



Announcement

SEMINAR IN SPORT SCIENCES & ENGINEERING**Human Neuromechanics****October the 11th, 2018, 10:00–17:30****Aalborg University, Fredrik Bajers Vej 7, room E3-209**

The Sport Sciences Group and the AnyBody Research Group from AAU cordially invite you to take part in a seminar on Thursday, October 11, 2018. We have invited several external speakers, complemented by a list of local researchers, who will aim at linking biomechanics and motor control. We hope that this seminar catches the attention of students, colleagues, ranging from sport scientists to bioengineers as well as clinicians, and anyone who is interested in movement and its control.

Preliminary Program:

PhD Course/Workshop – Human Neuromechanics**MORNING SESSION**10:00 – 10:05 – ***Opening by Uwe Kersting/Anderson Oliveira***10:05 – 10:45 – ***Brainstem, the underdog of motor control?***

Jacques Duysens, PhD. – KU Leuven, Belgium

10:45 – 11:15 – ***Assessing brain plasticity and motor function in clinical settings***

Natalie Mrachacz-Kersting, PhD. – Aalborg University

*break*11:30 – 12:10 – ***Mediolateral foot placement for control of gait stability***

Jaap van Dieen, PhD. – VU Amsterdam, The Netherlands

12:10 – 12:40 – ***Understanding the neural control of movements through musculoskeletal modeling***

John Rasmussen, PhD. – Aalborg University

12:40 – 13:20 – Lunch

13:20 – 14:00 – Lab demonstration - Gtec

AFTERNOON SESSION14:00 – 14:40 – ***Skeletal muscle remodeling in response to distinct stimuli: from whole morphology to molecular mechanisms***

Martino Franchi, PhD. – Univ. of Zurich, Switzerland

14:40 – 15:10 – ***Investigating muscle mechanics towards performance improvements in sports***

Michael Voigt, PhD. – Aalborg University

Coffee break



15:25 – 16:05 – ***Detecting and decoding spinal motor neuron spike trains for understanding the neural control of movement***

Francesco Negro, PhD. – Univ. of Brescia, Italy

16:05 – 16:35 – ***Estimation of motor unit twitch properties and their implications for performance: insights from neuromuscular modeling***

Jakob L. Dideriksen, PhD. – Aalborg University

16:40 – 17:20 – Lab demonstration - Qualisys

17:20 – 17:30 – ***Final remarks by Uwe Kersting/Anderson Oliveira***

Please send a short registration e-mail to Kristine Knudsen: kknu@hst.aau.dk

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With best regards,



AALBORG UNIVERSITET

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The AnyBody Group