



MOTOR CONTROL 2016 CONFERENCE - FINAL PROGRAMME

Wednesday, 14th September

13.00 – 15.00 Registration / Accommodation

15.30 Opening ceremony

15.45 – 16.45 Plenary session I: bridging motor control and biomechanics I (Chair: Slobodan Jaric, Andrzej Wit)

15.45 – 16.15 **Mark L. Latash (Pennsylvania State University, USA):** Mechanisms of Unintentional Voluntary Movements

16.15 – 16.45 **Anatol Feldman (University of Montreal, Canada):** Spatial control of reflexes, posture and movement

16.45 – 17.15 *Coffee break*

17.15 – 18.15 Plenary session II: neural mechanism of movement (Chair: Klaus Blichke, Adam Zając)

17.15 – 17.45 **Mindy Levin (McGill University, Canada):** Spatial control of movement after central nervous system injury

17.45 – 18.15 **Gerald Loeb (University of Southern California, USA):** Useful Properties of Spinal Circuits for Learning and Performing Sensorimotor Tasks

20.00 *Gala Dinner*

Thursday, 15th September

9.00 – 11.00 Poster session / short presentations Ia and Ib (Chair: Bogdan Bacik, Teresa Zwierko)

11.00 – 11.30 *Coffee break*

11.30 – 13.00 Plenary session III: impaired motor control and rehabilitation (Chair: Mark Latash, Wiesław Osiński)

11.30 – 12.00 **John Rothwell (Institute of Neurology, UCL, England):** Improving the response to motor rehabilitation with non-invasive brain stimulation

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12.00 – 12.30 **Monica Perez (University of Miami, USA):** Bilateral Control of Movement: moving from motor cortex to the spinal cord

12.30 – 13.00 **Adam Zajac (Academy of Physical Education in Katowice, Poland):** The application of the post activation potentiation (PAP) in the development of power of the lower and upper limbs

13.30 – Lunch

15.00 – 16.00 Plenary session IV: motor learning and variability of movement
(Chair: Anita Hoekelman, Mindy Levin)

15.00 – 15.30 **Evangelos Christou (University of Florida, USA):** The Functional Significance of Motor Output Variability

15.30 – 16.00 **Klaus Blischke and Carmen Krewer (Sport Institute of the Saarland University and Schön Klinik Bad Aibling, Germany):** Sleep-related offline learning in gross motor tasks – a review

16.00 – 16:30 – Coffee break

16.30 – 17.30 Plenary session V: from theory to clinical applications
(Chair: Krzysztof Klukowski, John Rothwell)

16.30 – 17.00 **Michael W. Jakowec (University of Southern California, USA):** Engaging cognitive circuits in promoting motor recovery in degenerative disorders

17.00 – 17.30 **Monika Rudzinska-Bar (Medical University of Silesia, Poland):** Different phenotypes in movement disorders

17.30 – 19.30 Recreation time

20.00 Folklore evening

Friday, 16th September

9.00 – 11.00 Poster session / short presentation IIa and IIb
(Chair: Rafał Stemplewski, Katarzyna Kisiel-Sajewicz)

11.00 – 12.00 Plenary session VI: posture control
(Chair: Marek Gzik, Josef Laczko)

11.00 – 11.30 **Jim Usherwood (University of London, UK):** The Muscle – Mechanical Compromise Framework: implications for the scaling of gait and posture

11.30 – 12.00 **Janusz Błaszczyk (Academy of Physical Education in Katowice, Poland):** Directional indices of postural stability in elderly and PD patients

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12.00 – 12.30 Coffee break

12.30 – 13.30 Plenary session VII: bridging motor control and biomechanics II
(Chair: Anatol Feldman, Mark Latash)

12.30 – 13.00 **Ferdinando Mussa-Ivaldi (Northwestern University, USA):** Enhancing motor learning and recovery in human-machine interfaces

13.00 – 13.30 **Slobodan Jaric (University of Delaware, USA):** Coordination of vertical jumps: a trade-off between conflicting strategies?

13.30 Summary of the conference and closing ceremony

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