

# Sunday, July 29, 2007

LL Orthotics	Spinal Orthotics	LL Prosthetics	Rehab Medicine & Surgery	Paediatrics	Low Income Nations
UL Orthotics	Seating and WC	UL Prosthetics	Education	Technology	General

Rooms	MR1	MR2,3	MR8,15	BR A	BR B	MR11	MR12
10:00-14:00	<b>Registration</b> Basic Inst. Course Rehabilitation of People with Amputations Manual	Basic Inst. Course Basic Seating and Mobility Prescription	Advanced Inst. Course Rehabilitation Treatment of Stroke Patients	Advanced Inst. Course Partial Foot Amputation	Symposium Uniting Frontiers Programme	Manufacturer's Workshop Making Footcare a Major Profit Centre (Aetrex)	Manufacturer's Workshop Innovative Prosthetic Solutions (Freedom Innovations)
14:00-16:00	Opening Ceremony and Knud Janssen Lecture Exhibit Hall A						
16:00-18:00	Reception and Trade Show Opening Exhibit Hall B&C						

12:30-13:45 Meeting Room 1	<b>The Rehabilitation of People with Amputations Manual</b> Alberto Esquenazi	Basic Course
12:30-13:45 Meeting Room 2,3	<b>Basic Seating and Mobility Prescription: When a Pillow and Towels Just Won't Do</b> Cheryl Sheffield (Chair), Cathy Husken, Jeff MacDonald-Bain, Gail Christenson	Basic Course
12:30-13:45 Meeting Room 8,15	<b>Optimizing the Rehabilitation Treatment of Stroke Patients</b> J.D. Martina (Chair), R. Meijer, R. Bowers	Advanced Course
12:30-13:45 Ball Room A	<b>Partial Foot Amputation</b> Georg Neff (Chair), Hans-Henning Wetz	Advanced Course
12:30-13:45 Ball Room B	<b>Uniting Frontiers Programme</b> Ariel E. Saldana (Chair), José Paúl Rodríguez, Fili-Melé Rodríguez, Juan Madrid, Rosie Jované	Symposium
12:30-13:45 Meeting Room 11	<b>Making Footcare a Major Profit Centre</b> Aetrex	Manufacturer's Workshop
12:30-13:45 Meeting Room 12	<b>Innovative Prosthetic Solutions for Amputee Rehabilitation</b> Freedom Innovations	Manufacturer's Workshop

# Monday, July 30, 2007

	LL Orthotics	Spinal Orthotics	LL Prosthetics	Rehab Medicine & Surgery	Paediatrics	Low Income Nations		
	UL Orthotics	Seating and WC	UL Prosthetics	Education	Technology	General		
	Manufacturers Workshop	Basic Inst. Course	Advanced Inst. Course	Symposia	Symposia	Free Papers 1	Free Papers 2	Free Papers 3
Rooms	MR11,12	MR1	MR2,3	MR8,15	BR C	Ex Hall A	BR A	BR B
8:15-9:30	Silicone Glove Cosmesis (Orto-Ped)	Prosthetic Selection for Upper Limb Amputees	Van Nes Rotationplasty	Diabetic Foot: Orthotic Management	Psychosocial Assessment Tools in Prosthetics	Transtibial Sockets	Biomechanics and Modelling	Products for Low-income Nations I
9:30-9:45	Break							
9:45-10:45	Plenary Session: Moving Beyond Disability: Exhibit Hall A							
10:45-11:15	Refreshment Break: Exhibit Hall B&C							
11:15-12:30	Upper Limb Bionics (Touch Bionics)	Orthotic Solutions for Idiopathic Scoliosis	External Powered UE Prostheses	Controversies in Transtibial Amputation Surgery	Psychosocial Adaptation to a Prosthesis	Transfemoral and Hip Disarticulation Sockets	Foot Orthoses	Products for Low-income Nations II
12:30-13:30	Break							
13:30-14:45	Advanced Prosthetic Feet (Otto Bock)	Orthotic Management of Knee Osteoarthritis	Hip, Transpelvic & Translumbar Protheses	New Controls in Upper Limb Prosthetics	Developing Evidence-based Practise in P&O	Spinal Orthotics I	AFO Design and Fabrication	Gait Rehabilitation
14:45-15:00	Refreshment Break: Exhibit Hall B&C							
15:00-16:15	Advances for UE Amputees (Otto Bock)	International Classification of Function	Strategies for Falls Prevention	Hyper-Reinnervation Nerve Transfer Surgery	IC Socket Designs	Spinal Orthotics II	Lower Limb Orthotics	Psychosocial Aspects of Prosthetic Use
16:15-17:30	Posters: Exhibit Hall B&C							
20:00	Reception at Vancouver Aquarium							

## Instructional Courses

<b>8:15-9:30</b> Meeting Room 1	<b>Prosthetic Selection for the Upper Limb Amputee</b> Wyn Beasley (Chair) , Alan Thurston	Basic Course
<b>8:15-9:30</b> Meeting Room 2,3	<b>Van Nes Rotationplasty in the Treatment of PFFD and Osteosarcoma of the Distal Femur</b> Kevin Murray, Ivan Krajbich (Chair), Stefania Fatone, Rod Lawlor	Advanced Course
<b>11:15-12:30</b> Meeting Room 1	<b>Current Orthotic Solutions for Treatment of Idiopathic Scoliosis</b> Richard Miller (Chair), Wendy Moon, Stacey Stoll	Basic Course
<b>11:15-12:30</b> Meeting Room 2,3	<b>External Powered UE Prostheses: Principles and Practise</b> Jack Uellendahl (Chair), Troy Farnsworth, Steve Mandacina	Advanced Course
<b>13:30-14:45</b> Meeting Room 1	<b>Orthotic Intervention in the Treatment of Medial Compartment Osteoarthritis of the Knee</b> Steve Hutchins (Chair), Richard Jones	Basic Course
<b>13:30-14:45</b> Meeting Room 2,3	<b>Hip Disarticulation, Transpelvic and Translumbar Protheses</b> John Michael	Advanced Course

<b>15:00-16:15</b> Meeting Room 1	<b>International Classification of Functioning (ICF-WHO) and Classification of Assistive Products ISO9999 (ISO)</b> Theo H.M. Bougie (Chair), Helena Burger	Basic Course
<b>15:00-16:15</b> Meeting Room 2,3	<b>Strategies for Falls Prevention</b> Carolyn Hirons (Chair), Carine van Schie, Louise Whitehead	Advanced Course

### Symposia

<b>8:15-9:30</b> Meeting Room 8,15	<b>The Diabetic Foot: Effective Orthotic Management</b> Derek Jones	
<b>8:15-9:30</b> Ballroom C	<b>Psychosocial Assessment Tools in Prosthetics</b> Deirdre Desmond (Chair), Kerstin Hagberg, Pamela Gallagher, David Boone	
<b>11:15-12:30</b> Meeting Room 8,15	<b>Surgical Controversies in Transtibial Amputation</b> Frank Gottschalk (Chair), John H. Bowker, Michael S. Pinzur, Amar Jain	
<b>11:15-12:30</b> Ballroom C	<b>Psychosocial Adaptation to a Prosthesis</b> Pamela Gallagher (Chair), B.F. O'Neill, Stephen Wegener, WC Miller	
<b>13:30-14:45</b> Meeting Room 8,15	<b>New Controls and Functions in Upper Limb Prosthetics – For Better or for Worse</b> Dick Plettenburg, Peter Kyberd	
<b>13:30-14:45</b> Ballroom C	<b>Developing an Evidence-based Practise in P&amp;O</b> Nerrolyn Ramstrand (Chair), T-H Brodtkorb, C Löwenadler, A Johannesson	
<b>15:00-16:15</b> Meeting Room 8,15	<b>Targeted Hyper-Reinnervation Nerve Transfer Surgery</b> Laura Miller (Chair), Todd Kuiken, KB Englehart, BA Lock	
<b>15:00-16:15</b> Ballroom C	<b>Ischial Containment Socket Designs</b> Michael Dillon (Chair), John Michael, Jack Uellendahl	

### Manufacturer's Workshops

<b>8:15-9:30</b> Meeting Room 11,12	<b>Silicone Glove Cosmesis</b>	Orto-Ped
<b>11:15-12:30</b> Meeting Room 11,12	<b>The Next Generation of Upper Limb Bionics Has Arrived</b>	Touch Bionics
<b>13:30-14:45</b> Meeting Room 11,12	<b>The Benefits of Advanced Prosthetic Feet in Negotiating Everyday Obstacles</b>	Otto Bock
<b>15:00-16:15</b> Meeting Room 11,12	<b>Advances in Technologies and Care for Upper Extremity Amputees</b>	Otto Bock

## Product Display Theatre

<b>11:00-11:30</b> Exhibit Hall	<b>Otto Bock C-Leg Microprocessor Knee Clinical Advances</b>	Otto Bock
<b>11:45-12:15</b> Exhibit Hall	<b>The Power of the Otto Bock DynamicArm Myoelectric Elbow</b>	Otto Bock
<b>12:30-1:00</b> Exhibit Hall	<b>Bracing Solutions</b>	Townsend
<b>13:15-13:45</b> Exhibit Hall	<b>Human Below Knee Complex in Level Ground Walking</b>	BioQuest Prosthetics
<b>14:00-14:30</b> Exhibit Hall	<b>The New and Improved Cti Ligament Line</b>	Ossur
<b>14:45-15:15</b> Exhibit Hall	<b>The Proprio Foot, Bionic Technology by Ossur</b>	Ossur

## Free Papers

<b>8:15-9:30</b> Exhibit Hall A	<b>Transtibial Sockets</b>	<b>Presenting Author</b>
8:15	Movement in trans-tibial prostheses during a simulated gait cycle with three different suspension techniques	Jesper Karlsson
8:27	A comparison between the cuff strap and a suction/sleeve suspension for trans-tibial amputees	Abdo Haidar
8:39	The effects of liner thickness and suspension technique on knee joint proprioception in trans-tibial amputees	David Rusaw
8:51	A new technique to assess in-socket residual limb volume change	Joan Sanders
9:03	Short trans-tibial amputation and risk of fracture	Domenico Menager
9:15	Trans-tibial prosthetic system design and benefits for the amputee, service providers and society; an evidence based clinical study	Arjan Buis
<b>8:15-9:30</b> Ballroom A	<b>Biomechanics and Modelling</b>	<b>Presenting Author</b>
8:15	A finite element female foot model for the design of high-heeled shoes	Jia Yu
8:27	The finite element approach to the design and evaluation of foot orthotics	Jason Cheung
8:39	Trans-humeral socket-residual limb interface stiffness	Jonathon Sensinger
8:51	Development of a design support system for hip disarticulation prostheses	Hisashi Naito
9:03	Evaluation of trunk stabilization in normal and impaired gait by computer supported gait analysis	Claudia Herczeg
<b>8:15-9:30</b>	<b>Products and Components for Low-income Nations I</b>	<b>Presenting Author</b>
8:15	Low-cost polyurethane rubber prosthetic foot cover	Andrew Hansen
8:27	The creation of low cost-high definition silicone artificial limb coverings	Ed Pennington-Ridge
8:39	Improving foot lifespan for developing countries	Pierre Gauthier
8:51	Developing a low cost prosthetic hand	Cindy Samaan
9:03	The development and production of assistive devices using a distributed network: the Niagara foot	Mary Beshai
9:15	An R&D strategy to offer a high-quality and low-cost above knee prosthesis in the developing world	Roger Gonzalez

<b>11:15-12:30</b> Exhibit Hall A	<b>Transfemoral and Hip Disarticulation Sockets</b>	<b>Presenting Author</b>
11:15	Quadri-cam socket- an Indian experience	Manoj Tiwari
11:27	3-D gait analysis in transfemoral amputees with ischial containment or quadrilateral CAD/CAM socket	Erik Horlyck
11:39	Influence of socket type on vertical displacement of prosthesis	Juliane Wühr
11:51	A new variation on the custom silicone hip disarticulation socket design	Gary Sjonnesen
12:03	Biomechanics in hip disarticulation prostheses	D Menager
12:15	"Hung up on you": solutions for suspension challenges	Jennifer Wright
<b>11:15-12:30</b> Ballroom A	<b>Foot Orthoses</b>	<b>Presenting Author</b>
11:15	Are MBT shoes appropriate for patients with diabetic foot?	Helena Burger
11:27	How does two custom moulded insoles influence the diabetic patient. A comparison between insoles of different stiffnesses.	R Zügner
11:39	The effect of total contact foot orthosis on foot pressure distribution and ambulation in patients with leprosy	Chih-Kuang Chen
11:51	The effect of textured insoles on gait in multiple sclerosis	Kevin Kelleher
12:03	Review of the effects of foot appliances on balance	K Postema
12:15	Balance and vibrating insoles	Juha Hijmans
<b>11:15-12:30</b> Ballroom B	<b>Products and Components for Low-Income Nations II</b>	<b>Presenting Author</b>
11:15	Comparison of transtibial prosthesis alignment procedures	Kim Reisinger
11:27	CIR monolithic limb	Yeongchi Wu
11:39	Using the Jaipur limb in a low income country prosthetic medical rehabilitation programme	M K Mathur
11:51	Cir-whirlwind wheelchair in Afghanistan: 9-month follow-up	William Armstrong
12:03	State-of-the-science conference on appropriate technologies for developing countries	Hector Casanova
12:15	Development of prosthetic knee technology for trans-femoral amputees in developing nations	Roger Gonzalez
12:27	Quantitative analysis of gait patterns with different prosthetic feet used by trans femoral/tibial amputees in India	Ratnesh Kumar
<b>13:30-14:45</b> Exhibit Hall A	<b>Spinal Orthotics I</b>	<b>Presenting Author</b>
13:30	Compliance and correction in brace treatment	Franz Landauer
13:42	Effectiveness of the Spinecor brace based on the new standardized criteria proposed by the SRS for adolescent idiopathic scoliosis	Valerie Vachon
13:54	Positive outcome in overweight patients with adolescent idiopathic scoliosis treated by the Spinecor brace	Valerie Vachon
14:06	Preliminary study of intelligent orthosis for AIS	Andreas Donauer
14:18	Preliminary investigation of Boston bracing system (BBS) in Japan	Kiyotaka Yamada
14:30	The use of dynamic Lycra® orthoses in the treatment of scoliosis	Martin Matthews

<b>13:30-14:45</b> Ballroom A	<b>AFO Design and Fabrication</b>	<b>Presenting Author</b>
13:30	PD-AFO customization via parameterization	Jere L. McClucas
13:42	The bi-articular AFO stiffness tester	Daan Bregman
13:54	Clinical applications for reinforced ankle foot orthoses (RAFO)	Don Weber
14:06	Fabrication of the reinforced ankle foot orthosis (RAFO)	Alexander Moote
14:18	Comparison of polypro AFO to reinforced AFO design	Robert Lindsay
14:30	A simple "energy storage and return" lower limb orthosis: gait lab analysis of a single subject comparing a previous to a thermoplastic reinforced AFO	Gordon Ruder
<b>13:30-14:45</b> Ballroom B	<b>Gait Rehabilitation</b>	<b>Presenting Author</b>
13:30	Orthoses and walkers in intensive rehabilitation medicine	Tadashi Sumiya
13:42	Clinical application of robotic walking assistant for Guillan-Barré syndrome	Futoshi Wada
13:54	Accommodation to prosthetic components in transfemoral amputees	Brian Hafner
14:06	Walking school - outpatient training for lower-limb amputees	Jette Schack
14:18	Gait and functional training for bionic prosthetic knee and foot/ankle components	Robert Gailey
14:30	Prosthetic treatment protocols for the high activity traumatic amputee population	John Fergason
<b>15:00-16:15</b> Exhibit Hall A	<b>Spinal Orthotics II</b>	<b>Presenting Author</b>
15:00	A system to understand biomechanics of scoliotic braces	Edmond Lou
15:12	A prospective study on the effect of rigid vs flexible spinal orthosis on the gait pattern of patients with adolescent idiopathic scoliosis	M. S. Wong
15:24	Dynamic effect of spinal orthosis on coronal gait correction of a neuromuscular scoliosis patient	Hung-Bin Chen
15:36	Spinal orthotics within custom seating	Steven Cousins
15:48	A prophylactic orthotic approach to the management of low back pain	Mojtaba Kamyab
16:00	Orthoses for non-pharmacological treatment of osteoporotic vertebral compression fractures	Kevin Meade
<b>15:00-16:15</b> Ballroom A	<b>Lower Limb Orthotics</b>	<b>Presenting Author</b>
15:00	Gait efficiency of polio survivors with a carbon fiber reinforced plastic knee-ankle-foot orthosis	Kenji Hachisuka
15:12	Field evaluation of the PFKAFO system	Aaron Leung
15:24	The effect of carbon-composite knee-ankle-foot orthoses on walking efficiency and gait in former polio patients	Merel-Anne Brehm
15:36	Integration of microprocessor controlled hydraulics in knee/ankle/foot orthoses	David Lindsey
15:48	A follow up study of simplifying AFO models by low invasive reconstructive surgery to spastic foot deformities in hemiplegia	Ko Asayama
16:00	The body weight supported walker	Mitsuhiro Ochi

<b>15:00-16:15</b> Ballroom B	<b>Psychosocial Aspects of Prosthetic Use</b>	<b>Presenting Author</b>
15:00	How do foot and ankle problems affect children's lives?	Chris Morris
15:12	Australian amputees expectations of the prosthetist's behavioural role: preliminary findings	Renee Mackenzie
15:24	Phantom pain and adaptation to prosthesis use in upper limb amputees	Melita Giummarra
15:36	Coping with upper limb amputation	Deirdre Desmond
15:48	Using the self-regulation model to determine psychological predictors of prosthetic use, independence and mobility	Elizabeth Condie
16:00	Cognition and mobility rehabilitation following lower limb amputation	Brian O'neill

### Posters (Exhibit C)

<b>#</b>	<b>Posters (Exhibit Hall C)</b>	<b>Presenting Author</b>
1	The relationship between the subtalar joint angles and the plantar foot geometry	Christina Ka Lai Lee
3	The use of outcome measures to guide orthotic service provision: a case study	Sally Cavenett
5	Ground reaction forces while walking with the body weight supported walker	Nami Yoshimoto
7	Partial foot - patients and provision	Sarah Meanley
9	A clinical algorithm for the design and tuning of AFO footwear combinations based on shank kinematics	Elaine Owen
11	Utilization of an instrumented mat to measure temporal-spatial gait changes in the use of a stance control knee ankle foot orthosis	Gary Bedard
13	Application of recommendations to indicate a new NMES device in clinical practice	Jan-Willem Meijer
15	Effect of neuromuscular electrical stimulation of the upper limb in stroke	Jan-Willem Meijer
17	Long-term use of a hybrid orthosis for neuromuscular electrical stimulation of the upper limb in severe stroke patients in the Netherlands	Jan-Willem Meijer
19	Pneumatic actuator powered glove controlled by muscle stiffness sensor	Shunji Moromugi
21	Plantar pressure measurement in a scoliotic case	Arezoo Eshraghi
23	The Lidia collar; a dynamic solution to neck weakness	Dianna Mah-Jones
25	A study on vascular occlusion as a factor in pressure ulcers	Hyun Heo
27	External evaluation of the training in the production of mobility devices in Burkina Faso, Senegal and Togo	Isabelle Urseau
29	The hinged crank arm: a cycling solution for clients with limited knee flexion	Charles Mcrae
31	On the design of a torque-controllable prosthetic pylon: choosing series elastic element properties	Brian Glaister
33	Gait after manipulating the shock module in a prosthesis: a case report	Barri Schnall
35	Gait analysis of a bilateral transtibial amputee wearing microprocessor vs. energy storage and return feet	Barri Schnall
37	Improvement of the soft socket after rotationplasty	Carsten Gebert
39	A pilot study on the effect of suspension of BK prosthesis with EVA and silicone liner at different walking speeds	Fang Xin
41	Prosthetic rehabilitation for older people following a unilateral transfemoral amputation: A systematic review.	Jane Cumming
43	Development of physiotherapy post amputation exercise sheets	Laura Burgess

45	Stiffness analyses for the design development of a prosthetic foot	Anne Schmitz
47	Transfemoral amputation following high voltage burns: prosthetic management challenges	Bruce Poole
49	Recognition of different amputee walking modes	Rino Versluys
51	Patient adjustable heel devices: their role in socket comfort	John Ross
53	Obstacle crossing and slope walking in amputees	Klaas Postema
55	The videovector as a method to objectify simpler alignment assistances	Matthias Sepin
57	Prosthetic support for T/T amputee triathlete	Mitsuhiko Uchida
59	Biomechanics of amputee turning gait	Marlene Schoeman
61	Amputee turning gait strategies	Marlene Schoeman
63	Vector projection of ground reaction force in clinical judgement of patients' adaptation to properties of prostheses	Klaas Postema
65	A new method of pneumatic swing phase control for cadence response	Keiichi Tsukishiro
67	Optimal pressures for volume control in shrinker socks for transtibial amputees	Stephanie Lomax
69	Development of modularized cover system for TF prostheses	Takuya Miyagawa
71	Comparison of Symes amputations versus transtibial amputation	Laura Friedman
73	Return to driving following lower extremity amputation	Tim Pauley
75	A controlled trial of foot pedal reaction time among patients with right transtibial amputation with and without an attentionally demanding secondary task	Tim Pauley
77	Socket materials and perspiration: Effect of superabsorbent polymer as the socket interface	Takashi Nakamura
79	Amputee gait training using virtual reality and real-time feedback	Jason Wilken
81	The validity of ambulation data readers for setting valve aperture in intelligent knee prostheses (IP) users	Izumi Takase
83	Prosthetic bench alignment	Peter Allen
85	Report on modified knee joint with hydraulic stance phase controlled by optional motion	Yuichi Hikichi
87	Temporary use of a microprocessor controlled prosthetic knee to facilitate learning to walk again after a recent lower limb amputation	Henri O Wiggerts
89	Survival and outcome after major lower extremity amputations for vascular disease	Nelson De Luccia
91	Prototype manufacturing of upper limb prosthesis with five active joints for shoulder disarticulated amputees	Angelo Davalli
93	Implantable EMG sensors (IMES) for improved myoelectric control	Richard Weir
95	Prescription of the first prosthesis and later use in children with congenital unilateral upper limb deficiency. A systematic review	Karel Maathuis
99	Reaching the unreached	Mukesh Doshi
101	The path of center of pressure of the foot during walking in normal subjects and hemiplegic patients	Kim Hyun Dong
103	Effects of ambulatory aids on postural stability	Toshio Soma
105	Physical therapy programme at Brooke Army Medical Center: a sports medicine approach	Stuart Campbell
107	Knee rehabilitation using isokinetic closed kinetic chain exercise machine	Kenji Kawamura
109	Clinical investigation of the use of myoelectric prostheses in children with upper-limb deficiencies	Y Shibata
111	Partial foot amputations: is there a difference in clinical course?	Gerardus M Rommers
113	A new rehabilitation method for a transtibial amputation due to ischemic lower limb disease.	Hiroaki Kimura

115	Common ICD-10 diagnosis in Siriraj outpatient rehabilitation clinic Thailand	Kamontip Harnphadungkit
117	Analysis of movement using kinds of different type of hand grips of parallel bars: one side support in sit-to-stand motion	Keiou Ishiguro
119	Assessment of ambulation capacity in patients with lower limb amputation	Alain Lacraz
121	Bone-attached prosthesis: design of a component to protect the femur	Lindsay Newcombe
123	How to quickly identify the needs of the amputee client	Robert Meier
125	Mathematical model of fixation of a bone fragment in a new double-needle external fixator	Mark Pitkin
127	Caring for Iraq's amputees in OIF reconstruction operations: a retrospective review	Joseph Miller
129	Creating the Indiana-Ohio center for traumatic amputation rehabilitation research	Chris Robbins
131	Brushless motor control for upper extremity myoelectric prosthetics	David Wells
133	Development of dynamic casting system (DCS) for artificial leg socket modelling	Kazuhiko Sasaki
135	Evaluation of the effect of shape on a contemporary CAD system	Anthony MCGarry
137	A low cost and portable microcontroller based gait analyser	Richa Sinha
139	Detection of spinal posture change on sagittal and coronal planes using inertial sensors	Wai Yin Wong
141	A repertory grid investigation of the personal constructs of high-tech prosthetic arm use	Sinead Ni Mhurchadha
143	Psychological aspects of prosthetic use and the Dublin Psychoprosthetics Group	Deirdre Desmond
145	Assessing psychosocial outcomes: The Trinity Amputation and Prosthesis Experience Scales	Pamela Gallagher
147	Psychoneurotic profiles of lower limb orthotic patients attending governmental workshops in Baghdad city	Alaa S. Hadi
149	Determining non-referrals of amputees in New Zealand compilation of national statistics - limb amputation procedures	Marion Lineham
151	The changing focus of P&O care	Jocelyn Fawcett
153	The Cambodian associations of Prosthetist/Orthotists (KHAPO)	Pheasa Thor
155	Disability scenario & certification in Indian context	Sarbari Sen
157	Adjustable axillary splint in acute burn rehabilitation care	Cheonghoon Seo
159	CIR-Wu casting system for socket fabrication	Yeongchi Wu
161	Assessment of roll over shape testing as a design tool for improved prosthetic feet in the developing world	Roger Gonzalez
163	Clinical placement : Sirindhorn School of Prosthetics & Orthotics	Sirirat Seng-lad
165	Enhancing quality in P&O training	Markku Ripatti
167	VIETCOT education and training influence circle of rehabilitation system in Vietnam	Tatsuro Yoshikawa
169	The importance of continuous education after qualifying as a prosthetist/orthotist (ISPO Category II)	Sisary Kheng

# Tuesday, July 31, 2007

	LL Orthotics	Spinal Orthotics	LL Prosthetics	Rehab Medicine & Surgery	Paediatrics	Low Income Nations		
	UL Orthotics	Seating and WC	UL Prosthetics	Education	Technology	General		
	Manufacturers Workshop	Basic Inst. Course	Advanced Inst. Course	Symposia	Symposia	Free Papers 1	Free Papers 2	Free Papers 3
Rooms	MR11,12	MR1	MR2,3	MR8,15	BR C	Ex Hall A	BR A	BR B
8:15-9:30	MR11: Body Powered UE Prosthetics (TRS) MR12: RGO and SPL (Fillauer)	Practical Motion Analysis	Lower Limb Orthotics in Cerebral Palsy	Contemporary CAD/CAM	Robotics in P&O	Outcomes in Advanced Knee Design	Product Development in Upper Limb Prosthetics	Management of the Amputation Stump
9:30-9:45	Break							
9:45-10:45	Plenary Session: Moving Swifter, Higher, Stronger Exhibit Hall A							
10:45-11:15	Refreshment Break: Exhibit Hall B&C							
11:15-12:30	MR11: Unstable Cervical Spine (Ossur) MR12: Latest Composite Materials (Fillauer)	Global Initiative on Clubfoot	3D Gait Analysis: Kinematics and Kinetics	Equitable Training In Low-Income Nations	Biomechanics of Partial Foot Amputee Gait	Biomechanical Analysis of Advanced Knee Designs	Advances in Myo-signal Control	CAD/CAM and Manufacturing
12:30-13:30	Break: Exhibit Hall B&C							
13:30-14:45	Powered Prosthetics (Ossur)	Design and Alignment of Transfemoral Sockets	Orthotic Stance Control	Static Alignment in P&O	Measuring Attentional Demand in Prosthesis and Orthosis Users	Prosthetic Gait Analysis I	Amputation Surgery	Advances in Technology for Upper Limb P&O
14:45-15:00	Refreshment Break Exhibit Hall B&C							
15:00-16:15	Custom Suspension Solutions (Ohio Willow Wood)	Outcome Measurement	Management of Skin Breakdown & Dermatological Problems	AFOs in Management of Cerebral Palsy	UN Convention on Rights & Dignity of People with a Disability	Prosthetic Gait Analysis II	Predicting Outcomes in Rehab Medicine	Stance Control Orthoses
16:15-17:30	Posters							

## Instructional Courses

<b>8:15-9:30</b>	<b>Practical Motion Analysis for Evidence-Based Practise</b>	Basic Course
Meeting Room 1	Mark Geil (Chair), Nerrolyn Ramstrand, Michael Orendurff	
<b>8:15-9:30</b>	<b>Lower Limb Orthotic Management of Cerebral Palsy</b>	Advanced Course
Meeting Room 2,3	D.N. Condie (Chair), R.B. Bowers, J.G. Becher	
<b>11:15-12:30</b>	<b>Global Initiative on Clubfoot</b>	Basic Course
Meeting Room 1	John R. Fisk (Chair), Shafique Pirani, Norgrove Penny, Michelle Hall	
<b>11:15-12:30</b>	<b>Understanding 3D Gait Analysis: Kinematics and Kinetics</b>	Advanced Course
Meeting Room 2,3	Michael Orendurff	
<b>13:30-14:45</b>	<b>Design of Trans- Femoral Sockets and Alignment Guidelines Especially for Ischial Containment Sockets</b>	Basic Course
Meeting Room 1	Bernd Sibbel (Chair), Michael Schäfer	
<b>13:30-14:45</b>	<b>Orthotic Stance Control</b>	Advanced Course
Meeting Room 2,3	Kenton Kaufman (Chair), James Campbell, Kelly Clark, John Michael	

<b>15:00-16:15</b> Meeting Room 1	<b>Introduction to Clinical Research and Evidence-Based Practice in P&amp;O: Where Are We Now and What's Next?</b> Virginia Wright	Basic Course
<b>15:00-16:15</b> Meeting Room 2,3	<b>Inventarisation and Management of Dermatological Problems in Lower Limb Amputees</b> Jan HB Geertzen (Chair), Henk EJ Meulenbelt	Advanced Course

### Symposia

<b>8:15-9:30</b> Meeting Room 8,15	<b>Contemporary CAD CAM: What's Done Different Today?</b> Wieland Kaphingst (Chair), Gudjon Karason, Carl Saunders, Norbert Guenther, Dir Schwager, Alan Finnieston
<b>8:15-9:30</b> Ballroom C	<b>Robotics in Prosthetics and Orthotics</b> Jonathan Kofman (Chair), Hugh Herr, Daniel Ferris
<b>11:15-12:30</b> Meeting Room 8,15	<b>New Strategies for Equitable Training In Low-Income Nations</b> Wesley Pryor (Chair), Heinz Trebbin, Claude Tardif, Lisa Hjelmstrom
<b>11:15-12:30</b> Ballroom C	<b>Biomechanics of Partial Foot Amputee Gait</b> Michael Dillon (Chair), Bengt Soderberg
<b>13:30-14:45</b> Meeting Room 8,15	<b>Static Alignment in Prosthetics and Orthotics</b> S. Blumentritt (Chair), T Schmalz, Jack Uellendahl, David Boone
<b>13:30-14:45</b> Ballroom C	<b>Measuring Attentional Demand in Prosthesis and Orthosis Users</b> Wesley Pryor (Chair), Peter Kyberd, Tim Pauley
<b>15:00-16:15</b> Meeting Room 8,15	<b>AFOs in the Management of Cerebral Palsy</b> Jaap Harlaar (Chair), Jules G. Becher, M. Schwartz, A. Rozumalski
<b>15:00-16:15</b> Ballroom C	<b>UN Convention on Rights and Dignity of People with a Disability</b> Carson Harte (Chair), Yutaka Takamine, David Constantine

### Manufacturer's Workshops

<b>8:15-9:30</b> Meeting Room 11	<b>New Technology, Innovations and Techniques in Body Powered Upper Extremity Prosthetics</b>	TRS
<b>8:15-9:30</b> Meeting Room 12	<b>Managing Orthotic Ambulation with RGO and SPL</b>	Fillauer
<b>11:15-12:30</b> Meeting Room 11	<b>Management of the Unstable Cervical Spine</b>	Ossur
<b>11:15-12:30</b> Meeting Room 12	<b>The Latest in Composite Materials</b>	Fillauer
<b>13:30-14:45</b> Meeting Room 11,12	<b>Powered Prosthetics</b>	Ossur
<b>15:00-16:15</b> Meeting Room 11,12	<b>Innovative Custom Suspension Solutions</b>	Ohio Willow Wood

## Product Display Theatre

<b>11:00-11:30</b> Exhibit Hall	<b>Custom Fabrication of Injection Molded Silicone Liners</b>	Renew Materials
<b>11:45-12:15</b> Exhibit Hall	<b>Custom Fabrication of Urethane Partial Foot</b>	Renew Materials
<b>12:30-13:00</b> Exhibit Hall	<b>LimbLogic Vacuum Suspension – It's What You've Been Missing</b>	Ohio Willow Wood
<b>13:15-13:45</b> Exhibit Hall	<b>New Clinical Applications for the Omega Scanner</b>	Ohio Willow Wood
<b>14:00-14:30</b> Exhibit Hall	<b>The Harmony® System: The Evolution of Prosthetic Suspension</b>	Otto Bock
<b>14:45-15:15</b> Exhibit Hall	<b>Carbon Feet: The Next Generation</b>	Otto Bock

## Free Papers

<b>8:15-9:30</b> Exhibit Hall A	<b>Outcomes in Advanced Knee Design</b>	<b>Presenting Author</b>
8:15	Functional outcome comparison of microprocessor controlled vs mechanical knee prosthesis	Kenton Kaufman
8:27	Using the activities-specific balance confidence scale to quantify the impact of prosthetic knee choice on balance confidence: a case study	Phillip Stevens
8:39	Quality of life and resource consumption when treating patients with C-Leg compared to non-microprocessor controlled knees	K Munk Johannesen
8:51	Cost-effectiveness of C-Leg compared to non microprocessor controlled knees	Thor-Henrik Brodtkorb
9:03	Functional improvement using the C-Leg: results of a questionnaire	Burkhard Drerup
9:15	Who benefits from the C-Leg?	Ursula Veltmann
<b>8:15-9:30</b> Ballroom A	<b>Product Development in Upper Limb Prosthetics</b>	<b>Presenting Author</b>
8:15	Working with and without wrist flexion: a comparison	Thomas Bertels
8:27	Wrist innovations to improve function of electric terminal devices	Harold Sears
8:39	Improvements in ADL by a myocontrolled hand prosthesis offering multiple degrees of freedom	Gregor Puchhammer
8:51	Improved force distribution in new multiarticulating hand allows a more stable grasp	Stephen Mandacina
9:03	The intrinsic hand: an 18 degree-of-freedom artificial hand replacement	Richard Weir
9:15	Next generation bionic hand technology: a controlled test of the i-LIMB hand	Philip Newman
<b>8:15-9:30</b> Ballroom B	<b>Management of the Amputation Stump</b>	<b>Presenting Author</b>
8:15	Recent advancements within phantom limb phenomena research after extremity amputation	Ekaterini Chotza
8:27	Efficacy of Farabloc as an analgesic in primary fibromyalgia	Douglas Bruce Clement
8:39	Early detection of residual limb soft-tissue breakdown using infrared imaging	Joan Sanders
8:51	Dermatological problems with prosthetic roll-on liners	Michelle Hall
9:03	Pressure profiles of compression socks used for the management of oedema in transtibial amputees	Stephanie Lomax

9:15	Pattern of infection of transfemoral osseointegration	Sellaiah Sooriakumaran
<b>11:15-12:30</b> Exhibit Hall A	<b>Biomechanical Analysis of Advanced Knee Designs</b>	<b>Presenting Author</b>
11:15	Energy expenditure during walking in amputees: Effect of microprocessor-controlled knee joints on the walking ability in amputees	Takaaki Chin
11:27	Influence of modern above-knee prostheses on the biomechanics of gait	Juliane Wühr
11:39	Safety of the C-leg: a biomechanical study	Siegmar Blumentritt
11:51	Smart self-adjusting verses manual limb programming: a qualitative study	Andrew Sykes
12:03	Biomechanical analysis of ramp and stair descent with electronically controlled and mechanical prosthetic knee components	Thomas Schmalz
12:15	C-Leg and Rheo-knee: are they interchangeable?	Ursula Veltmann
<b>11:15-12:30</b> Ballroom A	<b>Advances in Myo-signal Control</b>	<b>Presenting Author</b>
11:15	A comparison of socket suspension methods and control systems for external powered transradial prosthesis	Winfried Heim
11:27	The effect of analysis window attributes on multifunctional prosthesis controllers	Todd Farrell
11:39	A case study: myoelectric powered brachial plexus orthosis	Carla Michelin-Clarke
11:51	Simultaneous proportional control of multiple functions in upper-limb prostheses	Øyvind Stavadahl
12:03	The effect of EMG electrode implantation and targeting on multifunctional prosthesis controller classification accuracy	Todd Farrell
12:15	A myoelectric sensor with insulating electrodes	Isamu Kajitani
<b>11:15-12:30</b> Ballroom B	<b>CAD/CAM and Manufacturing</b>	<b>Presenting Author</b>
11:15	Accuracy and utility of digital shape capture in lower limb prosthetic anthropometrics	Mark Geil
11:27	Comparison of the results of four users of a contemporary CAD/CAM system	Anthony McGarry
11:39	A digitalized pelvic section computer aided design template for a reciprocating gait orthosis	Marc Pilon
11:51	Prosthetic sockets: reducing steps for manufacturing	Ivan Max Lacerda
12:03	Fabrication of ankle-foot orthoses using selective laser sintering technology	Allison L. Hall
12:15	Polypropylene welding strength	Peter Poetsma
<b>13:30-14:45</b> Exhibit Hall A	<b>Prosthetic Gait Analysis I</b>	<b>Presenting Author</b>
13:30	The effect of varying prosthetic knee friction on the swing phase of transfemoral amputees	Michael Dillon
13:42	How not to walk symmetrically with a prosthetic leg	Helco Van Keeken
13:54	Gait initiation and termination in lower limb amputees	Klaas Postema
14:06	Variation in amputee foot placement during straight and turning gait	Glenn Klute
14:18	Understanding the contribution of prosthetic foot alignment to forward progression during walking	Mukul Talaty
14:30	The quantification of lower limb prosthetic wearing times and amputees' activity levels when using suction sockets	Kit Tzu Tang

<b>13:30-14:45</b> Ballroom A	<b>Amputation Surgery</b>	<b>Presenting Author</b>
13:30	Developing Web-based, just-in-time surgical education for major extremity amputation	Brian Hafner
13:42	Reconstructive foot surgery in Charcot arthropathy using external fixation	Hans Henning Wetz
13:54	The Endo-Exo-Femurprosthesis a new concept of prosthetic rehabilitation following above-knee amputation: more cases and further results	Horst- Heinrich Aschoff
14:06	Through-knee amputation revisited	John Murnaghan
14:18	Improved comfort and function of arm prosthesis after implantation of a Humerus-T-Prosthesis in transhumeral amputees. The Subfascial Implant Supported Attachment (SISA) project.	Eivind Witsø
14:30	Allograft transplantation to lengthen trans-humeral amputation limbs	Ross Wilkins
<b>13:30-14:45</b> Ballroom B	<b>Advances in Technology for Upper Limb P&amp;O</b>	<b>Presenting Author</b>
13:30	Inherently compensating body powered elbow	Jonathon Sensinger
13:42	A non-anatomical grasp mechanism for artificial hands	Murray Maitland
13:54	Thick-film piezoelectric slip sensors for automatic grip control in prosthetic hands	Darryl Cotton
14:06	Tools for the design of upper limb FES systems for people with stroke	Laurence Kenney
14:18	Development of a 3 degree-of-freedom myoelectric hand	Sehoon Park
14:30	Using orthotic with the upper limb functional electrical stimulation system for persons after stroke	K Y Tong
<b>15:00-16:15</b> Exhibit Hall A	<b>Prosthetic Gait Analysis II</b>	<b>Presenting Author</b>
15:00	New method to calculate the foot energy	Yoshihiro Ehara
15:12	Effect of changing from conventional multiaxial ankle / feet to two designs of high energy return feet in established transtibial amputees	Dipak Datta
15:24	Physiological cost index among healthy adults and individuals with a transfemoral amputation.	Kerstin Hagberg
15:36	Do energy storing prosthetic feet benefit active transfemoral amputees?	Dipak Datta
15:48	The assessment of lower limb transfemoral amputees mobility and locomotion	Emilia Mendes
16:00	Postural asymmetries in transfemoral amputees	Robert Gailey
<b>15:00-16:15</b> Ballroom A	<b>Predicting Outcomes in Rehabilitation Medicine</b>	<b>Presenting Author</b>
15:00	Amputees at Aker University Hospital: Rehabilitation to prosthetic fitting 1999-2005	Elisabeth Bø
15:12	Functional outcome after major lower limb amputation	Brita Larrson
15:24	Functional outcomes and prognostic factors in patients with bilateral transtibial amputations: a comparison to unilateral transtibial amputation and long-term outcomes.	Heather Macneill
15:36	Factors influencing prosthetic rehabilitation outcome in geriatric amputees	Takaaki Chin
15:48	Falls sustained during inpatient rehabilitation in patients with lower limb amputation: prevalence and predictors	Michael Devlin
16:00	Risk factors for the development of heterotopic ossification in severe traumatic brain injury: a prospective study	Petra Van Kampen

<b>15:00-16:15</b> Ballroom B	<b>Stance Control Orthoses</b>	<b>Presenting Author</b>
15:00	A new braking device for a stance control knee orthosis	Eiichi Genda
15:12	Refinement of a stance-control knee-ankle-foot orthosis design	Terris Yakimovich
15:24	Biomechanical and metabolic benefits of stance control orthoses	Thomas Schmalz
15:36	Gait changes over time in stance control orthosis users	Steven Irby
15:48	Use and appreciation of stance-control KAFOs in patients with polio residuals	Frans Nollet
16:00	Consumer opinion of a stance control knee orthosis	Kathie Bernhardt

### Posters (Exhibit Hall C)

<b>#</b>	<b>Posters (Exhibit Hall C)</b>	<b>Presenting Author</b>
2	Effects of below and above ankle orthoses on gait stability in transmetatarsal amputees	Susan Ewers
4	Gait analysis of walking orthosis with hip and ankle linkage system (HALO) for paraplegics	Yasuo Suzuki
6	Development of SNS control KAFO using offset knee with air spring	Sungjae Kang
8	Replacing total knee replacement surgery by simple orthotic device	Vijay Naik
10	The effect of an ankle-foot orthosis with dorsiflexion-stop on walking in former polio patients with weak plantar flexors	M Siebrecht
12	Custom molded orthoses for elbow contractures	Serap Alsancak
14	Development of an inverse dynamic analysis-based system for evaluating motor function of upper extremity in hemiplegic patients	Naritoshi Sato
16	Post-operative immediate functional orthosis for the management of stiff elbow	Jagdish Pandey
18	A survey of upper limb neurological splinting services	Barney White
20	Spinal orthotics for cancer	Manish Sood
22	Posture management of spinal disorders with specialized seating system	Syeda Gillani
24	Development of stand-up wheelchair: international joint project between Japan and Thailand	Kenichiro Makino
26	A straddle chair for the physically disabled working with a personal computer.	Kazuko Hara
28	Effects of different alignments and damping properties of a prosthetic foot on the gait of above knee amputees	Merkur Alimusaj
30	Two step rehabilitation after high transfemoral thigh amputation with distraction of the femurstump and following implantation of an endo-exo-femurprosthesis	Horst- Heinrich Aschoff
32	Hang over on a prosthetic leg	Helco Van Keeken
34	Vacuum-assisted prosthetic socket in unhealed stumps of below-knee amputees for vascular disease: preliminary reports in a randomized controlled trial	Stefano Brunelli
36	Icex: 10 year clinical experience and outcome	Anton Johannesson
38	Quantification of prosthetic foot compliance with application to functional performance	Matthew Major
40	Effect of silesian suspension belt on standing balance	Kim Parker
42	Prosthetic mobility of people with lower-limb amputations: capacity and performance relationship	Kim Parker
44	Integrating thigh cuff and suction sleeve suspension	Markus Saufferer
46	An immediate-trial prosthesis	HS Man

48	Self aligning devices: the future direction for lower limb prosthetic design	Saeed Zahedi
50	Influence of prosthesis alignment on time variables of gait	Jiri Rosicky
52	Biomechanical estimation for level walking and stair climbing tasks of trans-femoral amputees	Tae Soo Bae
54	Shift from a conventional trans-tibial prosthesis to prosthesis with a silicone liner in high temperature and humidity region	Kondo Jyunji
56	Development and evaluation of prosthetic foot for elderly amputees	Motonori Hoshino
60	Effects of prosthetic foot roll-over shape arc length on gait of people with bilateral transtibial amputations	Pinata Sessoms
62	Plantar pressure comparisons: bionic foot & ankle system versus conventional foot designs	Robert Gailey
64	The psychophysical detection level for vibrotactile stimulation over time in bone-anchored prosthesis: preliminary prospective results at 2-year follow-up among 20 patient.	Eva Häggström
66	Effect of a torsional adapter on amputee turning gait	Glenn Klute
68	How accurate are sockets made by central fabrication facilities?	Joan Sanders
70	The effect of spring stiffness in unilateral transtibial amputee jumping	Marlene Schoeman
72	Maximum vertical jumping: how many trials are needed to achieve the best jump?	Marlene Schoeman
74	A gyroscopes-based protocol for the real-time assessment of gait symmetry in above-knee amputees	Michele Raggi
76	The loading techniques used during static rehabilitation of amputees using osseointegrated fixation	Laurent Frossard
78	Mechanical characterization of prosthetic feet	Andrea Haberman
80	Gait of a multiple limb amputee with and without an upper extremity prosthesis	Barri Schnall
82	Recent advancements in Jaipur limb technology	Mahendra Mathur
84	Clinical evaluation of sand casting system with Jaipur transtibial technology	Tarun Kulshreshtha
86	Influence of a transtibial prosthesis alignment on the user's stability	Miroslav Janura
88	Biomechanics of unilateral transtibial (TT) amputee gait on a ramped walkway	Tracy Teeple
90	An application and the effect that applied an elbow block joint for a shoulder joint of a functional shoulder prosthesis (HRC system)	Ayako Fujimoto
92	Multifunctional myoelectric control: the optimal controller delay	Todd Farrell
94	Walter Reed Army Medical Center: phases of care for the upper limb amputee	Josef Butkus
96	A mechanical shoulder joint with additional features	Thomas Bertels
98	Rebuilding Tah, a little brown kiwi	Peter Allen
100	A pilot study to validate an activity monitor for use with cerebral palsy.	Mark Mcaloon
102	Rotationplasty over the age of 60: functional outcome and an analysis of complications	Carsten Gebert
104	The prosthetist's role in managing heterotopic ossification in traumatic and combat related amputees	Zach Harvey
106	Presence of diabetic neuropathy: predictor for overall mortality in diabetes	Jan-Willem Meijer
108	Quality of life in diabetic foot disease	Jan-Willem Meijer
110	The relation between signs and symptoms and functional status in diabetic polyneuropathy	Jan-Willem Meijer
112	Long term outcome of superficialis-to-profundus tendon transfer in patients with clenched fist due to spastic hemiplegia	Jan-Willem Meijer

114	Measuring knee stiffness and laxity using a new programmable CPM device	Takatoshi Umeno
116	Removable vacuum rigid dressing and early rehabilitation after transtibial amputation	Gert-Uno Larsson
118	Prevalence of protein-energy malnutrition in an orthopaedic septical ward	Olivier Borens
120	Kiricuta procedure	Olivier Borens
122	Education is the key to amputee empowerment	Dan Savone
124	Trauma pattern and impact of early rehabilitation: an experience of Kashmir earthquake	Sanjai Keshkar
126	Weightbearing training with biofeedback system: a pilot study	Helena Burger
128	Effect of abduction exercises on the spatial distribution of the acetabular load	S Konvickova
130	Quantifying ankle motion using the ankle-foot interface (AFI)	Tiffany Morris
132	Artificial heel made of urethane, prosthetic liner materials	Maiko Matsumoto
134	Preliminary biomechanical evaluation of an adjustable transfemoral prosthetic simulator	David Nielen
136	Wireless gait monitoring system for persons with disability	K Y Tong
138	Brain computer interface (BCI) for FES neuroprosthesis system: a pilot study	K Y Tong
140	Australian prosthetists require improved communication skills when providing prosthetic rehabilitation	Renee Mackenzie
142	The effect of Tai Chi on physical and psychological health of young people in Hong Kong	Sze Man Lau
144	Effect of early prosthetic fitting on depression level and suicidal risks in lower limb amputees	Neeraj Mishra
146	Determinents of quality of life after lower extremity amputation	Paula Rushton
148	Adaptive technology tools and garnering resources for landmine victim assistance	Maureen Morton
150	Referral process to the paediatric prosthetic service at the Mobility and Specialized Rehabilitation Centre (M&SRC),Sheffield, United Kingdom	Vivienne Ibbotson
152	Information exchange within prosthetics and orthotics: INESPO	Markku Ripatti
154	Change in trends following change in service structure	Louise Whitehead
156	Shape&roll prosthetic foot: instruction manuals	Margrit R. Meier
158	Quality function deployment design approach for mobility devices in high demand regions	Tim Bryant
160	The development of self-sustaining prosthetic centers in underserved areas-the walking free program	David Lawrence
162	Treatment of non-healing diabetic foot ulcer with orthotic footwear management	Purshotam Dantala
166	The use of interdisciplinary collaborative practice to improve functional outcomes in patients with amputations	Gail Grisetti
168	The development strategy of P&O education in China	Fang Xin
170	Development of prosthetics and orthotics profession in Sri Lanka	Ananda Ruhunage

# Wednesday, August 1, 2007

LL Orthotics	Spinal Orthotics	LL Prosthetics	Rehab Medicine & Surgery	Paediatrics	Low Income Nations			
UL Orthotics	Seating and WC	UL Prosthetics	Education	Technology	General			
Manufacturers Workshop	Basic Inst. Course	Advanced Inst. Course	Symposia	Symposia	Free Papers 1	Free Papers 2	Free Papers 3	
Rooms	MR11,12	MR1	MR2,3	MR8,15	BR C	Ex Hall A	BR A	BR B
8:15-9:30	Unilateral Joint System (Otto Bock)	Avoiding Failures in Prosthetic and Orthotic Devices	Bilateral Upper Limb Training and Functional Expectations	Outcome Measures in Lower Limb Prosthetics	Communication Bus Standard for Prosthetics	Post-operative Care in Lower Limb Amputees	Gait Analysis and Ankle Foot Orthoses	9:00-9:30 Consumer Day Programme: Welcome
9:30-9:45	Break							
9:45-10:45	Plenary Session: Moving Social Boundaries Exhibit Hall A							
10:45-11:15	Refreshment Break: Exhibit Hall B&C							
11:15-12:30	Unloader One Osteoarthritis Knee Orthosis (Ossur)	Oriental Culture and P&O Management	Biomechanics of Amputee Sports and Running	Community Based Rehabilitation and P&O	11:00-12:00 Consumer Day Programme: Health Talks	Outcomes Measures in Lower Limb Prosthetics	AFOs for Neurological Conditions	Outcomes in Upper Limb Prosthetics
Consumer Day Program								
13:30-15:00					Biomechanics of Amputee Sports and Running	First Volley Adaptive Tennis Clinic	Accessibility - Making your Home and Vehicle Work for You	
15:00-15:15	Break							
15:15-16:15	Lower Extremity Options: A Step in the Right Direction	Upper Extremity Options: The Balance of Power	Roll On! The Latest in Wheeled Mobility	Orthotics: Supporting You in the Future				
16:15-16:30	Posters							
16:30-17:30	The Physical Realities of Disability: Rehabilitation and Pain Management		Recreation: You Can Do It	Connecting with the Information You Need - Web Resources				

## Instructional Courses

<b>8:15-9:30</b> Meeting Room 1	<b>Avoiding Failures in Prosthetic and Orthotic Devices</b> Bill Contoyannis	Basic Course
<b>8:15-9:30</b> Meeting Room 2,3	<b>Bilateral Upper Limb Training and Functional Expectations</b> Shawn Swanson (Chair), Hanna Heger, Margaret Wise	Advanced Course
<b>11:15-12:30</b> Meeting Room 1	<b>Challenges of Oriental Culture to P&amp;O Management: Suggested Solutions</b> Shi-Uk Lee, (Chair), Bong-Ok Kim, Alice MK Wong, Sun G. Chung, Mary Scott	Basic Course
<b>11:15-12:30</b> Meeting Room 2,3	<b>Biomechanics of Amputee Sports and Running</b> Robert S. Gailey (Chair), James McElhiney, Joellen McPhan	Advanced Course

## Symposia

<b>8:15-9:30</b> Meeting Room 8,15	<b>Outcome Measures in Lower Limb Prosthetics</b> Elizabeth Condie (Chair), Helen Scot, Christiane Gauthier-Gagnon
<b>8:15-9:30</b> Ballroom C	<b>SCIP: A Standardized Communication Interface for Prosthetics</b> Peter Kyberd
<b>11:15-12:30</b> Meeting Room 8,15	<b>Community Based Rehabilitation and its Linkages with P&amp;O Services</b> Chapal Khasnabis (Chair), Graziella Lippolis, Claudia Ung, Ritu Ghosh, Heinz Trebbin, Daranee Suvapan

## Manufacturer's Workshops

<b>8:15-9:30</b> Meeting Room 11,12	Unilateral Joint System: How to Fabricate a Custom-made Orthosis with Unilateral Joints in Lamination Technique	Otto Bock
<b>11:15-12:30</b> Meeting Room 11,12	Unloader One--An Innovative Osteoarthritis Knee Orthosis	Ossur

## Free Papers

<b>8:15-9:30</b> Exhibit Hall A	<b>Post-operative Care in Lower Limb Amputees</b>	<b>Presenting Author</b>
8:15	Oedema management for patients who have undergone lower limb amputation - a review of current practise in the United Kingdom	Laura Burgess
8:27	A comparison of different approaches to the early management of the transtibial amputee	Friedbert Kohler
8:39	Experiences in using post-op silicone liners with transtibial amputees	Julia Earle
8:51	Removable rigid dressings: a retrospective case note audit to determine the validity of post-amputation application	Leigh Taylor
9:03	The Zwolle Isala prosthesis: preliminary results of a new concept	Cornelis H Emmelot
9:15	Management of pain in the amputee using a treatment algorithm	Robert Meier
<b>8:15-9:30</b> Ballroom A	<b>Gait Analysis and Ankle Foot Orthoses</b>	<b>Presenting Author</b>
8:15	Gait improvement of hemiplegic patients by AFO with oil damper	Sumiko Yamamoto
8:27	Gait compensations associated with AFO use	Karen Lohmann Siegel
8:39	The effect of an ankle foot orthosis on gait parameters in hemiplegic subjects	David Rotter
8:51	Biomechanical effects of AFOs in stroke	Barry Meadows
9:03	Effect of AFO alignment on plantar pressures during walking in adults with hemiplegia	Stefania Fatone
9:15	Custom urethane ankle foot orthoses fabrication	Patrick Myrdal

<b>11:15-12:30</b> Exhibit Hall A	<b>Outcomes Measures in Lower Limb Prosthetics</b>	<b>Presenting Author</b>
11:15	Interactive World Wide Web database for prosthetics and orthotics.	Bengt Soderberg
11:27	A model of an ICF minimal data set for lower extremity amputees	Elliott Weiss
11:39	Functional Measure for Amputees (FMA): comparison of functional outcome in amputees at 3 weeks and 6 months from in-patient discharge	Louise Whitehead
11:51	Participation circuit: a new tool to evaluate functional performance in unilateral transfemoral amputees	Bea Hemmen
12:03	International benchmark to predict best practice for rehabilitation of major amputation	Catarina M Loewenadler
12:15	The validity of the Dutch SIGAM mobility grades	Henri Wiggerts
<b>11:15-12:30</b> Ballroom A	<b>AFOs for Neurological Conditions</b>	<b>Presenting Author</b>
11:15	Proposed clinical algorithm for deciding the sagittal angle of the ankle in an AFO footwear combination	Elaine Owen
11:27	Shank angle to floor measures of tuned 'ankle-foot orthosis footwear combinations' used with children with cerebral palsy, spina bifida and other conditions	Elaine Owen
11:39	Techniques of serial casting in the frontal plane in an unstable foot: three case studies	Sharon Carr
11:51	Quantification of spasticity for the design of AFO	Toshiki Kobayashi
12:03	The effect of tone-reducing ankle-foot orthosis modifications on the H-reflexes of able-bodied subjects	Aileen Ibuki
12:15	The use of dynamic Lycra® leggings in the treatment of "crouch gait" spastic diplegia	Martin Matthews
<b>11:15-12:30</b> Ballroom B	<b>Outcomes in Upper Limb Prosthetics</b>	<b>Presenting Author</b>
11:15	Occupational therapy perspective: outcome challenges with targeted muscle re-innervation	Kathy Stubblefield
11:27	Consumer design priorities for upper limb prostheses	Elaine Biddiss
11:39	Acceptance of upper limb prostheses	Hans Henning Wetz
11:51	Assessment of hand functionality using the Southampton hand assessment procedure	Peter Kyberd
12:03	The WILMER Appealing Prehensor: design and extended clinical experience	Dick Plettenburg

# Thursday, August 2, 2007

LL Orthotics	Spinal Orthotics	LL Prosthetics	Rehab Medicine & Surgery	Paediatrics	Low Income Nations			
UL Orthotics	Seating and WC	UL Prosthetics	Education	Technology	General			
Manufacturers Workshop	Basic Inst. Course	Advanced Inst. Course	Symposia	Symposia	Free Papers 1	Free Papers 2	Free Papers 3	
Rooms	MR11&12	MR1	MR2/3	MR8&15	BRC	Ex Hall A	BR A	BR B
8:15-9:30	CADCAM & Remote Imaging (Clynch Tech)	Gait Training for LL Amputees: Prosthetic Knee Considerations	Congenital Upper Limb Deficiencies: Fitting philosophies	Appropriate Orthotic Technology for Low-Income Countries	Wheelchair Consensus Conference	Prosthetic Feet I	Lower Limb Orthotics	Education I
9:30-9:45	Break							
9:45-10:45	Plenary Session: Moving Beyond Borders Exhibit Hall A							
10:45-11:15	Refreshment Break: Exhibit Hall B&C							
11:15-12:30	Insole Treatment JT20 Knee Joint (Bauerfeind)	Orthotic Fabrication Techniques for Low Income Countries	Bilateral transfemoral amputation and multiple limb loss: meeting the challenges of rehabilitation	Upper Limb Fitting For Children: Is It Worthwhile?	Professionalisation of Wheelchair and Seating Services In Developing Countries	Prosthetic Feet II	Outcomes in Lower Limb Prosthetics	Education II
12:30-13:30	Break: Exhibit Hall B&C							
13:30-14:30	ISPO Triennial World Assembly BR A							
14:30-14:45	Break							
14:45-16:00	CAD Orthotic Fittings (Ohio Willow Wood)	Teaching With Cases In Undergraduate Education	Congenital Lower Limb Deficiencies: Surgical & Prosthetic Management	Appropriate Prosthetic Technology for Low Income Countries	Osseointegration and Bone Anchored Protheses	Complex Cases	Paediatric Lower Limb Orthotics	Education in Low-income Nations
16:00-16:15	Break: Exhibit Hall B&C							
16:15-17:30	Matrix Carbon Composite AFO (Trulife)	Prosthetic Fabrication for Low Income Countries	Upper Limb Orthotics	A Rights-Based P&O, Wheelchair Services	Recent Research in Osseointegration		Paediatrics	Upper Limb Prosthetics: Above the Hand
18:00-24:00	Gala Dinner Reception, 18:00-19:00, Foyer Dinner/Entertainment, 19:00-24:00, Exhibit Hall A							

## Instructional Courses

<b>8:15-9:30</b> Meeting Room 1	<b>Gait Training for the Transfemoral Amputee: Prosthetic Knee Considerations</b> Helen Scott (Chair), Penny Broomhead, Tony McGarry	Basic Course
<b>8:15-9:30</b> Meeting Room 2,3	<b>Congenital Upper Limb Deficiencies: Fitting Philosophies in the Western World</b> Wendy Hill (Chair), Joanne Shida, Lottie Hermansson, Viv Ibbotson	Advanced Course
<b>11:15-12:30</b> Meeting Room 1	<b>Orthotic Fabrication Techniques for Low Income Countries</b> Michael Rechsteiner (Chair), Claude Tardif, Nguyen Hai Thanh, Dibyendu Ghoshal, Frédéric Joyeux, Christophe Van Geel	Basic Course
<b>11:15-12:30</b> Meeting Room 2,3	<b>Bilateral Transfemoral Amputation and Multiple Limb Loss: Meeting the Challenges of Rehabilitation</b> Maggie Uden (Chair), John Sullivan, Steve McNiece	Advanced Course
<b>14:45-16:00</b> Meeting Room 1	<b>Teaching With Cases In P&amp;O Undergraduate Education</b> Nerrolyn Ramstrand (Chair), Simon Ramstrand	Basic Course

**Instructional Courses (cont'd)**

<b>14:45-16:00</b> Meeting Room 2,3	<b>Congenital Lower Limb Deficiencies: Surgical &amp; Prosthetic Management</b> Wm Cole (Chair), Shane Glasford	Advanced Course
<b>16:15-17:30</b> Meeting Room 1	<b>Prosthetic Fabrication Techniques for Low Income Countries</b> Yeongchi Wu (Chair), Hector Casanova, Tarun Kulshreshtha	Basic Course
<b>16:15-17:30</b> Meeting Room 2,3	<b>Upper Limb Orthotics</b> Aaron K L Leung (Chair), R Tong, MS Wong	Advanced Course

**Symposia**

<b>8:15-9:30</b> Meeting Room 8,15	<b>Appropriate Orthotic Technology for Low-Income Nations</b> Bakht Sarwar (Chair), Jerome Canicave, Micheal Rechsteiner, Peter Poetsma
<b>8:15-9:30</b> Ballroom C	<b>Wheelchair Consensus Conference</b> Chapal Khasnabis (Chair), T. Øderud, Kim D. Reisinger, Marc Krizack, David Constantine
<b>11:15-12:30</b> Meeting Room 8,15	<b>Upper Limb Fitting For Children: Is It Worthwhile?</b> Mary Williams Clark (Chair), Liselotte Hermansson, Virginia Wright, Kathleen Montpetit
<b>11:15-12:30</b> Ballroom C	<b>Professionalisation of Wheelchair and Seating Services In Developing Countries</b> Richard Frost (Chair), Jamie Noon, Kylie Mines, Elsje Scheffler, Longini Mtalo
<b>14:15-16:00</b> Meeting Room 8,15	<b>Appropriate Prosthetic Technology for Low Income Countries</b> Sepp Heim, Nguyen Hai Thanh, J. Steen Jensen, Soikat Ghosh Moulic, Ritu Ghosh
<b>14:45-16:00</b> Ballroom C	<b>Current Research in Osseointegration and Bone Anchored Prosthesis</b> Rickard Brånemark (Chair), Eva Häggström, Kerstin Hagberg, Maggie Uden, David Ward, Horst-Heinrich Aschoff
<b>16:15-17:30</b> Ballroom C	<b>A Rights-Based Approach to P&amp;O and Wheelchair Services</b> David Constantine (Chair), Christine Cornick, V. Scherrer, Henry Nyamubi, T. Tasiemski

**Manufacturer's Workshops**

<b>8:15-9:30</b> Meeting Room 11,12	The Future of CAD/CAM in P&O Utilizing Remote Imaging	Clynch Technologies Inc.
<b>11:15-12:30</b> Meeting Room 11,12	Biomechanical Consideration about Insole Treatment of the Foot/ JT20-Two in One- The Polycentric Knee Joint of Bauerfeind	Bauerfeind
<b>14:45-16:00</b> Meeting Room 11,12	Successful Orthotic Fittings Utilizing the Latest in CAD	Ohio Willow Wood
<b>16:15-17:30</b> Meeting Room 11,12	How to Maximize Fit, Control, and Patient Outcome Using the Matrix Carbon Composite AFO: Prosthetic and Orthotic Applications	Trulife

**Product Display Theatre**

<b>11:00-11:30</b> Exhibit Hall	<b>Advancements in Liner Technology by Ossur</b>	Ossur
------------------------------------	--	-------

**Free Papers**

<b>8:15-9:30</b> Exhibit Hall A	<b>Prosthetic Feet I</b>	<b>Presenting Author</b>
8:15	A critical evaluation of the elements of prosthetic foot design	Leona Morton
8:27	Automatically-adapting ankle-foot prosthesis concept	Andrew Hansen

8:39	Design of a powered below-knee prosthesis	Rino Versluys
8:51	Gait analysis of transtibial amputees with a new microprocessor controlled ankle: preliminary results	Merkur Alimusaj
9:03	Design & development of an intelligent plantarflexing ankle-foot prosthesis	M Mitchell
9:15	Limb-compliance and shock-absorbing pylons in persons with transfemoral amputations	Sara Koehler
<b>8:15-9:30</b> Ballroom A	<b>Lower Limb Orthotics</b>	<b>Presenting Author</b>
8:15	Effect of three types of orthoses on pain intensity and alignment in patients with mild to moderate knee osteoarthritis	Hooman Bahramian
8:27	Locating the axis of knee orthoses by optical methods	Burkhard Drerup
8:39	Effectiveness of adjustable dorsiflexion night splint in combination with foot orthosis on plantar fasciitis	Nga Mei Li
8:51	Neurogenic osteoporosis in post polio patients: effect of walking aids	Mark Lissens
9:03	Clinical use of thermoplastic composites	Karl Fillauer
9:15	West Midlands regional orthotic project	Barney White
<b>8:15-9:30</b> Ballroom B	<b>Education I</b>	<b>Presenting Author</b>
8:15	Teaching problem solving skills in prosthetics and orthotics	Michael Dillon
8:27	A challenge for expansion of the P&O job category: a case of a new P&O school in Japan	Kazuhiro Sakai
8:39	Enhancement of writing skills tuition and feedback for prosthetics and orthotics students	Margaret Hodge
8:51	Medical education with ICF: for student and resident?	Gerardus Rommers
9:03	The introduction and evaluation of inter-professional education within an undergraduate prosthetics and orthotics curriculum	Elaine Figgins
<b>11:15-12:30</b> Exhibit Hall A	<b>Prosthetic Feet II</b>	<b>Presenting Author</b>
11:15	Roll-over shape radii of able-bodied children	Andrew Hansen
11:27	A simple tool for measuring SACH foot deformation	Yeongchi Wu
11:39	Dynamic compliance of prosthetic feet	Glenn Klute
11:51	Correlating exterior failures with inner stresses of a prosthetic foot using finite element methods	Gerald Glynn
12:03	Lever compression moulding of Shape&Roll prosthetic feet	Andrew Hansen
12:15	Pedaling asymmetry in uni-lateral transtibial amputee cyclists and the effect of prosthetic foot stiffness	Lee Childers
<b>11:15-12:30</b> Ballroom A	<b>Outcomes in Lower Limb Prosthetics</b>	<b>Presenting Author</b>
11:15	Secondary physical conditions associated with lower limb amputation and long term prosthetic use	Robert Gailey
11:27	Physical activity and quality of life: a study of a lower limb amputee population	Sarah Deans
11:39	Prognostic indicators for successful prosthetic rehabilitation in older dysvascular unilateral transfemoral amputees	Jane Cumming
11:51	Evaluation of prosthetic limb use one to two years post discharge from rehabilitation	Laura Burgess

12:03	Functional outcome and prosthetic use following bilateral transtibial (below-knee) amputation	A.Keith Jeffery
12:15	Driving pedal reaction times following right transtibial amputations	Tim Pauley
<b>11:15-12:30</b> Ballroom B	<b>Education II</b>	<b>Presenting Author</b>
11:15	The challenges of continuing professional development (CPD) for physiotherapists working as lone practitioners in amputee rehabilitation	Mary Jane Cole
11:27	The development of a self-rating tool towards the evaluation of competency in amputee rehabilitation	Mary Jane Cole
11:39	Use of an audit tool to monitor the performance of graduate prosthetists/orthotists	Sandra Sexton
11:51	The development of an interactive online observational gait analysis repository	Jason Goodnough
12:03	Broadening goals of education in orthopaedic engineering	Fred Holtkamp
12:15	The internet as a tool for information sharing in prosthetic/orthotics services and education	Odom Teap
<b>14:45-16:00</b> Exhibit Hall A	<b>Complex Cases</b>	<b>Presenting Author</b>
14:45	A blind individual's prosthetic function with a transfemoral amputation: a case presentation	Shirlene Campbell
14:57	Rehabilitation sequencing for triple and quadruple amputees	Robert Meier
15:09	Adult outcomes of bilateral high upper limb loss in infancy and childhood	Mary Clark
15:21	Bilateral lower limb amputees preferred method of transfer, a qualitative study	Fiona Carnegie
15:33	Bilateral transfemoral prosthetic training: a case study with serial quantitative gait analysis	Jackie Hebert
15:45	Ortho – prosthetic rehabilitation of a patient with three-limb amputation with non-union fracture of both bone in one leg: a case report	Pravin Verma
<b>14:45-16:00</b> Ballroom A	<b>Paediatric Lower Limb Orthotics</b>	<b>Presenting Author</b>
14:45	Valgus foot in cerebral palsy: Orthotic management with talus-reposition-ring orthosis	Michael Schaefer
14:57	Pes equinus treatment with orthotic devices with a ring-shaped foot support: results for children suffering from an cerebral palsy	Michael Schaefer
15:09	Effect of supra-malleolar orthosis and articulated ankle foot orthosis on temporospatial parameters of children with hemiplegic cerebral palsy	Margaret Ho
15:21	The point of 'point-loading rockers' in ankle-foot orthosis footwear combinations used with children with cerebral palsy, spina bifida and other conditions	Elaine Owen
15:33	Management of fracture shaft of femur in children with newly designed femoral brace in Nepal	Gregory Aaron
15:45	Postural functional splint for a patient with cerebral palsy	Kouma Kwami Aklotsoe

<b>14:45-16:00</b> Ballroom B	<b>Education in Low-income Nations</b>	<b>Presenting Author</b>
14:45	Impact of single discipline prosthetics and orthotics education in India	Ritu Ghosh
14:57	The challenges of upgrade from ISPO Category II level to Bachelor Degree level	Sisary Kheng
15:09	A Bachelor's degree of Prothetics and Orthotics in Thailand	Wisa Chaloeapol
15:21	Experiences of using reflective practice as a learning tool for students at Sri-Lanka School of Prosthetics and Orthotics	Christine Mcmonagle
15:33	Experiences from north/south exchange programme, Sophies Minde, Norway and Queen Elisabeth Central Hospital, Malawi	Rune Nilsen
15:45	Pacific regional seminar on multidisciplinary management of stroke	Adrian Winsor
<b>16:15-17:30</b> Ballroom C	<b>Recent Research in Osseointegration</b>	<b>Presenting Author</b>
16:15	66 years experience of prostheses attached to the femur in 14 U.K.. amputees	Kingsley Robinson
16:27	Gait analysis of patients with a trans-femoral OI-prosthesis – prospective results at 2 year follow-up	Roy Tranberg
16:39	Improved quality of life with osseointegrated prostheses: prospective results at 2-year follow-up among 18 patients	Kerstin Hagberg
16:51	Evidence-based rehabilitation of amputees using osseointegrated prostheses: applications of finite element modelling	Winson Lee
17:03	Composite pylon for bone-skin attachment of limb prostheses	Mark Pitkin
17:15	A study of the alignment of transfemoral osseointegrated prostheses	John Sullivan
<b>16:15-17:30</b> Ballroom A	<b>Paediatrics</b>	<b>Presenting Author</b>
16:15	Comparisons of childhood amputation and lengthening for fibular deficiency	Janet Walker
16:27	Deficit-oriented treatment of the proximal focal femoral deficiency (PFFD)	Michael Schaefer
16:39	Biomechanical implications of early prosthetic knee fitting in an infant with transfemoral amputation: a case study	Mark Geil
16:51	Do the abilities of children with cerebral palsy explain their activities and participation?	Chris Morris
17:03	Postoperative use of remolding orthoses following cranial vault remodelling: a case series	Phillip Stevens
17:15	Pathophysiology of muscular dystrophy and its implications upon lower extremity orthotic intervention: a literature review	Phillip Stevens
17:27	Relation between family climate and children's use of upper limb prostheses	Liselotte Hermansson
<b>16:15-17:30</b> Ballroom B	<b>Upper Limb Prosthetics: Above the Hand</b>	<b>Presenting Author</b>
16:15	Shoulder movement control for high level, externally powered prostheses	Robert Lipschutz
16:27	User-modulated impedance control of a prosthesis	Jonathon Sensinger
16:39	A prosthetic wrist with an oblique plane of motion to optimise device weight, size and functionality	Øyvind Stavadahl
16:51	The WILMER 2-DOF wrist prosthesis for toddlers	Dick Plettenburg
17:03	A two degree of freedom powered prosthetic wrist	Peter Kyberd
17:15	Design of a powered two-DOF prosthetic wrist	Sam Phillips

# Friday, August 3, 2007

	LL Orthotics	Spinal Orthotics	LL Prosthetics	Rehab Medicine & Surgery	Paediatrics	Low Income Nations		
	UL Orthotics	Seating and WC	UL Prosthetics	Education	Technology	General		
	Manufacturers Workshop	Basic Inst. Course	Advanced Inst. Course	Symposia	Symposia	Free Papers 1	Free Papers 2	Free Papers 3
Rooms	MR11,12	MR1	MR2,3	MR8,15	BRC	Ex Hall A	BR A	BR B
8:15-9:30	Innovative Hip Joint Prosthesis Concept (Otto Bock)	Basic clinical Foot assessment Techniques	Team Management of Infants with Cranial Asymmetry	Emerging Technologies in P&O Education	Body-Powered Sports and Recreational Prostheses	Amputee Rehabilitation	Gait analysis	P&O Services in Low-income Nations I
9:30-9:45	Break							
9:45-10:45	Plenary Session: Moving the profession Forward Exhibit Hall A							
10:45-11:15	Refreshment Break: Exhibit Hall A							
11:15-12:30	Advancements in Liner Technology by Ossur (Ossur)	Orthotic Management of Post-polio Syndrome	Dealing with Elderly clients	Planning the way Ahead in P&O Education	Exercise Intervention for Intermittent Claudication	Prosthetic Knees	Upper Limb Prosthetics	P&O Services in Low-income Nations II
12:30-12:45	Break: Exhibit Hall B&C							
12:45-13:30	Closing Ceremony Exhibit Hall A							
13:30-14:30	Farewell Lunch							

## Instructional Courses

<b>8:15-9:30</b>	<b>Basic Clinical Foot Assessment Techniques</b>	Basic Course
Meeting Room 1	DJ Pratt (Chair), P Stevens	
<b>8:15-9:30</b>	<b>Team Management of Infants with Cranial Asymmetry</b>	Advanced Course
Meeting Room 2,3	Dulcy Lima (Chair), Ellie Boomer, Rod Lalor, Garry Ogilvie	
<b>11:15-12:30</b>	<b>Orthotic Management of Post-polio Syndrome</b>	Basic Course
Meeting Room 1	Frans Nollet	
<b>11:15-12:30</b>	<b>Dealing with Elderly clients</b>	Advanced Course
Meeting Room 2,3	Kevin Carroll (Chair), John Rush, Kimberly Walsh	

## Symposia

<b>8:15-9:30</b>	<b>Emerging Technologies in P&amp;O Education</b>
Meeting Room 8,15	Sepp Heim
<b>8:15-9:30</b>	<b>21st Century Arms: Advanced Body-Powered and High Performance Sports and Recreational Prostheses</b>
Ballroom C	Randall Alley (Chair), Bob Radocy, Steve Mandacina
<b>11:15-12:30</b>	<b>Planning the way Ahead in P&amp;O Education</b>
Meeting Room 8,15	Dan Blocka
<b>11:15-12:30</b>	<b>Exercise Intervention for the Treatment of Intermittent Claudication</b>
Ballroom C	Elizabeth Condie, Morag McNaughton, Judith Regensteiner, Helen Scott

**Manufacturer's Workshops**

<b>8:15-9:30</b> Meeting Room 11,12	<b>Innovative Hip Joint Prosthesis Concept - First Experiences from Practice</b>	Otto Bock
<b>11:15-12:30</b> Meeting Room 11,12	<b>Advancements in Liner Technology by Ossur</b>	Ossur

**Free Papers**

<b>8:15-9:30</b> Exhibit Hall A	<b>Amputee Rehabilitation</b>	<b>Presenting Author</b>
8:15	The development of a weekly gait clinic for primary lower limb amputees	Mary Jane Cole
8:27	The integration of core stability training in amputee rehabilitation	Catherine Howells
8:39	A physiotherapy program to enhance walking ability in trans-femoral amputees	Yuji Nagakura
8:51	Clinical pathways in rehabilitation: an international comparison for lower extremity amputation	Gretel Descheemaeker
9:03	Clinical guidelines for the pre and post operative physiotherapy management of adults with lower limb amputation	Penny Broomhead
9:15	Controlling the compensation	Carolyn Hirons
<b>8:15-9:30</b> Ballroom A	<b>Gait Analysis</b>	<b>Presenting Author</b>
8:15	Natural ankle stiffness during the second stance rocker: the effect of walking velocity	Alex R Razzook
8:27	Contribution of dynamic ankle-foot orthoses to ankle moments during stance in gait	Steven Stanhope
8:39	Method for determination of ankle-foot joint axes	Vern Houston
8:51	From foot pressure to foot motion?	Louis Peeraer
9:03	Validation of a gyroscopes-based protocol for the assessment of gait symmetry in above-knee amputees	Michele Raggi
9:15	The effect of transfemoral amputation on the attention required for a complex gait task	Emily Graham
<b>8:15-9:30</b> Ballroom B	<b>P&amp;O Services in Low-income Nations I</b>	<b>Presenting Author</b>
8:15	Results from a formative evaluation towards establishing a sustainable prosthetic and orthotic industry in Belize	Robert Kistenberg
8:27	Prosthetic service in rural area in Thailand: Mobile Unit of the Prostheses Foundation of H.R.H The Princess Mother	Therdchai Jivacate
8:39	Amputation prevention strategies in developing nations: a study of Belize	Robert Kistenberg
8:51	Evaluation of quality of life in lower limb prosthesis users: Indian perspective	SL Yadav
9:03	Causes of lower limb amputations, N.W.F.P- Pakistan	Aziz Ahmad
9:15	A methodology to evaluate CBR using ICF framework	Richa Sinha

<b>11:15-12:30</b> Exhibit Hall A	<b>Prosthetic Knees</b>	<b>Presenting Author</b>
11:15	New developments in stance-phase control	Jan Andrysek
11:27	Preliminary investigation of a non-fluid-based swing-phase damping mechanism for above-knee prostheses	Jan Andrysek
11:39	Development of a knee joint for a trans-femoral prosthesis that can ascend and descend stairs	Makoto Ninomiya
11:51	PROMECC: functional testing of prosthesis knee joints	Norbert Hochenleuthner
12:03	The application of a novel knee joint with lock for fitting geriatric prosthetic amputees	Hans Oppel
12:15	A motion analysis protocol for comparing active and reactive prosthetic knees	Angelo Davalli
<b>11:15-12:30</b> Ballroom A	<b>Upper Limb Prosthetics</b>	<b>Presenting Author</b>
11:15	Discomfort with back, shoulders and arms in people with acquired arm amputation or dysmelia	Anita Stockselius
11:27	Personal care methods used by bilateral high level upper limb amputees	Fiona Carnegie
11:39	Improved myoelectric outcome for a short trans radial	Sandra Ramdial
11:51	Targeted sensory re-innervation subject force perception	Jonathon Sensinger
12:03	Ipsilateral scapular cutaneous anchor	Debra Latour
12:15	The use of high resolution CAD-CAM system in the manufacturing of finger and hand prostheses	Tomaz Maver
<b>11:15-12:30</b> Ballroom B	<b>P&amp;O Services in Low-income Nations II</b>	<b>Presenting Author</b>
11:15	P&O common approach in low income countries	Claude Tardif
11:27	Management and information toolkit for prosthetic and orthotic workshops in humanitarian organisations	Dhabaleswar Nanda
11:39	Orthotic and prosthetic services in Papua New Guinea	Friedbert Kohler
11:51	Current challenges in orthotic and prosthetic service delivery in Papua New Guinea	Friedbert Kohler
12:03	Project Acceso: integration of community based rehabilitation (CBR) and prosthetics & orthotics technology in El Salvador	Tim Bryant
12:15	Integrated mobile rehabilitation services by Sirindhorn National Medical Rehabilitation Center, Thailand	Daranee Suvapan