International Society for Prosthetics and Orthotics
United Kingdom Member Society

Trent International Prosthetic Symposium

2016
ISPO UK MS Annual Scientific Meeting

28th September – 1st October 2016
Glasgow, UK

DRAFT PROGRAMME
29 July 2016
Wednesday 28 September 2016  
TIPS2016

0730 hrs  Registration Opens

0815 hrs  Welcome – Lal Landham & David Gow

0830 hrs  Effects of adding vibrotactile feedback to a myoelectric controlled hand on performance and visual attention with a disruption of visual feedback
Eitan Raveh, Dept. of Occupational Therapy, Tev Aviv University, Israel

0845 hrs  Myoelectric prosthesis following total thumb amputation
V G van Heijningen, Rijndam Rehabilitation Institute, Erasmus Medical Center, Rotterdam, The Netherlands

0900 hrs  Impact of Bilateral Upper Limb Prosthesis Simulators in Pre-Prosthetic Training: a Case Study
Debra Latour, TRS Prosthetics, Boulder, CO, USA

0915 hrs  The use of 3D CAD/CAM system in the design and manufacture of forequarter prosthesis
M Currie & L Powell, AR Clinic9, Addenbrookes Hospital, Cambridge, UK

0930 hrs  The impact of Partial Hand Amputation - a Case Presentation
Lindsey Barker, Harold Wood Long Term Conditions Centre, Essex, UK

0940 hrs  Complex Case Study: The usefulness of a myoelectric prosthesis to aid the transition from childhood to teenage years
J Herriott, National Rehabilitation Hospital, Dublin, Ireland

0950 hrs  Myoelectric arm prosthesis approach in children at the Japan Hyogo Rehabilitation Center
Yaeko Shibata, Hyogo Rehabilitation Center, Kobe, Japan

1000 hrs  Refreshments/Exhibitor Showcase

1030 hrs  Latest developments in the use of Osseointegrated upper limb prostheses
Rickard Branemark, Director of Centre of Orthopaedic Osseointegration, Sahlgrenska University Hospital, Gothenburg, Sweden

1130 hrs  The PP-Arm: the implementation of a national Prosthesis Prescription Protocol
P A Wijdenes, Dept. of Rehabilitation Medicine, University Medical Center, Groningen, The Netherlands

1145 hrs  Forming an international consortium for sharing resources of upper limb absence worldwide - the handsmart group
Liselotte N Hermansson, Dept. of Prosthetics & Orthotics, Orebro University Hospital, Orebro, Sweden

1200 hrs  Lunch/Exhibitor Showcase

1300 hrs  Developing a test to determine quality of proportional control over a myoelectric prosthetic hand
Anniek Heerschap, Centre for Human Movement Sciences, University of Groningen, The Netherlands

1315 hrs  Evolution of Refined Clothespin Relocation Test for Prosthesis Users for use as a Clinical Assessment
Ali Hussaini, Institute of Biomedical Engineering, University of New Brunswick, Canada

1330 hrs  An Exploration of the correlation between an amended Box and Blocks Assessment, the standard Box and Blocks Assessment and the Assessment of Capacity of Myoelectric Control, with myoelectric prosthesis users
Melissa Jacobs, Queen Mary's Hospital, London, UK

1340 hrs  Development and reliability testing of a qualitative score for rating compensatory movements in upper limb prosthesis wearers during execution of 4 FCE-tests
T M J van der Laan, University Medical Centre Groningen, The Netherlands

1350 hrs  Development of a functional capacity evaluation measurement for individuals with upper limb reduction deficiency or amputation
C K van der Sluis, University Medical Centre Groningen, The Netherlands
1405 hrs  A reflective case study of a quadrilateral amputee, over a 16 year period: exploring coping with the challenges of activities of daily living, prosthetic interventions and adjusting to the psychological impact of such a severe level of limb loss
Charlie Hurd, West Midlands Rehabilitation Centre, Birmingham, UK

1420 hrs  A protocol to establish the relative importance of factors influencing ease of myoelectric prosthesis control
Alix Chadwell, University of Salford, Salford, UK

1435 hrs  Choosing a multi-functional hand that suits the patient’s requirements
Judy Davidson, Eastern Sydney Occupational Therapy, Sydney, Australia

1445 hrs  POSTER PRESENTATIONS

1500 hrs  Refreshments/Poster Exhibition/Exhibitor Showcase

1530 hrs  3D printed upper limb prosthetics are not backed by clinical evidence
Laura E Diment, Institute of Biomedical Engineering, University of Oxford, UK

1545 hrs  Utilising 3D printing techniques when providing unique assistive devices: a Case Study
Sarah Day, National Centre for Prosthetics & Orthotics, University of Strathclyde, Glasgow, UK

1600 hrs  Application of Finch, a 3D printed prosthetic hand, to a patient with bilateral upper-limb deficiency
Satoko Moguchi, The University of Tokyo Hospital, Tokyo, Japan

1610 hrs  MANUFACTURERS’ WORKSHOPS
Touch Bionics; Steeper; Ottobock; TRS/Fillauer

1740 hrs  DAY END

1900 hrs  Welcome Reception & Buffet
Thursday 29 September 2016  
TIPS2016

0800 hrs  Registration Opens

Chair: John Sullivan

0830 hrs  Advances in prosthesis control - gesture control  
Alison Goodwin, Touch Bionics, Livingston, UK

0845 hrs  Structured training for advanced prosthesis control  
Sebastian Amsuss, Ottobock Healthcare Products GmbH, Vienna, Austria

0900 hrs  Upper limb osseointegration, prosthetic technology  
Stewe Jonsson, TeamOlmed, Kungsbacka, Sweden

0915 hrs  Clinical Pattern Recognition in the US: Experiences and Demographics  
Blair A Lock, Coapt LLC, Chicago, IL, USA

0930 hrs  Clinical experience of developing bespoke cycling prostheses  
Brian Bradbury & Paul Richardson, PACE Rehabilitation, Cheadle, UK

0945 hrs  Evolution of an Aesthetic Heavy-Duty Electric Terminal Device  
Harold H Sears, Motion Control div. of Fillauer, Utah, USA

1000 hrs  Refreshments/Exhibitor Showcase

1030 hrs  Phantom Pain Revisited  
Tamar Makin, Associate Professor, FMRIB Centre, Nuffield Department of Clinical Neuroscience, University of Oxford, UK

1130 hrs  Investigations of the uncanny valley for prosthetic hands  
Ellen Poliakoff, University of Manchester, Manchester, UK

1145 hrs  Exploring everyday materials and prosthetic hands  
Graham Pullin, DJCAD, University of Dundee, Dundee, UK

1200 hrs  Lunch/Exhibitor Showcase

1300 hrs  CASE STUDIES

1400 hrs  Osseointegrated Prostheses for Transhumeral Amputees: Long-term follow up of patients using Patient-rated Outcome Measures  
Kerstin Caine-Winterberger, Sahlgrenska University Hospital, Gothenburg, Sweden

1415 hrs  Decreasing phantom limb pain by virtual reality - a Case Presentation  
Z Pihlar, University Rehabilitation Institute, Ljubljana, Slovenia

1430 hrs  Cutaneous Anchor Technology and Creative Solutions to Complex Problems  
Debra Latour, Single-Handed Solutions LLC, Springfield, MA, USA

1445 hrs  POSTER PRESENTATIONS

1500 hrs  Refreshments/Poster Exhibition/Exhibitor Showcase

1530 hrs  Factors influencing use and satisfaction with upper limb prosthesis  
H Burger, University Rehabilitation Institute, Ljubljana, Slovenia

1545 hrs  Use of myoelectric prostheses and participation in everyday activities - environmental factors impact on assistive technology use  
Cathrine Widehammar, Dept. of Pediatrics, Orebro University Hospital, Orebro, Sweden

1600 hrs  The relationship between prosthetic control, wearing patterns and daily prosthesis use  
Liselotte N Hermansson, Dept. of Prosthetics & Orthotics, Orebro University, Orebro, Sweden
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1615 hrs</td>
<td><strong>Symptom severity and prosthesis use: exploring the pain experience using the Disabilities of the Arm Shoulder and Hand (DASH)</strong>&lt;br&gt;Lewis Mackay, Touch Bionics, Livingston, UK</td>
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<td>1630 hrs</td>
<td><strong>The influence of environment: experiences of users of myoelectric arm prosthesis: a Qualitative Study</strong>&lt;br&gt;Cathrine Widehammar, Dept. of Pediatrics, Orebro University Hospital, Orebro, Sweden</td>
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<td>1645 hrs</td>
<td><strong>Web-based innovative care using Gemstracker AADA, introducing remote follow up (monitoring) of function</strong>&lt;br&gt;L M Melis-Schrijver, Rijndam Rehabilitation Institute, Erasmus Medical Center, Rotterdam, The Netherlands</td>
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<td>1700 hrs</td>
<td><strong>Comparison of prosthetic terminal device grip force adjustability between myoelectric control and Bowden cable control</strong>&lt;br&gt;Kengo Ohnishi, Tokyo Denki University, Tokyo, Japan</td>
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<td>1715 hrs</td>
<td><strong>Scottish Specialist Prosthetics Service: Advances in our understanding with fitting, training, providing and maintaining multi-articulating upper limb prosthetics for our patients</strong>&lt;br&gt;Brian Garrett &amp; Anne Sillitoe, SMART Centre, Edinburgh, UK</td>
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<td>1725 hrs</td>
<td><strong>Report of survey on situation and the use of unilateral TR myoelectric hand in Japan: Comparison between continuous user and suspended to use groups</strong>&lt;br&gt;Jumpei Oba, Dept. of Occupational Therapy, Kobe Gakuin University, Kobe, Japan</td>
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<td>1735 hrs</td>
<td><strong>DAY END</strong></td>
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0800 hrs  Registration opens

*Chair: Saeed Zahedi*

0830 hrs  **Textile Electrodes for Acquisition of Myoelectric Signals**
*Shannon Brown, Chalmers University of Technology, Goteborg, Sweden*

0845 hrs  **Digital Controller for Artificial Limbs fed by Neuromuscular Interfaces via Osseointegration**
*Enzo Mastinu, Chalmers University of Technology, Goteborg, Sweden*

0900 hrs  **Impact of Upper Limb VC-VO Prosthesis Simulators in Prosthetic Rehabilitation**
*Debra Latour, TRS Prosthetics, Boulder, CO, USA*

0915 hrs  **A preliminary study on characterisation of finger interface kinetics using a pressure and shear sensor system**
*Nicholas Hale, University of Southampton, Southampton, UK*

0930 hrs  **An audit on paediatric upper limb prescriptions at Cardiff’s prosthetic centre over a period of 18 months, when 3D printing services were available**
*Sarah Day, National Centre for Prosthetics & Orthotics, University of Strathclyde, Glasgow, UK*

0945 hrs  **Validation of AnyBody™ model kinematics for characterising prosthesis functional usage: a comparison with Vicon® Plug-in-Gait model**
*Vikranth H Nagaraja, Institute of Biomedical Engineering, University of Oxford, UK*

1000 hrs  **Refreshments/Exhibitor Showcase**

1030 hrs  **Serious Gaming in learning to use a prosthetic device**
*Raoul Bongers, Assistant Professor, Centre for Human Movement Sciences, University Medical Centre, Groningen, The Netherlands*

1115 hrs  **Patient’s perceptions of upper limb prosthetics and how virtual reality may be used in clinical practice**
*Carol Garcia, Senior Physiotherapy Lecturer and Team Leader Physiotherapist, Faculty of Health & Wellbeing, Sheffield Hallam University, Sheffield, UK*

1200 hrs  **Lunch/Exhibitor Showcase**

1300 hrs  **Simulated gripping of an object with a real-time musculoskeletal model of the hand: application to prosthetic control**
*Edward K Chadwick, Guy Hilton Research Centre, Keele University, Stoke-on-Trent, UK*

1315 hrs  **A multimodal immersive haptic virtual reality system for the rehabilitation of phantom limb pain in upper limb amputees**
*Peter Snow, Royal National Orthopaedic Hospital, Stanmore, UK*

1330 hrs  **MANUFACTURERS’ PANEL DISCUSSION**
Blair Lock, Coapt
Harold Sears, Motion Control
Hans Dietl, Ottobock Healthcare plc
Ted Varley, Steeper
Bob Radocy, TRS
Ian Stevens, Touch Bionics

1500 hrs  **CLOSE - TIPS 2016**

1500 hrs  **Refreshments/Exhibitor Showcase**
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<td>1530 hrs</td>
<td>Assessing Variability in Lower Limb Prosthetic Socket Fabrication</td>
<td>A S Dickinson, Faculty of Engineering and the Environment, University of Southampton, UK</td>
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<td>1542 hrs</td>
<td>Comparison of subjects using purely mechanical hip disarticulation/hemipelvectomy limbs to those using hydraulic and microprocessor limbs</td>
<td>Elena Harris, WESTMARC, Queen Elizabeth University Hospital, Glasgow, UK</td>
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<td>1554 hrs</td>
<td>Gon(y)algia parasthetica/Saphenous neuralgia: masquerading as residual limb pain</td>
<td>A Boppana, West Midlands Rehabilitation Centre, Birmingham, UK</td>
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<td>1606 hrs</td>
<td>Characterisation of Low Cost CAD/CAM Scanners</td>
<td>A S Dickinson, Faculty of Engineering &amp; the Environment, University of Southampton, UK</td>
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<td>1618 hrs</td>
<td>Patterns of bony deformity following transtibial amputation due to septicaemia</td>
<td>M Geada, Royal National Orthopaedic Hospital, Stanmore, UK</td>
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<td>1630 hrs</td>
<td>Equipping Therapists to rehabilitate amputees post sudden onset natural disaster – BACPAR’s Collaboration with Handicap International UK</td>
<td>M J Cole, School of Rehabilitation Sciences, St George’s, University of London, London, UK</td>
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<td>1642 hrs</td>
<td>George Murdoch Prize Lecture - Introduced by Professor Rajiv Hanspal, President, ISPO</td>
<td>The development of biomimetic hydraulic self-aligning ankles for lower limb amputees</td>
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<td>Dr David Moser, Head of Research, Blatchford Group, Basingstoke, UK</td>
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<td>1715 hrs</td>
<td>ISPO UK MS ANNUAL GENERAL MEETING</td>
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Saturday 1 October 2016  ISPO2016 - PROSTHETICS STREAM

0800 hrs  Registration opens

**Chair: Peter Kyberd**

0830 hrs  Targeted Muscle Re-ennervation: UK experiences
*Invited Speaker: Norbert Kang, Consultant Plastic Surgeon, Royal Free Hospital, London, UK*

0900 hrs  Outcomes and Challenges of fitting microprocessor controlled knees: a 6-month review
*Laura Brady, WestMARC, Queen Elizabeth University Hospital, Glasgow, UK*

0912 hrs  Clinical evaluation of a measurement system for loading at the lower limb stump/socket interface
*Michael McGrath, Faculty of Engineering and the Environment, University of Southampton, UK*

0924 hrs  The 3-layer silicone socket design for lower limb amputees
*Ian Talbot & Lynzy Holding, Aintree University Hospital, Liverpool, UK*

0936 hrs  Towards a computationally efficient model of transtibial socket fitting
*J W Steer, Faculty of Engineering and the Environment, University of Southampton, UK*

0948 hrs  Assessment of socket interface kinematics and kinetics based on a trans-femoral amputee case study
*Jinghua Tang, Faculty of Engineering and the Environment, University of Southampton, UK*

1000 hrs  Refreshments/Exhibitor Showcase

1045 hrs  The Blatchford Lecture: Targeted Muscle Re-ennervation
*Guest Speaker: Todd Kuiken, Rehabilitation Institute of Chicago, Chicago, IL, USA*

1200 hrs  Lunch/Exhibitor Showcase

1300 hrs  The future funding of advanced prostheses
*Imad Sedki, The Royal National Orthopaedic Hospital, Stanmore, UK*
*John Colvin, WestMARC, NHS Greater Glasgow & Clyde, Glasgow, UK*
*Alan Mistlin, Frimley Park Hospital NHS Foundation Trust, UK Ministry of Defence, UK*

1330 hrs  Direct Skeletal Fixation: An Overview
*S Sooriakumaran, Queen Mary’s Hospital, Roehampton, London, UK*

1400 hrs  Panel Discussion: Interface Technology
*Imad Sedki, The Royal National Orthopaedic Hospital, Stanmore, UK*
*John Colvin, WestMARC, NHS Greater Glasgow & Clyde, Glasgow, UK*
*Carolyn Young, Programme of Care Lead – Trauma, NHS England (Midlands & East), UK*

1445 hrs  Prizegiving

1515 hrs  CONFERENCE CLOSE
Saturday 1 October 2016          ISPO2016 - ORTHOTICS STREAM

0800 hrs  Registration opens

Chair:  Steve Seccombe

0915 hrs  The OETT LECTURE
Orthotics in a Digital World
Guest Speaker:  Chris Drake, Orthotics Experts Ltd., London, UK

1030 hrs  Effectiveness and cost effectiveness of prosthetics and orthotics services/interventions
A Healy, Science Centre, Staffordshire University, Stoke-on Trent, UK

1045 hrs  Use of the Theory of Planned Behaviour to understand beliefs about use of Ankle-Foot Orthoses (AFOs) in people with stroke
Christine McMonagle, NCPO, Dept of Biomedical Engineering, University of Strathclyde, Glasgow, UK

1100 hrs  Extending Practice:  The role of an Orthotist within the Orthopaedic Clinic
Laura Barr, Extended Scope Orthotist (Foot & Ankle Orthopaedics)
Greater Glasgow & Clyde NHS, Glasgow, UK

1130 hrs  Lower limb salvage a “double edge sword”
Frank L Bowling MSc (Surg) DPM PhD, FFPM, RCPS
Podiatric Doctor (Surgery), University of Manchester, Manchester, UK

1200 hrs  Lunch/Exhibitor Showcase

1300 hrs  Partial foot amputation:  orthotic or prosthetic care pathway – which is better?
Lindsey Webster, Orthotist, Queen Mary’s Hospital, Roehampton, London, UK

1330 hrs  To be confirmed

1445 hrs  Prizegiving

1500 hrs  CONFERENCE CLOSE