOMECHANICAL PROPERTIES IN A TENDON PATHOLOGY MODEL: A ROLE FOR PROTEOGLYCANS	Elizabeth Clarke	Kolling Institute of Medical Research	Australia
16:40 - 16:50	AS-0396	A VISUAL ASSESSMENT OF HOW LOADING RATE AFFECTS THE FAILURE MECHANICS OF TYPE I COLLAGEN FIBRILS	Samuel P. Veres	Saint Mary's University	Canada
16:50 - 17:00	AS-0397	DYNAMIC MECHANICAL PROPERTIES OF THE BOVINE PERIODONTAL LIGAMENT	Ata Hashemi	Amirkabir University of Technology	Iran, Islamic Republic Of
17:00 - 17:10	AS-0398	MEASUREMENT OF THE EFFECTS OF 'KINESIO-TAPING' ON IN VIVO THORACOLUMBAR FASCIA MOVEMENT USING 3D ULTRASOUND: METHODOLOGICAL DEVELOPMENT AND RELIABILITY	Shihfan Jack Tu	Queen Mary, University of London	United Kingdom
17:10 - 17:20	AS-0399	DIFFERENCE IN TRAINED VS. UNTRAINED ON THE MATERIAL PROPERTIES OF SKELETAL MUSCLE	Erica A Bell	East Carolina University	United States
16:00 - 17:20 Abstract Session - Motion Analysis 8 Chairs: Marcus Pandy & Elyse Passmore Location: Forth					
16:00 - 16:10	AS-0401	THE PROBABILITY OF FINDING 0D STATISTICAL SIGNIFICANCE IN 1D TRAJECTORY ANALYSIS	Todd Pataky	Shinshu University	Japan
16:10 - 16:20	AS-0402	WHOLE BODY CENTER OF MASS VELOCITY AND DIRECTION DURING CHANGE OF DIRECTION TASK AT MAXIMUM SPEED	Daichi Yamashita	Japan Institute of Sports Sciences	Japan
16:20 - 16:30	AS-0403	MULTI-BODY OPTIMIZATION WITH KNEE JOINT CONSTRAINTS BASED ON THE STIFFNESS MATRIX	Vincent Richard	Université de Lyon – IFSTTAR	France
16:30 - 16:40	AS-0404	ASSESSMENT OF THE AGREEMENT BETWEEN THE SPATIO-TEMPORAL WALKING GAIT PARAMETERS FROM THE OPTOGAIT PHOTOELECTRIC SYSTEM AND THOSE FROM FORCE PLATES AND MOTION CAPTURE	Aoife Healy	Staffordshire University	United Kingdom
16:40 - 16:50	AS-0405	THE ROLE OF LOWER LIMB JOINTS IN ENERGY ABSORPTION DURING DESCENT OF STAIRS AND SLOPES	Helene Pillet	Arts et Metiers ParisTech	France
16:50 - 17:00	AS-0406	HIGHER FREQUENCY CHARACTERISTICS OF INITIAL LOADING DURING DROP LANDINGS CAN BE MASKED BY SOFT TISSUE VIBRATION ARTEFACT	Mark John Lake	Liverpool John Moores University	United Kingdom
17:00 - 17:10	AS-0407	AGE AND GENDER INFLUENCE BICYCLE (DIS)MOUNTING KINEMATICS	Rosemary Dubbeldam	Roessingh Research and Development	Netherlands
17:10 - 17:20	AS-0408	PERFORMANCE OPTIMIZATION AND ERROR ESTIMATION OF AN OPTICAL MOTION CAPTURE SETUP FOR MEASURING SMALL DISPLACEMENTS ON THE FOOT WITHIN A FULL BODY MEASUREMENT VOLUME	Patric Eichelberger	Bern University of Applied Sciences	Switzerland

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:00 - 17:20 Abstract Session - Lower Body: Lower Limb 4 Chairs: Toni Arndt & Alison Gruber Location: Seminar Suite					
16:00 - 16:10	AS-0409	UNILATERAL FOOT PRONATION INCREASES IPSILATERAL SHANK INTERNAL ROTATION AND CONTRALATERAL KNEE ADDUCTION MOMENT OF INDIVIDUALS WITH KNEE OSTEOARTHRITIS DURING THE STANCE PHASE OF GAIT	Renan Resende	Universidade Federal dos Vales do Jequitinhonha e Mucuri	Brazil
16:10 - 16:20	AS-0410	THE RELATION OF LEG STIFFNESS ON PERFORMANCE IN CUTTING MANEUVERS	Sina David	Deutsche Sporthochschule Köln	Germany
16:20 - 16:30	AS-0411	RELATION BETWEEN PREOPERATIVELY DETERMINED STATIC LEG AXIS AND DYNAMIC KNEE ADDUCTION MOMENTS IN WALKING AND STAIR CLIMBING	Johannes Funken	German Sport University Cologne	Germany
16:30 - 16:40	AS-0412	BIOMECHANICAL EVALUATION OF A MICROPROCESSOR CONTROLLED PROSTHETIC KNEE MECHANISM	Anthony Crimin	University of Strathclyde	United Kingdom
16:40 - 16:50	AS-0413	THE INTER-DAY MEASUREMENT CONSISTENCY AND PRECISION OF HAMSTRING AND LEG MUSCULO-ARTICULAR STIFFNESS	Justin Phillip Waxman	University of North Carolina at Greensboro	United States
16:50 - 17:00	AS-0414	THE RELATIONSHIP BETWEEN PERFORMANCE ON A SINGLE-LEG SQUAT AND LEAP LANDING TASK: MOVING TOWARDS A NETBALL-SPECIFIC ACL INJURY RISK SCREENING METHOD	Aaron Samuel Fox	Deakin University	Australia
17:00 - 17:10	AS-0416	SAGITTAL PLANE LANDING KINEMATICS IN ATHLETES WITH AND WITHOUT PATELLAR TENDINOPATHY	Rodrigo Scattone Silva	Federal University of São Carlos (UFSCar)	Brazil
16:00 - 17:00 Abstract Session - Upper Body: Trunk & Spine 3 Chairs: Zdenka Sant & Andre Attard Location: Carron 1					
16:00 - 16:10	AS-0417	18F-NAF PET-CT: A MARKER FOR EARLY DETECTION OF BONE DEGENERATION AND REMODELLING IN THE LOWER LUMBAR SPINE	Justin Fernandez	University of Auckland	New Zealand
16:10 - 16:20	AS-0418	SAGITTAL PLANE SPINE KINEMATICS DURING STOP-JUMP OF INDIVIDUALS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS POST SURGICAL FUSION OF SPINE.	Rumit Singh Kakar	Ithaca College	United States
16:20 - 16:30	AS-0419	ACTIVE TRUNK EXERCISES REQUIRE MORE MUSCLE ACTIVITY IN MATURE THAN IN YOUNG ADULTS	Stephanie Valentin	University of Veterinary Medicine Vienna	Austria
16:30 - 16:40	AS-0420	BOTULINUM TOXIN TYPE-A INDUCED PARASPINAL MUSCLE WEAKNESS CAUSED LUMBAR SPINE DEGENERATION	Sang Kuy Han	Korea Institute of Industrial Technology	Korea, Republic Of

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:40 - 16:50	AS-0421	A MULTI-OBJECTIVE OPTIMIZATION MODEL FOR ASSESSING SPINAL CURVATURE IN SCOLIOSIS	Daniel H. Chow	The Hong Kong Institute of Education	Hong Kong
16:50 - 17:00	AS-0422	LOWER EXTREMITY KINEMATICS DURING STOP-JUMP OF INDIVIDUALS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS AFTER SURGICAL FUSION OF SPINE.	Rumit Singh Kakar	Ithaca College	United States
16:00 - 17:20	Abstract Session - Imaging 1 Chairs: Neil Roberts & J.J. Trey Crisco Location: Carron 2				
16:00 - 16:10	AS-0423	MECHANICAL PROPERTIES OF THE ACHILLES DO NOT RELATE TO STRENGTH OR TENDON SIZE	Stephen M Suydam	University of Delaware	United States
16:10 - 16:20	AS-0424	MEASUREMENT AND RECONSTRUCTION OF THE GEOMETRY OF THE DISTAL FEMUR USING ROBOTIC 3D ULTRASOUND	William Campbell Kerr	University of Strathclyde	United Kingdom
16:20 - 16:30	AS-0425	THE CHANGING MICROARCHITECTURE OF TRABECULAR BONE WITH HIGH STRAIN	Robert Wallace	University of Edinburgh	United Kingdom
16:30 - 16:40	AS-0426	MRI AND DTI ANALYSES COMBINED PROVIDE A POWERFUL TOOL FOR QUANTIFYING DEFORMATION ALONG HUMAN MUSCLE FIBERS IN VIVO	Uluc Pamuk	Bogazici University	Turkey
16:40 - 16:50	AS-0427	VALIDITY AND RELIABILITY OF ADULT PELVIC 3D RECONSTRUCTIONS USING LOW DOSE BIPLANAR X-RAYS	Ayman Assi	School of Medicine, University of Saint-Joseph	Lebanon
16:50 - 17:00	AS-0428	IN VIVO MEASUREMENT OF BICEPS BRACHII AND TRICEPS BRACHII FASCICLE LENGTHS USING EXTENDED FIELD-OF-VIEW ULTRASOUND	Christa Nelson	Northwestern University	United States
17:00 - 17:10	AS-0429	COMPARISON OF 2-D AND 3-D DIRECT INVERSION ALGORITHMS IN MR-ELASTOGRAPHY FOR DIFFERENT GEOMETRICAL STRUCTURES	Lyam Hollis	University of Edinburgh	United Kingdom
17:10 - 17:20	AS-0430	A NOVEL APPROACH TO VISUALISE THE MORPHOLOGY OF PERICELLULAR MATRIX IN LIVE CARTILAGE	Eng Kuan Moo	University of Calgary	Canada
16:00 - 17:20	Abstract Session - Rehabilitation: Balance 3 Chairs: Heiner Baur & Lucie Risch Location: Dochart 1				
16:00 - 16:10	AS-0431	IMPAIRED STATIC BALANCE IN CHILDREN WITH DEVELOPMENTAL COORDINATION DISORDER MAY BE EXPLAINED BY IMPAIRED CENTRAL AND PERIPHERAL CONTROL MECHANISMS	Merete Brink Speedtsberg	University of Copenhagen	Denmark

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:10 - 16:20	AS-0432	A MODEL FOR ROBUSTNESS OF STANDING POSTURE BASED ON JOINT COORDINATION, JOINT VISCOELASTICITY AND INTERMITTENT CONTROL STRATEGY	Hiroko Tanabe	Kyoto University	Japan
16:20 - 16:30	AS-0433	TEST-RETEST RELIABILITY OF POSTURAL CONTROL EVALUATED IN THE AQUATIC ENVIRONMENT USING A FORCE PLATFORM	João Pedro Batista Junior	Laboratory of Biomechanics and Clinical Epidemiology, Universidade Estadual de Londrina	Brazil
16:30 - 16:40	AS-0434	THE RELATIONSHIP BETWEEN MUSCLE QUALITY AND POSTURAL CONTROL IN OLDER ADULTS.	Gregory Stephen Walsh	Aberystwyth University	United Kingdom
16:40 - 16:50	AS-0435	BALLET DANCERS X PHYSICAL EDUCATION STUDENTS CENTER OF PRESSURE SWAYS: EFFECTS OF VISION AND FOOT POSITION	Marcus Fraga Vieira	Universidade Federal de Goiás	Brazil
16:50 - 17:00	AS-0436	IMPORTANCE OF BIARTICULAR LEG MUSCLES FOR BALANCE DURING UPRIGHT HUMAN STANDING.	Dario Tokur	TU Darmstadt	Germany
17:00 - 17:10	AS-0437	RADIAL DISPLACEMENT ASSESSMENT OF BILATERAL SKELETAL MUSCLE ASYMMETRY	Lewis James Macgregor	University of Stirling	United Kingdom
17:10 - 17:20	AS-0438	LEARNING TO BALANCE ON ONE LEG	Jaap Van Dieën	VU University Amsterdam	Netherlands
16:00 - 17:20		Abstract Session - Cardiovascular 2 Chairs: Yap Choon Hwai & Hadi Mohammadi Location: Dochart 2			
16:00 - 16:10	AS-0440	MORPHOLOGICAL AND FLUID MECHANICS CHANGES TO THE CAROTID SIPHON OBSERVED IN MOYAMOYA DISEASE	Choon Hwai Yap	National University of Singapore	Singapore
16:10 - 16:20	AS-0442	A NOVEL COMPUTATIONAL MODEL FOR THE HEMODYNAMICS OF BILEAFLET MECHANICAL VALVES IN THE OPENING PHASE	Mehdi Jahandardoost	University of British Columbia	Canada
16:20 - 16:30	AS-0442	RELATION BETWEEN RIB KINEMATICS AND LUNG VOLUMES: COMPARISON BETWEEN NORMAL SUBJECTS AND CYSTIC FIBROSIS PATIENTS	Benoit Beyer	Université Libre de Bruxelles ULB	Belgium
16:30 - 16:40	AS-0443	MODELLING TEAR PROPAGATION IN THE ARTERIAL WALL	Lei Wang	University of Glasgow	United Kingdom
16:40 - 16:50	AS-0444	ANEURYSM FORMATION: THE ROLE OF SAMPLE THICKNESS IN THE EXPERIMENTAL DATA COLLECTION	Serena de Gelidi	University of Portsmouth	United Kingdom
16:50 - 17:00	AS-0445	ELLIPTIC ST. JUDE BILEAFLET MECHANICAL HEART VALVES	Hadi Mohammadi	University of British Columbia	Canada

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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
07:00 - 16:00		Registration Opens Location: Hall 5			
08:20 - 09:20		Abstract Session - Sport 9 Chairs: Kathy Simpson & Runit Singh Kakar Location: Clyde Auditorium			
08:20 - 08:30	AS-0446	ANATOMY OF A 2.40 METER HIGH JUMP	James Becker	California State University, Long Beach	United States
08:30 - 08:40	AS-0447	OPTIMUM TECHNIQUE FOR MAXIMISING HEIGHT IN A STRAIGHT HANDSPRING SOMERSAULT VAULT	Michael Hiley	Loughborough University	United Kingdom
08:40 - 08:50	AS-0201	OPTIMUM TECHNIQUE FOR MAXIMISING ROTATION IN A ROCHE VAULT	Fred Yeadon	Loughborough University	United Kingdom
08:50 - 09:00	AS-0449	EFFECT OF REGULAR RUNNING TRAINING AND MARATHON RUNNING ON SERUM COMP CONCENTRATIONS IN NORMAL-WEIGHT AND OBESE RUNNERS	Annegret Muendermann	University Hospital Basel	Switzerland
09:00 - 09:10	AS-0450	ABILITY TO MODULATE MUSCLE SYNERGY IS THE KEY ASPECT THAT DISTINGUISHED COMPETITIVE ROWERS FROM NOVICE	Shazlin Shahrudin	Universiti Sains Malaysia	Malaysia
09:10 - 09:20	AS-0451	GUSIMBUKA URUKIRAMENDE: WERE AFRICAN HIGH JUMPERS THE REAL WORLD CHAMPIONS?	Ine Van Caekenberghe	Ghent University	Belgium
08:20 - 09:20		Abstract Session - Lower Body: Lower Limb 5 Chairs: Caroline Stewart Location: Gala			
08:20 - 08:30	AS-0452	BIOMECHANICAL COMPARISON OF TIBIOTALOCALCANEAL AND TIBIOTALAR FUSION	Swati Chopra	Centre Hospitalier Universitaire Vaudois (CHUV), University of Lausanne	Switzerland
08:30 - 08:40	AS-0453	LOWER LIMB MUSCLE ACTIVITY STRATEGY AND POSTURAL SWAY IS CHANGED DURING BALANCE TASKS IN GIRLS WITH GENERALIZED JOINT HYPERMOBILITY	Birgit Juul-Kristensen	University of Southern Denmark	Denmark
08:40 - 08:50	AS-0455	INSIGHTS INTO THE BIOMECHANICAL MECHANISMS FOR THE DEVELOPMENT OF CHRONIC EXERTIONAL COMPARTMENT SYNDROME	Andrew Roberts	Defence Medical Rehabilitation Centre	United Kingdom
08:50 - 09:00	AS-0456	VALIDITY AND RELIABILITY OF HIP PARAMETERS WITH PELVIC AXIAL ROTATION DURING X-RAY ACQUISITION	Ayman Assi	School of Medicine, University of Saint-Joseph	Lebanon
09:00 - 09:10	AS-0457	PREDICTORS OF MIDFOOT DEFORMITY AND FUNCTION IN INDIVIDUALS WITH DIABETES AND PERIPHERAL NEUROPATHY	Mary Hastings	Washington University School of Medicine	United States

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08:20 - 09:20		Abstract Session - Motion Analysis 9 Chairs: John Challis & Zac Domire Location: Forth			
08:20 - 08:30	AS-0458	A CANINE GAIT ANALYSIS PROTOCOL FOR THE ANALYSIS OF THE BACK MOVEMENT: ASSESSMENT OF KINEMATIC AND KINETIC VARIABLES IN GERMAN SHEPHERD DOGS	Andrea Cereatti	University of Sassari	Italy
08:30 - 08:40	AS-0459	THE USE OF FEEDBACK TO REDUCE THE ERRORS ASSOCIATED WITH PLACEMENT OF ANATOMICAL MARKERS FOR KINEMATIC GAIT ANALYSIS.	Sean Osis	University of Calgary	Canada
08:40 - 08:50	AS-0460	POWER OUTPUT OF OAR BLADE IN CONTEXT OF ROWER LEG, KNEE AND TRUNK COORDINATION IN ON WATER SKULL ROWING	Chris T.M. T Baten	Roessingh Research and Development	Netherlands
08:50 - 09:00	AS-0461	ADAPTATION AND VALIDATION OF AN EXISTING FOREARM MODEL FOR CORRECTING SOFT TISSUE ARTEFACT THROUGH MULTIBODY OPTIMISATION	Alexandre Naaim	Rehazenter	Luxembourg
09:00 - 09:10	AS-0462	COMPARISON OF TIBIAL AND FEMORAL ACCELERATIONS USING MOTION CAPTURE AND INERTIAL MEASUREMENT UNITS	Sara Sofia Pereira Marreiros	Glasgow Caledonian University	United Kingdom
09:10 - 09:20	AS-0463	HIP JOINT BIOMECHANICS DURING GAIT IN PEOPLE WITH AND WITHOUT SYMPTOMATIC FEMOROACETABULAR IMPINGEMENT	Laura Diamond	The University of Melbourne	Australia
08:20 - 09:20		Abstract Session - Modelling & Computer Simulation 9 Chairs: David Lloyd & Luca Modenese Location: Seminar Suite			
08:20 - 08:30	AS-0464	THE EFFECT OF UPPER ARM MASS ON THE THROWING VELOCITY	Patrick Fasbender	Brunel University	United Kingdom
08:30 - 08:40	AS-0465	ASSESSMENT OF EFFECTS OF ENHANCED EXTRACELLULAR MATRIX STIFFNESS DUE TO BOTULINUM TOXIN ON MUSCULAR MECHANICS USING FINITE ELEMENT MODELING	Can A. Yucesoy	Bogazici University	Turkey
08:40 - 08:50	AS-0466	EFFECT OF METHOD FOR DETERMINING INITIAL MUSCLE ACTIVATIONS ON SIMULATIONS OF SQUAT JUMPING	Zachary J Domire	East Carolina University	United States
08:50 - 09:00	AS-0467	OPTIMISATION OF GLENOHUMERAL STABILITY IN A MUSCULOSKELETAL MODEL	Edward Kenneth Chadwick	Keele University	United Kingdom
09:00 - 09:10	AS-0468	SINGLE LEG TRIPLE HOP TEST INVERSE KINEMATICS WITH DIFFERENT MARKERS WEIGHTS USING OPENSIM	Felipe Alvim	Federal University of Rio de Janeiro	Brazil
09:10 - 09:20	AS-0469	TOWARDS THE GENERATION OF A PARAMETRIC FOOT MODEL USING PRINCIPAL COMPONENT ANALYSIS	Alessandra Scarton	University of Padova	Italy

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08:20 - 09:20		Abstract Session - Musculoskeletal 9 Chairs: Peter Zioupos & Shafini Mohamad Location: Carron 1			
08:20 - 08:30	AS-0470	THE ROLE OF SARCOMERE LENGTH NON-UNIFORMITIES IN RESIDUAL FORCE ENHANCEMENT	Kaleena Rachile Johnston	University of Calgary	Canada
08:30 - 08:40	AS-0471	SIMULATING SHORTEST MUSCULOTENDON PATHS ACROSS MULTIPLE BIOLOGICALLY ACCURATE WRAPPING SURFACES IN REAL TIME	Andreas Scholz	Engineering	Germany
08:40 - 08:50	AS-0472	A THREE-DIMENSIONAL MUSCULOSKELETAL MODEL OF THE LABRADOR RETRIEVER (CANIS FAMILIARIS) PELVIS AND HIND LIMBS	Walter Dingemanse	Faculty of Veterinary Medicine, Ghent University	Belgium
08:50 - 09:00	AS-0473	BODY SEGMENT PARAMETERS AND INERTIAL PROPERTIES OF THE GERMAN SHEPHERD POLICE DOG	Yvette Jones	University of Strathclyde	United Kingdom
09:00 - 09:10	AS-0474	COMPARISON OF ESTIMATED AND MEASURED MUSCULAR ACTIVITY DURING INCLINED WALKING	Nathalie Alexander	University of Salzburg	Austria
09:10 - 09:20	AS-0475	SPASTIC SEMITENDINOSUS MUSCLE OF CEREBRAL PALSY PATIENTS STIMULATED ALONE CANNOT BE THE DOMINANT SOURCE OF KNEE MOVEMENT LIMITATION DESPITE BEING A PRIMARY KNEE FLEXOR	Filiz Ates	Bogazici University	Turkey
08:20 - 09:20		Abstract Session - Injury 2 Chairs: Jos Vanrenterghem & Sean Sankey Location: Carron 2			
08:20 - 08:30	AS-0476	A CRASH TEST AND CRASH TEST SIMULATION OF A NEONATE WHILST WEARING STANDARD NEONATE RESTRAINTS	Donal McNally	University of Nottingham	United Kingdom
08:30 - 08:40	AS-0477	EXTERNAL KNEE MOMENTS AND LOADING DURING JOGGING POST-ARTHROSCOPIC PARTIAL MENISCECTOMY: A LONGITUDINAL STUDY	Michelle Hall	University of Melbourne	Australia
08:40 - 08:50	AS-0478	HAMSTRING SHEAR MODULUS IS ALTERED PRIOR TO STRAIN INJURY: A CASE STUDY	Matthew Q Salzano	East Carolina University	United States
08:50 - 09:00	AS-0479	SAGITTAL PLANE KNEE KINEMATICS PREDICT NON-SAGITTAL KNEE JOINT MOMENTS IN UNPLANNED SIDESTEPPING	Mark A Robinson	Liverpool John Moores University	United Kingdom
09:00 - 09:10	AS-0480	FOOT CONTACT ANGLE AND ITS VARIABILITY DURING A PROLONGED RUN IN RELATION TO INJURY HISTORY	Max Paquette	University of Memphis	United States
09:10 - 09:20	AS-0481	EFFECTS OF SPEED AND STEP FREQUENCY ON LOADING VARIABLES DURING RUNNING	Tomoya Ueda	Tokyo University of Science	Japan

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08:20 - 09:20		Abstract Session - Rehabilitation 3 Chairs: Alison McGregor & Enrica Papi Location: Dochart 1			
08:20 - 08:30	AS-0482	EFFECT OF VIRTUAL OBSTACLES NEGOTIATION ON TEMPORAL-SPATIAL GAIT IN HEALTHY YOUNG ADULTS	Mohammad Al-Amri	Cardiff University	United Kingdom
08:30 - 08:40	AS-0483	TASK DEPENDENCE OF FRONTAL PLANE KNEE CONTROL MEASURED BY FLUENCY AND VARIABILITY DURING FIVE REHABILITATION EXERCISES.	Robert Van Deursen	Cardiff University	United Kingdom
08:40 - 08:50	AS-0484	IS TREADMILL WALKING WITH VIRTUAL REALITY AN ACCEPTABLE AND PLAUSIBLE TRAINING MODALITY FOR STROKE SURVIVORS?	Andrew Kerr	University of Strathclyde	United Kingdom
08:50 - 09:00	AS-0485	DEVELOPMENT OF A PERTURBATION PROTOCOL TO QUANTIFY GAIT RESILIENCE USING MECHANICAL, VISUAL AND AUDITORY PERTURBATIONS: A CASE STUDY	Sanne Roeles	University of Strathclyde	United Kingdom
09:00 - 09:10	AS-0486	OUTCOME AND SUSTAINABILITY OF A HIP THERAPY-K INTERVENTION IN ADULTS WITH CEREBRAL PALSY ON WALKING SPEED, GAIT-PARAMETERS AND MUSCULAR ACTIVATION.	Carmen Gemp	University of Basel	Switzerland
09:10 - 09:20	AS-0487	STROKE SURVIVORS ARE ABLE TO ADAPT TO A DISCRETE, UNANTICIPATED DISTURBANCE DURING GAIT	Bahar Sharafi	Rehabilitation Institute of Chicago	United States
08:20 - 09:20		Abstract Session - Orthopaedic Implants 3 Chairs: Howard J Hillstrom & Andrew Kraszewski Location: Dochart 2			
08:20 - 08:30	AS-0488	BIOMECHANICAL ANALYSIS BETWEEN DUAL MOBILITY AND CONVENTIONAL THA DURING STAIR ASCENT AND DESCENT	Danilo S. Catelli	University of Ottawa	Canada
08:30 - 08:40	AS-0489	REDUCED QUADRICEPS ACTIVATION AMONG TKA PATIENTS: MUSCLE INHIBITION OR EFFICIENCY?	Mario Lamontagne	University of Ottawa	Canada
08:40 - 08:50	AS-0490	PARAMETRIC ANALYSIS OF GLENOID IMPLANT DESIGN	Diogo Miguel Gerales	Imperial College London	United Kingdom
08:50 - 09:00	AS-0491	PREDICTING IMPLANT PERFORMANCE IN DISTAL FEMORAL FRACTURES: SENSITIVITY TO RESTRAINT CONDITIONS AT THE HIP	Alisdair Macleod	University of Edinburgh	United Kingdom
09:00 - 09:10	AS-0492	VARIATIONS IN MORPHOLOGY OF THE ARTICULAR SURFACES OF THE ANKLE EFFECT ITS KINEMATICS AND LOAD-TRANSFER CHARACTERISTICS	Sorin Siegler	Drexel University	United States
09:10 - 09:20	AS-0493	EFFECT OF DIFFERENT TKA TIBIAL INSERT POSTERIOR STABILIZED DESIGNS ON KNEE BIOMECHANICS: A FINITE ELEMENT STUDY	Silvia Pianigiani	Istituto Ortopedico Galeazzi	Italy
09:20 - 09:30		Transition 10 minutes			

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09:30 - 10:20		Keynote Lecture - Sport Biomechanics Location: Clyde Auditorium			
		Sport Biomechanics	Gert-Peter Brüggemann	German Sport University Cologne	Germany
			Sharon Dixon	University of Exeter	United Kingdom
10:20 - 11:00		Coffee Break Location: Hall 5			
11:00 - 12:00		Special Session - Sport Chairs: Gareth Irwin Location: Clyde Auditorium			
11:00 - 11:20	SS-0076	THE BIG DATA FUTURE OF SPORTS BIOMECHANICS: WHY ADVANCES IN OUR UNDERSTANDING OF OPTIMAL PERFORMANCE AND INJURY PREVENTION LIES IN THE CLOUD	Jacqueline Alderson	University of Western Australia	Australia
11:20 - 11:40	SS-0078	SIMULATION AND PROPHYLACTIC RESEARCH: INTERESTING BEDFELLOWS	Cyril Donnelly	The University of Western Australia	Australia
11:40 - 12:00	SS-0079	THE ROLE OF GENDER ON THE VARIABILITY OF JOINT KINEMATICS AND KINETICS IN UNINJURED ATHLETES DURING A MATCH SPECIFIC LAND-CUT TASK	Sarah Clarke	Leeds Beckett University	United Kingdom
11:00 - 12:00		Special Session - A showcase of research from the Asian-Pacific Biomechanics Community Chairs: Mark Pearcy Location: Gala			
11:00 - 11:10		INTRODUCTION TO THE ASIAN-PACIFIC ASSOCIATION FOR BIOMECHANICS (APAB)	Prof. Takeo Matsumoto	President of APAB	
11:10 - 11:20	SS-0080	BIOMECHANICAL ASPECTS OF TRIGGER FINGER BEFORE AND AFTER PULLEY RELEASE SURGERY	Fong-Chin Su	National Cheng Kung University	Taiwan, Republic of China
11:20 - 11:30	SS-0081	EFFECTS OF PENNATION ANGLE ASSUMPTIONS ON THE DETERMINATION OF SUBJECT-SPECIFIC MUSCLE MODEL PARAMETERS	Youngho Kim	Yonsei University	Korea, Republic Of
11:30 - 11:40	SS-0082	APPLICATION OF TRANSCRANIAL DIRECT CURRENT STIMULATION AND BRAIN-COMPUTER-INTERFACE-CONTROLLED ORTHOSIS FOR HAND REHABILITATION OF STROKE PATIENTS	Ming-Shaung Ju	National Cheng Kung University	Taiwan, Republic of China
11:40 - 11:50	SS-0083	MORPHOMETRIC ANALYSIS OF THE THORACIC INTERVERTEBRAL FORAMEN OSSEOUS ANATOMY IN ADOLESCENT IDIOPATHIC SCOLIOSIS USING LOW DOSE COMPUTERIZED TOMOGRAPHY.	Thorbjorn James Loch-Wilkinson	Queensland University of Technology	Australia

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11:50 - 12:00	SS-0084	DORSAL-VENTRAL DIFFERENCE IN BIOMECHANICAL AND BIOCHEMICAL PROPERTIES IN THE RABBIT THORACIC AORTAS	Takeo Matsumoto	Nagoya Institute of Technology	Japan
12:00 - 12:10	SS-0095	BIOMECHANICAL CONSIDERATION FOR IVD TISSUE ENGINEERING	James Goh	National University of Singapore	Singapore

11:00 - 12:00 Abstract Session - Lower Body: Feet & Footwear 11
Chairs: Paolo Caravaggi & Peter Milburn
Location: Forth

11:00 - 11:10	AS-0494	PATIENT SPECIFIC LEG-FOOT MODEL FOR INDIVIDUALLY DESIGNED INSOLES	Maxime LLARI	IFSTTAR	France
11:10 - 11:20	AS-0495	SPATIAL FREQUENCY CONTENT OF DIABETIC AND NON-DIABETIC PLANTAR PRESSURE AND SHEAR PROFILES	Visar Berki	The University of Akron	United States
11:20 - 11:30	AS-0496	CHALLENGING FOOT ALIGNMENTS CAN INCREASE INTRINSIC FOOT MUSCLE ACTIVITY	Mahdi Pourdaniel	The University of Melbourne	Australia
11:30 - 11:40	AS-0498	THE ROLE OF ARCH COMPRESSION AND METATARSOPHALANGEAL JOINT DYNAMICS IN MODULATING PLANTAR FASCIA STRAIN IN RUNNING	Kirsty Mcdonald	The University of Western Australia	Australia
11:40 - 11:50	AS-0499	FOREFOOT SPLAYING ACROSS THE TRANSVERSE METATARSAL ARCH IN DIABETIC PATIENTS	Brian L Davis	University of Akron	United States

11:00 - 12:00 Special Session - Musculoskeletal
Chairs: Vasilios Baltzopoulos
Location: Seminar Suite

11:00 - 11:10	SS-0087	THE SKINNY ON OSTEOARTHRITIS -- DOES BODY FAT AFFECT QUADRICEPS MUSCLE COMPOSITION?	K H Collins	University of Calgary	Canada
11:10 - 11:20	SS-0088	USING ADVANCED MRI TECHNIQUES FOR ESTIMATING STRAIN DISTRIBUTIONS ALONG MUSCLE FIBERS DURING ISOMETRIC PLANTAR-FLEXION ACTIVITY OF HUMAN MEDIAL GASTROCNEMIUS, IN VIVO	Agah Karakuzu	Bogazici University	Turkey
11:20 - 11:30	SS-0089	EFFECTS OF BOTULINUM TOXIN TYPE A ON MUSCULAR MECHANICS APPEAR TO BE MUCH MORE INVOLVED THAN KNOWN SO FAR	Can A Yucesoy	Bogazici University	Turkey
11:30 - 11:40	SS-0090	PEAK FORCE AND HYSTERESIS IN ACTIVELY AND PASSIVELY LENGTHENED SKELETAL MUSCLE MYOFIBRILS AT VERY LONG SARCOMERE LENGTH.	Tim Leonard	University of Calgary	Canada
11:40 - 11:50	SS-0091	APPLICATION OF A PSEUDO-INVERSE METHOD FOR THE ESTIMATION OF INDIVIDUAL MUSCULO-TENDON FORCES CONTRIBUTIONS TO THE GROUND REACTION 3D FORCE AND MOMENT AND TIBIOFEMORAL CONTACT FORCES	Florent Moissenet	CNRFR - Rehazenter	Luxembourg

Scientific Programme

Thursday 16th July

11:00 - 12:00	Special Session - Clinical Movement Analysis Society of the UK (CMAS): The Next Generation of Clinical Movement Analysis Chairs: Caroline Stewart Location: Carron 1			
11:00 - 11:10	INTRODUCTION TO PATIENT CASE STUDY	Caroline Stewart	Keele University	United Kingdom
11:10 - 11:25	POTENTIAL FOR EXTENDING MODELLING (TRUNK AND FOOT)	Julie Stebbins	University of Oxford	United Kingdom
11:25 - 11:40	POTENTIAL FOR PRACTICAL MUSCLE LENGTH MODELLING	Caroline Stewart	Keele University	United Kingdom
11:40 - 11:55	POTENTIAL FOR MODELLING MUSCLE FORCES AND PREDICTING OUTCOME	Richard Baker	University of Salford	United Kingdom
11:55 - 12:00	SUMMARY OF POTENTIAL FOR CASE STUDY			
11:00 - 12:00	Special Session - Bone from a Micromechanics and Biophysics Approach Chairs: Peter Zioupos Location: Carron 2			
11:00 - 11:15	HIGH STRAIN RATE EFFECTS AND BRITTLINESS OF BONE AND WHAT THE BIOPHYSICAL NATURE OF BONE CAN TELL US FOR THE EFFECTS OBSERVED AT THE MACRO-SCALE	Peter Zioupos	Cranfield Forensic Institute, Cranfield University	United Kingdom
11:15 - 11:30	X-RAY BASED MICRO-TECHNIQUES TO MEASURE STRAIN AT THE FIBRILLAR LEVEL AND THE CLINICAL PERSPECTIVE	Himadri Gupta	Queen Mary University of London	United Kingdom
11:30 - 11:45	MICRO- AND NANO-MECHANICS FROM AFM UPWARDS AND RELEVANT CLINICAL STUDIES	Philipp Thurner	Vienna University of Technology	Vienna
11:45 - 12:00	OPEN DISCUSSION: complementary multi-mode techniques" and the pros and cons of "Micro-based bone characterisation methods"			
11:00 - 12:00	Special Session - Making Biomechanics Younger: Educational Outreach To Public School Children Chairs: Paul DeVita Location: Dochart 1			
11:00 - 11:05	INTRODUCTION	Paul DeVita	East Carolina University	United States
11:05 - 11:20	BRIDGING ENGINEERING, SCIENCE AND TECHNOLOGY IN MEDICINE	Brian L. Davis, Carin Helfer	University of Akron	United States
11:20 - 11:35	BRINGING BIOMECHANICS TO LIFE FOR MIDDLE SCHOOL STUDENTS	Antonia Zaferiou, Travis Peterson, Edward V. Wagner, and Jill L. McNitt-Gray	University of Southern California	United States
11:35 - 11:50	KICK START: BUILDING A BIOMECHANICS BASE	Julie Steele	University of Wollongong	Australia
11:50 - 12:00	Q&A			

Scientific Programme

Thursday 16th July

11:00 - 12:00		Special Session - Orthotics Chairs: Karyn Ross Location: Dochart 2			
11:00 - 11:10	SS-0007	BIOMECHANICAL DOSAGE EFFECT OF KNEE BRACES ON INTERNAL JOINT MOMENT AS MEASURED BY THE E-TIBIA	Howard J Hillstrom	HOSPITAL FOR SPECIAL SURGERY	United States
11:10 - 11:20	SS-0008	A COMPARATIVE BIOMECHANICAL STUDY ON THE FUNCTIONALITY OF DIFFERENT ORTHOTIC CONCEPTS IN PATIENTS WITH CARPOMETACARPAL OSTEOARTHRITIS.	Timo Schmeltzpfenning	BSN medical	Germany
11:20 - 11:30	SS-0009	EVALUATING THE EFFECT OF THE STIFFNESS OF AN AFO ON GAIT IN A HEALTHY TEST SUBJECT: EXPERIMENTS VS. PREDICTIVE SIMULATIONS.	Veerle Creylman	Thomas More	Belgium
11:30 - 11:40	SS-0010	APPLICATION OF PERSONALISED FOOT ORTHOTICS FOR THE TREATMENT OF MEDIAL KNEE OSTEOARTHRITIS (MKOA)	Richard Allan	Glasgow Caledonian University	United Kingdom
11:40 - 11:50	SS-0011	DEVELOPMENT OF AN ORTHOTIC GLOVE WITH EMG FEEDBACK FOR ASSISTIVE AND REHABILITATIVE PURPOSES	Oluwalogbon Osulale Akinola	University of Nottingham	United Kingdom
11:50 - 12:00	SS-0012	A BIOMECHANICAL STUDY ON EFFECTS OF FUNCTIONAL ORTHOTICS IN IMPROVING THE SWING STABILITY AND SWING PERFORMANCE	Chun-Ju Chang	Department of Biomedical Engineering	Taiwan, Republic of China
12:00 - 13:00		Lunch Break Location: Hall 5			
13:00 - 14:00		Abstract Session - Motion Analysis 10 Chairs: Adamantios Arampatzis & Alessandro Santuz Location: Clyde Auditorium			
13:00 - 13:10	AS-0506	WHAT IS THE RELATIONSHIP BETWEEN KNEE BIOMECHANICAL FUNCTION AND PATIENT REPORTED FUNCTION BEFORE AND AFTER TOTAL KNEE REPLACEMENT?	Lucy A Bailey	Southampton General Hospital	United Kingdom
13:10 - 13:20	AS-0507	GAIT CHARACTERISTICS OF LOCOMOTIVE SYNDROME BY PRINCIPLE COMPONENT ANALYSIS	Baku Suzuki	Waseda University	Japan
13:20 - 13:30	AS-0508	ESTIMATION OF SUBJECT-SPECIFIC 3D POSITION OF THE KNEE LIGAMENT ATTACHMENT SITES AND LIGAMENT LENGTH VARIATION DURING KNEE FLEXION	Elena Bergamini	Università degli Studi di Roma "Foro Italico"	Italy
13:30 - 13:40	AS-0509	PLANTAR PRESSURE DISTRIBUTION DURING RUNNING IN CHILDREN	Ana Cristina de David	Universidade de Brasília - UnB	Brazil
13:40 - 13:50	AS-0510	A KINEMATIC MODEL OF THE TIBIA-FIBULA-TALUS COMPLEX FROM FUNCTIONAL ADAPTATION	Michele Conconi	University of Bologna	Italy
13:50 - 14:00	AS-0511	DISCRIMINATION OF FALLERS AND NON-FALLERS USING THE VARIABILITY OF THE MAGNITUDE OF THE SACRAL ACCELERATION VECTOR	Yoshiyuki Kobayashi	National Institute of Advanced Industrial Science and Technology	Japan

Scientific Programme

Thursday 16th July

13:00 - 14:00		Abstract Session - Imaging 2 Chairs: Donal McNally & Alan Parish Location: Gala			
13:00 - 13:10	AS-0512	THE INFLUENCE OF TRANSDUCER ANGLE ON ULTRASOUND MEASUREMENTS OF INTER-RECTUS DISTANCE ON WOMEN POST-PARTUM	Nicole Hills	Queen's University	Canada
13:10 - 13:20	AS-0513	THREE-DIMENSIONAL SCANNING FOR IMPROVED BRA DESIGN	Celeste E. Coltman	University of Wollongong	Australia
13:20 - 13:30	AS-0514	THE IMPACT OF LOADING AND BOUNDARY CONDITIONS IN FINITE ELEMENT ANALYSIS OF MR ELASTOGRAPHY	Lyam Hollis	University of Edinburgh	United Kingdom
13:30 - 13:40	AS-0515	HOW REPRODUCIBLE IS THE LOCALIZATION OF CRUCIATE AND COLLATERAL LIGAMENTS INSERTION POINTS BY USING MRI?	Silvia Pianigiani	Istituto Ortopedico Galeazzi	Italy
13:40 - 13:50	AS-0074	ACCURACY OF THE KNEE JOINT AXIS ORIENTATION AGAINST FREEHAND 3D ULTRASOUND	Elyse Passmore	The University of Melbourne/The Royal Children's Hospital, Melbourne	Australia
13:50 - 14:00	AS-0177	RAPID QUANTIFICATION OF BONE ANATOMY FROM MRI	Saikat Pal	California Polytechnic State University San Luis Obispo	United States
13:00 - 14:00		Abstract Session - Sport 10 Chairs: Peter Milburn & Parvan Devanboyina Location: Forth			
13:00 - 13:10	AS-0516	AERODYNAMICS OF ISOLATED SKI JUMPING SKI	Mikko Virravirta	University of Jyväskylä	Finland
13:10 - 13:20	AS-0517	MUSCLE AND TENDON ADAPTATION IN ADOLESCENT ATHLETES: A LONGITUDINAL STUDY	Falk Mersmann	Humboldt-Universität zu Berlin	Germany
13:20 - 13:30	AS-0518	DO FOOT ORTHOSES AND FATIGUE MODIFY IMPACT ACCELERATION DURING RUNNING?	Angel Gabriel Lucas Cuevas	University of Valencia	Spain
13:30 - 13:40	AS-0519	QUANTIFYING ICE HOCKEY GOALTENDER LEG PAD KINEMATICS AND ITS EFFECT ON PERFORMANCE	Ryan James Frayne	University of Western Ontario	Canada
13:40 - 13:50	AS-0520	THE EFFECT OF AGE, SEX, AND HIP STRENGTH ON INTER-SEGMENT COORDINATION VARIABILITY IN RUNNERS	JJ Hannigan	University of Oregon	United States
13:50 - 14:00	AS-0521	GROUND REACTION FORCES IN ELITE UPPER-LIMB AMPUTEE RUNNING	Stefan Litzenberger	University of Applied Sciences Technikum Wien	Austria

Scientific Programme

Thursday 16th July

13:00 - 14:00		Abstract Session - Musculoskeletal 10 Chairs: Andrea Hemmerich & Tara Diesbourg Location: Seminar Suite			
13:00 - 13:10	AS-0522	MECHANICAL CONSTRAINTS OF FINGER INDEPENDENCE: LINKING TENDON DISPLACEMENT WITH JOINT MOVEMENT	Nathalie van Beek	Vrije universiteit Amsterdam	Netherlands
13:10 - 13:20	AS-0523	LEG FLEXION STRENGTH RECOVERS WITH MECHANICAL PROPERTIES OF THE SEMITENDINOSUS TENDON AFTER RESECTION FOR ACL RECONSTRUCTION	Stephen M Suydam	University of Delaware	United States
13:20 - 13:30	AS-0524	CAN DRAWING IN AND ABDOMINAL CRUNCH EXERCISES NARROW THE INTER-RECTUS DISTANCE?	Patricia Mota	Univ Lisboa, Fac Motricidade Humana	Portugal
13:30 - 13:40	AS-0525	MULTI-SEGMENT FOOT COORDINATION VARIABILITY OF THE PONSETI TREATED CLUBFOOT	Amy Whited	University of Massachusetts Amherst	United States
13:40 - 13:50	AS-0526	SHEAR WAVE SPEED MEASUREMENTS IN PASSIVE AND ACTIVE STROKE-IMPAIRED BICEPS BRACHII	Sabrina Lee	Northwestern University	United States
13:50 - 14:00	AS-0527	LOADING OF HIP MEASURED BY HIP CONTACT FORCES AT DIFFERENT SPEEDS OF WALKING AND RUNNING.	Georgios Giarmatzis	KU Leuven	Belgium
13:00 - 14:00		Abstract Session - Surgical Techniques Chairs: Claudio Belvedere & Sorin Siegler Location: Carron 1			
13:00 - 13:10	AS-0528	KINEMATIC VERSUS NEUTRAL ALIGNMENT IN TOTAL KNEE ARTHROPLASTY: BIOMECHANICAL AND CLINICAL ASSESSMENTS	Claudio Belvedere	Istituto Ortopedico Rizzoli	Italy
13:10 - 13:20	AS-0530	ESTIMATION OF FEMORAL INTRA-NECK DRILLING CHANNEL FROM COMBINED PELVIC AND FEMORAL ANATOMICAL LANDMARKS: A CADAVER STUDY	Victor Sholukha	Universite Libre De Bruxelles (ULB)	Belgium
13:20 - 13:30	AS-0531	SYSTEMATIC BIOMECHANICAL ANALYSIS OF TREATMENT OPTIONS FOR TIBIAL HEAD DEPRESSION FRACTURES	Stefanie Hoelscher-Dohrt	University Clinics of Wuerzburg	Germany
13:30 - 13:40	AS-0532	BIOMECHANICAL COMPARISON OF THE ALL-EPIPHYSEAL AND OVER-THE-TOP TECHNIQUES FOR REPAIRING THE ANTERIOR CRUCIATE LIGAMENT USING A NOVEL ROBOTICALLY SIMULATED PIVOT SHIFT: A CADAVERIC STUDY	Tara Francesca Bonner	Cleveland Clinic	United States
13:40 - 13:50	AS-0533	BIOMECHANICS OF COMPUTER-ASSISTED VS. CONVENTIONAL THR AFTER ONE YEAR FOLLOW-UP	T Weber	OTH Regensburg	Germany
13:50 - 14:00	AS-0534	STRESS-STRAIN BEHAVIOUR OF NI-TI ALLOYS USED IN ENDODONTIC INSTRUMENTS BY MEANS OF TORSIONAL SIMULATED TESTS.	Leandro Arruda Santos	Universidade Federal de Minas Gerais	Brazil

Scientific Programme

Thursday 16th July

13:00 - 14:00		Abstract Session - Trauma Chairs: Andrew Phillips & Claire Villette Location: Carron 2			
13:00 - 13:10	AS-0535	MECHANISM OF SHEAR DEFORMATION OF DEEP BRAIN DURING ROTATIONAL HEAD MOTION OBSERVED IN A THREE DIMENSIONAL PHYSICAL HEAD MODEL	Yusuke Miyazaki	Tokyo Institute of Technology	Japan
13:10 - 13:20	AS-0536	CARBON-FIBER REINFORCED PEEK PLATES – A PROMISING APPROACH TO PROXIMAL HUMERAL FRACTURE PLATING?	Michael Schwarze	Hanover Medical School	Germany
13:20 - 13:30	AS-0537	A BIOMECHANICAL COMPARISON OF FOCAL TRAUMATIC BRAIN INJURY AND PERSISTENT-POST-CONCUSSIVE SYNDROME	Andrew Post	University of Ottawa	Canada
13:30 - 13:40	AS-0538	AN EXAMINATION OF TRAUMATIC MANDIBULAR FRACTURES USING DYNAMIC FINITE ELEMENT ANALYSIS	Gladstone Burke	Birmingham City University	United Kingdom
13:40 - 13:50	AS-0539	ADOLESCENT FEMORAL FRACTURE FIXATION WITH LATERAL TROCHANTERIC ENTRY RIGID HELICAL INTRAMEDULLARY NAIL - A BIOMECHANICAL EVALUATION	Darshan Angadi	University of Birmingham	United Kingdom
13:50 - 14:00	AS-0540	MULTIPARAMETRIC ANALYSIS OF A PEDESTRIAN FEMUR DURING A CAR CRASH	Bernardo Innocenti	Université Libre de Bruxelles	Belgium
13:00 - 14:00		Abstract Session - Modelling & Computer Simulation 11 Chairs: John Challis & Samuel Masters Location: Dochart 1			
13:00 - 13:10	AS-0541	FE MODEL OF FEMALE PELVIC FLOOR FOCUSED ON STRESS DISTRIBUTION IN LEVATOR ANI MUSCLE DURING VAGINAL DELIVERY	Linda Havelková	University of West Bohemia	Czech Republic
13:10 - 13:20	AS-0542	A NEUROMUSCULOSKELETAL MODEL TO SIMULATE PASSIVE WRIST EXTENSION TEST OF SPASTICITY	Ruoli Wang	Royal Institute of Technology, Stockholm	Sweden
13:20 - 13:30	AS-0543	INTEGRATING ULTRASONOGRAPHY INTO A SUBJECT-SPECIFIC EMG-DRIVEN MODEL TO ESTIMATE TIBIALIS ANTERIOR MUSCLE FORCE	Stuart Miller	Middlesex University	United Kingdom
13:30 - 13:40	AS-0544	BIAXIAL COMPARISON OF AORTIC TISSUE AND CALCIFICATION BY A BUBBLE INFLATION TEST, APPLYING THE FINITE ELEMENT METHOD	Francisco Carrasco-Hernandez	University of Nottingham	United Kingdom
13:40 - 13:50	AS-0545	THE EFFECT OF INTRAMUSCULAR FAT ON SKELETAL MUSCLE FORCE IN THE OBESE	Hadi Rahemi	Simon Fraser University	Canada
13:50 - 14:00	AS-0546	EFFECT OF SCALED LOWER LIMB ANATOMICAL MODELS ON FORCE PREDICTIONS DURING WALKING GAIT	Ziyun Ding	Imperial College London	United Kingdom

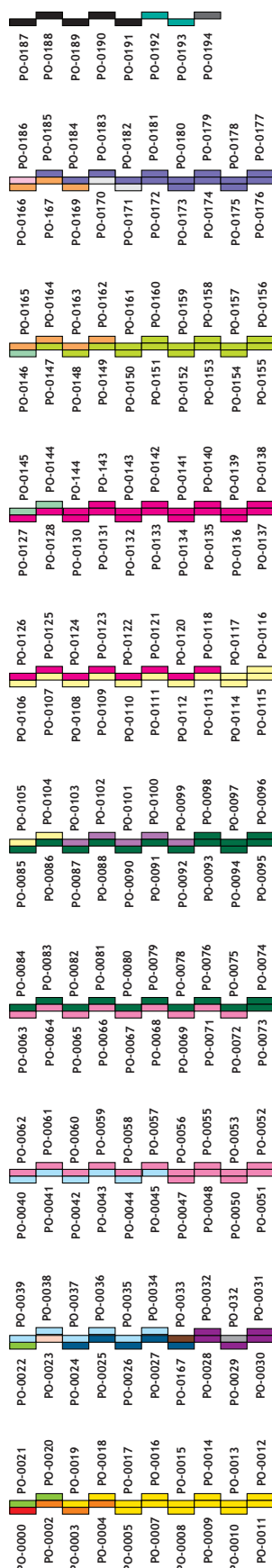
Scientific Programme

Thursday 16th July

13:00 - 14:00		Abstract Session - Rehabilitation 4 Chairs: Catherine Disselhorst-Klug & Ligia Fonseca Location: Dochart 2			
13:00 - 13:10	AS-0547	ASSESSMENT OF THE EFFECTS OF BODY WEIGHT UNLOADING ON KINEMATICS, KINETICS, MUSCLE ACTIVITY, AND CENTER OF PRESSURE DURING OVERGROUND GAIT	Arielle Fischer	Technion- Israel Institute of Technology	Israel
13:10 -13:20	AS-0548	CAN GAIT KINEMATICS BE USED TO PREDICT RESPONSE TO STANDARDISED EXERCISE PROGRAMS IN INDIVIDUALS WITH KNEE OSTEOARTHRITIS?	Kathryn Mills	Macquarie University	Australia
13:20 - 13:30	AS-0549	SHORT-TERM EFFECTS OF THORACIC SPINE MANIPULATION ON PAIN, FUNCTION AND SCAPULAR KINEMATICS IN SHOULDER IMPINGEMENT SYNDROME	Melina Nevoeiro Haik	Federal University of São Carlos	Brazil
13:30 - 13:40	AS-0550	PLAYING THE GOBLIN POST OFFICE VIRTUAL REHABILITATION GAME AT HOME	Andrew J Murphy	University of Strathclyde	United Kingdom
13:40 - 13:50	AS-0551	VIRTUAL REALITY-TREADMILL COMBINED TRAINING PROGRAM TO IMPROVE GAIT IN MULTIPLE SCLEROSIS INDIVIDUALS	Agnese Peruzzi	University of Sassari	Italy
13:50 - 14:00	AS-0552	EFFECT AND SUSTAINABILITY OF A HIPPOThERAPIE-K-INTERVENTION IN ADULTS WITH CEREBRAL PALSY WHILE STAIR CLIMBING.	Martina Binzen	University of Basel	Switzerland
14:00 - 14:20		Coffee Break Location: Hall 5			
14:20 - 16:10		Awards Session Chair: Catherine Disselhorst-Klug & Ton van den Bogert Location: Clyde Auditorium			
14:20 - 15:00		PROMISING YOUNG SCIENTIST AWARD	Ross Miller	University of Maryland	United States
15:00 - 15:20		DAVID WINTER YOUNG INVESTIGATOR AWARD	To be confirmed		
15:20 - 15:50		CLINICAL BIOMECHANICS AWARD	Andrew Tan	Northwestern University	United States
15:50 - 16:10		EMERGING SCIENTIST AWARD	Hagio Shota	Kyoto University	Japan
16:10 - 16:40		President's Lecture Location: Clyde Auditorium			
16:40 - 17:50		Closing Ceremony Location: Clyde Auditorium			
Congress Party - Open to all					

Poster Presentation Plan

Monday 13th July



Tuesday 14th July



User Group Meeting

VICON

Vicon User Group Meeting

Latest news, Vicon updates, followed by a social mixer with food, drink and great company

Monday 13th July

18:00 – 19:00

Clyde Auditorium

Vicon specialises in delivering highly accurate motion capture systems used by over 4,000 biomechanics professionals worldwide. Its flagship camera line offers the highest resolution, frame rates and accuracy available, allowing detailed motion capture in almost any environment.

Vicon's global clients include: University of Strathclyde; Li-Ning; Adidas; Australian Institute of Sport; Loughborough University; Japanese Institute of Sport; University of Capetown; Redbull; Champion; Ohio State University and sportscotland. www.vicon.com

All delegates are invited to attend (subject to availability). There is no need to register in advance.



Tutorials

As is usual with ISB Congresses, ISB XXV will be preceded with a day of ISB workshops on cutting edge topics presented by world leading researchers. The topics are given below. Each workshop will last two hours, with two in parallel in the morning and two in parallel in the afternoon.

Tutorials are £60 and can be booked by visiting the registration desk, subject to availability. All tutorials will be recorded and the video content will be available on the ISB website after the congress.

The tutorial topics are as follows:

Using Biomechanical Data for Therapy and Purposeful Gaming Organised by Jaap Harlaar

This tutorial will explore how biomechanical data can be used to provide feedback of knowledge of performance and knowledge of results during therapy and how games with a musculo-skeletal or neurological training purpose can be designed and used in a purposeful way to enable patients undertake the types of exercise required for rehabilitation. It will show the range of opportunities that are available to biomechanists outside of the usual functional measurement and device design areas in health care.

Motion Capture and Robotic Surgery Organised by Jon Clarke

This tutorial will explore how using motion capture technology can improve the accuracy and repeatability of musculo-skeletal surgery by providing the surgeon with navigation information in the operating theatre. It will show how when combined with quality imaging from MRI or CT scans and planning of surgery preoperatively in silico can enhance surgical capability. Finally using our experience with the two world leading orthopaedic robotic systems the tutorial will show how the accuracy of surgery has improved and how the possibilities for joint arthroplasty design have been expanded by this technology.

Advanced Tissue Mechanics Organised by Philip Riches

This tutorial will draw on experimental and computational hard and soft tissue mechanics research to expose the latest ideas in tissue mechanics theory and practice. Topics covered will include poroelastic (biphasic) modelling, dynamic mechanical analysis, atomic force microscopy, and nanoindentation of bone, cartilaginous tissue and tissue engineered constructs in fundamental and applied contexts. The primary applied contexts will be hip and knee orthopaedic arthroplasty surgery and the mechanics of the spine.

Prosthetics and Orthotics Biomechanics Organised by Anthony McGarry

This tutorial will concentrate on the biomechanical principles and clinical practices underpinning modern prosthetic and orthotic practice. Issues of socket – residuum interface forces and pressures will be explored as will biomechanical alignment of these devices using motion capture. The tutorial will also explore the possibilities offered by new materials and silicon chip control systems. Finally the workshop will discuss how such technology can be implemented in economically developing counties.

Student Sessions

Outreach Session

Monday 13th July - 10:20-11:10

Location: Carron 1

Are you interested in engaging the public with your work? Unsure how to write a lay abstract? Struggling with engaging industry? Want to maximize the impact of your findings? This lunch and learn provide tips to increase outreach and translation of your work.

Cool Under Pressure

Monday 13th July - 10:20-11:10

Location: Carron 2

Stress is the adverse reaction that people have to excessive pressure or other types of demand placed upon them'. Do you feel stressed? Come to this lunch and we will provide you with few tips and tools on how to manage stress, keep calm and stay positive. You will also get the chance to experience a few minutes of relaxation techniques to boost your attention for the next conference session!

Mentoring Session

Monday 13th July - 12:40 - 13:30

Location: Carron 2

Over lunch, get a chance to chat with an expert in your field. If you are a student and wish to attend the student excursion you must attend this session.

Open to all. If you are interested in becoming a mentor please indicate this when you register (This applies to ISB members only)

Mock Academic Interview

Tuesday 14th July - 12:40 - 13:30

Location: Carron 1

Interested in pursuing a career in academic? Curious about the Academic Interview Process? Come watch a mock academic interview with a keen Post Doc (played by Prof. Phil Rowe). The audience will have the chance to quiz the candidate, and at the end of the session, decide if he gets the job! Open to ISB student members.

Inaugural Women in Science Lunch

Thursday 16th July - 12:15 - 13:00

Location: Carron 1

Open to ISB members - A Networking and conversation forum to celebrate contributions from the women of ISB over lunch.

Student Event - Go Ape

This year's student event will take place at Go Ape! in Aberfoyle on Monday 13th July, departing the SECC at 15:45. Please note that this event has now reached capacity.

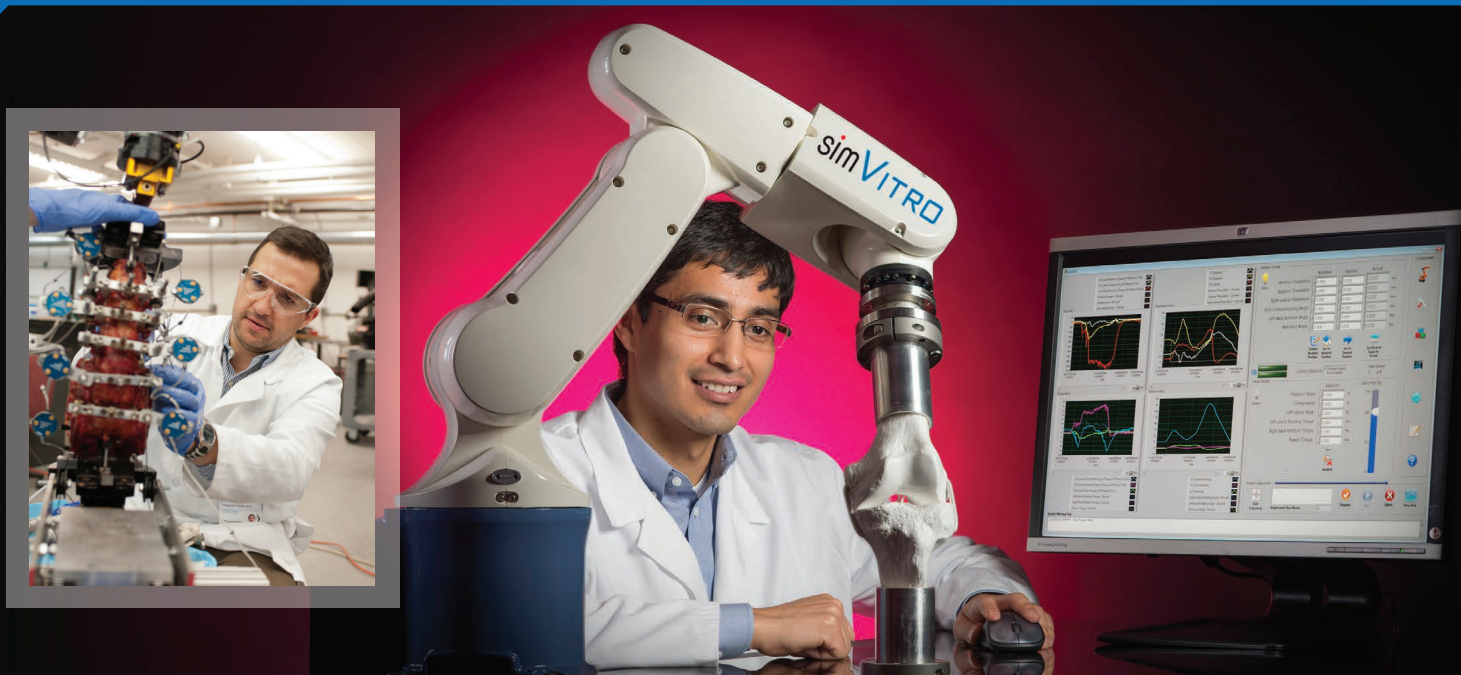
For all queries please contact Kelsey Collins at khmcolli@ucalgary.ca



simulation
solutions

Come and
see us on:
Stand 19

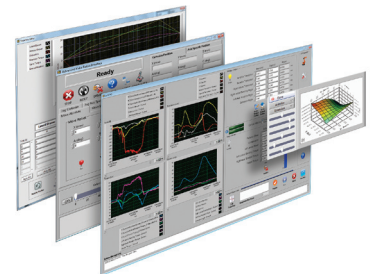
BIOROBOTICS DEMONSTRATION



Simulation Solutions are pleased to be demonstrating the Siemens PLM range of robotic simulation software and its application to simulating human joint motion. The simulation software can be used in conjunction with a KUKA robot to facilitate physical testing.

Simulation Solutions are also excited to be launching the simVITRO range of products from The Cleveland Clinic Foundation. Designed as a universal musculoskeletal simulator it has the following benefits:

- Reduce cost and time to publishing your scientific discoveries
- Select the specimen module(s) that match your research program
- Utilise International Society of Biomechanics standards for joint coordinate systems
- Customise sensors and measurements unique to your particular application via the plug-in style architecture
- Build around new or existing robotic or sensor infrastructure in your laboratory or testing facility. Get the power of simVITRO while leveraging your current capital equipment.



Simulation Solutions is delighted to announce its partnership with Motion Analysis Corporation.



Motion Analysis Corporation is the world's largest manufacturer of high performance optical instrumentation systems that test and measure movement. Their systems combine hardware, software and electro-optical techniques with standard computer and

camera hardware. These systems evaluate motion in a wide variety of applications, including patient positioning, evaluation of surgical procedures, and measurement of positions and forces during cadaveric testing.



Chairpersons

ISB would like to thank the following chairpersons for their services and contribution to the XXV Congress:

Jacqueline Alderson	Zac Domire	Zong-Ming Li	Lucie Risch
Sam Allen	Cyril J. Donnelly	Renate List	Jody Riskowski
Kamiar Aminian	Genevieve Dumas	David Lloyd	Neil Roberts
Kai-Nan An	Yubo Fan	Madeleine Lowery	Mark Robinson
Adamantios Arampatzis	Silva Fantozzi	Tung-Wu Lu	Karyn Ross
Toni Arndt	Dario Farina	Xiaoyu Luo	Anthony Roux
Gerard Ateshian	Johnathan Folland	Huib Maas	Philip Rowe
Andre Attard	Ligia Fonseca	Giulia Mantovani	William Zev Rymer
Cheeseng Aw	Emma Fortune	Samuel Masters	Sean Sankey
Vasilios Baltzopoulos	Laura-Anne Furlong	Kirsty McDonald	Zdenka Sant
Heiner Baur	Diogo Geraldos	Anthony McGarry	Alessandro Santuz
Claudio Belvedere	Alison Gruber	Alison McGregor	Zimi Sawacha
Rachel Bewes	Himadri Gupta	Donal McNally	Alessandra Scarton
Richard Black	Frank Halfwerk	Kevin McQuade	Hazel Screen
Dimitra Blana	Joseph Hamill	Judith Meakin	Sorin Siegler
Mark Blyth	Andrea Hemmerich	Michel Mesnard	Kathy Simpson
Bart Bolsterlee	Walter Herzog	Peter Milburn	Laura Slane
Katherine Boyer	Howard J Hillstrom	Luca Modenese	Nicholas Smith
Anthony Bull	Sandra Hnat	Shafini Mohamad	Darren Stefanyshyn
Valentina Camomilla	Gareth Irwin	Hadi Mohammadi	Martijn Steultjens
Aurelio Capozzo	Bente Rona Jensen	Annegret Mündermann	Caroline Stewart
Paolo Caravaggi	Ilse Jonkers	David Nash	William Taylor
Vincenzo Carbone	Rumit Singh Kakar	Bahman Nasserrolesami	Chris Tijs
Chris Carty	Angela Kedgley	Niels Nedergaard	Ton van den Bogert
Edward Chadwick	Mark King	Geoffrey KC. Ng	Jos Vanrenterghem
John Challis	Marco Knaflitz	Corina Nüesch	Dirkjan Veeger
Jon Clarke	Kathrin Koch	Gretchen Oliver	Claire Villetle
Joshua Cline	Anne Koelewijn	Matthew Pain	Eric Wallace
Paolo Contessa	Niklas Konig	Saikat Pal	Bill Wannop
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Tara Diesbourg	Sung-jae Lee	Krysta Powers	
Catherine Disselhorst-Klug	Giovanni Legnani	Philip Riches	

List correct at time of publication.

Social Programme

All delegates are required to wear their name badge to all of the social programme events.

Tickets

Tickets to attend the social programme can be purchased from the registration desk located in Hall 5 of the SECC. Please be advised that tickets will be issued on a first come first served basis and there is limited availability.

Special Dietary Requirements

If you have special dietary requirements please bring your dietary card which is provided with your delegate badge. This should be placed on your place setting when seated for dinner to ensure the correct meal is served to you as per your dietary requirement.



ISB 2015 Civic Welcome Reception

Sunday 12th July, 19:00 - 21:00

Glasgow Science Centre

The Civic Welcome Reception will be held at the Glasgow Science Centre. A welcome drink will be provided and delegates will have the opportunity to mingle with friends, colleagues and industry partners, providing a relaxed and enjoyable environment. This will offer an excellent opportunity to network in a unique landmark venue prior to the scientific programme.



Congress Party - £25.00

Thursday 16th July, 20:00 - 00:30

Scottish Exhibition and Conference Centre (SECC)

The Congress Party will be an informal evening, with a relaxed and friendly atmosphere filled with Scottish themed entertainment. It is a chance to celebrate a successful ISB Congress with friends and colleagues. Light bites and a welcome drink will be provided.



Golf Day - £165.00

Friday 17th July

Turnberry Golf Club

The ISB golf competition and dinner is taking place at the stunning Turnberry Golf Club on Friday 17th July and is open to all Congress delegates. Transportation to and from the course has been arranged and is included in the price of £165.00.

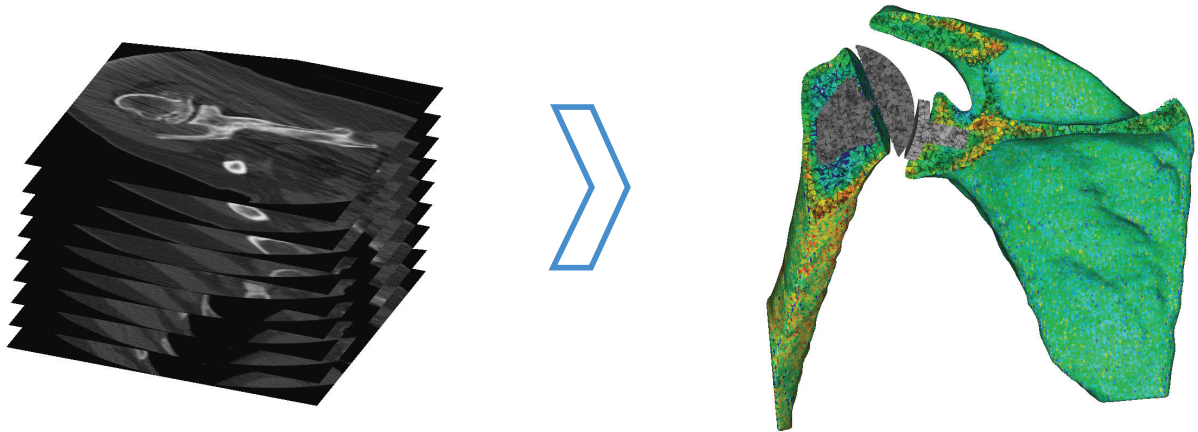
The location of the pick up and drop offs will be communicated to you at the time of booking. At this stage we anticipate a pick up time of around 8am and returning around 10pm.

- Bacon sandwiches, tea and coffee will be provided on arrival
- Tee times will be staggered from 10.30am on the Kintyre course
- Dinner will be provided once you have completed the course.

Mimics® Innovation Suite

Software & Services for Engineering on Anatomy™

With 25 years of expertise, Materialise offers software and services for patient-specific treatment and biomedical research. The Mimics Innovation Suite allows researchers to quickly segment even the most complex anatomical structures. This results in an accurate 3D model which can be used to simulate orthopaedic interventions, optimize your FEA or CFD mesh or prepare musculoskeletal simulations, and all of this within the same software package.



Key Advantages:

- **High geometrical accuracy:** Benefit from the accurate and consistent segmentation in the Mimics Innovation Suite, used by leading researchers
- **Flexible:** Customize the modular software to your unique R&D needs
- **Product quality:** Enjoy the comfort of working with validated, stable software
- **User-friendly:** Segment, measure, design and model directly on your anatomy of interest within one software suite
- **Technical support:** Access our experts for training and further optimizing your workflow

Regulatory Information:

The Medical Edition of the Mimics Innovation Suite consists of the following medical device software components: Mimics Medical version 18.0 and 3-matic Medical version 10.0 (released 2015). Mimics Medical is intended for use as a software interface and image segmentation system for the transfer of imaging information from a medical scanner such as a CT scanner or a Magnetic Resonance Imaging scanner. It is also used as pre-operative software for simulating /evaluating surgical treatment options. 3-matic Medical is intended for use as software for computer assisted design and manufacturing of medical exo- and endo-prostheses, patient-specific medical and dental/orthodontic accessories and dental restorations. The Research Edition of the Mimics Innovation Suite consists of the following software components: Mimics Research version 18.0 and 3-matic Research version 10.0 (released 2015). Mimics Research is intended only for research purposes. It is intended as a software interface and image segmentation system for the transfer of imaging information from a variety of imaging sources to an output file. It is also used as software for simulating, measuring and modeling in the field of biomedical research. Mimics Research must not be used, and is not intended to be used, for any medical purpose whatsoever. 3-matic Research is intended for use as a software for computer assisted design and engineering in the field of biomedical research. 3-matic Research must not be used, and is not intended to be used, for the design or manufacturing of medical devices of any kind. Materialise Belgium – Technologielaan 15 – 3000 Leuven – Belgium

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Materialise
innovators you can count on 

Sponsors and Exhibitors Overview



Vicon

Stand Number: 17

Vicon specialises in delivering highly accurate motion capture systems used by over 4,000 biomechanics professionals worldwide. Its flagship camera line offers the highest resolution, frame rates and accuracy available, allowing detailed motion capture in almost any environment. Vicon's global clients include: University of Strathclyde; Li-Ning; Adidas; Australian Institute of Sport; Loughborough University; Japanese Institute of Sport; University of Capetown; Redbull; Champion; Ohio State University and sportscotland.

www.vicon.com



AMTI

Stand Number: 53

Biomechanics, Engineering, Science,... the world is fundamentally multi-axial. The complexity of these environments can only be accurately observed, measured and tested with multi-axis instruments. AMTI's innovative technology creates the most reliable and precise multi-axis force platforms and sensors. AMTI joint simulators provide true to life testing environments capable of simulating all joint motions and loads of the human body.



Motek

Stand Number: 21

Motekforce Link provides innovative products for treatment of movement disorders in clinical rehabilitation. Our high-quality rehabilitation products with real-time feedback use augmented/virtual reality techniques combined with motion platforms, instrumented treadmills and motion-capture to study/treat balance and locomotion disorders. Game elements and rich immersive interactions stimulate and improve training effects. The technology uses multi-sensory real-time feedback and offline analysis tools.



Simulation Solutions

Stand Number: 19

Cleveland Clinic, a centre of excellence for biomechanical testing of biological structures and biomaterials, has appointed Simulation Solutions Limited to deliver simVITRO in Europe. The simVITRO Robotic Musculoskeletal Simulators are designed to combine the accuracy, repeatability and ubiquity of a KUKA robot with simVITRO software that provides a biomechanics centric control interface. This allows researchers to focus less on robotics and more on asking and answering clinical questions. Visit stand 19 for a live demonstration.

Sponsors and Exhibitors Overview



PAL Technologies

Stand Number: 95

PAL Technologies' award winning instrument - activPAL™ - provides an objective measure of the free-living activities undertaken over a seven day period in people with, for example, stroke or joint replacement. Objective data on activities including, uniquely, posture allocation (upright/sitting/lying) will provide the evidence to justify novel interventions and treatment strategies. As a measure of participation in free-living community and household activities, activPAL provides an outcome complementary to standard gait laboratory or clinic based measures of ability.

www.paltechnologies.com



measure. analyze. innovate.

Kistler

Stand Number: 87

Vicon specialises in delivering highly accurate motion capture systems used by over 4,000 biomechanics professionals worldwide. Its flagship camera line offers the highest resolution, frame rates and accuracy available, allowing detailed motion capture in almost any environment. Vicon's global clients include: University of Strathclyde; Li-Ning; Adidas; Australian Institute of Sport; Loughborough University; Japanese Institute of Sport; University of Capetown; Redbull; Champion; Ohio State University and sportscotland. www.vicon.com



Delsys

Stand Number: 25

Delsys is a world leader in the design, manufacture, and marketing of a broad portfolio of high performance Electromyography, Biomechanical and Physiological sensors. Used by thousands of researchers and educators in 85 countries worldwide, our innovative products and patented parallel-bar surface EMG sensors are often a critical differentiator in our customers' research and play a fundamental role in state of the art Motor Control research and Movement Science.



Qualisys

Stand Number: 49

Delsys is a world leader in the design, manufacture, and marketing of a broad portfolio of high performance Electromyography, Biomechanical and Physiological sensors. Used by thousands of researchers and educators in 85 countries worldwide, our innovative products and patented parallel-bar surface EMG sensors are often a critical differentiator in our customers' research and play a fundamental role in state of the art Motor Control research and Movement Science.

Sponsors and Exhibitors Overview



Motion Analysis

Stand Number: 85

Motion Analysis provides the gait community with the tools needed to perform their jobs efficiently. Recent developments include: Two new cameras, the Raptor 12HS and the Kestrel; a comprehensive collection of SIMM modules packaged for Gait labs (SIMM Gait), which is a clinical measurement, evaluation and reporting tool; and an automatic pan/tilt head video system (APT) that tracks the subject in real time as they move in the laboratory capture area.



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Elsevier

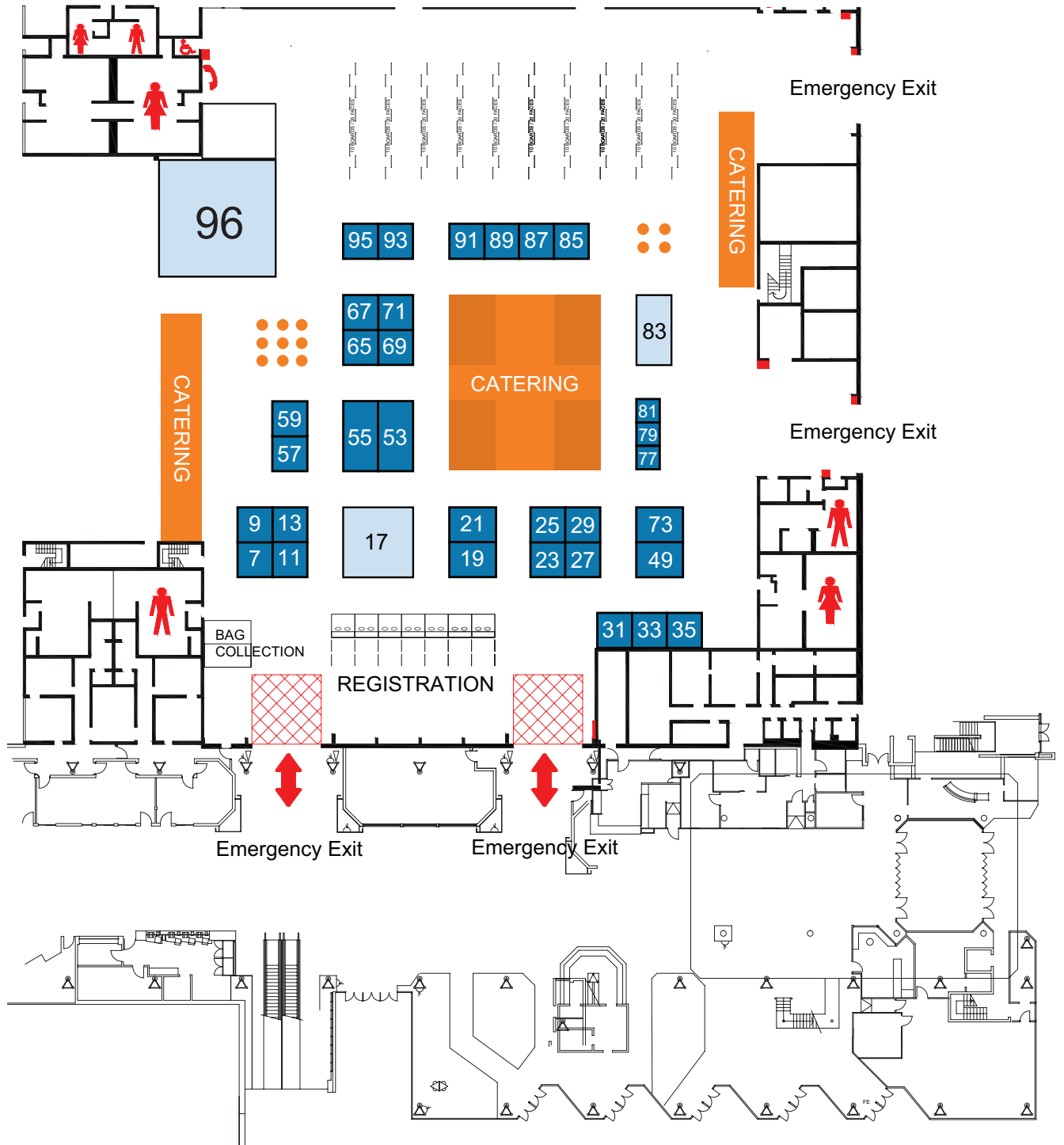
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Exhibitors

007	C-MOTION
011	THE MOTIONMONITOR
013	SUMMIT MEDICAL & SCIENTIFIC-MYON
017	VICON
019	SIMULATION SOLUTIONS LTD.
021	MOTEKFORCE LINK
023	TEKSCAN
025	DELSYS
027	SIMI REALITY MOTION SYSTEMS-TRACKSYS
029	BERTEC
031	MATERIALISE NV
033	ISB SOCIETY
035	NORAXON
049	QUALISYS
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055	WISEPRESS
057	MOTICON
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089	INSTRON
091	WORLD PRECISION INSTRUMENTS
093	NOVEL
095	PAL TECHNOLOGIES
096	THE EXPERIMENT

Exhibition Floor Plan



About Glasgow

Banks and Currency Exchange

The British currency is the Great British Pound - GBP, £, Sterling. Foreign currency and travellers cheques can be exchanged at banks, post offices, travel agents, bureau de change kiosks and some hotels throughout the city. Credit cards are widely accepted in Glasgow and Automated Teller Machines (ATMs) or cash machines can be found throughout the city. The nearest cash machine is located within the SECC.

Language

The official language is English.

Time Zone

Glasgow's timezone is Greenwich Mean Time (GMT) or one hour ahead of GMT, known as British Summer Time (BST) during daylight saving time in the summer months.

Transportation within Glasgow

Buses

First Bus Glasgow is the largest bus operating company in Scotland, with over 1000 buses in operation. Visit <http://www.firstgroup.com/ukbus/glasgow/> for more information. The 100 Riversider service runs from George Square (north) in Glasgow city centre to the SECC, then Riverside Museum and return, every 30 minutes.

Taxis

Glasgow's taxi drivers are known to be some of the friendliest in the world!

Glasgow Taxis operate 5-seater "black cabs" in and around the city. If their yellow light is on they can be flagged down on the street, or alternatively call +44 (0) 141 429 70 70 to book.

Trains

The Exhibition Centre station is the SECC's own dedicated railway station allowing easy access from the city centre and the suburbs. Six trains an hour (around every 10 minutes) from Central station (Platform 17 is on the lower level) will bring you to Exhibition Centre station in a journey time of just three minutes.

There is a fast intercity rail service, which operates from many of the major towns in England to Glasgow Central. There is a sleeper service from London to Glasgow. The average train journey time from London to Glasgow is approximately five hours.

Virgin Trains - provides seven trains per day from London to Glasgow.

Virgin Trains Group Travel Offer

Travelling to the conference by train offers you the perfect opportunity for last minute preparations for the day or simply the chance to relax and unwind. Virgin Trains serve Glasgow from many cities on the West Coast including London, Birmingham, Preston and Carlisle. The best fares can be found at www.virgintrains.co.uk, with advance booking prices and no fees. The further in advance you book, the more you save (up to 12 weeks in advance).

For 3-9 passengers travelling together there is a 20% discount off Advance Fares booked through their website - for more information go to www.virgintrains.co.uk/tickets-offers/group-travel/. Don't forget to claim your Nectar points for these bookings.

ScotRail

Scotland's Rail Operator gives you details on the West Highland Line, the North Highland Line and Caledonian Sleepers (overnight trains from Scotland to London). You will also find timetables, special ticket offers and other useful travel links. For more information please visit the conference website.

NextBikes - Free Bike Hire for Delegates

As part of a new initiative to promote a greener and healthier conference, the SECC have introduced NextBikes, whereby delegates can hire bikes for free to travel round Glasgow.

Delegates are entitled to use the bikes for multiple journeys of up to 45 minutes with only a £1 credit card validation deposit required (refundable on request). If you would like to extend any journey longer than 45 minutes, a discounted fee of £0.50 for every subsequent half hour use will apply (they may also use your £1 deposit to extend your journey times).

About Glasgow

The nearest Nextbikes station is conveniently located right outside the Clyde Auditorium, with thirty more located around the city, allowing you to take in the key attractions during your visit to Glasgow. Delegates can obtain information about the bike stations and their locations by either visiting the Nextbike website or by downloading the Nextbike app.

Step 1: Registration

Please follow these instructions carefully to avoid additional charges:

1. Visit www.nextbike.co.uk and select 'sign up' from the menu
2. Fill in the information requested selecting 'Regular Fare' from the subscription option
3. Select 'Continue' to complete. You will receive a text with your login details
4. Log in and enter voucher code **769876** in the vouchers section of your account
5. Finally, enter your payment details in the 'Payment' section of your account. You must pay a £1 card validation fee
6. Your subscription is valid for one week giving you free 45 minutes per ride

Important: Do not enter your payment details before using your voucher otherwise you will be charged standard registration prices. If registering via app you should leave the payment section blank and return to the payment section once registered and then entered the voucher number.

Step 2: Rent / return Nextbikes

- **By app** - Download the free Nextbike app and follow instructions (available on iTunes / Android)
- **By phone** - Phone the Nextbike hotline on +44(0)20 8166 9851 and follow instructions provided
- **Online** – select rent/return in your online account at www.nextbike.co.uk

A 4-digit code is provided to open the lock. This can also be used to secure the bike mid-hire.

Renting and returning by app requires mobile data access therefore we advise international delegates to use the hotline to avoid data roaming fees.

Important: remember to return the bike using one of the methods above to avoid additional fees.

Terms and conditions:

- The first 45 minutes of each rental is free for SECC delegates who have used the voucher code
- After this free period you will be charged 50p per 30 minutes up to a maximum of £5 per 24 hours
- Any charges will be applied to your debit/credit card used at registration
- Bike availability is not guaranteed – please check the app or website for availability at stations
- The £1 deposit is refundable on request by emailing info@nextbike.co.uk
- The Nextbike hotline is charged at the UK standard national rate.

VAT Information

All purchases in Britain, with the exception of food and books, are subject to VAT, which increases the cost of an item by 20%. This is already included in the price shown in shops. Visitors from non-EU countries can claim a refund of VAT from selected shops on goods to be taken out of the country under the Retail Export Scheme.

Weather

Glasgow is one of Scotland's milder areas with temperatures usually higher than most places of equal latitude away from the UK, due to the warming influence of the Gulf Stream. Summers are warm and have the added benefit of 16 hours of daylight and many of the tourist attractions have extended hours during this period.

Disclaimer

The Organising Committee and the ISB Meeting Organisers cannot accept liability for loss or damage of whatever nature incurred by participants and/or accompanying persons or for the loss or damage to their luggage and/or personal belongings.

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