



## ISPO UK MS WINTER BULLETIN 2015

### CHAIRMAN'S REPORT DECEMBER 2015



I have been proud to be the Chairman of the ISPO (UK) for the last 2 years and this year marked the 43<sup>rd</sup> anniversary of the UK Member Society. We continue to make progress in line with our aims and values. The highlight of 2015 was the ISPO (UK) Autumn Conference held on the 25<sup>th</sup> & 26<sup>th</sup> September 2015 at Hugh's College, Oxford. The venue and organisation were great. Our role in updating the team with latest scientific and technological achievements was well received. The major emphasis of our Conference this time included presentations on themes linked to areas of expertise in Oxford, evidence based medicine, neuroplasticity, phantom pain and Clinical outcome measures.,

I am grateful to Dr David Henderson-Slater and Irene Cameron for organising a great conference and also for the sponsors for their generous support. The annual conference was also an opportunity for Society members to make presentations on research findings, learning and experience in their various fields of expertise. We thank all those who presented their work and congratulate the following prize winners for their outstanding contributions:

**Robert Chatfield**, Winner of the Limbless Association prize for his presentation entitled "Measuring Service Quality in Prosthetics"

**Piotr Laszczak**, Winner of the BLESMA prize for his presentation entitled "Effects of clinical interventions and everyday activities on dynamic loading at the lower limb stump/socket interface".

**Nick Gallogly** - Winner of the BLESMA prize for his presentation entitled "Identification and management of tibialis posterior tendon dysfunction in primary care"

The road mapping and establishment of pathways impacting future assessment of muscular control, quality of service, sensing and factories of future is for 2016 – 2018.

During this year WHO challenged the Industry Council and ISPO to come up with solutions to solve the global problem of an estimated 1 billion disabled people. With nearly 9 million amputees mainly across Asia creating its own agenda for research, the GATE group was formed with the first task of mapping issues. A meeting was also held recently in China, aiming to engage everyone's resources. Representing the International Society at WHO Research Group and ISO working group is an additional task undertaken by the UK.

With such a backdrop, locally in the UK, we have challenges of persuading NHS of the need for investment to cover advances in medical technology, enabling provision of modern devices for a larger user group.

I am disappointed that NHS England is unable to fund Microprocessor knees for civilian amputees, even though the evidence of benefit was convincing to the Clinical Priorities Advisory Group (CPAG).

The next Trent International Prosthetic Symposium (28 – 30 September 2016) will take place alongside the ISPO UK annual meeting (30 September – 1 October) at the Golden Jubilee Conference Hotel in Glasgow. Further details about TIPS are included in this newsletter.

The 2017 annual meeting is being planned for Cambridge and a possible joint meeting with BAPO in 2018 is underway.

Membership subscriptions are now due for 2016 and I encourage all to renew your subscriptions by end January 2016 and benefit from the discounts for TIPS/ISPO ASM 2016. Full details on how to renew are available in this newsletter. Some of the speakers who have already agreed to talk at our 2016 event are Tamar Makin, Associate Professor at Oxford University's, Carol Garcia, Senior Physiotherapy Lecturer and Team Leader Physiotherapist Faculty of Health and Wellbeing, Sheffield Hallam University, Rickard Branemark, Director of Centre of Orthopaedic Osseointegration, Slengrenask Hospital, Goteborg, Sweden and Prof Peter Kyberd, University of Greenwich.

Finally, for the ISPO UK membership to have continued success, we depend on generous contributions and sponsorship from commercial organisations, trusts and conference exhibitors. On behalf of all ISPO UK members, I thank them all for their continued support.

At an international level, we congratulate Professor Saeed Zahedi who has been appointed to the Protocol Committee of the ISPO International.

Wishing you all a Merry Christmas and a happy and prosperous New Year.

A handwritten signature in black ink, appearing to read 'Lal Landham', written in a cursive style.

Dr Lal Landham  
Chairman  
ISPO UK MS

## Holiday Message, from ISPO's President, Professor R S Hanspal



Dear Friends and Colleagues

As we reflect on the year 2015, we are initially struck by the turmoil across the world. We all wish for peace and as we approach the holiday season, we pray for international understanding and co-operation.

As a global society with 65 national member societies and 3,400 members in 121 countries, we hope we are playing a small part in helping individuals in their personal goals and aspirations, good health and active participation.

The year 2015 has seen our Society active in many spheres – with the successful World Congress in Lyon marking a record number of participants, the WHO GATE Initiative slowly but surely gathering momentum, the development of international standards in prosthetics and orthotics – these are but a few new activities. Through #ISPOWER and with the support of several other organisations, we are co-ordinating advocacy for all disabilities comprised in the WHO GATE Initiative. In the meanwhile we continue to support all our educational activities.

I take the opportunity of this last edition of the 2015 eUpdate series, and on behalf of the ISPO International Executive Board and staff at the Head Office in Brussels, to wish you all a happy and festive Holiday season, and a peaceful and prosperous New Year.

Best wishes

**Rajiv Hanspal**



## Membership Renewal of ISPO through UK National Member Society – 2016

Membership subscriptions for the year 2016 are now due. Prompt renewal of membership will ensure continuity of all member benefits including:-

- Six issues of ISPO's journal Prosthetics and Orthotics International (POI)
- Bi-monthly e-Updates
- Educational materials available from the ISPO International website [www.ispoint.org](http://www.ispoint.org)
- Access to ISPO's exclusive members-only online services, including online keynote lectures from top-level speakers and additional educational resources
- A new online publication with scientific content and a focus on clinical practice.

The membership subscription rates have been frozen for 2016 with the full subscription rate remaining at £95 and student membership rate £27.

Your payment may be made:-

- By cheque, made payable to ISPO UK NMS, and returned together with your renewal form, to ISPO UK MS Secretariat, PO Box 7225, Pitlochry, PH16 9AH.
- By BACS transfer to Royal Bank of Scotland, Sort Code: 83-28-39 Account No: 00146801. When paying by BACS transfer please ensure you include your name and membership number as reference to the payment.
- By Standing Order made payable to Royal Bank of Scotland Sort Code: 83-28-39 Account No: 00146801. If you currently have a standing order mandate in place please review this with your bank and ensure that the payment amount reflects the current membership rate of £95 (full member) or £27 (student member).

Whichever method of payment you choose, please ensure that you return a completed membership renewal form to the Secretariat office by 31 January 2016. To improve efficiency and reduce admin costs both ISPO UK NMS and ISPO International actively seek to communicate to members electronically. It is thus imperative that you keep us apprised of your current contact details, and in particular, your e-mail address.

Full details of all ISPO activities are available on our websites at [www.ispo.org.uk](http://www.ispo.org.uk) and [www.ispoint.org](http://www.ispoint.org) Take time to browse the websites – there is a wealth of information available to members including full details of all upcoming events as well as access to both current and back issues of P & O International.

If you are not currently a member of ISPO and wish to join, please complete a membership application form (available to download from our website at [www.ispo.org.uk](http://www.ispo.org.uk)) and return, together with your payment, to ISPO UK MS Secretariat, PO Box 7225, Pitlochry, PH16 9AH E-mail: [info@ispo.org.uk](mailto:info@ispo.org.uk)



International Society for Prosthetics and Orthotics  
United Kingdom National Member Society

**2016 MEMBERSHIP RENEWAL FORM**

Please complete and return to  
ISPO UK NMS Secretariat, PO Box 7225, Pitlochry, PH16 9AH by 31<sup>st</sup> December 2015

(Please ✓)
I wish to renew membership of ISPO for the year 1 January to 31 December 2016. <input type="checkbox"/>
(Please ✓)
➤ I enclose cheque payable to ISPO UK NMS for      £95.00 <input type="checkbox"/> (full member)
£27.00 <input type="checkbox"/> (student member)
I have made arrangements to pay by BACS transfer <input type="checkbox"/>
<b><i>(Royal Bank of Scotland   Sort Code: 83-28-39   Account No: 00146801 Please use member name and membership number as reference with your payment)</i></b>
➤ I will continue to pay by Standing Order <input type="checkbox"/>
<b><i>(Please ensure that your standing order is updated to reflect the appropriate membership rate (£95 or £27) and that payment is made before 31 January 2016)</i></b>

To ensure our database is kept up to date and all communications are delivered to you promptly, please complete the section below including your preferred e-mail address

Membership No:	<b><i>(if you do not know your membership number leave blank)</i></b>
Name:	
Address (for correspondence):	
Telephone:	
E-mail:	
Profession:	



Empowering people with impaired mobility to reach their full potential

**#ISPOWER** is ISPO's call to action for improved access to Assistive Health Technology (AHT) & care to help people with impaired mobility contribute fully to society. [Get involved.](#)



**#ISPOWER** is about **empowerment** and **social inclusion** of people with impaired mobility through **improved access to P&O and AHT care** -- empowered to be **independent** and empowered to reach their full **potential** in society.

Through **#ISPOWER**, together we will:

- **Raise public and decision makers' awareness** and understanding of the importance of P&O and AHT care in helping to transform the lives of people with impaired mobility and integrate them into society
- **Create a global movement** for improved access to P&O and AHT care, social inclusion and mobility
- **Build a central platform** around which all players – ISPO Member Societies, international and regional organizations, local user groups and others – can work together

# Trent International Prosthetic Symposium 28th - 30th September 2016

Golden Jubilee Conference Hotel  
(formerly the Beardmore Hotel)

## Call for abstracts

Abstracts on all topics connected with Upper Limb prosthetics are sought. Topics include, novel prosthetic fitting/practice, Occupational Therapy, Prosthetic design and control. Abstracts should be a maximum of 500 words, see attached template for guidelines.

The deadline for abstracts is 25th March.

Those abstracts that are accepted will be invited to write a four page paper for completion before 15th July.

The Trent International Prosthetics Symposium is the only conference in Europe dedicated exclusively to Upper Limb Prosthetics, it is a balance of research and clinical papers. It runs across three days and enjoys a reputation for a lively social program.

This year's theme: ***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 what the prosthesis can provide. It has been difficult to identify what it is the user requires in order 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 prostheses, how we adapt to limb loss and absence and how we can use this knowledge to improve the control of the prosthetic limbs.

The FIMRIB team from Oxford have showed that there is a lot to understand about how neuroplasticity changes the way we see the world and one might control prostheses. Tamar Makin suggests that the conventional models for neuro redistribution of amputated limb control lack some of the fine detail that is now possible using a powerful MRI scanner as they have in Oxford. Their work promises to increase our understanding of what compensations are made as the user gets accustomed to their amputation.

Similarly, many fields have promoted the idea of the use of Virtual Reality to train or retrain new users of prosthetic arms. The choice of task and if there is transfer from one side to the other are important factors for the training of new users. The team in Groningen, The Netherlands, under Professor Corrie van de Slius and Raoul Bongers have looked at the theoretical constraints in the use of VR in the training of prosthetic users, while the team in Sheffield Hallam have an extensive set up that allows them to create a virtual environment and see how virtual training improves performance.

The team in Goteborg have continued to innovate Osseointegration. In the last year they have won FDA approval for the normal technique, which opens it up to a US audience. At the same time they now can perform direct connections to the nerves, and use the abutment as the conduit, making this technique more advanced than any other team working in the field.

## **Keynote Speakers at TIPS 2016**

### **Tamar Makin**

Associate Professor at Oxford University's neuroimaging centre (FMRIB Centre), Nuffield Department of Clinical Neuroscience.

#### ***Phantom pain revisited***

Tamar's research group integrates recent advancements from the fields of neuroimaging and experimental psychology to study plasticity in body representation with clinical significance. Her main interest is the consequences of arm amputation on human brain plasticity. Tamar completed an MSc and a PhD in Neuroscience at the Hebrew University of Jerusalem (Israel). She joined the FMRIB Centre in 2009, first as a Newton International Royal Society Fellow and subsequently as a Marie Curie Intra-European Early Career Development Fellow. She currently holds a Wellcome Trust/Royal Society Sir Henry Dale Fellowship.

### **Raoul Bongers**

Assistant Professor at University of Groningen, University Medical Centre Groningen, Centre for Human Movement Sciences

#### ***Serious Gaming in learning to use a prosthetic device***

Raoul Bongers' field of expertise is *action-perception learning and development*. He studies behavioural patterns of action-perception and how changes in these patterns emerge from interactions between the agent and the environment. He has a particular focus on different types of structure in variability of action-perception behaviour during learning and development. He has applied this knowledge to upper-limb prosthetic rehabilitation. To develop training protocols for upper limb prosthesis he has founded GRIP (Groningen Research in Prosthetics) together with Prof. Corry van der Sluis. In this group they develop serious games to develop upper limb prosthetics rehabilitation protocols.

### **Carol Garcia**

Senior Physiotherapy Lecturer and Team Leader Physiotherapist  
Faculty of Health and Wellbeing, Sheffield Hallam University

#### ***Patient's perceptions of upper limb prosthetics and how virtual reality may be used in clinical practise***

Carol Garcia has been qualified as a physiotherapist since 1987 and worked clinically for nineteen years primarily in acute respiratory care and cardiac rehabilitation. She joined Sheffield Hallam University in 2005 and went on to complete her MA in Teaching and Learning (Post Compulsory Education and Training) in 2013. Carol teaches cardiorespiratory physiotherapy across the undergraduate and post graduate programs and since joining SHU she has developed her interest and understanding of the pedagogy that underpins teaching in higher education.

Since 2013, Carol has been developing her research skills through working in a multidisciplinary, cross faculty team looking at the use of virtual reality in upper limb prosthetics. Presently this research is being used as a pilot project looking at the wider uses of virtual reality in health care.

**Rickard Brånemark**

Director of Centre of Orthopaedic Osseointegration, Sahlgrenska Hospital, Goteborg, Sweden

***Latest developments in the use of Osseointegrated upper limb prosthesis***

Rickard has pioneered the studies on titanium implants to anchor limb prostheses for more than 20 years. He has himself carried out more than 200 such operations. As the most experienced surgeon in this field, Dr. Brånemark has been internationally acknowledged, and was rewarded with the Hanger Prize in 2007 for his contribution in amputation research. The Osseointegration technique can now include a bi-directional interface between the muscles and nerves to control prosthetic arms. He is presently visiting associate professor at the Department of Orthopaedic Surgery, and co-director for the international Centre for Osseointegration Research, Education and Surgery (iCORES) at University of California, San Francisco.





## ISPO Membership Bursaries

ISPO UK MS is keen to support interested individuals working in the field and students studying prosthetics and orthotics or carrying out research and development in this area, by awarding membership bursaries and is pleased to announce that **10 membership bursaries will be available for 2016/2017.**

Successful applicants will receive a contribution of £50 from ISPO UK MS towards the cost of the annual membership fee for two consecutive years. Successful applicants must contribute the balance payment of £45 each year for two consecutive years, and will receive all benefits of ISPO membership including Prosthetic and Orthotic International scientific journals; full access to the ISPO International members' only website; regular e-bulletins; and reduced delegate registration fees for both ISPO International and UK conferences.

### Criteria for Application

- Individuals working in the relevant fields of prosthetics/orthotics/rehabilitation/wheelchairs
- Individuals who have not been a member of ISPO in the last five years
- Students studying, carrying out research and development in prosthetics and orthotics who have not previously been an ISPO member

### Application Process

- Applicants should provide a written statement of not more than 150 words outlining the benefits membership would offer them personally, their organisation and team including areas of interest.
- Statements and contact details should be e mailed to:- [info@ispo.org.uk](mailto:info@ispo.org.uk)
- **The closing date for applications for 2016/17 membership bursaries is 20<sup>th</sup> January 2016**



## Prepare your submissions for ISPO World Congress 2017!

From 1 December 2015, ISPO will be welcoming submissions for the [ISPO 2017 World Congress](#) programme, under the general theme “**Assistive Technology for All**”.

Subject to selection by the Scientific Committee, submissions for an [Instructional Course or Symposia](#) can be made until May 2016 via the congress [website](#).

The 16<sup>th</sup> ISPO World Congress 2017, organized in collaboration with [ISPO South Africa](#), will take place from 8-11 May 2017 in Cape Town, South Africa. Make sure to mark your calendar to attend and visit the congress [website](#) for information!

PS: Check out the new [IPOS programme](#) by ISPO International, if you need help with submitting a paper!



In April 2016 **Liselotte Hermansson** will visit the Netherlands. She is an occupational therapist and a researcher and has developed the Assessment of Capacity for Myoelectric Control (ACMC). In 2009 she gave a course at the University Medical Center Groningen to several therapists.

Since 2009, several developments have been made regarding the ACMC and that is why we will organize a refresher course for experienced ACMC raters (one day REFRESHER course) and a course for those who do not have experience with ACMC yet (two-day BASIC course).

For more information about ACMC look at <http://acmc.se>.

**Participants:** *Therapists who work with clients with a myoelectric prosthesis*

**Location:** *University Medical Center Groningen*

**Dates:** *Tuesday April 5<sup>th</sup>, Wednesday April 6<sup>th</sup> BASIC COURSE,*

*Thursday April 7<sup>th</sup> REFRESHER COURSE*

**Costs BASIC course:** € 495,-- (including coffee/tea, lunches and a dinner on Tuesday April 5<sup>th</sup>)

**Costs REFRESHER course:** € 290,-- (including coffee/tea and lunch)

**Maximum number of participants:** *15 persons per course*

Please send the application form below by email before January 15<sup>th</sup>. We will send you a confirmation and the invoice as soon as possible. We are looking forward to see you in April 2016!

Corry van der Sluis and Paula Wijdenes

Contact:  
Mrs Diana Meun, Secretary  
Department of Rehabilitation Medicine  
University Medical Center Groningen  
Hanzeplein 1  
9713GZ Groningen  
The Netherlands

E-mail: [D.Meun@umcg.nl](mailto:D.Meun@umcg.nl)



Yes, I will participate in the ACMC course:

Tuesday April 5th, Wednesday April 6th (BASIC COURSE)

Thursday April 7th (REFRESHER COURSE)

Name:

Address:

Company:

Function:



## **BASIC training course in Assessment of Capacity for Myoelectric Control**

**Place:** University Medical Center Groningen, the Netherlands

**Date:** Tuesday April 5th and Wednesday April 6th, 2016

**Instructor:** Liselotte N Hermansson, PhD, OT

**Preliminary programme:** Tuesday, April 5<sup>th</sup>

09.30	Introduction, background and development of ACMC
10.30	ACMC test items
11.15	Refreshment break
11.45	ACMC test items, cont
12.30	ACMC four-point rating scale
13.00	Lunch
14.00	ACMC rating scale and items, examples of scoring
14.45	ACMC activities
15.30	Refreshment break
16.00	Psychometric properties of ACMC
17.30	End of day
18.30	Dinner



**Preliminary programme:** Wednesday, April 6<sup>th</sup>

08.00	Questions, repetition
08.30	Introduction to the website <a href="http://www.ACMC.se">www.ACMC.se</a> Preparing for an ACMC assessment
09.30	Refreshment break
10.00	ACMC activities Make your own observations, discussion Practising assessments, entering data
12.00	Lunch
13.00	ACMC activities, cont. Make your own observations, discussion Practising assessments, entering data
14.30	Refreshment break
15.00	ACMC activities, cont. Make your own observations, discussion Practising assessments, entering data
16.30	Final discussions. Evaluation of the course
17.00	End of day

**Note:** Participants who complete and submit three assessments from video become certified users of ACMC.



## **REFRESHER training course in Assessment of Capacity for Myoelectric Control**

**Place:** University Medical Center Groningen, the Netherlands

**Date:** Thursday April 7<sup>th</sup>, 2016

**Instructor:** Liselotte N Hermansson, PhD, OT

### **Preliminary programme**

09.30	Presentation, briefly comment on how you have used ACMC previously.
10.00	Changes in the ACMC test items – version 2 and 2.2. Improvement of the ACMC four-point rating scale (ver 2.2).
11.00	Refreshment break
11.15	ACMC version 3, the 0-100 scale. Introduction to the new homepage.
12.00	ACMC tasks. Make your own observations, discussion
13.15	Lunch
14.00	ACMC tasks, continued. Make your own observations, discussion
15.30	Refreshment break
16.00	ACMC tasks, continued. Make your own observations, discussion
17.15	Final discussions. Evaluation of the course
17.30	End of day

*ISPO UK MS would like to wish everyone a Merry Christmas, and a happy and healthy new year!*

