

iBiomat Workshop Program

8-9.3. 2017

University hospital in Uppsala

Wednesday, 8.3.2017

10:00–10:30 – Registration – Aula Gunnesalen, Uppsala hospital

10:30–12:00 – Plenary I – Aula Gunnesalen, Uppsala hospital

10:30-10:40	Welcome	Rajmund Mokso, MAX IV
10:40-10:50	Life Science at MAX IV	Tomas Lundqvist, MAX IV
10:50-11:20	Tomographic Microscopy	Martin Bech, Lund Uni.
11:25-11:55	Nanoimaging with coherent X-rays	Peter Cloetens, ESRF

12:00–13:00 – Lunch – Mingle area outside Gunnesalen

13:00–15:00 – Break-out sessions: Defining the case

13:00-13:15	Introducing the format and forming of the groups	Rajmund Mokso, MAX IV
13:15-13:20	Moving to the rooms	Discussion moderators
13:20-15:00	discussions	all

15:00–15:30 – Coffee break – Mingle area outside Gunnesalen

15:00–17:30 – Break-out sessions: Down to the details

15:00-17:30	discussion	all
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18:15–19:15 – Joint Infrared and X-ray dinner lectures – Sven Dufva

18:30-19:00	X-ray + IR, the Perfect Marriage?	Mike Martin ALS, Berkeley
19:00-19:30	Using Artificial Intelligence and Big Data to Accelerate and Improve Medical Imaging	Kevin Mader 4Quant, Switzerland

19:30–21:00 – Workshop dinner: IR+X-Ray – Restaurang Sven Dufva

Note: Directions to Aula Gunnesalen and to Restaurang Sven Dufva can be found on the workshop home page.

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Thursday, 9.3.2017

8:30–10:00 – Plenary II – Aula Gunnesalen, Uppsala hospital		
8:30-9:00	Spectroscopy and scanning imaging techniques	Chris Jacobsen APS, Chicago
9:00-9:30	Small Angle Scattering	Marianne Liebi Chalmers & MAX IV
9:30-9:45	Contributed: Multiscale imaging of mammalian teeth	Jukka Jernavall University of Helsinki
9:45-10:00	Contributed: BioXRM: microtomography of embryos, tissues, cells and molecules	Brian Metcher University of Vienna
10:00–10:30 – Coffee break – Mingle area outside Gunnesalen		
10:30–12:00 – Break-out sessions: Consolidating ideas		
10:30-12:00	discussion	All
12:00–13:00 – Lunch – Mingle area outside Gunnesalen		
13:00–15:00 – Plenary III – Aula Gunnesalen, Uppsala hospital		
13:00-13:30	Live animal imaging & radiation therapy methods at the synchrotron	Tomasz Wysokinski Canadian Light Source
13:35-13:55	Contributed: Imaging intra-breath cyclic changes in pulmonary blood volume: effect of ventilator settings	Liisa Porra University of Helsinki
13:55-14:15	Contributed: Synchrotron tomography reveals life history and physiology of the earliest mammals	Ian Corfe University of Helsinki
14:14-14:35	X-ray applications in food science.	Robert Feidenhans'l XFEL
14:35-14:55	Propagation phase contrast microtomography as a tool for studying the anatomy and histology of early fossil vertebrates	Per Ahlberg Uppsala University
15:00–15:30 – Coffee break – Mingle area outside Gunnesalen		
15:30–16:30 – Break-out sessions: Finalizing report		
15:30-16:30	discussion	all
16:30–17:40 – Plenary IV – Aula Gunnesalen, Uppsala hospital		
16:30-17:30	Presenting reports of each discussion group	Discussion moderators
17:30-17:40	Closing remarks	Rajmund Mokso, MAX IV
END OF THE WORKSHOP		

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Friday, 10.3.2017

The last day of the workshop will focus on discussion technical solutions for building a biomedical imaging beamline taking into account the outcome of the scientific discussion of Wednesday and Thursday. The synchrotron scientists and the discussion leaders of the previous days will be present, but anybody interested is welcome. In case you are interested to attend, please send an email to rajmund.mokso@maxiv.lu.se.

8:30–12:00 – Round table discussion – Aula Gunnesalen

8:30-9:30	Analyzing the presented science cases and matching them to the current and future imaging capabilities of MAX IV	Technical staff and discussion moderators
9:30-11:50	A review of the MedMAX conceptual design based on the presented scientific needs of the user community	Technical staff and discussion moderators
11:50-12:00	Summary of the comments, suggestions of the MedMAX CDR	Rajmund Mokso, MAX IV

12:00–13:00 – Lunch – Mingle area outside Gunnesalen

Departure of all participants

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