

# **Movement-Analysis Summer School 2017 with Workshops**

**Wednesday, August 9<sup>th</sup>**

**to**

**Friday, August 11<sup>th</sup>**

**BZG Bildungszentrum Gesundheit  
Basel-Stadt,  
Münchenstein**

**Organised by:**

Center of Biomechanics,

Dept. Biomedical Engineering (DBE). University of Basel

BZG Bildungszentrum Gesundheit Basel-Stadt, Münchenstein

**Supported by:**



## Program

The Movement-Analysis Summer School 2017 offers the opportunity to get practical and theoretical knowhow in Movement-Analysis technology and data analysis. Five workshops in small groups make it possible to compare different Motion Capture (MoCap) Technologies and systems e.g. in motion capturing marker-based, with marker-less and inertial moment sensor system. Further the benefits and efficient use of MoCap-Data in various applications will be discussed.

We are proud to offer  
the following workshops in alphabetical order:

- 2D-Movement-Analysis by prophysics AG, Kloten
- 3D-Makerless-Mocap by Simi Motion AG, München
- 3D-Marker Based System by prophysics AG, Kloten
- Force plate measurement methods by Kistler AG, Winterthur
- Inertial Motion Capture System by Technaid, Madrid



**Schedule:*****Wednesday, 9. August 2017:***

08.45 - 09.30 h	Registration and Opening (Coffee)
09.30 - 09.45 h	Start of Summer School and Information
09.45 - 10.45 h	What do I expect from a MoCap- Measurement as a Medical Doctor, Physiotherapist, Coach etc.
10.45 - 11.00 h	Coffee-Break
11.00 - 11.20h	How does a MoCap-Measurement runs in a: Clinical lab e.g. University Children's Hospital Basel (B. Göpfert)
11.20 - 11.40h	Sport-medicine lab e.g. Rennbahn Clinics Muttentz (S. Rüfenacht)
11.45 - 13.00h	Lunchbreak

***Industrial presentation as preparation for the workshops.***

13.15 - 14.00h	Kistler
14.15 - 15.00h	Technaid
15.15 - 16.00h	Simi Motion
16.00 - 16.30 h	Coffee-Break
16.30 - 17.45 h	prophysics (2D and 3D)

***Thursday 10. August 2017******You choose 4 out of the 5 parallel running workshops***

09.00 - 11.15 h	Workshop 1 (incl. Coffee-Break)
11.30 - 11.50 h	Introduction Muscle-Modelling (S. Krapf, UKBB)
11.55 - 12.55 h	Lunchbreak
13.00 - 15.00 h	Workshop 2
15.00 - 15.30 h	Coffee-Break
15.30 - 17.30 h	Workshop 3

***Friday 11. August 2017***

09.00 - 11.15 h	Workshop 4 (incl. Coffee-Break)
11.30 - 12.15 h	Group-Workshop: Benefits and efficient use of MoCap-Technique
12.30 - 13.45 h	Lunchbreak
14.00 - 14.30h	Data Analysis: Investigating Motion in Sports and Health (Ch. Martindale, Friedrich-Alexander-U. of Erlangen)
14.30 - 15.00h	EMG and Possibilities (V. von Tscharner U. of Calgary)
15.00 - 15.45h	Presentation: Results of Group Workshop
15.50 - 16.00h	Wrap up, Closing
16.00h	End of Summer School

**Participants:**

- Students, doing or going to do a project in Movement-Analysis at a University, University of applied science, etc.
- Professionals working or are planning to work in the field of Movement-Analysis in a Clinic, Industry or Research.
- Professionals teaching Movement-Analysis at a University, University of applied science, etc

**Language at Summer school:**

English and German

**Price**

Professionals etc.: 300 CHF.

Students: 200 CHF. (valid Student ID necessary)

Not included meals and accommodation.

If you stay in a Hotel, Hostel in Basel,  
please ask for a free Public-Transport Ticket.

**Venue:**

BZG Bildungszentrum Gesundheit Basel-Stadt

Binningerstrasse 2, 4142 Münchenstein

Location map: <https://www.bzgb.ch/kontakt/>

Public transport: Tram 11, Spengler

**Registration:**

Opens: Monday 1. May until 30 persons are registered.

Registration only by E-mail:

Beat.Goepfert@unibas.ch,

Mocap-2017-Basel, with name, affiliation, address,  
if need it with a copy of the valid Student-ID

Registration is valid if the full fee is paid.

**Information:**

Beat.Goepfert@unibas.ch