Movement-Analysis
Summer School 2017
with Workshops

Wednesday, August 9th
to
Friday, August 11th

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  
                   How does a MoCap-Measurement runs in a:
11.00 - 11.20h   Clinical lab e.g. University Children’s Hospital Basel (B. Göpfert)
11.20 - 11.40h   Sport-medicine lab e.g. Rennbahn Clinics Muttenz (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 - 12.15 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.bzgbs.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