



TIPS 2016 – Chair's Report

The Trent International Prosthetic Symposium was created by a clinical team with a specific interest in upper limb prosthetics. They were based in the Midlands, so the venue was always the Nottingham area, hence the name. As upper limbs represent a small proportion of the prosthesis using population, the majority of conferences do not emphasise them. Only two internationally do, and TIPS is unique in being the only one that is *exclusively* upper limb.

When the original team retired the UK NMS took it over, and it began to move to different venues across the UK. This year we are trying something different, by putting it side by side with the national annual scientific meeting, it will take place just outside Glasgow in September (28th - 30th). The theme for this years TIPS is: *Advances in Our Understanding*.

Prosthetics has a long history, for all of this time practitioners have tried to match the needs of the users with the functions of the prostheses. The difficulties arise when there is a mismatch between what the user needs and the prosthesis can provide. In the past, it has been difficult to identify what it is these needs in order to allow people to control and use their prostheses effectively. With advances in compact computers and medical imaging technology it is becoming possible to unlock how we control our limbs, and how people adapt to limb loss and absence, and how we can use this knowledge to improve the control of the prosthetic limbs.

This year's keynotes are: Tamar Makin, from Oxford University talking on her findings on what is happening in the brain to create Phantom limbs; Rickard Branemark from Integrum Sweden on the latest on Osseointegration plus Raoul Bongers (from The Netherlands) and Carol Garcia (from Sheffield Hallam) will be discussing the applications of Virtual Reality in prosthetic rehabilitation.

The free papers call has enjoyed a very strong response with over fifty speakers from across the globe, from the States to Australia, Holland to Japan. There is an interest in functional assessment and outcome measures, with a number of presentations on the development of new measurement tools as well as their use in gauging the impact of a new prosthetic design or how people adapt and learn to use their prostheses.

TIPS has always had a strong clinical focus, and alongside the techniques and technology, will be case studies on different aspects of the process. One of the new factors that is impacting on our field is 3D Printing, (also known as Rapid Manufacturing). Using this technique we can now produce items completely customised to the individual. The questions we all ask concerns how effective or useful these solutions are, how long will they last? There are papers in this years TIPS that will attempt to answer these concerns.

A copy of the evolving programme is attached overleaf (use the "zoom" function to enlarge the text). Along with manufacturer's workshops, a panel discussion plus the sort of lively social program that TIPS has always been famous for – full details to follow shortly - TIPS'16 looks to be the place to go in 2016.

See you there!

Peter Kyberd, Chair, TIPS 2016

TIPS '16
Symposium Schedule

ISPO MS Annual Scientific Meeting 2016

Wednesday 28th September			Thursday 29th September			Friday 30th September			Saturday 1st October		
8:00 AM			8:00 AM			8:00 AM			8:00 AM		
8:15 AM	Welcome - David Gow		8:15 AM			8:15 AM	Welcome - Saeed Zahedi		8:15 AM	Prosthetics Stream	
8:30 AM	Enzo	Mastrini	Digital Controller for Artificial Limbs Fed by Neuromuscular Interfaces via Osseointegration	8:30 AM	Alison	Goodwin	Advances in prosthesis control – gesture control	8:30 AM	Shannon	Brown	Textile Electrodes for Acquisition of Myoelectric signals
8:45 AM	Vera G.	van Heijningen	Myoelectric prosthesis following total thumb amputation	8:45 AM	Sebastian	Amisus	Structured training for advanced prosthesis control	8:45 AM	Eilan	Raweh	Effects of Adding Vibrotactile Feedback to a Myoelectric Controlled Hand on Performance and Visual Attention with a Disruption of Visual Feedback
9:00 AM	Debra	Latour	Impact of Bilateral Upper Limb Prosthesis Simulators in Pre-Prosthetic Training: A Case Study	9:00 AM	Stewie	Jönsson	Upper limb osseointegration, prosthetic technology	9:00 AM	Debra	Latour	Impact of Upper Limb VC-VO Prosthesis Simulators in Prosthetic Rehabilitation
9:15 AM	M.	Cume	A case study in the use of 3D CAD/CAM system use in the design and manufacture of forearm prosthesis	9:15 AM	Blair A	Lock	Clinical Pattern Recognition in the US: Experiences and Demographics	9:15 AM	Nicholas	Hale	A preliminary study on characterisation of finger interface kinetics using a pressure and shear sensor system
9:30 AM	Lindsay	Barker	The Impact of Partial Hand Amputation – A Case Presentation.	9:30 AM	Brian	Bradbury	Clinical experience of developing bespoke cycling prostheses	9:30 AM	Jane	Skoda	An audit on paediatric upper limb prescriptions at Cardiff's prosthetic centre over a period of 18 months, when 3D printing services were available
9:40 AM	J.	Hemrott	Complex Case Study: The usefulness of a myoelectric prosthesis to aid the transition from childhood to teenage years	9:45 AM	Harold	Sears	Evolution of an Aesthetic Heavy-Duty Electric Terminal Device	9:45 AM	Vikram H.	Nagaraja	Validation of AnyBody™ model kinematics for characterising prosthesis functional usage: a comparison with Vicon® Plug-in-Gait model
9:50 AM	Yasuko	Shibata	Myoelectric arm prosthesis approach in children at the Japan Hyogo Rehabilitation Center								
10:00 AM	Coffee Break/Exhibitor Showcase		10:00 AM	Coffee Break/Exhibitor Showcase		10:00 AM	Coffee Break/Exhibitor Showcase		10:00 AM	Coffee Break/Exhibitor Showcase	
10:30 AM	Keynote - Rickard Branemark		10:30 AM	Keynote - Tamar Makin		10:30 AM	Keynotes - Carol Garcia/Raoul Bongers			Keynote - Todd Kuiken Targeted Muscle Re-ennervation Blatchford Lecture	Free papers
11:30 AM	P.A.	Wijdenes	PPP-Arm: the implementation of a national Prosthesis Prescription Protocol	11:30 AM	Eilan	Polakoff	Investigations of the uncanny valley for prosthetic hands				
11:45 AM	Lottie	Hermansson	Forming an international consortium for sharing resources of upper limb absence worldwide - the handman group	11:45 AM	Graham	Pullin	Exploring everyday materials and prosthetic hands				
12:00 PM	Lunch		12:00 PM	Lunch		12:00 PM	Lunch		12:00 PM	Lunch	
1:00 PM	Arneek	Heerschoop	Developing a test to determine the quality of proportional control	1:00 PM				1:00 PM	Ed	Chadwick	Simulated gripping of an object with a real-time musculoskeletal model of the hand: application to prosthesis control
1:15 PM	Ali	Hussaini	Evolution of Refined Clothespin Relocation Test for Prosthesis Users for use as a Clinical Assessment					1:15 PM	Peter	Shaw	A multimodal immersive haptic-virtual reality system for the rehabilitation of phantom limb pain in upper limb amputees
1:30 PM	Melissa	Jacobs	An Exploration of the Correlation between an amended Box and Blocks Assessment, the standard Box and Blocks Assessment and the Assessment of	Case Studies				1:30 PM	Manufacturers' Panel Discussion		
1:40 PM	T.M.J.	van der Laan	Development and reliability testing of a qualitative score for rating compensatory movements in upper limb prosthesis wearers during execution of 4 FCE-tests.								
1:50 PM	Corine	van der Sluis	Development of a functional capacity evaluation measurement for individuals with upper limb reduction deficiency or amputation.								
2:05 PM	P.	Davis	A reflective case study of a quadrilateral amputee, over a sixteen year period. Exploring coping with the challenges of activities of daily living, prosthetic	2:00 PM	Kerstin	Caine-Winterberger	Osseointegrated Prostheses for Transhumeral Amputees: Long-term Follow-up of patients using Patient-rated Outcome Measures				
2:20 PM	Alix	Chadwell	A protocol to establish the relative importance of factors influencing ease of myoelectric prosthesis control	2:15 PM	M.Z.	Philar	Decreasing phantom limb pain by virtual reality – case presentation				
2:35 PM	Judy	Davidson	Choosing a multi-functional hand that suits the patient's requirements	2:30 PM	Debra	Latour	Cutaneous Anchor Technology and Creative Solutions to Complex Problems				
2:45 PM	Poster Presentations		2:45 PM	Poster Presentations							
3:00 PM	Tea Break/Poster exhibition		3:00 PM	Tea Break/Poster exhibition		3:00 PM	TIPS End - Tea Break		3:00 PM	Prize giving	
3:30 PM	Laura E	Ömerci	3D printed upper limb prosthetics are not backed by clinical evidence	3:30 PM	Helena	Burger	Factors influencing use and satisfaction with upper limb prosthesis	3:30 PM			
3:45 PM	Shaun	Riley	Utilising 3D printing techniques when providing unique assistive devices: A case study	3:45 PM	Cathrine	Widhammar	Use of myoelectric prostheses and participation in everyday activities – environmental factors impact on assistive technology use	3:45 PM			
4:00 PM	Sakoko	Noguchi	Application of Finch, a 3D printed prosthetic hand, to a patient with bilateral upper-limb deficiency	4:00 PM	Lottie	Hermansson	The relationship between prosthetic control, wearing pattern and daily prosthesis use	4:00 PM	Free Papers Lower Limbs/Orthotics		
4:10 PM	Manufacturers' Workshops			4:15 PM	Lewis	Mackay	Symptom severity and prosthesis use: exploring the pain experience using the Disabilities of the Arm Shoulder and Hand (DASH)	4:15 PM			
4:25 PM				4:30 PM	Cathrine	Widhammar	The influence of environment - experiences of users of myoelectric arm prosthesis, a qualitative study	4:30 PM			
4:40 PM	Touch Bionics			4:45 PM	Lisette M.	Melis-Schrijver	Webbased innovative care using Gemstracker AADA, introducing remote follow up (monitoring) of functioning	4:45 PM	George Murdoch Prize lecture		
4:55 PM	Otto Bock			5:00 PM	Kengo	Ohnishi	Comparison of prosthetic terminal device grip force adjustability between myoelectric control & Bowden cable control	5:00 PM	ISPO UK AGM		
5:10 PM	Steeper			5:15 PM	Brian	Garrett	Scottish Specialist Prosthetics Service: Advances in our understanding with fitting, training, providing and maintaining multi-articulating upper limb prosthetics for our	5:15 PM			
5:25 PM	TRS			5:25 PM	Junpei	Uba	Report of survey on situation and the use of unilateral TR myoelectric hand in Japan - Comparison between continuous user and suspended to use groups	5:25 PM			
5:40 PM	Day End		5:40 PM	Day End		5:40 PM	Day End				
7:00 PM	Cheese and Wine Reception		7:00 PM	TIPS Dinner		7:00 PM	ISPO Conference Dinner				



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



Golden Jubilee
Conference Hotel



For the first time, TIPS will combine with the ISPO UK MS annual meeting, allowing delegates the opportunity to enjoy the International Upper Limb Prosthetics gathering with the broader interests of ISPO in one venue. Those attending both events can further benefit from discounted registration rates.

DELEGATE REGISTRATION FORM

PLEASE PRINT YOUR DETAILS USING BLOCK CAPITALS

Title:	First Name:	Last Name:
Company/ Organisation:		
E-mail: Your name, company details and e-mail address will be published in the conference compendium. If you have any objection, tick the box and your name and city only will be included. <input type="checkbox"/>		
Correspondence Address:		
Tel:	Profession:	
Special Needs/Dietary Requirements:		

REGISTRATION

Reduced registration rates are available to ISPO members.

Are you a member of ISPO? Yes ☐ No ☐ Membership No: _____

Applications for ISPO UK MS membership (£95) will be accepted together with delegate registration forms.

Membership application forms can be downloaded at www.ispo.org.uk

or are available from the Secretariat Office, PO Box 7225, Pitlochry, PH16 9AH E-mail: info@ispo.org.uk

REGISTRATION (please tick ✓)	Registrations received on or before Friday 2 September 2016		Registrations received after Friday 2 September 2016	
	Member	Non Member	Member	Non Member
TIPS & ISPO Full Registration 28 September – 1 October 2016 (includes TIPS Welcome Reception)	£310.00 <input type="checkbox"/>	£490.00 <input type="checkbox"/>	£385.00 <input type="checkbox"/>	£610.00 <input type="checkbox"/>
TIPS 3-Day Registration (includes TIPS Welcome Reception) 28-30 September 2016	£305.00 <input type="checkbox"/>	£415.00 <input type="checkbox"/>	£365.00 <input type="checkbox"/>	£465.00 <input type="checkbox"/>
TIPS Day 1 28 September 2016	£110.00 <input type="checkbox"/>	£160.00 <input type="checkbox"/>	£135.00 <input type="checkbox"/>	£195.00 <input type="checkbox"/>
TIPS Day 2 29 September 2016	£110.00 <input type="checkbox"/>	£160.00 <input type="checkbox"/>	£135.00 <input type="checkbox"/>	£195.00 <input type="checkbox"/>
TIPS Day 3 30 September 2016	£110.00 <input type="checkbox"/>	£160.00 <input type="checkbox"/>	£135.00 <input type="checkbox"/>	£195.00 <input type="checkbox"/>
ISPO 2-Day Registration 30 September – 1 October 2016	£170.00 <input type="checkbox"/>	£280.00 <input type="checkbox"/>	£230.00 <input type="checkbox"/>	£350.00 <input type="checkbox"/>
ISPO Day 1 30 September 2016	£110.00 <input type="checkbox"/>	£160.00 <input type="checkbox"/>	£135.00 <input type="checkbox"/>	£195.00 <input type="checkbox"/>
ISPO Day 2 1 October 2016	£110.00 <input type="checkbox"/>	£160.00 <input type="checkbox"/>	£135.00 <input type="checkbox"/>	£195.00 <input type="checkbox"/>

<p align="center">Student Registration Rate - £55 per day Please indicate below attendance dates v</p>			
<p>Wednesday 28 September</p> <p align="center"><input type="checkbox"/></p>	<p>Thursday 29 September</p> <p align="center"><input type="checkbox"/></p>	<p>Friday 30 September</p> <p align="center"><input type="checkbox"/></p>	<p>Saturday 1 October</p> <p align="center"><input type="checkbox"/></p>

<p>Method of Payment (please choose <u>one</u> option)</p> <p>By cheque : made payable to ISPO UK NMS and forwarded to ISPO UK NMS, Secretariat, PO Box 7225, Pitlochry, PH16 9AH</p> <p>By BACS transfer to: The Royal Bank of Scotland plc, Dundee Perth Road (A) Branch, 260 Perth Road, Dundee, DD2 1AE, UK Sort Code: 83-28-39 Account No: 00146801 BACS remittance advices to info@ispo.org.uk</p> <p>By international bank transfer to: The Royal Bank of Scotland plc, Dundee Perth Road (A) Branch, 260 Perth Road, Dundee, DD2 1AE, UK Beneficiary: ISPO UK NMS IBAN No: GB29RBOS83283900146801 Swift: RBOSGB2L</p> <p>By invoice:</p> <p>Purchase Order Number :</p> <p>Invoice address (if different from above):</p> <p>Please note that ISPO UK MS is not able to accept credit card payments</p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
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<p>Social Programme</p> <p>Full details of the social programmes for TIPS and ISPO 2016, including registration details, will follow shortly.</p>
<p>Accommodation</p> <p>Delegates are responsible for making their own accommodation arrangements.</p> <p>A limited number of single, en-suite rooms are available on-site at the Golden Jubilee Conference Hotel at the specially negotiated rate of £85 per room per night.</p> <p>To reserve accommodation at the Golden Jubilee Conference Hotel telephone ++44 (0) 141 951 6006 quoting TIPS/ISPO 2016 Event 6006 or e-mail kirsten.burke@goldenjubilee.scot.nhs.uk</p>
<p>Travel</p> <p>Delegates are responsible for making their own travel arrangements.</p> <p>For further information on travel to the Golden Jubilee Conference Hotel visit http://www.goldenjubileehotel.com/hotel/location/</p>

Please forward your completed form, together with registration payment, to:
Irene Cameron, ISPO UK MS Secretariat,
PO Box 7225, Pitlochry, PH16 9AH Tel: 01796 473556 E-mail: info@ispo.org.uk



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EXHIBITOR BOOKING FORM

Please complete and return to ISPO UK MS Secretariat, PO Box 7225, Pitlochry, PH16 9AH

E-mail: info@ispo.org.uk Tel: 01796 473556

The ISPO Secretariat Office will acknowledge receipt of your booking and issue an invoice for payment.

Please note exhibition space cannot be guaranteed until payment is received in full.

Company Name:	
Address:	
Invoice Address (if different from above):	
Purchase Order Number:	
Main Contact Name:	
Telephone:	E-mail:
Your company details and logo will be published in the conference compendium. Please e-mail your company logo to info@ispo.org.uk . If you do not wish your company's details to appear in the compendium please tick this box. <input type="checkbox"/>	

Exhibition Space			
Each exhibition space measures 2.0 m x 1.5 m			
Day	No of Spaces	Rate (per space)	Total
*** special discounted rate *** 4-day exhibitor (28th September – 1st October)		£750	
Wednesday 28 th September (TIPS)			
Thursday 29 th September (TIPS)		£250	
Friday 30 th September (TIPS/ISPO)		£250	
Saturday 1 st October (ISPO)		£250	
Total			
Please indicate the names of the representatives who will attend your stand. You are allowed one representative per stand space per day. Additional representatives should register as full conference delegates.			

Advertisements in Conference Compendium		
Exhibitors are invited to advertise in the conference compendium. A4 colour advertisements should be e-mailed in pdf or high resolution format to info@ispo.org.uk to arrive no later than Friday 26 th August 2016.		
Full page A4 colour (£150 per advert)	No. of Pages	Total £

Delegate Bag Inserts	
Exhibitors may submit literature (maximum size A4) for inclusion in delegate bags. All literature to be delivered to the ISPO Secretariat Office, "Arvingerne", Edradour, Pitlochry, PH16 5JW to arrive no later than Friday 26 th August 2016.	
Do you wish to provide literature for inclusion in delegate bags?	Yes / No



ISPO 16th World Congress
Cape Town
8 - 11 May 2017

Dear Colleague



It is my pleasure to invite you to the ISPO 16th World Congress 2017 which will take place from 8-11 May 2017 in the fabulous city of Cape Town in South Africa.

Already in its 16th edition, this World Congress will be hosted under the theme “Assistive Technology for All”.

Ensuring increased access to assistive technology for users worldwide forms part of ISPO's vision to “contribute to a world where all persons have equal opportunity for full participation in society”.

Today, it is estimated that only 5%-15% of the people who require prostheses or orthoses or any other assistive products actually get them. In 2050, it is anticipated that there will be 2 billion people in need of assistive devices with only 1 in 20 having access to them*.

People with disabilities have the same general health care needs as others but are three times more likely to be denied health care and four times more likely to receive unsatisfactory treatment*.

To change this alarming scenario we, as ISPO International, believe that we can contribute significantly to improve access by working together with international agencies, national governments, P&O and rehabilitation professionals, the industry and the users.

The congress will host a dedicated session on the Global Cooperation on Assistive Technology (GATE). We are also planning to launch the new WHO Standards for Prosthetic & Orthotics supported by ISPO and USAid at the congress.

Through a high calibre scientific programme delivered by a variety of professionals from various disciplines and regions, by offering a parallel exhibition where companies, NGOs, training institutions and government organisations showcase their latest product developments and projects and by gathering all the individuals working in the P&O and rehabilitation field on the African continent, the ISPO 16th World Congress 2017 will certainly succeed in supporting our vision.

Time is running, and I call upon the ISPO community to start the work and act together towards making this congress the edition of cooperation and unity. On behalf of the organisers, we very much look forward to your participation and contributions.

Rajiv Singh Hanspal

ISPO President 2015 – 2017

Chair of the ISPO 16th World Congress Committee

*Source: WHO



Travel Grants Fund - **Call for Support**

As for previous World Congresses, ISPO is establishing a travel grant fund for the [ISPO World Congress 2017](#) in order to provide financial assistance to congress participants from lower income countries.

ISPO International will provide travel stipends to selected candidates from countries in low-resource settings to support their attendance. In addition, travel stipend recipients will be granted fully waived registration fees.

ISPO is herewith calling upon you to contribute to the travel grant fund and thereby enable less privileged colleagues to participate in this landmark event.

Following a strict and transparent application process, travel grants will be awarded to committed professionals from low, lower middle and upper middle income countries.

To donate to the [ISPO World Congress 2017](#) travel grant fund, please contact the [ISPO Head Office](#) at your earliest convenience.

We look forward to your support!

With kind regards,

Rajiv Hanspal

President, ISPO