



4th European GAITRite Meeting 24-26 September 2009, Basel, Switzerland

Organizer:

Reto W. Kressig, MD
Basel Mobility Center
Department of Acute Geriatrics
Basel University Hospital
Schanzenstrasse 55
CH-4031 Basel, Switzerland

Final Program

Pre-conference technical discussions and special topics on the GAITRite system (Hotel Rochat)

Thursday, Sept. 24

17:00 – 20:00

Technical discussions:

Doug Haas & Mike Rowling, GAITRite/CIR Systems Inc.:

- New applications and new software / hardware developments including introduction of the M² (GAITRite squared)
- Open informal discussions on suggestions and needs expressed by GAITRite users

Special topics:

Quadruped Gait Analysis with the GAITRite system:

- What's new concerning the GAITRite system in small animal gait analysis?:

Spatial, temporal and kinetic evaluation of normal cats at walk using a pressure walkway;

Hip dysplasia in dogs: correlation between lameness, radiographics and walkway gait analysis: *Prof. Eric Viguier and colleagues, Ecole Nationale Vétérinaire de Lyon, Marcy l'Etoile, France*

- **Gait variability: from dog to human:** *Prof. Olivier Beauchet, Médecine Interne et Gériatrie Clinique, CHU Angers, France*

- Automated cow gait analysis for lameness detection:

Dr. Willem Maertens, ILVO, Merelbeke, Belgium (presented by Michael Rowling)

20:00 – 21:00

Welcome Cocktail (Hotel Rochat)



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Clinical Applications of Spatial and Temporal Gait Analysis
(University Hospital Basel)

Friday, Sept. 25

- 08:30 – 09:00 **Welcome gathering** with coffee & croissants
- 09:00 – 09:10 **Opening:** *Prof. Reto W. Kressig, Basel University, Basel, Switzerland*
- Key speakers** (*Presentation 40 min., Discussion 10 min.*)
- 09:10 – 10:00 **Normalization of gait speed:** *Prof. Rolf Moe-Nilssen, Physiotherapy Science, Bergen University, Bergen, Norway*
- 10:00 – 10:50 **Clinical decision making utilizing GAITRite for patients with movement disorders:** *Prof. Rao K Ashwini, HDSA Center of Excellence at Columbia University Medical Center, New York, USA*
- 10:50 – 11:10 **Coffee break and poster exhibition**
- 11:10 – 12:00 **Gait variability update 2009:** *Prof. Olivier Beauchet, Médecine Interne et Gérontologie Clinique, CHU Angers, Angers, France*
- 12:00 – 12:50 **Combining gait and cognition: the Basel assessment model:**
Dr. Stephanie Bridenbaugh, Basel Mobility Center, Basel University Hospital, Basel, Switzerland
- 12:50 – 14:30 **Lunch** (hospital cafeteria) **and poster exhibition**
- 14:30 – 15:00 **Plotting measurements over time – bringing clarity to functional measurements:** *Mike Rowling, GAITRite/CIR Systems*
- 15:00 – 18:00 **Oral presentations** (*Presentation 15 min., Discussion 5 min.*)
- 15:00 – 15:20 **Gait analysis in the differential diagnosis of patients with vestibular disorders:** *Dr. Roman Schniepp, University Hospital Munich, Munich, Germany*
- 15:20 – 15:40 **Spatio-temporal gait analysis using an instrumented walkway: normal database, validity and reliability:** *Dr Veronique Feipel, Laboratory for Functional Anatomy, Université Libre de Bruxelles, Brussels, Belgium*

- 15:40 – 16:00 **Spatio-temporal gait parameters in severely obese vs. non-obese individuals:** *Dr. Nicola A. Maffioletti, Neuromuscular Research Laboratory, Schulthess Clinic, Zurich, Switzerland*
- 16:00 – 16:20 **Age-related effects on postural control under multitasking conditions:** *Dr. Urs Granacher / Dr. Thomas Mühlbauer, Institute of Exercise an Sports Science, Basel, Switzerland*
- 16:20 – 16:40 **Coffee break and poster exhibition**
- 16:40 – 17:00 **Functional Ambulation Profile: an index for quantifying gait dynamic stability:** *Dr. Fabrice Mégrot, Centre de Rééducation pour Enfants, Croix Rouge Française, Bois-Larris, France*
- 17:00 – 17:20 **Mobile metropolitans are fitted for age: first results of LUCAS (Longitudinal Urban Cohort Ageing Study):** *Dr. Jenny Anders, Forschung Albertinen Haus, Zentrum für Geriatrie und Gerontologie, Hamburg, Germany*
- 17:20 – 17:40 **Music based multitask exercises (Jacques-Dalcroze eurhythmics) improves gait and balance in elderly: preliminary results from a randomized controlled trial:** *Dr. Andrea Trombetti, Département de Réhabilitation et Gériatrie, Hopital Universitaire de Genève, Geneva, Switzerland*
- 17:40 – 18:00 **Gait parameters are responsive to change in function associated with TNF blockade in people with ankylosing spondylitis:** *Dr. Anthony Redmond, Leeds Inst. for Molecular Medicine, Chapel Allerton Hospital, Leeds, U.K.*
- 18:00 – 18:20 **The IDEEA accelerometry system vs. the GAITRite walkway system in patients with hip osteoarthritis. A validity study:** *Julia Glatthorn., Neuromuscular Research Laboratory, Schulthess Clinic, Zurich, Switzerland*
- 18:20 – 18:30 **Closing:** *Prof. Reto W. Kressig, Basel University, Basel, Switzerland*
- 19:30 – 20:00 **Aperitif (Krafft Restaurant, Basel)**
- 20:00 – 23:00 **Gala Dinner (Krafft Restaurant, Basel)**

Saturday, Sept. 26

- 09:00 – 12:00 **Workshops** (*3 workshops running in parallel, 1h each*)
- Workshop Nr.1 **Dual tasking:** *Dr. Stephanie Bridenbaugh, Prof. Reto W. Kressig*
- Workshop Nr.2 **Normalization of gait speed, practical aspects:** *Prof. Rolf Moe-Nilssen*
- Workshop Nr.3 **M² (GAITRite squared), GaitRite technical aspects such as data processing, editing tools, footfall analysis:** *Mike Rowling, Doug Haas*