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<td><strong>lunch</strong></td>
<td>Opening Reception [Adirondack]</td>
<td>Dinner cruise: Spirit of Ethan Allen</td>
<td>Waterfront Park for Conference Dinner/Student Awards</td>
<td>Cocktails at Waterfront Park</td>
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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 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 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 Researach 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
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

Force platform balance measures as predictors of risk for falling indoors and outdoors in community dwelling 63 to 76-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. Jennings3  
1 Bioengineering, University of Pittsburgh, Pittsburgh, PA, USA and 2 Psychology, 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  
1 Department of Neurology, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel, 2 Laboratory for Gait & Neurodynamics, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel, 3 Physical therapy department, Sackler School of Medicine, Tel-Aviv, Israel and 4 Division 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. Denis3, B. Daniel2, C. Pauline2 and C. Susan3  
1 École de réadaptation, Université de Montréal, Montréal, Québec, Canada, 2 Institut de réadaptation de Montréal, CRIR, Montréal, Québec, Canada and 3 Hôpital de réadaptation Lindsay, Montréal, Quebec, Canada

Tai Chi improves standing balance in people with chronic stroke  
S. Au-Yeung1, C. Hui-Chan2 and J. Tang3  
1 Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong, China, 2 Rehabilitation Sciences, The Hong Kong Polytechnic University, Hong Kong, China and 3 Rehabilitation 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  
1 VA Brain Rehabilitation Research Center, Malcolm Randall VA Medical Center, Gainesville, FL, USA, 2 Physical Therapy, University of Florida, Gainesville, FL, USA, 3 Rehabilitation Sciences Doctoral Program, University of Florida, Gainesville, FL, USA and 4 Mechanical 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  
1 Institute of Neurology of RAMS, Moscow, Russian Federation and 2 Institute of Higher Nervous Activity & Neurophysiology, Moscow, Russian Federation

Mechanical work in hemiparetic gait  
A.C. Christie1, J.J. Eng2 and M. Donelan3  
1 School of Kinesiology, Simon Fraser University, Burnaby, BC, Canada and 2 School of Rehabilitation Sciences, UBC, Vancouver, BC, Canada
Inappropriate flexor synergies influence walking mechanics that reduce paretic propulsion in persons with post-stroke hemiparesis

C.L. Peterson¹, R.R. Neptune¹ and S.A. Kautz²

¹Department of Mechanical Engineering, The University of Texas at Austin, Austin, TX, USA and ²Brain Rehabilitation Research Center, Malcolm Randall VA Medical Center, Gainesville, FL, USA

12–1 pm Buffet Lunch
[Adirondack Ballroom]
1–2:30 pm Poster viewing (presenting author will be at poster during this time)
• Aging 1
• Biomechanics 1
• Cognitive Influences on Posture and Locomotion
• Vestibular
• Assistive Technologies
[Mezzanine and Vermont Rooms]
2:30–2:45 pm Break; visit exhibitors
[Montpelier Room]
2:45–4:30 pm Featured Symposia
“Functional imaging of axial motor control” (FS-2)
Moderators: Bastiaan R. Bloem, MD, PhD, Nijmegen Medical Center, Radboud University, Nijmegen, The Netherlands
Keith J. Nagle, MD, Director of Neurophysiology Lab, Fletcher Allen Health Care, Burlington, VT, USA
Speakers: Ivan Toni, PhD, FC Donders Center for Cognitive Neuroimaging, Radboud University, Nijmegen, 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
(Mozart Concert and Dressage Exhibition)

MONDAY, JULY 16, 2007
7–8 am Yoga at waterfront
[Lake Champlain Room – Wyndham Hotel, if weather is inclement]
8:30–9:30 am Keynote Speaker (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 pm Special Tribute to Dr. Aftab Patla
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 Anthropometrics”
Speaker: David Winter, PhD, Professor Emeritus, University of Waterloo, Waterloo, ON, Canada

[Lake Champlain Room]
Take away lunch
[Adirondack Ballroom]

Afternoon free 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. Burgney4
  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 Exercise 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. Kün1, 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

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. Horak, J.V. Jacobs, J. Lou and J. Kraakevik

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. Tagliabue, G. Ferrigno and F. Horak

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. Schieppati, A.M. De Nunzio and A. Nardone

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. Muller, G.M. Constantine, R.Y. Moore and N.I. Bohnen

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. Solomon, E. Grace and K. Robinson

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
12–2 pm  ISPGR General Assembly Meeting Lunch
   [Adirondack Ballroom]
2–3:45 pm  Featured symposia (FS-3)
   “Understanding the bilateral coordination of walking: impact on gait disturbances”
   Moderators:  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]
4–6 pm  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  Cocktails at the Waterfront Park (cash bar)
7–11 pm  Waterfront Park for Conference Dinner/Student Awards

WEDNESDAY, JULY 18, 2007
7–8 am  Yoga at waterfront
   [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”
   Tamar Weiss, PhD, OT, Professor, University of Haifa, Israel
   [Adirondack Ballroom]
9:30–10 am  Break; visit exhibitors
   [Montpelier Room]
10–11:45 am  Featured symposia (FS-4)
   “Attentional Mechanisms in Balance Control”
   Moderators:  Ann Shumway-Cook, PhD, PT, Professor, University of Washington,
   Seattle, WA, USA
   Normand Teasdalen, PhD, Professor, University of Laval,
   Ste-Foy, QC, Canada
   Speakers:  Brian Maki, PhD, PEng, Professor, University of Toronto,
   Toronto, ON, Canada
   Mark Redfern, PhD, Professor, University of Pittsburgh,
   Pittsburgh, PA, USA
   Marjorie Woollacott, PhD, Professor, University of Oregon,
   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
Directional tuning of neck muscle force produced by linear vestibulocolllic 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 Menière’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
## Exhibitors

<table>
<thead>
<tr>
<th>Company</th>
<th>Booth #</th>
<th>Address</th>
<th>Phone</th>
<th>Fax Number</th>
<th>Website</th>
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<tbody>
<tr>
<td>AMTI</td>
<td>25</td>
<td>176 Waltham Street, Watertown, MA 02472, USA</td>
<td>617-926-6700</td>
<td>617-926-5045 (fax)</td>
<td><a href="http://www.amti.com">www.amti.com</a></td>
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<tr>
<td>Bertec Corp</td>
<td>17</td>
<td>6171 Huntley Road, Suite J, Columbus, OH</td>
<td>614-430-5421 ext 221</td>
<td>614-439-5425 (fax)</td>
<td><a href="http://www.Bertec.com">www.Bertec.com</a></td>
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<tr>
<td>Clevemed</td>
<td>24</td>
<td>4415 Euclid Avenue, Cleveland, OH</td>
<td>216-619-5918</td>
<td>216-791-6739 (fax)</td>
<td><a href="http://www.clevemed.com">www.clevemed.com</a></td>
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<tr>
<td>CodaMotion</td>
<td>18</td>
<td>Unit 2, Victoria Mills, Fowke Street, Rothley, Leicestershire, LE7 7PJ, United Kingdom</td>
<td>+44 (0)116 230 1060</td>
<td>+44 (0)116 230 1857 (fax)</td>
<td><a href="http://www.codamotion.com">www.codamotion.com</a></td>
</tr>
<tr>
<td>Delsys</td>
<td>16</td>
<td>PO Box 15734, Boston, MA 02215</td>
<td>617-236-0599</td>
<td>617-236-0549 (fax)</td>
<td><a href="http://www.delsys.com">www.delsys.com</a></td>
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<tr>
<td>GaitRite – CIR Systems</td>
<td>12</td>
<td>60 Garlor Drive, Havertown, PA USA</td>
<td>610-449-4879</td>
<td>610-853-2925 (fax)</td>
<td><a href="http://www.gaitrite.com">www.gaitrite.com</a></td>
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<tr>
<td>Innovision Systems</td>
<td>15</td>
<td>3717 Peters Rd., Columbia, MI 48421-9304</td>
<td>810-793-5530</td>
<td>810-793-1714 (fax)</td>
<td><a href="http://www.innovision-systems.com">www.innovision-systems.com</a></td>
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<tr>
<td>Kistler Instrument Corp</td>
<td>11</td>
<td>75 John Glenn Drive, Amherst, NY 14228</td>
<td>716-691-5100</td>
<td>716-691-5226 (fax)</td>
<td><a href="http://www.kistler.com">www.kistler.com</a></td>
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<tr>
<td>Micromedical Technologies</td>
<td>19</td>
<td>10 Kemp Drive, Chatham, ILL 62629</td>
<td>217-483-2122</td>
<td>217-483-4533 (fax)</td>
<td><a href="http://www.micromedical.com">www.micromedical.com</a></td>
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<tr>
<td>Microstrain</td>
<td>28</td>
<td>310 Hurricane Lane, Suite 4, Williston, VT</td>
<td>802-862-6629</td>
<td>802-863-4093 (fax)</td>
<td><a href="http://www.microstrain.com">www.microstrain.com</a></td>
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<tr>
<td>Motion Analysis</td>
<td>21</td>
<td>3617 Westwind Blvd, Santa Rosa, CA 95403</td>
<td>707-579-6500</td>
<td>707-526-0629 (fax)</td>
<td><a href="http://www.motionanalysis.com">www.motionanalysis.com</a></td>
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Neurocom Booth #26
9570 SE Lawnfield Road
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503-653-2144
503-653-1991 (fax)
800-767-6744
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Noraxon Booth #23
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651-221-0505
651-221-0404 (fax)
www.novelusa.com

Vicon Booth #13
7388 S. Reserve Pkwy, Suite 901
Centennial, CO
303-799-8686
303-799-8690 (fax)
www.vicon.com
Exhibitor Booth Layout

Adirondack Prefunction

Adirondack A  Adirondack B & C  Adirondack D

Coffee Station  9  8  7  6

North Prefunction

Montpelier A  Montpelier B  Montpelier C

20 EXHIBIT TABLES

Montpelier

Montpelier C  Montpelier B  Montpelier A

COFFEE AND TEA BREAK
Key to Abstracts

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