## ISBC 2016 summer school IMC & DSC program

June 20	
9:00-9:30	Arrival of participants at the laboratories. Quick presentation of the lab and speakers. Overview of the summer school
	Location:
	Center of Biomechanics & Biocalorimetry
	c/o Dept. Biomed Engineering (DBE)
	Gowerbestr 14
	4 125 Alischwii Bus 48
	Bus 40 Stop: im Brühl
9:30-10:30	An introduction to isothermal microcalorimetry
	- Range of possible and different instrument
	- Measurement principle in a nutshell
	- Factor influencing your measurement
	- Cells and calorimetry
10.20 10.50	Coffee break
10:30-10:50	
10:50-12:30	Microbiology and microcalorimetry
	- Cell and calorimetry
	- Validating calorimetric data
	- Practical experiemnts (liquid culture, solid culture, biofilms)
12:30-13:45	Lunch break
	There is a cafeteria in the building where lunch can be obtained
	between 9CHF and 18CHF. Alternatively we have a small kitchen
	where participant can bring their own food. Feel free to choose the
	option that fits you the best.
13:45-14:50	Introduction to DSC (by TA instrument specialists)
	- Theoretical considerations
	- Practical considerations
14.50 45.40	Coffee break
14.30-13.10	
15:10-16:30	DSC parctical experiment (by TA instrument specialists)
16:30- open end	Discussions

June 21	
9:00-9:30	Arrival of participant (at the lab. Gewerbestrasse 14-16)
9:30-10:30	DSC data analysis
10:30-10:50	Coffee break
10:50-12:30	DSC data analysis
12:30-13:30	Lunch break
	There is a cateteria in the building where lunch can be obatined
	between 9CHF and 18CHF. Alternatively we have a small kitchen
	where participant can bring their own tood. Feel free to choose the
13.30-14.30	IMC data analysis
10.00-14.00	- Data extraction
	- Presentation a few helpful software
	- Description of IMC curves
	- Growth model fitting on IMC data
14:30-15:00	Coffee break
15:00-16:00	IMC data analysis
	- Curve fitting in practice with R and the grofit package
	- Step by step curve fitting with the extracted data
16:00-16:20	Coffee break
46.20 47.20	Lecture on his superior and colorimetry
16:20-17:20	Ry Thomas Maskow
	By Momas Maskow
17:20-18:00	Summer school evaluation
	- evaluation of the summer school
	- tell us what you liked and where you see possible improvement
18:00-20:00	ISBC welcome reception
	Possibilities to meet with different people from the field of calorimetry

IMPORTANT	To save time participant are kindly requested to install R and the
	grofit package on their computer. Also we recommend that you
	install the R-studio interface (or another interfaces such as
	Rkward or JGR if you have an older computer)
	See: https://cran.r-project.org/ And:https://www.rstudio.com/

Please note that the program might change quite a lot depending on participants interest. Our goal here is to have an informal summer school with as much interactions as possible between participants and instructors.