

June 15 - 16, 2017 | MaRS Centre, 101 College Street, Toronto

Thursday, June 15, 2017

7:30am – 8:45am	Registration and Breakfast
8:45am – 9:00am	Opening Welcome, Dr. Geoff Fernie , Institute Director of Research, Toronto Rehabilitation Institute-UHN
9:00am – 10:00am	 Panel Session 1: Demographic Risk Factors of Falls Daniel Martel, University of Waterloo - A novel probabilistic modeling approach using a factor-of-risk framework to predict population level hip fracture risk in Canadian older adults Steven Pretty, University of Waterloo - Beyond bone strength: skeletal geometry influence pressure distribution over the hip during lateral falls Nadia Afrin, Kuopio Musculoskeletal Research Unit, University of Eastern Finland - Occurrence and risk of slip and nonslip falls related to multimorbidity - the 20 years follow-up of OSTPRE women from menopause to old age Kurt Beschorner, University of Pittsburgh - Functional gait assessment score predicts individual sensitivity to multifocal lens during stair ascent
10:00am –	
10:15am	Morning Coffee & Networking Break
10:15am – 11:15am	 Panel Session 2: Characterizing Falls in Public Environments Mina Nouredanesh, University of Waterloo - Machine learning-based detections of compensatory balance responses and environmental fall risks using wearable sensors
	Boyi Hu, Liberty Mutual Research Institute for Safety and Department of Environmental Health, Harvard T.H. Chan School of Public Health - Applying deep learning in characterizing walking surfaces
	 Jake Pauls, Jake Pauls Consulting Services - Anatomy of a trip and fall resulting in injury
	Carl Strautins, Safe Environments - Findings from slip, trip and fall public liability audits of Australian shopping centres
	David Watterson, Mountville Mills, Inc Entranceway floor mats prevent accidents before they happen
11:15am - 12:15pm	 Panel Session 3: Current Issues in Tribometer Use and Validity Gunter Siegmund, MEA Forensic Engineers & Scientists, University of British Columbia - Introduction: Current walkway tribometer standards and



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	their use
	Mark Blanchette, Semper Scientific, University of Southern California - The relationship between tribometer measurements and human ambulation
	Katelyn Simpson, Tile Council of North America - Development of tribometer standards from German ramp studies
	Bradley Rutledge, MEA Forensic Engineers & Scientists - Effect of contaminant film thickness on tribometer measurements
	Benjamin S. Elkin, MEA Forensic Engineers & Scientists - Precision and repeatability in tribometer calibration and validation
	 Jim Flynn, J2 Engineering - Tribometers in the field: Experience from a forensic expert
12:15pm – 1:15pm	Lunch
·	 Panel Session 4: Preventing Falls in Winter Chantal Gauvin, Institut de recherché Robert-Sauvé en santé et en sécurité du travail - Slips, Trips and Falls Among Quebec Workers and Specific Risk Factors for Police Officers
1:15pm – 2:15pm	Stephanie Gower, Toronto Public Health - Wintertime Slips and Falls in Toronto: Implications for Healthy Public Policy
	Bill Ells, Vibram USA - The effects of environmental and temperature changes on soling materials, in relationship to slip resistance and traction
	 Peter Seibert, Kinesik Engineered Products - Design tactile warning tiles and heated pavement for winter
	Yue Li, Toronto Rehabilitation Institute - RateMyTreads
2:15pm – 3:15pm	Panel Session 5: Assessing Environmental Risk of Slips and Falls • Carl Strautins, Safe Environments - Review of the Australian interlaboratory profiency testing scheme
	Alison Novak, Toronto Rehabilitation Institute – Evaluating sidewalks
	 Randy Atlas, Atlas Safety & Security Design Inc Slips, Trips and Falls: Bad Design or Careless Behaviour?
3:15pm –	Afternoon Coffee & Networking Break



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3:30pm	
3:30pm - 4:30pm	 Panel Session 6: Preventing Falls in Bathrooms and Other Wet Environments Alison Novak, Toronto Rehabilitation Institute – Grab bars to prevent falls in bathrooms Jake Pauls, Jake Pauls Consulting Services - Ramp testing to measure slip resistance effectiveness of wet terry cloth towels in bathtubs used for showers Chris Johnson, Altro - Designing slip resistance solutions for wet environments in healthcare Richard Bowman, Intertile Research Pty Ltd What level of slip resistance is required in residential bathrooms, where and how does this accord with popular expectations?
4:30pm – 6:00pm	Tours & Interactive Demos, Challenging Environments Assessment Laboratory (2-3 walk from the conference venue)
6:45pm	Dinner at CN tower 360 restaurant (additional ticket required)

Friday June 16, 2017

8:00am – 9:00am	Breakfast
9:00am – 10:00am	Panel Session 7: Considerations of Flooring, Surfaces, and Footwear in Fall Prevention • Taylor Jones, University of Pittsburgh - Impact of slip resistant shoe outsole parameters on available coefficient of friction
	 Richard Bowman, Intertile Research Pty Ltd Transition step slipping responses to perceived floor surface characteristics in a virtual reality environment
	Carl Strautins, Safe Environments - Development of clinical based evidence in assessing the risk of slip and falls
	Takeshi Yamaguchi, Tohoku University - Shoe sole design for high slip resistance on powder-contaminated floor surface
	Philippe Dixon, Harvard T.H. Chan School of Public Health - Dynamic stability of gait is reduced for young and older adults on an uneven brick walkway



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	Taylor Winberg – Reactive balance control: the effect of safety floors
10:00am – 10:15am	Morning Coffee & Networking Break
10:15am – 11:15am	 Panel Session 8: Innovations in the Management of Falls in Advanced Dementia Meghan Marcil, Toronto Rehabilitation Institute – Measuring impulsivity as a predictor of falls in patients with advanced dementia Elham Dolatabadi, Toronto Rehabilitation Institute – Ambient gait monitoring technology to predict fall risk in dementia Karen Van Ooteghem, Toronto Rehabilitation Institute – Mobility staging in advanced dementia: Scoping the literature for validated measures of mobility in dementia populations
11:15am - 12:15pm	 Panel Session 9: Preventing Falls in the Workplace Akihiro Ohnishi, National Institute of Occupational Safety and Health - Analysis of occupational accidents related to the use of tail lifts in Japan Bertrand Galy, Institut de recherche Robert Sauvé en santé et en sécurité du travail - Quick design of horizontal lifelines considering anchorage flexibility Andre Lan, Institut de recherche Robert Sauvé en santé et en sécurité du travail - Evaluation of a horizontal lifeline system and onsite braced trusses as its' host structure during roof installation Xiuwen Sue Dong, The Center for Construction Research and Training, United States - Surveillance and Prevention of Fall Injuries in the U.S. Construction Industry Zdenek Hejzlar, Engineering Systems Inc Reducing the Risk of Slip and Fall Accidents on Cruise Ships
12:15pm – 1:15pm	Lunch
1:15pm – 2:15pm	Panel Session 10: Pushing the New Boundaries of Slip and Fall Investigations • Greg Prentice, Advantage Forensics Inc Pilot Results from Comparative COF Testing of Silastic Test Sensors



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	 Yue Li, Toronto Rehabilitation Institute - iDAPT Barefoot Friction Research for Upcoming ANSI B101.4 Barefoot Standard Greg Cohen, SlipDoctors - Benefits and Challenges of the BOT3000e, the GS1, the ASM, and other Tribometers Jason Young, Advantage Forensics Inc and Dave Collette, Substratum Group - Testifying on Slip & Fall Cases in the US and Canada: Tips & Tricks
2:15pm – 2:45pm	Panel Session 11: Updates from the UK Slip Resistance Group • Steve Thorpe, The United Kingdom Slip Resistance Group
2:45pm - 3:00pm	Afternoon Coffee & Networking Break
3:00pm – 4:00pm	 Panel Session 12: Fall Simulation to Improve Safety Philippa Gosine, Toronto Rehabilitation Institute and University of Toronto - Fall simulation to inform environmental design Tyler Weaver, University of Waterloo - Balance recovery after a simulated trip: predictors of landing phase control in young and older adults Carolyn Duncan, Virginia Tech - On shaky ground: Using simulation to prevent workplace falls Iris Levine, University of Waterloo - Distribution of loads at the hip during lateral falls in human volunteers: implications for hip fracture prediction and protective equipment design Andrew Laing, University of Waterloo - High energy falls – simulations with drop towers and mathematical models
4:00pm – 4:15pm	Closing remarks, Richard Bowman , Chair International Ergonomics Association Technical Committee on Slips, Trips, and Falls