

A forum to foster the growing interest in scientific work at the intersection of Motor Control and Biomechanics.

SYMPOSIUM OF THE ISB WORKING GROUP IN MOTOR CONTROL MOTOR CONTROL IN BIOMECHANICS

TUESDAY 29 MAY 2018 | 9:00 AM TO 12:00 PM

2018 ANNUAL MEETING OF THE AMERICAN COLLEGE OF SPORTS MEDICINE

HYATT REGENCY MINNEAPOLIS • 1300 NICOLLET MALL, MINNEAPOLIS, MN 55403

ORGANIZERS: DR. PAOLA CONTESSA (USA) • DR. JOSEPH HAMILL (USA) • DR. WALTER HERZOG (CANADA) • DR. JIM RICHARDS (UK) • DR. IRENE DAVIS (USA)

INNOVATIVE TECHNIQUES TOWARDS A NEW APPROACH TO SPORTS AND EXERCISE

INVITED SPEAKERS



Dr. Darryl Thelen
*University of Wisconsin-Madison
(USA)*



Dr. João Paulo Vilas-Boas
*University of Porto
(Portugal)*



Dr. Angus Hunter
*University of Stirling
(UK)*



Dr. Ross Miller
*University of Maryland
(USA)*



Dr. Ezio Preatoni
*University of Bath
(UK)*



Dr. Jasper Reenalda
*Roessingh Research and Development
University of Twente
(Netherlands)*



Mr. Oladipo Eddo
*George Mason University
(USA)*

Who Should Attend: Researchers and students with an interest in Biomechanics and Motor Control should attend. Participants will have the opportunity to discover the latest developments at the intersection of these two fields and discuss with experienced investigators.

Registration and Fee: Participation is free for all ACSM attendees and breakfast will be served thanks to the generous support of the **De Luca Foundation**, MA. Register at: mcg.isbweb.org/registration.html



With the Support of the National Science Foundation (NSF): The symposium is supported by the Disability and Rehabilitation Engineering (DARE) program of NSF under Grant Number # 1821895. Any opinions, findings, and conclusions or recommendations expressed in this symposium do not necessarily reflect the views of the National Science Foundation.

NSF-SPONSORED STUDENT TRAVEL GRANTS

Ten travel awards will be offered to support the participation of students to the symposium. The awards consist of an amount of US \$ 500. **Application:** Guidelines and application procedures can be found at mcg.isbweb.org/award.html

Deadline for application : May 20th 2018

Award Notification: May 25th 2018

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PROGRAM

TUESDAY 29 MAY

9:00 AM - 12:00 PM	Innovative techniques towards a new approach to sports and exercise
9:00 AM – 9:05 AM	OPENING
9:05 AM – 9:30 AM	<u>A Noninvasive Sensor of Tendon Loading during Dynamic Movement</u> Dr. Darryl Thelen, University of Wisconsin-Madison, USA
9:30 AM – 09:55 AM	<u>Assessing and understanding forces in swimming</u> Dr. João Paulo Vilas-Boas, University of Porto, Portugal.
09:55 AM – 10:20 AM	<u>Movement, coordination and their variability in sports skills monitoring: where we are and what is missing</u> Dr. Ezio Preatoni, University of Bath, UK
10:20 AM – 10:45 AM	<u>Predictive models are most useful when they are wrong</u> Dr. Ross Miller, University of Maryland, USA
10:45 AM – 11:10 AM	<u>Neuromuscular control in clinical and athletic populations: science of past, present and future</u> Dr. Angus Hunter, University of Stirling, UK
11:10 AM – 11:25 AM	<u>A Novel Approach To Investigate Differences In Knee Mechanics After ACL Reconstruction Using Inertial Sensors</u> Dr. Jasper Reenalda, University of Twente, Netherlands
11:25 AM – 11:40 AM	<u>Effects of Gait Modification on Lower Extremity Sagittal Plane Biomechanics</u> Mr. Oladipo Eddo, George Mason University, USA
11:40 AM – 12:00 PM	PANEL DISCUSSION AND CLOSING



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of SPORTS MEDICINE

65TH ANNUAL MEETING ACSM 2018
TUESDAY 29 MAY 2018
MINNEAPOLIS, MINNESOTA

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