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	Saturday July 14	Sunday July 15	Monday July 16	Tuesday July 17	Wednesday July 18
early			yoga at waterfront	yoga at waterfront	yoga at waterfront
morning		8:30–9:30 Keynote: Motor control programs and locomotion Francesco Lacquaniti [Adirondack] 9:30–10:00 Break w/ coffee; visit exhibitors [Montpelier] 10:00–12:00 3 concurrent oral sessions: • Aging–Posture control [Lake Champlain] • Cognitive Influences on Posture and Locomotion [Green Mountain A&B] • Rehabilitation and Training: Stroke [Green Mountain C]	8:30–9:30 Keynote: Intervention to promote healthy aging and fall prevention Laurence Rubenstein [Adirondack] 9:30–10:00 Break w/ coffee; visit exhibitors [Montpelier] 10:00–12:00 Poster viewing (4 categories) • Visual functions • Aging 2 • Rehabilitation and Training • Development of Posture and Gait [Mezzanine; Vermont; Burlington*] *special posters associated with Dr. Aftab Patla	8:30–9:30 <i>Keynote:</i> Why do we walk the way we do? Mechanical determinants of the metabolic cost of healthy and pathological gait Max Donelan [<i>Adirondack</i>] 9:30–10:00 Break w/ coffee; visit exhibitors [<i>Montpelier</i>] 10:00–12:00 3 concurrent oral sessions: • Aging–Gait control [<i>Lake</i> <i>Champlain</i>] • Neurophysiology of Sensorimotor Control [<i>Green Mountain A&B</i>] • Rehabilitation and Training: Parkinson's Disease [<i>Green Mountain C</i>]	8:30–9:30 Keynote: From theory to therapy: Implementing innovations in rehabilitation technology Tamar Weiss [Adirondack] 9:30–10:00 Break w/ coffee; visit exhibitors [Montpelier] 10:00–11:45 Featured symposia: Attentional mechanisms in balance control Moderaters: Shumway-Cook and Teaasdale; Maki, Redfern, Woollacott [Green Mountain]
lunch		12:00–1:00 Buffet Lunch [<i>Adirondack</i>]	12:00–1:00 Special Tribute to Dr. Aftab Patla Stance phase support—Don't ignore the musculoskeletal anthropometrics Winter, Frank [<i>Lake Champlain</i>] Take away lunch [<i>Adirondack</i>]	12:00–2:00 General Assembly Lunch Meeting [Adirondack]	12:00–2:00 Wyndham/Sit down Food for thought – lunch and debate:: Translating basic research into clinical practice: Proof of progress Nutt, Nashner [Adirondack]
afternoon	2:00–4:00 Board meeting (All Seasons Room, Wyndham) [<i>Lake Champlain</i>] Conference Registration and poster set up for Sunday's posters [<i>North Pre-function Area</i>] 5:00–5:45 <i>Keynote:</i> Neural mechanisms underlying balance control Jane Macpherson [<i>Adirondack</i>] 5:45–7:00 <i>Special Symposia:</i> Beyond Macpherson: Physiological mechanisms underlying postural responses Ting, Nichols, Stapley [<i>Adirondack</i>]	1:00–2:30 Poster viewing (5 categories) • Aging 1 • Biomechanics 1 • Cognitive Influences on Posture and Locomotion • Vestibular functions • Assistive Technologies [Mezzanine; Vermont] 2:30–2:45 Break w/ coffee [Montpelier] 2:45–4:30 Featured Symposia: Functional imaging of axial motor control Moderaters: Bloem and Nagle; Toni, Mori, Nielsen [Green Mountain]	Free Afternoon hiking, biking, kayaking, sailing, bus to Stowe, Shelburne Museum	2:00–3:45 Featured symposia: Understanding the bilateral coordination of walking: impact on gait disturbances Moderaters: Hausdorf and Duysens; Plotnik, Nieuwboer, Havlin [Green Mountain] 3:45–4:00 Break [Montpelier] 4:00–6:00 Poster viewing (4 categories) Multisensory Integration Techniques and Methods of Posture and Gait Analysis 1 Neurophysiology of Sensorimotor Control Fear of Falling, Falls and Prevention [Mezzanine; Vermont; Burlington]	2:00–3:30 Poster viewing (4 categories) • Somatosenry Functions • Biomechanics 2 • Neurophysiology of Sensorimotor Control 2 • Techniques and Methods of Posture and Gait Analysis 2 [Mezzanine; Vermont; Burlington] 3:30–4:00 Break [Montpelier] 4:00–5:30 3 concurrent oral sessions: A Fear of Falling, Falls and Prevention [Lake Champlain] B Sensory Function in Posture Control [Green Mountain A&B] C Biomechanics of posture control [Green Mountain C]
evening/social	7:00–8:00 Opening Reception [<i>Adirondack</i>]	5:15 depart for Shelburne Farms Opening Mozart Concert and Dressage Exhibition	7:00–11:00 Dinner cruise: Spirit of Ethan Allen	6:30 Cocktails at Waterfront Park 7:00–11:00 Waterfront Park for Conference Dinner/Student Awards	5:30-6:30 Closing Reception/Delsus EMG Award [Adirondack] 7:00-9:00 Moonlight kayaking on the lake with picnic dinner; bus to Montreal

Awards

STUDENT AWARD for BEST POSTER

Two awards will be given in recognition of the best research by a student poster presenter. Creativity, clarity of presentation and originality of the research will be among the award criteria. The winners of the award will be announced at the banquet dinner on Tuesday evening, July 17th at the Conference Dinner.

Committee Chair: Emily Keshner, PT, EdD John Allum, PhD Marjorie Woollacott, PhD James S. Frank, PhD Mark Carpenter, PhD Laurence Mouchnino, PhD Bastiaan Bloem, PhD, MD Paul Dizio, PhD Jacques Duysens, PhD Normand Teasdale, PhD

DELSYS AWARD for BEST EMG PRESENTATION

Prize : Bagnoli -2 ch EMG system, EMGworks software and Desktop AD card (\$4,000 value).

The prize will be assigned to any author of a Paper or Poster presentation. The first author must make the presentation. Current employees and consultants of Delsys, as well as their families are excluded from the competition. A prize committee will review all candidate abstracts submitted to the conference. The three members of the prize committee will attend all candidate presentations and vote on each. The committee members will not communicate their vote or impressions at any time, other than by secrete ballot. Each presentation will be scored on a scale of 0 to 10, with 10 being the highest grade. The presentation receiving the highest combined score from all 3 committee members will be the winner. In the event of a tie, the prize committee members will enter into a debate, and by their own rules will choose a single winner from the tied candidates.

The score of ten (10) possible points will be awarded as follows:

- Novelty: 0-5 Points
- Clarity: 0-3 Points
- Persuasiveness: 0-2 Points

Committee members: Jane Macpherson, PhD John Allum, PhD Clive Pai, PhD

The winners of the award will be announced at the banquet dinner on Wednesday evening, July 18th at the Closing Reception.

Conference Schedule

SATURDAY, JULY 14, 2007

2–4 pm	ISPGR Board	meeting			
	[Lake Champlain Room]				
	Conference Registration and poster set up for Sunday's posters				
	[North Pre-function Area]				
5–5:45 pm	Keynote Speaker				
-	"Neural mechanisms underlying balance control" (KS-1)				
	Jane Macpher	Jane Macpherson, PhD, Senior Scientist, Neurological Sciences Institute,			
	Portland, OR,	USA			
	[Adirondack Ballroom C/D]				
5:45–7 pm	Featured Symposia (FS-1)				
	"Beyond Macpherson: Physiological mechanisms underlying postural responses"				
	Moderator:	Lena Ting, PhD, Assistant Professor, Emory University and Georgia			
		Institute of Technology, Atlanta, Georgia, USA			
	Speakers:	Lena Ting, PhD			
		Richard Nichols, PhD, Professor, Emory University,			
		Atlanta, Georgia, USA			
		Paul Stapley, PhD, Assistant Professor, McGill University,			
		Montreal, QC, Canada			
	[Adirondack Ballroom C/D]				
7–8 pm	Opening Reception				
	[Adirondack l	Ballroom A/B]			

SUNDAY, JULY 15, 2007

8:30–9:30 am Keynote Speaker (KS-2)

"Motor control programs and locomotion Francesco Lacquaniti, MD, Professor, University of Rome Tor Vergata and IRCCS Fondazione Santa Lucia, Rome, Italy [Adirondack Ballroom]

- 9:30–10 am Break; visit exhibitors
 - [Montpelier Room]
- 10 am-12 pm 3 concurrent oral sessions

Aging—Posture control [Lake Champlain]

Moderators: Drs. Lena Ting and Leslie Allison

Age-related differences in body-segment rotation magnitudes during gaze reorientation while standing or walking on a treadmill

M. Cinelli¹, A.E. Patla² and B.L. Stuart²

¹Cognitive and Linguistic Sciences, Brown University, Providence, RI, USA and ²Kinesiology, University of Waterloo, Waterloo, ON, Canada

Changes in mediolateral balance control in elderly fallers

I. Melzer¹, I. Kurz¹ and L. Oddsson²

¹Physical Therapy, Ben-Gurion University, Beer-Sheva, Israel and ²NeuroMuscular Reaserch Center, Boston University, Boston, MA, USA

Adult age-specific and age-general effects of cognitive load on the regularity of whole-body coordination in dual-tasked walking

J. Verrel, M. Lövdén, A.E. Pohlmeyer, S. Schaefer and U. Lindenberger

Center for Lifespan Psychology, Max-Planck-Institute for Human Development, Berlin, Germany

The dynamics of multi-sensory re-weighting in healthy and fall-prone older adults

L.K. Allison¹, T. Kiemel² and J.J. Jeka²

¹Physical Therapy, East Carolina University, Greenville, NC, USA, ²Kinesiology, University of Maryland, College Park, MD, USA and ³Neuroscience and Cognitive Science, University of Maryland, College Park, MD, USA

Delays in voluntary step initiation are related to increased volume of white matter hyperintensities in older adults

P.J. Sparto¹, H.J. Aizenstein², J.M. VanSwearingen¹, C. Rosano³, J.M. Furman⁴, M.S. Redfern⁵ and S.A. Studenski⁶

¹Physical Therapy, University of Pittsburgh, Pittsburgh, PA, USA, ²Psychiatry, University of Pittsburgh, Pittsburgh, PA, USA, ³Epidemiology, University of Pittsburgh, Pittsburgh, PA, USA, ⁴Otolaryngology, University of Pittsburgh, Pittsburgh, PA, USA, ⁵Bioengineering, University of Pittsburgh, Pittsburgh, PA, USA and ⁶Medicine, University of Pittsburgh, Pittsburgh, PA, USA and ⁶Medicine, University of Pittsburgh, Pittsburgh, PA, USA

Force platform balance measures as predictors of risk for falling indoors and outdoors in community dwelling 63 to76-year-old women

S.S. Pajala¹, P. Era², M. Koskenvuo³, J. Kaprio⁴, T. Törmäkangas¹ and T. Rantanen¹

¹Department of Health Sciences, University of Jyväskylä, Jyväskylä, Finland, ²Finnish Brain Research and Rehabilitation Center Neuron, Kuopio, Finland, ³Department of Public Health, University of Helsinki, Helsinki, Finland and ⁴Department of Mental Health and Alcohol Research, National Public Health Institute, Helsinki, Finland

Cognitive Influences on Posture and Locomotion [Green Mountain Ballroom A&B]

Moderators: Drs. Marjorie Woollacott and Paul DiZio

Influence of postural anxiety on the cortical response associated with postural reactions to predictable and unpredictable trunk perturbations

A.L. Adkin¹, A.D. Campbell², R. Chua² and M.G. Carpenter²

¹Faculty of Applied Health Sciences, Brock University, St. Catharines, ON, Canada and ²School of Human Kinetics, University of British Columbia, Vancouver, BC, Canada

The effect of dual and multi-tasking on gait performance in a cohort of community dwelling elderly people

C.J. Bula¹, E. Martin¹, K. Aminian², S. Rochat¹, B. Najafi², V. Besson², M. Thomi¹, A. Vacheron¹, A. Karmaniola⁴, B. Carolina⁴, C. Piot-Ziegler³ and B. Santos-Eggimann⁴

¹Geriatrics, CHUV, Lausanne, Switzerland, ²LMAM, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, ³Health Psychology Unit, University of Lausanne, Lausanne, Switzerland and ⁴Institute for Social & Preventive Medicine, University of Lausanne, Lausanne, Switzerland

Age differences in walking and judging during different phases of gait

S.A. Fraser¹, K.Z. Li¹, V.B. Penhune¹, R.G. DeMont², M.C. Hendry¹, G. Abbud² and K. Hamati¹

¹Psychology, Concordia University, Montreal, QC, Canada and ²Exercise Science, Concordia University, Montreal, QC, Canada

Trace conditioning of automatic postural reflexes

A. Campbell, C. Dakin and M.G. Carpenter

School of Human Kinetics, University of British Columbia, Vancouver, BC, Canada

Attention influences sensory integration during standing posture

M. Redfern¹, M. Muller² and J. Jennings²

¹Bioengineering, University of Pittsburgh, Pittsburgh, PA, USA and ²Psychology, University of Pittsburgh, Pittsburgh, PA, USA

Cognitive and motor mediators of the changes in gait stability during dual tasking in healthy older adults: single task performance does not necessarily predict dual task

J.M. Hausdorff⁴, G. Yogev², T. Herman², M. Brozgol², N. Inbar-Borowsky², L. Gruendlinger² and N. Giladi¹

¹Department of Neurology, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel, ²Laboratory for Gait & Neurodynamics, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel, ³Physical therapy department, Sackler School of Medicine, Tel-Aviv, Israel and ⁴Division on Aging, Harvard Medical School, Boston, MA, USA

Rehabilitation and Training: Stroke [Green Mountain Ballroom C]

Moderators: Drs. Emily Keshner and Antonio Nardone

The impact of increasing plantarflexors and hip flexors muscle strength on the level of effort during gait in individuals with hemiparesis

M. Marie-Helene¹, N. Sylvie², G. Denis², B. Daniel², C. Pauline² and C. Susan³

¹École de réadaptation, Université de Montréal, Montr $\sqrt{E}\neg(c)al$, QC, Canada, ²Institut de réadaptation de Montréal, CRIR, Montr $\sqrt{E}\neg(c)al$, QC, Canada and ³Hôpital de réadaptation Lindsay, Montr $\sqrt{E}\neg(c)al$, QC, Canada

Tai Chi improves standing balance in people with chronic stroke

S. Au-Yeung¹, C. Hui-Chan² and J. Tang³

¹Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong, China, ²Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong, China and ³Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong, China

Comparison of treadmill and overground walking at self-selected speed in persons with post-stroke hemiparesis

S.A. Kautz¹, C.K. Balasubramanian³, M.G. Bowden¹ and R.R. Neptune⁴

¹VA Brain Rehabilitation Research Center, Malcom Randall VA Medical Center, Gainesville, FL, USA, ²Physical Therapy, University of Florida, Gaineville, FL, USA, ³Rehabilitation Sciences Doctoral Program, University of Florida, Gaineville, FL, USA and ⁴Mechanical Engineering, The University of Texas, Austin, TX, USA

Learning postural tasks in hemiparetic patients with lesions of left versus right hemisphere

M. Ioffe², L. Chernikova¹, R. Umarova¹, N. Katsuba¹ and M. Kulikov²

¹Institute of Neurology of RAMS, Moscow, Russian Federation and ²Institute of Higher Nervous Activity & Neurophysiology, Moscow, Russian Federation

Mechanical work in hemiparetic gait

A.C. Christie¹, J.J. Eng² and M. Donelan¹

¹School of Kinesiology, Simon Fraser University, Burnaby, BC, Canada and ²School of Rehabilitation Sciences, UBC, Vancouver, BC, Canada

	Inappropriate flowing with post-stroke	exor synergies influence walking mechanics that reduce paretic propulsion in persons hemiparesis		
	C.L. Peterson ¹ , R.	R. Neptune ¹ and S.A. Kautz ²		
	¹ Department of Me Research Center, N	echanical Engineering, The University of Texas at Austin, Austin, TX, USA and ² Brain Rehabilitation Ialcom Randall VA Medical Center, Gainesville , FL, USA		
12–1 pm	Buffet Lunch			
-	[Adirondack I	Ballroom]		
1–2:30 pm	Poster viewing	g (presenting author will be at poster during this time)		
•	Aging 1			
•	Biomechanics	1		
•	Cognitive Infl	uences on Posture and Locomotion		
•	Vestibular	Vestibular		
•	Assistive Tech	Assistive Technologies		
	[Mezzanine and Vermont Rooms]			
2:30–2:45 pm	Break; visit exhibitors			
I	[Montpelier Room]			
2:45–4:30 pm	Featured Symposia			
I	"Functional imaging of axial motor control" (FS-2)			
	Moderaters:	Bastiaan R. Bloem, MD, PhD, Niimegen Medical Center,		
		Radboud University, Niimegen, The Netherlands		
		Keith I. Nagle, MD, Director of Neurophysiology Lab.		
		Fletcher Allen Health Care, Burlington, VT, USA		
	Speakers:	Ivan Toni, PhD, FC Donders Center for Cognitive Neuroimaging,		
	1	Radboud University, Niimegen, The Netherlands		
		Futoshi Mori, PhD, Associate Professor, Yamaguchi University, Japan		
		Jens Bo Nielsen, PhD, Professor, University of Copenhagen, Denmark		
	[Green Mountain Ballroom]			
5:15 pm	Depart from front of Wyndham Hotel for Shelburne Farms			
I I	(Mozart Concert and Dressage Exhibition)			
MONDAY, JU	LY 16, 2007			
7–8 am	Yoga at waterf	ront		
	[Lake Champl	ain Room – Wyndham Hotel, if weather is inclement]		
8:30–9:30 am	Kevnote Speak	xer (KS-3)		

8:30–9:30 ai (KS-3)

"Intervention to promote healthy aging and fall prevention" Laurence Rubenstein, MD, MPH, Professor, University of California,

Los Angeles, CA, USA

[Adirondack Ballroom]

9:30–10 am Break; visit exhibitors [Montpelier Room]

10 am–12 pm Poster viewing (presenting author will be at poster during this time)

- Visual functions •
- Aging 2 •
- Rehabilitation and Training •

•	Development of Posture and Gait			
	[Mezzanine: Vermont: Burlington*]			
	*Special posters associated with Dr. Aftab Patla			
12_1 nm	Special Tribute to Dr. Aftab Patla			
12 1 pm	Introduction by James S. Frank, PhD. Professor and Dean of Graduate Studies and			
	Research, University of Windsor, Windsor, ON, Canada			
	Special seminar:			
"Stance Phase Support—Don't Ignore the Musculoskeletal Anthropor				
	Speaker: David Winter, PhD, Professor Emeritus, University of Waterloo,			
	Waterloo, ON, Canada			
[Lake Champlain Room]				
	Take away lunch			
	[Adirondack Ballroom]			
Afternoon fre	e for social activities			
6:30–9 pm	Dinner cruise			
-	Spirit of Ethan Allen—boat departs at 6:30 pm from the Boathouse			
	(at waterfront across the street from the Wyndham Hotel)			

TUESDAY, JULY 17, 2007

- 7–8 am Yoga at waterfront
 - [Lake Champlain Room Wyndham Hotel, if weather is inclement]
- 8:30–9:30 am Keynote Speaker (KS-4)

"Why do we walk the way we do? Mechanical determinants of the metabolic cost of healthy and pathological gait" Maxwell Donelan, PhD, Assistant Professor, Simon Fraser University, Burnaby, BC, Canada

- [Adirondack Ballroom]
- 9:30–10 am Break; visit exhibitors
 - [Montpelier Room]
- 10 am-12 pm 3 concurrent oral sessions

Aging—Gait control [Lake Champlain]

Moderators: Drs. Bradford Macfayden and Kazuo Ishikawa

Visually guided step turns: the effect of age on the movement pattern and muscle activation pattern

D. Taylor¹, L. Ngan-Hing¹, N. Shepard², A. Ashburn³, M. Burnett³ and J. Burgneay⁴

¹Health and Rehabilitation Research Centre, AUT University, Auckland, New Zealand, ²Department of Special Education and Communication Disorders, University of Nebraska, Lincoln, NE, USA, ³The Stroke Association Rehabilitation Research Centre, University of Southampton, Southampton, UK and ⁴ISVR, University of Southampton, Southampton, UK

Evidence for a Link Between Age-Related Visuomotor Decline and Inaccurate Foot Placement During Adaptive Locomotion

G.J. Chapman, W.R. Young and M.A. Hollands

School of Sport and Excercise Sciences, University of Birmingham, Birmingham, UK

Aging and the efficiency of steady-state uphill walking

J.D. Ortega¹ and C.T. Farley²

¹Kinesiology, Humboldt State University, Arcata, CA, USA and ²Integrative Physiology, University of Colorado, Boulder, CO, USA

How do shoe features affect dynamic balance and perceived stability during gait?

J. Menant¹, S.D. Perry², H.B. Menz³, B.J. Munro⁴, J.R. Steele⁴ and S.R. Lord¹

¹Prince of Wales Medical Research Institute, Sydney, NSW, Australia, ²Department of Kinesiology and Physical Education, Wilfrid Laurier University, Waterloo, ON, Canada, ³Musculoskeletal Research Centre, La Trobe University, Bundoora, VIC, Australia and ⁴Biomechanics Research Laboratory, Wollongong University, Wollongong, NSW, Australia

Dynamic stability of gait in elderly fallers and non-fallers

R. Wright¹, D. Peters¹, P. Robinson¹ and M. Hollands²

¹School of Sport & Exercise Science, University of Worcester, Worcester, UK and ²School of Sport & Exercise Sciences, University of Birmingham, Birmingham, UK

Aging affects the steering of locomotion induced by changing optic flows

J.R. Berard¹, J. Fung¹, B.J. McFadyen² and A. Lamontagne¹

¹School of Physical and Occupational Therapy, McGill University, Montreal, QC, Canada and ²Dept of Rehabilitation, Laval University, Montreal, QC, Canada

Neurophysiology of Sensorimotor Control Green Mountain Ballroom A&B]

Moderators: Drs. Mark Redfern and Yuri Ivanenko

Multi-segmental control of stance following vestibular and proprioceptive loss

C. Horlings¹, U.M. Küng¹, F. Honegger¹, B.R. Bloem², B.G. van Engelen² and J.H. Allum¹

¹ORL, University Hospital, Basel, Switzerland and ²Neurology, Radboud University Medical Center, Nijmegen, Netherlands

Muscle activity in the arms and legs of humans is modulated by single low threshold mechanoreceptors in the skin of the foot

L. Bent¹, C. Lowrey¹, K. Thomas¹, J. Fallon² and V. Macefield²

¹University of Guelph, Guelph, ON, Canada and ²Prince of Wales Medical Research Institute, Sydney, NSW, Australia

Ataxia in compressive cervical myelopathy: a role for long-loop responses?

A. Nardone¹, M. Galante¹, M. Godi¹, M. Grasso¹ and M. Schieppati²

¹Division of Physical Therapy and Rehabilitation, Fondazione Salvatore Maugeri, Veruno (Novara), Italy and ²Department of Experimental Medicine, University of Pavia, Pavia, Italy

Recalibration of locomotor patterns in patients with cerebellar deficits

W. Ilg, R. Roehrig, P. Thier and M.A. Giese

Cognitive Neurology, Hertie Institute for Clinical Brain Science, University Clinic Tuebingen, Tuebingen, Germany

Effects of aging and stroke on sensory recalibration in the control of upright balance

N. Bugnariu¹ and J. Fung²

¹School of Rehabilitation Sciences, University of Ottawa, Ottawa, ON, Canada, ²School of Physical & Occupational Therapy, McGill University, Montreal, QC, Canada and ³Jewish Rehabilitation Hospital (CRIR) Research Center, Laval, QC, Canada

Cortical activity associated with compensatory balance reactions: Comparison of healthy adults and individuals with neurologic injury

W.E. McIlroy¹, K.M. Sibley⁴, J. Camilleri⁵, K.F. Zabjek⁶ and W.H. Gage⁷

¹Kinesiology, University of Waterloo, Waterloo, ON, Canada, ²Toronto Rehabilitation Institute, Toronto, ON, Canada, ³HSFO Centre for Stroke Recovery, Sunnybrook Research Institute, Toronto, ON, Canada, ⁴Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada, ⁵Graduate Department of Rehabilitation Sciences, University of Toronto, Toronto, ON, Canada, ⁶Physical Therapy, University of Toronto, Toronto, ON, Canada and ⁷School of Kinesiology and Health Sciences, York University, Toronto, ON, Canada

Rehabilitation and Training: Parkinson's Disease [Green Mountain Ballroom C]

Moderators: Drs. Fay Horak and Bastiaan Bloem

Contributions of the pre-supplementary motor area, premotor cortex, primary motor cortex, and basal ganglia to anticipatory postural adjustments for step initiation

F. Horak¹, J.V. Jacobs¹, J. Lou² and J. Kraakevik²

¹Balance Disorders Lab, Neurological Sciences Institute, Oregon Health & Science University, Beaverton, OR, USA and ²Dept of Neurology, Oregon Health & Science University, Portland, OR, USA

The Effect of Argentine Tango on Functional Mobility in People with Parkinson Disease

M.E. Hackney and G. Earhart

Program in Physical Therapy, Washington University School of Medicine, St. Louis, MO, USA

Parkinson's disease affects whole body pointing movements

M. Tagliabue¹, G. Ferrigno² and F. Horak³

¹LNRS, CNRS, Université René Descartes, Paris, France, ²Biomedical Engineering Dept., Politecnico di Milano, Technical University, Milano, Milano, Italy and ³Depts of Neurology, Physiology & Pharmacology and Biomedical Engineering, Neurological Sciences Institute, OHSU, Portland, OR, USA

The process of integration of visual information during a dynamic equilibrium task in Parkinsonian patients

M. Schieppati¹, A.M. De Nunzio² and A. Nardone²

¹Experimental Medicine, Università di Pavia, Pavia, Italy and ²Centro Studi Attività Motorie, Fondazione Salvatore Maugeri (IRCCS), Pavia, Italy

Postural sway and striatal dopaminergic denervation in Parkinson disease and healthy aging adults

M. Muller¹, G.M. Constantine², R.Y. Moore³ and N.I. Bohnen¹

¹Functional Neuroimaging, Cognitive, and Mobility Laboratory, University of Michigan, Ann Arbor, MI, USA, ²Department of Mathematics, University of Pittsburgh, Pittsburgh, PA, USA and ³Department of Neurology, University of Pittsburgh, Pittsburgh, PA, USA

Axial motor control in Parkinson's disease during upright vertical axis rotation: en bloc and stabilization strategies

D. Solomon¹, E. Grace² and K. Robinson³

¹Neurology, Johns Hopkins University, Baltimore, MD, USA, ²Physical Therapy, University of Pennsylvania, Philadelphia, PA, USA and ³Physical Medicine and Rehabilitation, University of Pennsylvania, Philadelphia, PA, USA

[Adirondack Ballroom] 2-3:45 pm Featured symposia (FS-3) "Understanding the bilateral coordination of walking: impact on gait disturbances" Moderaters: Jeffrey Hausdorf, PhD, Harvard Medical School, Boston, MA, USA and Director, National Parkinson Foundation Center of Excellence, Tel-Aviv Sourasky Medical Center, Israel Jacques Duysens, MD, PhD, Professor, Radboud University, Nijmegen, The Netherlands Speakers: Meir Plotnik, PhD, Senior researcher, Tel-Aviv Sourasky Medical Center, Israel Alice Nieuwboer, PhD, PT, Associate Professor, Catholic University Leuven, Belgium Shlomo Havlin, PhD, Professor, Bar Ilan University, Israel [Green Mountain Ballroom] 3:45-4 pm Break; visit exhibitors [Montpelier Room] Poster viewing (presenting author will be at poster during this time) • Multisensory Integration • Techniques and Methods of Posture and Gait Analysis 1 • Neurophysiology of Sensorimotor Control 1 • Fear of Falling, Falls and Prevention [Mezzanine; Vermont & Burlington Rooms] 6:30 pm 6:30 pm Cocktails at the Waterfront Park (cash bar) [Lake Champlain Room – Wyndham Hotel, if weather is inclimate] 8:30-9:30 am Keynote Speaker (KS-5)"From Theory to Therapy: Implementing Innovations in Rehabilitation Technology" 7-18 am Yoga at waterfront [Lake Champlain Room	12–2 pm	ISPGR Genera	l Assembly Meeting Lunch		
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Pittsburgh, PA, USA Marjorie Woollacott, PhD, Professor, University of Oregon, Eugene, OR, USA [Green Mountain Ballroom]			Mark Redfern, PhD, Professor, University of Pittsburgh		
Marjorie Woollacott, PhD, Professor, University of Oregon, Eugene, OR, USA [Green Mountain Ballroom]			Pittsburgh, PA, USA		
Eugene, OR, USA [Green Mountain Ballroom]			Marjorie Woollacott, PhD, Professor, University of Oregon.		
[Green Mountain Ballroom]			Eugene, OR, USA		
		[Green Mountain Ballroom]			

12–2 pm	Sit down Lunch
-	Debate: "Food for thought – lunch and debate: Translating basic research into clinical
	practice: Proof of progress"
	John Nutt, MD, Professor, Oregon Health and Science University, Portland, OR, USA
	Lewi Nashner, PhD, President and CEO, Neurocom International, Clackamas, OR, USA
	[Adirondack Ballroom]
2–3:30 pm	Poster viewing (presenting author will be at poster during this time)

- Somatosensory Functions
 - Biomechanics 2
 - Neurophysiology of Sensori-Motor Control 2
 - Techniques and Methods of Posture and Gait Analysis 2 [Mezzanine and Vermont Rooms]
- 3:30–4 pm Break; visit exhibitors

[Montpelier Room]

4–5:30 pm 3 concurrent oral sessions

Fear of Falling, Falls and Prevention [Lake Champlain]

Moderators: Drs. Mark Carpenter and James Frank

Evaluation of a perturbation-based balance-training program to train more effective change-in-support reactions in older adults

A. Mansfield¹, A.L. Peters², B.A. Liu³ and B.E. Maki²

¹Institute of Medical Science, University of Toronto, Toronto, ON, Canada, ²Centre for Studies in Aging, Sunnybrook Health Sciences Centre (University of Toronto), Toronto, ON, Canada and ³Department of Medicine, Sunnybrook Health Sciences Centre (University of Toronto), Toronto, ON, Canada

Segment contributions to a standing turn in young and old adults under different task constraints

J. Baird and R. VanEmmerik

Kinesiology, University of Massachusetts Amherst, Amherst, MA, USA

Obstacle avoidance in people with rheumatoid arthritis

E. Smulders¹, V. Weerdesteyn², C. Schreven¹, W. van Lankveld³ and J. Duysens²

¹Research, Development and Education, Sint Maartenskliniek, Nijmegen, Netherlands, ²Rehabilitation Medicine, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands and ³Department of Rheumatology, Sint Maartenskliniek, Nijmegen, Netherlands

Weight loss improves balance control

N. Teasdale¹, O. Hue¹, M. Simoneau¹, A. Tremblay¹, P. Marceau², M. Simon², B. Simon² and B. Félix¹

¹Kinesiology, Université Laval, Québec, QC, Canada and ²General Surgery, Hôpital Laval, Québec, QC, Canada

Sensory Function in Posture Control [Green Mountain Ballroom A&B]

Moderators: Drs. Lorenzo Chiari and Jose Barela

Visual field dependence-independence before and after unilateral vestibular loss

L. Borel¹, C. Lopez¹, J. Magnan² and M. Lacour¹

¹Lab Neurobiologie Intégrative et Adaptative. UMR 6149, Université de Provence/CNRS, Marseille, France and ²Service d'Oto-rhino-laryngologie et Chirurgie Cervico-faciale, Hôpital Nord, Marseille, France

ISPGR

Directional tuning of neck muscle force produced by linear vestibulocollic reflexes

A. Green¹ and G. Gdowski²

¹Biomedical Engineering, University of Rochester, Rochester, NY, USA and ²Neurobiology and Anatomy, University of Rochester, Rochester, NY, USA

Non-linear analysis of stabilometric signals can predict Ménière's disease vertigo attacks

P. Gagey², O. Sasaki¹, S. Usami³ and S. Sakura³

¹ENT, aSakura Clinic, Tokyo, Japan, ²Institut de Posturologie, L'Hay-les-Roses, IdF, France and ³ENT, Shinshu University, Matsumoto, Japan

Prosthetic device based on multi-modal feedback improves balance control for the healthy young and elderly

J.H. Allum¹, J.R. Davis², M.G. Carpenter², S. Meyes³, R. Tschanz³, D. Debrunner³ and J. Burger³

¹University Hospital Basel, Basel, Basel, Switzerland, ²School of Humna Kinetics, University of British Columbia, Vancouver, BC, Canada and ³Technical University of Applied Sciences, Biel, Bern, Switzerland

Biomechanics of posture control [Green Mountain Ballroom C]

Moderators: Drs. John Scholz and John Allum

Shared muscle synergies in the stance leg during stepping and non-stepping postural responses

S.A. Chvatal, G. Torres-Oviedo and L.H. Ting

Department of Biomedical Engineering, Emory University and Georgia Institute of Technology, Atlanta, GA, USA

The adaptive control of stair descent behavior

L.C. Pelland¹, B. Joss², A. Leroux³, E. Charbonneau¹ and J. Cybulski¹

¹School of Rehabilitation Therapy, Queen's University, Kingston, ON, Canada, ²Human Mobility Research Centre, Kingston, ON, Canada and ³Exercise Science, Concordia University, Montreal, QC, Canada

Strategies for anticipatory postural adjustments preceding multi-directional pointing in man

J. Leonard, R. Brown and P.J. Stapley Kinesiology and Physical Education, McGill University, Montreal, QC, Canada

The spring-like model for the equilibrium control during human upper trunk bending

A. Alexandrov and A. Frolov

Institute of Higher Nervous Activity and Neurophysiology, Russian Academy of Sciences, Moscow, Russian Federation

5:30–6:30 pm Closing Reception/DELSYS EMG award [Adirondack Ballroom]7–9 pm Moonlight kayaking on the lake

Poster Layout



Burlington



11 EXHIBIT/POSTER TABLES

Exhibitors

AMTI 176 Waltha Watertown	Booth #25 m Street MA 02472, USA	Innovision Systems 3717 Peters Rd. Columbiaville, MI 48	Booth # 421-9304
617-926-67 617-926-50	00 45 (fax)	810-793-5530 810-793-1714 (fax)	
www.amti.o	com	www.innovision-syste	ems.com
Bertec Corp 6171 Huntl Columbus, 614-430-54 614-439-54 www.Berted	Booth #17 ey Road, Suite J OH 21 ext 221 25 (fax) c.com	Kistler Instrument Corp 75 John Glenn Drive Amherst NY 14228 716-691-5100 716-691-5226 (fax) www.kistler.com	Booth #
Clevemed 4415 Euclic Cleveland, 216-619-59 216-791-67 www.clever	Booth #24 Avenue OH 18 39 (fax) ned.com	Micromedical Technologies 10 Kemp Drive Chatham, ILL 62629 217-483-2122 217-483-4533 (fax) www.micromedical.c	Booth # om
CodaMotion Unit 2, Vict Fowke Stree Leicestershi United Kin +44 (0)116 +44 (0)116	Booth #18 oria Mills, et, Rothley, re, LE7 7PJ, gdom 230 1060 230 1857 (fax)	Microstrain 310 Hurricane Lane, Williston, VT 802-862-6629 802-863-4093 (fax) www.microstrain.com	Booth #2 Suite 4 n
www.codan	notion.com	Motion Analysis	Booth #2
Delsys PO Box 157 Boston, MA 617-236-05 617-236-05	Booth #16 734 02215 99 49 (fax)	3617 Westwind Blvd Santa Rosa, CA 95403 707-579-6500 707-526-0629 (fax) www.motionanalysis.	3 com
www.delsys GaitRite – CIR Syst 60 Garlor E Havertown 610-449-48 610-853-29 www.gaitrit	.com Beens Booth #12 Drive , PA USA 79 25 (fax) e.com	Motion Lab Systems 15045 Old Hammond Baton Rouge, LA 225-272-7364 225-272-7336 (fax) www.motion-labs.com	Booth #2 d Hwy m

Booth #15

Booth #11

Booth #19

Booth #28

Booth #21

Booth #29

Booth #26 Neurocom 9570 SE Lawnfield Road Clackamas, OR 97015 503-653-2144 503-653-1991 (fax) 800-767-6744 www.onbalance.com

Novel Electronics Booth #22 964 Grand Avenue St Paul, MN 55105 651-221-0505 651-221-0404 (fax) www.novelusa.com

Booth #13

Noraxon Booth #23 13430 N Scottsdale Rd #104 Scottsdale, AR 480-443-3413 480-443-4327 (fax) www.noraxon.com

Northern Digital Booth #27 103 Randall Drive Waterloo, On, CA N2V 1C5 519-884-5142 519-884-5184 (fax) 877-634-6340 www.ndigital.com

Vicon 7388 S. Reserve Pkwy, Suite 901 Centennial, CO 303-799-8686 303-799 -8690 (fax) www.vicon.com

Exhibitor Booth Layout



20 EXHIBIT TABLES



Key to Abstracts

$$\begin{split} & \text{KS} = \text{Keynote Session} \\ & \text{FS} = \text{Featured Symposia} \\ & \text{Concurrent Oral and Poster Sessions} \\ & \text{First character denotes day of presentation} \\ & \text{S} = \text{Sunday, July 15} \\ & \text{M} = \text{Monday, July 16} \\ & \text{T} = \text{Tuesday, July 16} \\ & \text{T} = \text{Tuesday, July 17} \\ & \text{W} = \text{Wednesday, July 18} \\ & \text{Second character denotes session} \\ & \text{O} = \text{Oral} \\ & \text{P} = \text{Poster} \\ & \text{Number denotes order of presentation (for oral) or board number (for poster)} \end{split}$$