

4TH WINTER SYMPOSIUM OF "THE HUMAN MOTION PROJECT"

Is Walking Speed a Vital Sign or a Sign of Vitality?

MUNICH
>> MARCH 08, 2017 <<

Venue

Klinikum rechts der Isar Technische Universität München
Ismaninger Str. 22 - 81675 Munich
Auditorium B

Register till February 28th, 2017

Scan QR-Code or go to:

<https://goo.gl/forms/EikRUH0a31s8oodf2>

Website

<http://www.thehumanmotioninstitute.org/node/208>

Link to information & talks about the previous Symposium

<https://peerj.com/collections/6-humanmotionproject/>



FINAL PROGRAM

- 08:00 Registration & Coffee**
- 09:00 Introduction - walking in Tourette's traces**
Martin Daumer, SLC, Human Motion Institute, Trium Analysis Online, TUM, Munich
- 09:20 Mobility and prognosis in geriatric trauma**
Wolfgang Böcker, LMU, Klinik für Allgemeine, Unfall und Wiederherstellungschirurgie, Munich
- 09:40 What limits Human Performance? Physiological factors**
Ylva Hellsten, University of Copenhagen
- 10:00 Discussion**
- 10:15 Coffee break & Poster**
- 11:00 Is gait speed ready for use as outcome in clinical trials?**
Stephanie Studenski, National Institute on Aging, Baltimore
- 11:30 How to train your muscles in space - results from the Sarcolab study**
Jörn Rittweger, German Aerospace Center, DLR Cologne
- 11:50 What are the psychological constraints of Human Performance?**
Maurizio Bertollo, Department of Medicine and Aging Sciences, University of Chieti
- 12:10 Discussion - overview of investigators & student projects**
- 12:30 Lunch, Poster & Exhibition**
- 13:30 Precision medicine vs. lifestyle: a second opinion**
Michael Joyner, Mayo Clinic, Rochester, Minnesota
- 14:00 „Locomotion speed in the context of dynamic walking stability - implications for in- and off-laboratory technologies“**
Roman Schniepp, German Center for Vertigo and Balance Disorders, LMU, Munich
- 14:20 Investigating gait patterns using functional data analysis**
Sonja Greven, Almond Stöcker, Department of Statistics, LMU, Munich
- 14:40 A preliminary view on a Gold-Standard study for estimating speed and gait using the Actibelt in elderly patients**
Holger Hoefling, Ieuan Clay, Arne Müller, Novartis Institutes for BioMedical Research, Basel
Timur Nuritdinow, Gerhard Aigner, Christian Lederer, Martin Daumer, SLC, Human Motion Institute, Trium Analysis Online, Munich
- 15:10 Round table discussion: towards regulatory acceptance**
- 15:40 Summary, Funding opportunities**

FINAL PROGRAM

Posters

- » **Walking speed in the Berlin Aging Study (BASE-II) Walking speed in real life: some results from the Base 2 study**
Kiselev J¹, Demuth I¹, Steinhagen-Thiessen E¹, Neuhaus A³, Nuritdinow T^{2,3}, Daumer M^{2,3}
1 Charité - Universitätsmedizin Berlin
2 SLCMSR e.V. - The Human Motion Institute
3 Trium Analysis Online
- » **Validation of the Actibelt® speed measurement in patients with dizziness and vertigo**
Schniepp R¹, Rampmaier V¹, Nuritdinow T^{2,3}, Daumer M^{2,3}
1 German Center for Vertigo and Balance Disorders, Department of Neurology, Ludwig-Maximilians-University of Munich, Germany
2 SLCMSR e.V. - The Human Motion Institute
3 Trium Analysis Online
- » **Gait pattern and daily activity in patients with transfemoral amputation**
Müßig JA., Brauner T, Kröger I, Varady PA, Klöpfer-Krämer I, Brand A, Horstmann T, Augat P
Institute of Biomechanics, Gait Lab, Trauma Center Murnau
- » **A Field Test of Electronic Running Coaches**
Voglmaier D¹, Grassi M^{2,3}, Daumer M^{2,3}
1 TUM Department of Electrical and Computer Engineering Technical University of Munich
2 SLCMSR e.V. - The Human Motion Institute
3 Trium Analysis Online
- » **Individualized Disease Management**
Altmik R¹, Müller-Wolf M²
1 TUM Department of Electrical and Computer Engineering Technical University of Munich
2 SIP Group AG
- » **Patient Guide: Be Part of the Science**
Gaskova I¹, Sitte A²
1 TUM School of Life Sciences Weihenstephan
Technical University of Munich
2 Trium Analysis Online

Exhibitions from students of "Clinical Applications of Computational Medicine" & partners. Equipment for mobile medical monitoring & gait labs, shoes and healthy walking.

The organizers reserve the right for rearrangements

Interested to present a poster, give a talk or exhibit?

Please contact:

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THE VISION

The vision of the Human Motion Project is to become a successful analogue of the Human Genome Project: improving human health by an open collaborative technology platform for the mobile medical monitoring of human motion. The basis is a growing "critical path toolbox" and a biomedical data warehouse for collecting, archiving, analyzing, and disseminating human motion data including a library of algorithms.

In the "4th Winter symposium of the human motion project" we'll pick out real life walking speed as "pars pro toto".

"Walking is man's best medicine" was known in ancient Greece (Hippocrates - c. 460 – c. 370 BC) and walking ability and behavior per se seems to be an important element of quality of life. How would one measure walking speed in real life and how could one derive meaningful outcomes for clinical trials? "Wearables", i.e. mobile sensors, in particular mobile accelerometers that can measure various aspects of physical activity in the clinic and the "real world", will probably play an important role in this field.

As a fundamental element of "human motion" we will focus during this day on various aspects and consequences of changes in walking speed for human health - with or without drug treatment. We'll go from the clinical aspects to computational aspects (devices/sensors, data, algorithms, analysis, transmission) to the very important regulatory aspects of clinical trials and medical devices (safety, efficacy, feasibility). Experts from university hospitals, research centers, rehabilitations centers, manufacturers of medical devices, pharmaceutical companies, patients* and regulatory bodies will cover the broad spectrum of topics with a clear focus: to help the field to jointly establish a new set of meaningful clinical endpoints linked to objective measures of human motion.

Abstracts and talks are expected to be published by our partner PeerJ in the "human motion collection", as in previous symposia and workshops.

<https://peerj.com/collections/6-humanmotionproject/>

Martin Daumer
Chair Organizing Committee

* we expect almost everyone in the audience to have "experience" as a patient in one way or another.

REGISTRATION

Registration fee

Industry:	400€
Public research institution:	250€
PhD students:	100€
Students:	50€
Students presenting poster:	free
Interested patients:	free
Press:	free
Speakers:	free



Scan QR-Code or go to:
<https://goo.gl/forms/EikRUH0a31s8oodf2>

Last minute registration: plus 20%
All Fees include 19% VAT
Fee includes drinks & Lunch

Payment of Fees

All fees for registration should be paid in Euro (€) in advance to Sylvia Lawry Centre e.V. – The Human Motion Institute, stating the participant's name and address. Bank charges are the responsibility of the payer and should be paid in addition to the registration fees. Payment can be effected by bank transfer to:

Account holder/beneficiary:
Sylvia Lawry Centre for Multiple Sclerosis Research e.V.
Financial institution:
HypoVereinsbank Munich
Innere Wiener Str. 60 - 81667 München
SWIFT/BIC HYVEDEMMXXX
IBAN-Code DE70 7002 0270 00 36 198 214

Confirmation

Upon receipt of the correct registration fee, each participant will receive a confirmation of registration. Please bring this confirmation to the registration desk as proof of your registration.

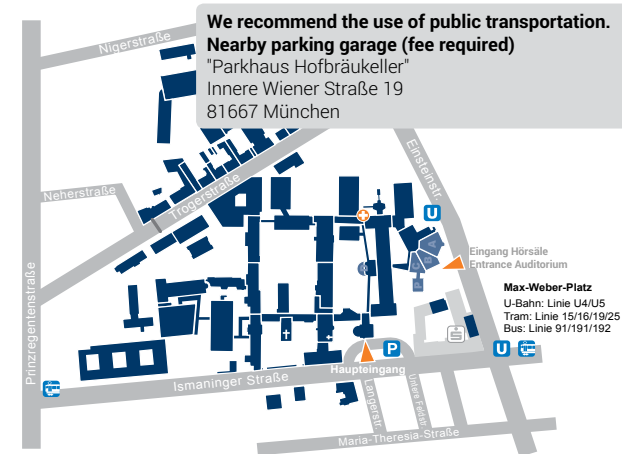
Cancellation Policy

Refund of registration fees will be as follows:
- until end of January 2017: 100% refund
- until end of February 2017: 50% refund
- No refund on cancellations after March 4th, 2017

REGISTRATION CLOSING DATE
THURSDAY, FEBRUARY 28TH, 2017

GENERAL INFORMATION

Site Map



Academic Partners



Press



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Organizing Committee

Martin Daumer, SLC, Human Motion Institute, Trium, TUM, Munich
Ylva Hellsten, Department of Nutrition, Exercise and Sport, University of Copenhagen
Jörn Rittweger, German Aerospace Center, Institute of Aerospace Medicine, Space Physiology, DLR Cologne



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