

PRE-CONFERENCE: CANADIAN BONE & JOINT YOUNG INVESTIGATOR FORUM

8:00-8:30 8:30-8:45 8:30-8:45 8:45-9:30 8:45-9	THURSDAY MAY	10, 2018	Location
8:30-8:45 8:45-9:30 Ryan J Frayne; Dalhousie University New Regulations For ket hockey Goaltender Equipment And Their Effects On Upper Body Range Of Motion 9:00 Geoffrey J Kerr; Western University New Regulations For ket hockey Goaltender Equipment And Their Effects On Upper Body Range Of Motion 9:15 Ryan J Frayne; Dalhousie University New Regulations For ket hockey Goaltender Equipment And Their Effects On Upper Body Range Of Motion 9:00 Geoffrey J Kerr; Western University Investigating the Role of Peroxisome Proliferator-Activated Receptor Detain Intervertebral Disc Health and Degeneration 9:45-10:30 Syed Jafri; University of Calgary Development of Thresholds for Assessing Fracture Risk Using HR-PQCT 9:30-9:45 Networking Break Health Sciences Activate 9:45-10:30 Young Investigator Oral Presentations: Session 2 Health Sciences Room 40 Harvi Hart; La Trobe University; The Effect of Wrist Position on Tendon Loads Following Pulley Sectioning and Operative Reconstruction Harvi Hart; La Trobe University; Australia Relation Of Step Rate To Worsening Of Patellofemoral And Tibiofemoral Joint Cartilage Damage In Women And Men- The MOST Study Akihiro Nakamura; University Health Network, University of Toronto Inhibition of microRNA-181a-5p Attenuates Osteoarthritis in Knee and Facet Joints 10:30-10:45 Networking Break MINDCODE® Workshop—A science-based performance system for planning, coordinating, and accelerating the achievement of goals and projects 12:45-1:30 Interactive Career-Building Workshop: Part 2 FIMS & Nursing Room 12:40 Brenda Nguyen (Ivey, Business School) Leading with Character Annual Bernier Lecture & Reception Health Sciences Room 40	8-00-8-30	Registration & Breakfact	Health Sciences
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Room 40			
	3:00-5:00	Annual Bernier Lecture & Reception	
Elise F. Morgan, Department of Mechanical Engineering, Boston University		Elise F. Morgan, Department of Mechanical Engineering, Boston University	
The Search for Better Predictors of Fracture Risk in the Spine		The Search for Better Predictors of Fracture Risk in the Spine	



HOSTED BY WESTERN UNIVERSITY'S BONE AND JOINT INSTITUTE IN COLLABORATION WITH THE CANADIAN MSK REHABILITAITON RESEARCH NETWORK

FRIDAY MAY 11, MORNING SESSI		Location
7:30	Conference Registration Opens	Health Sciences Lobby
7:30-8:45	Light Breakfast & Discussion Sessions: Trainee Networking Technology & Wearable Sensors Patient Engagement	Health Sciences Room 40 Room 236 Room 9
8:45-9:00	Welcome Address	
9:00-10:30	Plenary Session A: Basic Biological Advances in MSK Health Moderators: Anusha Ratneswaran, John Coderre	Health Sciences Room 40
9:00	Farshid Guilak, Department of Orthopaedic Surgery, Washington University Engineering New Biologic Therapies for Arthritis: From Synthetic Materials to Synthetic Biology	
9:45	Kurt Hankenson; University of Michigan: Discovering Novel Regulators of Osteoblastogenesis	
9:55	Helal Endisha; Krembil Research Institute: Microrna-34a: Role In The Development Of Osteoarthritis During Obesity	
10:05	Margaret Sun; Western University: Investigating The Role Of Retinoid X Receptor in Cartilage Development And Homeostasis	
10:15	Question Panel	FIMS & Nursing
10:30-11:00	Networking Break & Poster Viewing	Atrium
11:00-12:30 11:00	Plenary Session B: Innovations in Physical Sciences & Engineering Research Moderators: Emily Lalone, Stu McLaughlin	Health Sciences Room 40
11.00	Stephen Robinovitch, School of Engineering Science, Simon Fraser University	
	Beyond fall prevention: Strategies For Mitigating The Consequences Of Falls In Older Adults.	
11:45	Janet Ronsky; University of Calgary: Advances in In-Vivo Knee Joint Mechanics with Integrated Dynamic Imaging, MRI and Modeling Approaches	
11:55	Daniel Martel; University of Waterloo: Probabilistic Model Approaches for Evaluating the Clinical Effectiveness of Fall-Related Hip Fracture Interventions	
12:05	Charles Dion; Western University: Revision Total Knee Arthroplasty using a Novel 3D Printed Titanium Augment: A Biomechanical Cadaveric Study	
12:15	Question Panel	
12:00-1:30	BJI Research and Business Advisory Committee (RBAC) Annual Meeting (invitation only)	HS Room 9
12:30-1:30	Lunch & Poster Viewing	FIMS & Nursing Atrium



	CANADIAN BONE & SOINT CONTENENCE	1
RIDAY MAY 11, 20		Locatio
AFTERNOON SESSI L:30-2:00	Update from the Scientific Director of the Institute of Musculoskeletal Health & Arthritis	Health Science
1.30-2.00	opuate nom the scientific birector of the institute of Musculoskeletar realities Arthritis	Room 4
	Karim Khan, The Canadian Institutes of Health Research	
	IMHA: The Mission, Vision and Research Opportunities	
2:00-3:30	Plenary Session C: Improving MSK Health through Clinical, Community & Health Services Research	Health Science
	Moderators: Michael Hunt, Anne Lyddiatt	Room 4
2:00	Linda Li, Department of Physical Therapy, University of British Columbia	
	The Role of Digital Media in Bone and Joint Health	
2:45	Julie Richardson; McMaster University: Optimal Musculoskeletal Function and Activity: Ensuring Fidelity of Community-Based Exercise Programs	
2:55	Tara Kajaks; McMaster University, Toronto Rehab Institute: Caring for caregivers: A Characterization of Injuries Observed in Community-Based Personal Support Workers	
3:05	Simon Deslauriers; Université Laval: Waiting Time to Access Multidisciplinary Pain Treatment Facilities for Patients with Rheumatic Conditions in Quebec	
3:15	Question Panel	
3:30-4:00	Networking Break & Poster Viewing	FIMS & Nursir Atriu
1:00-5:30	Plenary Session D: Knowledge Translation: Commercialization & Publication	Health Science
	Moderators: Jackie Sadi, Dave O'Gorman	Room
4:00	Graham King, Western University From Design to Market: The Evolution of the Evolve	
4:30	Discussion Panel: How to Succeed in Publishing Your Research - Ask the Editors from a Range of MSK Journals	
5:30-5:45	Day 1 Wrap-Up	Health Scienc Room
5:30-6:30	Private Cocktail Hour for BJI Board and RBAC (invitation only)	Somerville Hou Michael's Gard
5:00-10:00	Cocktail Hour and Gala Banquet	Somerville Hou The Great H
7:30	Guest Speaker: Robert Buren	Somerville Hou
	From Paraplegia to the Podium: 9 Years of Finding a Way	The Great H



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SATURDAY MA MORNING SES			Location	
8:00	Conference Day 2 Opens			
	Registration Control of the Control			
8:30-10:00	Plenary Session E: Biomedical A	dvances in MSK Health	Health Sciences	
	Moderators: Kurt Hankens	on, Anne Lyddiatt	Room 40	
8:30	Frank Barry, REMEDI, National Centre for Biomedical Engineering Science,			
	National University of In	eland, Galway		
	MSC Therapy for Osteoarthritis: Status and Obstacles			
9:15	Jane Mitchell; University of Toronto: Effect of osteoblast G protein expression on bone development and strength			
9:25	Poulami Datta; Krembil Research Institute: Inhibition of Autotaxin attenuates High-Fat Diet-Induced or Surgically-Induced Acceleration of Osteoarthritis			
9:35	Lina Y. Abu Nada; McGill University: The Antidepressant, Sertraline, Hinders Bone Healing and Implant Osseointegration in Rats Tibiae			
9:45	Question Panel			
10:00-10:30	Networking Break & Poster Viewing			
10:30-12:00	Plenary Session F: MSK Research to Advance Lifelong Mobility			
	Moderators: Ron Zernicke, John Coderre			
10:30	Jean-Francois Esculier, Department of Physical Therapy, University of British Columbia			
	Patellofemoral Pain: Clinical management based on the latest research			
11:15	Janie Wilson; Dalhousie University: Joint Biomechanics after Total Knee Arthroplasty Surgery: Are We Missing the Target?			
11:25	Fabio Carlos Lucas de Oliveira; Université Laval: A Single-Blind Randomized Controlled Trial of Kinesiotaping for Rotator Cuff Tendinopathy			
11:35 I	Brooke E Patterson; La Trobe University, Melbourne, Australia: Changes in Cartilage Damage Between 1 & 5 Years Following Anterior Cruciate Ligament Reconstruction			
11:45	Jackie Whittaker; University of Alberta: Prevention of Osteoarthritis after Youth Sport-related Knee Injuries			
11:55	Question Panel			
12:10-1:30	Lunch & Poster Viewing	Canadian MSK Rehabilitation Research Network:		
		Annual Meeting & Update (12:30 pm)		
	FIMS & Nursing Atrium	Health Sciences Room 236		



SATURDAY M	•			Location
1:30-3:00				
1:50-5:00	Plenary Session G: Novel Wearable Technology Solutions for MSK Rehabilitation Moderators: Dave Walton, Cathie Hofstetter			Health Sciences Room 40
1:30	Laurent Bouyer, Department of Rehabilitation, Faculty of Medicine, Université Laval Development of Data Processing Algorithms for Portable Technologies to Measure Movement Quality and Muscle Fatigue			
2:15 2:25 2:35 2:45	Megan Fennema; Western University: Improving patient satisfaction post-Total Knee Replacement: New Insight Via Novel Wearable Sensor Metrics Yue Zhou; Western University: Development of the Circumduction Metric for Identification of Cervical Motion Impairment David M. Burns; University of Toronto: Shoulder Physiotherapy Exercise Recognition: Machine Learning the Inertial Signals from a Smartwatch Question Panel			
3:00-3:15	Networking Break			FIMS & Nursing Atrium
3:15-3:30	Award Presentation Health Scient Room Closing Remarks from the Bone & Joint Institute, Canadian MSK Rehab Research Network and Young Investigator Forum David Holdsworth; Scientific Director, Bone & Joint Institute			
3:30-5:00	Со	ncurrent Break-out Group Sessions		
	Wearable Technology: Interactive Priority Setting Workshop Hosted by the Canadian MSK Rehabilitation Research Network Health Sciences Room 236	Interactive Workshop: Using 3D analysis to understand gait modifications for the injured runner in a clinical setting Dr. Jean-Francois Esculier, University of British Columbia Fowler-Kennedy Sports Medicine Clinic	Round Table Discussion on Reger Dr. Frank Beier, Western Health Sciences Roo	University
3:30-7:00		Post Conference Networking Event		Middlesex College Grad Club



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The Roth McFarlane Hand and Upper Limb Centre is located at St. Joseph's Health Centre in London Ontario. The centre is the largest in Canada focusing on the care of upper limb disorders. Affiliated with Western University we are active in the education of medical students, residents, clinical fellows and visiting national and international surgeons. Our research if focused in four areas of the upper limb: Clinical Outcomes, Biomechanics, Surgical Mechatronics and Cell Biology.





Fowler Kennedy Sport Medicine Clinic

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Fowler Kennedy Sport Medicine Clinic

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