

Workshops Overview

Friday, 29th June



International Society of
Electrophysiology and Kinesiology
UNIVERSITY COLLEGE DUBLIN
JUNE 29th – JULY 2nd 2018

Morning Workshops

Workshop 1: Methods for estimating synaptic potentials in human muscular system

Organisers: Kemal S. Türker, Gizem Yilmaz, Gorkem Ozyurt, Betilay Topkara and B.Selen Senocak, Koç University School of Medicine, İstanbul, Turkey

9:30 - 12:30

Workshop 2: Extraction of information from high-density EMG: recent developments and perspectives

Organisers: Dario Farina Imperial College London Ales Holobar University of Maribor

Workshop 3: Wearable Technologies – Challenges & Advances

Organisers: Brian Caulfield University College Dublin

12:30 - 14:00

Lunch

Afternoon Workshops

Workshop 4: How good is my robot? The increasing importance of benchmarking in wearable robotics research

Organisers: Diego Torricelli, Jan Veneman, Jose Luis Pons Cajal Institute Spanish National Research Council

14:00 - 17:00

Workshop 5: Surface EMG alive – an update of the current lines of application in real life settings

Organisers: Catherine Disselhorst Klug, Aachan University and Karen Sogaard University of Southern Denmark

Workshop 6: Developing a subject-specific tri-dimensional model of human muscles, from experimental anatomical and physiological data

Organisers: Leonardo Gizzi, Oliver Röhrle, Ekin Altan, Okan Avci, Filiz Ates University of Stuttgart, Germany

18:30 - 20:00

Welcoming & Opening Reception

Programme Overview

Saturday, 30th June



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Time					
8:30	Keynote 1 Roger Enoka - Basmajian Award				
9:00	(8:30-9:30)				
9:30	Reflexes & Neural Pathways I	Symposium: High Density Surface EMG: A Non-Invasive Research Tool at the Transition to Clinical Applications	Symposium: Muscle Stiffness and Extensibility: How Do They Affect Muscle Function?	Rehabilitation Therapies and Technologies	Motor Control I - Muscle Synergies
10:00					
10:30					
11:00	Coffee & Poster Session				
11:30	(11:00-12:00)				
12:00	Knee Biomechanics and Rehabilitation I	Symposium :Why Are Muscles Weak After Stroke?	Back, Neck and Shoulder Pain I	Motor Control II	Gait & Posture I
12:30					
13:00	Lunch				
13:30	(13:00-14:00)				
14:00	Keynote 2 Todd Kuiken				
14:30	(14:00-15:00)				
15:00	Symposium :Multimodal Biomarkers of Motor Performance, Impairment and Recovery Derived from Physiological Measurements	Symposium : Biomechanical and Clinical Challenges in the Shoulder from the Applied Perspective	Knee biomechanics and Rehabilitation II	EMG Modeling and Processing I - Modelling	Motor Units
15:30					
16:00					
16:30	Coffee & Poster Session				
17:00	(16:30-17:30)				
17:30	Keynote 3: Apostolos P. Georgopoulos				
18:00	(17:30-18:30)				

Programme Overview

Sunday, 1st July



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Time					
8:30	Keynote 4 Cathy Stinear (8:30-9:30)				
9:00					
9:30	Symposium: EMG Signal Decomposition: Validation and Impact In Our Physiological Understanding of Neural Control of Movement	Reflexes & Neural Pathways II	Symposium: Ultrasound Elastography – What Are We Measuring in Muscle?	Sport Biomechanics	Clinical Neuromechanics
10:00					
10:30					
11:00	Coffee & Poster Session (11:0-12:00)				
11:30					
12:00	Symposium : Novel Approaches to Enhance Recovery After Central Nervous System Injury	Back, Neck and Shoulder Pain II	Motor Control III	Gait & Posture II	EMG Modeling and Processing II - Signal Analysis
12:30					
13:00	Lunch (13:00-14:00)				
13:30					
14:00	Keynote 5 Walter Herzog - Carlo De Luca memorial (14:00-15:00)				
14:30					
15:00	Fatigue I	Symposium : An Increased Reliance on Contralesional Cortico-reticulospinal Motor Pathways and Sensorimotor Impairments following a unilateral brain injury: Good or Bad?	Symposium : Neuromechanics of Joint Stability After Anterior Cruciate Ligament Reconstruction	Muscle and Force	
15:30					
16:00					
16:30	Coffee & Poster Session (16:30-17:30)				
17:00					
19:30	Conference Dinner in Guinness Storehouse (pick up at 7.30 for 8 pm start)				
20:00					
22:30					

Programme Overview

Monday, 2nd July



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Time					
8:30	Keynote 6 Peter Brown (8:30-9:30)				
9:00					
9:30	Symposium : Neuromechanical Adaptations After Training and Exercise	Symposium : New Insights into Trunk Control in Back Pain Through Novel Approaches	Fatigue II	Gait & Posture III	Myoelectric Control
10:00					
10:30					
11:00	Coffee & Poster Session (11:00-12:00)				
11:30					
12:00	Motor Control IV	Symposium : Insights into Cognitive Processes from Motor System Measurements	EMG Modeling and Processing III - Signal Analysis	Wearable Sensors & Accelerometry	Knee biomechanics and Rehabilitaiton III
12:30					
13:00	Lunch / ISEK General Assembly (13:00-14:00)				
13:30					
14:00	Keynote 7 Taija Finni (14:00-15:00)				
14:30					
15:00	Movement Disorders	Symposium :Moving Beyond the Physical:Addressing Musculoskeletal Injury Induced Neuroplasticity and Motor Control to Improve Patient-function	Symposium: Neuromechanics of LowerLimb Amputation and Prosthetic Gait	Sensors	Back, Neck and Shoulder Pain III - Shoulder and Neck
15:30					
16:00					
16:30	Coffee & Poster Session (16:30-17:30)				
17:00					
17:30	Award Ceremony				
18:00					