

**OBC 2023**  
**MAY 9-11, 2023**  
**PODIUM PRESENTATION SCHEDULE**

<b>Podium Session 1</b>		
Wed May 10		
8:30A-9:40A		
<b>CHAIRS &amp; AFFILIATIONS:</b>		
<b>Lia Tennant - University of Waterloo &amp; Thomas Hoshizaki - University of Waterloo</b>		
8:30-8:40	Carson Brewer McMaster University	Estimation Of Injury Limits At Vulnerable Impact Locations Along The Forearm Via THUMS V6.1 Finite Element Model
8:40-8:50	Brye McMorran University of Guelph	Vestibular Influence On Compensatory Stepping
8:50-9:00	Blake Miller University of Ottawa	Quadriceps Activation Of Female Adolescents During Isokinetic Testing Pre And Post Acl Surgery
9:00-9:10	Sophia Ngan University of Waterloo	Smoothed Particle Hydrodynamics Implementation To Improve Fracture Response Of A Vertebra Under Compression
9:10-9:20	Joshua Taylor University of Toronto	Markerless Motion Capture Validation With A Knee Brace
9:20-9:30	Chimerem Amiaka Brock University	The Effects Of Vibration On Postural Responses
9:30-9:40	Daphne Ho University of Waterloo	Low Back Loading During PSW Tasks

<b>Podium Session 2</b> Wed May 10 9:50A-11:00A <b>CHAIRS &amp; AFFILIATIONS:</b> <b>Matheus Correia - University of Waterloo &amp; Calaina Brooke - University of Toronto</b>		
9:50-10:00	Sam Vasilounis York University	Trunk Muscle Responses To Dynamic Movements
10:00-10:10	Erinn McCreath-Frangakis Canadian Memorial Chiropractic College	Evaluating Test-Retest Reliability Of The Flexion-Relaxation Ratio Within And Between Days
10:10-10:20	Kyra Wanuch University of Waterloo	Biomechanical Characterization Of Pelvic Floor Contraction Using Novel Ultrasound Imaging
10:20-10:30	Elizabeth Norman Western	A Kinematic Analysis Of Wrist And Carpal Function Utilizing 4D CT Technology: A Novel Perspective
10:30-10:40	Regan Sheppard University of Guelph	Emg Metrics As Predictors Of Subjective Knee Exercise Quality
10:40-10:50	Michael Watson University of Waterloo	Mechanisms Of Endplate Fracture Lesions And Schmorl's Node Injuries During Acute Loading
10:50-11:00	Matthew Ruder McMaster University	Comparisons Between In-Lab And Out-Of-Lab Free-Living Derived Gait Parameters

<b>Podium Session 3</b> Wed May 10 11:15A-12:25P <b>CHAIRS &amp; AFFILIATIONS:</b> <b>Justin Davidson - University of Waterloo &amp; Emma Donnelly - University of Western Ontario</b>		
11:15-11:25	Michael Watterworth Ontario Tech University	Equations For Estimating Upper-Limb Exoskeleton Support
11:25-11:35	Chris Vellucci Brock University	A Need For Speed: Objectively Identifying Kinematic Strategies Associated With Faster Sprint Velocities
11:35-11:45	Denise Balogh Nipissing University	Carpal Tunnel Dynamics During Pinch Gripping
11:45-11:55	Tanvi Seeburrn University of Waterloo	Measuring Volunteer Head Kinematics Using Instrumented Mouthguards
11:55-12:05	Matthew Russell York University	Shoulder Muscle Co-Activation Changes Following Fatigue
12:05-12:15	Wayne Allison University of Western Ontario	Evaluating The Neuroanatomy Affected In Concussion
12:15-12:25	Erika Howe University of Guelph	Foot Loading Impacts Skin Sensitivity

<b>Podium Session 4</b> Wed May 10 1:30P-2:40P <b>CHAIRS &amp; AFFILIATIONS:</b> <b>Jessa Buchman-Pearle - University of Waterloo &amp; Jarrett Norrie - Brock University</b>		
1:30-1:40	Olena Klahsen University Ottawa	Body Position Impacts Both Ultrasound Imaging And Intravaginal Dynamometry Measures Of Female Pelvic Floor Muscle Function
1:40-1:50	Jacklyn Kurt University of Waterloo	Effects Of A Passive Upper Extremity Exoskeleton On Shoulder Fatigue During A Simulated Automotive Overhead Work Task
1:50-2:00	Lauren Straatman Western	The Relationship Between Kinematic Joint Contact And Subchondral Bone Mineral Density
2:00-2:10	Anil Palanisamy McMaster University	Association Of On-Court Impact Load With Rating Of Percived Exertion In Basketball
2:10-2:20	Benjamin Kissack University of Guelph	Visual Cue Complexity On Foot Placement Accuracy In A Targeted Stepping Task
2:20-2:30	Alyssa Tondat University of Waterloo	Soft Tissue Thickness And Composition Surrounding The Proximal Femur
2:30-2:40	Noah Chow Wilfrid Laurier University	Examining Adjacent Disc Disease

<b>Podium Session 5</b> Wed May 10 2:50P-4:00P <b>CHAIRS &amp; AFFILIATIONS:</b> <b>James Hunter - University of Western Ontario &amp; Pratham Singh - University of Toronto</b>		
1:50-2:00	Fergus Lam University of Waterloo	Dependency Of Shoulder Muscle Activation Patterns On Simulated Labral Conditions During Isometric And Functional Tasks
2:00-2:10	Daniel Cousins Brock University	Hand Exoskeleton And Forearm Muscle Activity
2:10-2:20	Stephen Boulanger York University	Subacromial Space Measures Using Ultrasound And MRI
2:20-2:30	Claudia Town University of Windsor	Effect Of Football Shoulder Pads On Reach Distance.
2:30-2:40	Kimberly Peckett University of Waterloo	Frontal Plane Knee Loading During Common Lifting Techniques
2:40-2:50	Marija Bakoc University of Guelph	Quantifying Knee Brace Perturbation Responses During Gait
2:50-3:00	Dominique Cava University of Ottawa	The Effect Of Adjusting Frontal Plane Knee Alignment When Scaling Patient-Specific Neuromusculoskeletal Models

<b>Podium Session 6</b> Thurs May 11 9:00A-10:10A <b>CHAIRS &amp; AFFILIATIONS:</b> <b>Prasannaah Hadagali - University of Waterloo &amp; Daniel Armstrong - University of Waterloo</b>		
9:00-9:10	Mohammad Mohammad Queen's University	Estimating Energy Expenditure Using Wearable Sensors During Indoor And Outdoor Locomotion
9:10-9:20	Kevin Kos via Dan Mulla McMaster University	Upper Body Joint Moment Trade-Offs
9:20-9:30	Daniel Genaro University of Guelph	Optimizing Lower-Limb Sensory Substitution
9:30-9:40	Aurora Battis Brock University	Assessing The Acute Effects Of Wearable Sensor Derived Auditory Biofeedback On Gross Lumbar Proprioception
9:40-9:50	Steven Pretty University of Waterloo	Force Transmission During Lateral Falls Is Dependent On Hip Protectors And Soft Tissue Thickness
9:50-10:00	Jakub Targosinski Western University	An In Vitro Study Of Glenoid Implant Peripheral Peg Interface Mechanics Under Simulated Glenoid Lift-Off Loading
10:00-10:10	Ryan Foley Ontario Tech University	Modeling The Effect Of Unique Force-Time Histories On Predicted Muscle Fatigue

<b>Podium Session 7</b> Wed May 10 10:30A-11:40A <b>CHAIRS &amp; AFFILIATIONS:</b> <b>Brendan Pinto - University of Waterloo &amp; Jenna Pitman – University of Guelph</b>		
10:30-10:40	Cathrine Feier University of Guelph	Visual Cues During Sit-To-Stand
10:40-10:50	Jessica Wenghofer University of Ottawa	Markerless Spine Movement Assessment
10:50-11:00	Margaret Harington University of Toronto	Hip Musculoskeletal Model Validation
11:00-11:10	Garrick Forman Brock University	Forearm Muscle Fatigue And Computer Mouse Performance
11:10-11:20	Monica Malek McMaster University	Optoelectronic Motion Capture Protocol For In-Clinic Orthopaedic Gait Analysis
11:20-11:30	Emily Lefebvre York University	Subcutaneous Tissue, Muscle Quality, And EMG
11:30-11:40	Jackie Zehr University of Waterloo	Compression Induced Microinjury Patterns In The Spinal Endplate