

Podium Session 1

Thursday May 21 (8:45-9:45AM)

8:45 AM	8:55 AM	Ryan Chhiba McMaster University	Effects of Work Organization and Demand on Upper Limb Motor Variability
8:55 AM	9:05 AM	Chris Vellucci Brock University	A Deep Learning Pipeline to Extract Clinical Gait Metrics from a Single Camera
9:05 AM	9:15 AM	Bianca Simone University of Waterloo	Predictive Musculoskeletal Simulation of Explosive Movements
9:15 AM	9:25 AM	Emilie Kuepper University of Ottawa	Gait Phenotyping in MS Using Smart Insoles
9:25 AM	9:35 AM	Madalyn Richards Western University	Development of An Experimental Framework for Designing Virtual Knee Ligament Models
9:35 AM	9:45 AM	Adeline Leddy Wilfrid Laurier University	Impact Loading Negatively Affects the Annulus Fibrosus



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Podium Session 2

Thursday May 21 (10:00-11:00AM)

10:00 AM	10:10 AM	Etienne Joulin Western University	Altered Muscle Synergies in Cam Fai
10:10 AM	10:20 AM	Claudia Smith University of Guelph	The Design of a Novel, Haptically-Accurate Physical Canine Epidural Simulator
10:20 AM	10:30 AM	Iwi Eghobamien McMaster University	Ring Finger Fatigue on Finger Independence
10:30 AM	10:40 AM	Emilia Logan Queen's University	Muscle Forces and Joint Loading in Unilateral Transtibial Amputees During Step-Up Task
10:40 AM	10:50 AM	Johannes Eichwalder University of Waterloo	Semi-Automated Bone Segmentation
10:50 AM	11:00 AM	Cinthuja Pathmanathan University of Ottawa	Interlimb Symmetry Patterns and Sex-Specific Changes Under Running-Related Fatigue Among Male and Female Endurance Runners



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Podium Session 3

Thursday May 21 (11:15AM-12:15PM)

11:15 AM	11:25 AM	Claudia Graham University of Waterloo	The Effect of Turbans on Biomechanical Effectiveness of Industrial Headwear
11:25 AM	11:35 AM	Luka Zigomanis University Health Network	Phase–Amplitude Coupling as a Measure of Corticomuscular Connectivity
11:35 AM	11:45 AM	Daniel Sheffield York University	Does QL Asymmetry Impact Vertical Jump Height in Athletes?
11:45 AM	11:55 AM	Katherine Wiebe Carleton University	Quantifiable Metrics of Saccadic Eye-Movement Improve with Time in Concussed Subjects
11:55 AM	12:05 PM	Sepideh Lashkari Queen's University	Soleus Stretch Reflexes Change with Center of Pressure and Its Velocity During Standing
12:05 PM	12:15 PM	Nolan Ford Ontario Tech University	Comparing a Wrist-Support Gaming Mouse to a Traditional Mouse



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Podium Session 4

Thursday May 21 (1:15-2:15PM)

1:15 PM	1:25 PM	Harry Battersby Western University	Task-Dependent Redistribution of Sagittal Plane Joint Contributions Following ACL Reconstruction
1:25 PM	1:35 PM	Patrick Crowley Wilfrid Laurier University	Effect of footwear and Parkinson's on balance during gait termination
1:35 PM	1:45 PM	Eric Ginzburg York University	Shoulder Morphology and Mechanics in Athletes
1:45 PM	1:55 PM	Asal Rashidimalekshah Toronto Metropolitan University	Prevalence of MSDS Among Baristas and Their Association with Ergonomic Risks Based on TLV for HAL and REBA Evaluations
1:55 PM	2:05 PM	Tiana Wertelecky Queen's University	Energy-Incentivized Changes in Gait Symmetry with Exoskeletons
2:05 PM	2:15 PM	Jessa Davidson University of Waterloo	Intervertebral Disc Properties Following Simulated Prolonged Sitting



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Podium Session 5

Friday May 22 (8:30-9:30AM)

8:30 AM	8:40 AM	Isabella Shih Queen's University	Preferred Running Speed: Minimizing Cost and Maintaining Intensity?
8:40 AM	8:50 AM	Silvia Rio University of Brescia Brock University	Compartment-Dependent Rate Coding of Deltoid Motor Units Across One and Two Degrees-Of-Freedom Movements
8:50 AM	9:00 AM	Justin Davidson University of Waterloo	Beyond Force Plates
9:00 AM	9:10 AM	Emma Conway Western University	The Role of Trunk Control in the Development of Knee Overuse Injuries
9:10 AM	9:20 AM	Sarah Doiron University of Windsor	Strength Symmetry Predictors Following ACL Reconstruction
9:20 AM	9:30 AM	Tushar Sharma University of Guelph	Titles Take Too Much Effort: Location Dependent Effects of Footsole Stimulation on Sense of Effort During Plantar Flexion



Podium Session 6

Friday May 22 (9:40-10:40AM)

9:40 AM	9:50 AM	Ian Doctor Brock University	Assessing the Effect of Inter-Athlete Spatiotemporal Coordination on Pairs Rowing Performance Times
9:50 AM	10:00 AM	Riley Starr Western University	Quadriceps Strength Does Not Influence the Association Between Joint Loading and Cartilage Thickness 10 Years After ACL Reconstruction
10:00 AM	10:10 AM	Isabela Fleguel University of Guelph	Spine Muscle Fatigue Measures
10:10 AM	10:20 AM	Paige Yoshida Carleton University	Monitoring Exhale and Lung Volume in Divers Using Electrical Impedance Tomography
10:20 AM	10:30 AM	Sarah Hallman University of Waterloo	Gap-Filling Marker Trajectories During Squatting
10:30 AM	10:40 AM	Gillian Slade Ontario Tech University	Effect of Overhead Cycle Time on Shoulder Fatigue



Podium Session 7

Friday May 22 (10:50-11:50AM)

10:50 AM	11:00 AM	Aidan Armitage University of Waterloo	Investigating the Influence of Upper Extremity Kinematics on Dual Target Fastball Command in Elite Level Baseball Pitchers
11:00 AM	11:10 AM	Avery Marshall Lakehead University	Nature of Unilateral Force Attenuation and Production in Elite Youth Dancers
11:10 AM	11:20 AM	Desmond Brent-Hurst HAS-Motion	Assessing Characteristics of Representative Signal Methods
11:20 AM	11:30 AM	Cameron Lang Brock University	Office Ergonomics in Augmented Reality
11:30 AM	11:40 AM	Laura Vancer Western University	Understanding the Effects of Malrotation on the Lateral Elbow Radiograph to Improve Fracture Detection
11:40 AM	11:50 AM	Aryan Sadghian Western University	Validity of a Smartphone Motion Capture Rep Counter

