

# Thursday 17 January 2019

## **Welcome and Workshop Goals - Auditorium (08:45-09:00)**

- Presenter: LÜNING, Jan

## **Experiment Controls Architecture Options - Auditorium (09:00-11:00)**

### ***General Platform Choices, Components, Connectivity***

- Chair: Müller, Roland

09:00	BESSY status: legacy environment, migration ideas	VIEFHAUS, Jens
09:30	Sirius: Cost effective platform: LabView RT, cRIO-Linux	MORAES, Marcelo
10:00	Experiment control in a multiprotocol environment	SAUER, Olaf-Peter
10:30	Petra III: Tango tools in heterogeneous controls environment	KRACHT, Thorsten

### ***Coffee and Poster - Foyer (11:00-11:30)***

## **Software Stacks for Experimental Flow Control and Data Acquisition**

- Auditorium (11:30-13:10)

- Chair: Pedersen, Ulrik

11:30	pShell, a Swiss knife to experiment automation	GOBBO, Alexandre
11:55	EPCS areaDetector framework	RIVERS, Mark
12:20	Generalized data acquisition (GDA) and analysis (DAWN)	RALPHS, Keith
12:45	Bluesky, ophyd, pseudo motors, detectors	RAKITIN, Maksim

### ***Lunch and Poster - Foyer (13:10-14:00)***

## **Software Stacks for Experimental Flow Control and Data Acquisition**

- Auditorium (14:00-16:05)

- Chair: Matilla, Oscar

14:00	pyDM, typhoon, an adaptable, extensible UX	RENDAHL, Theodore
14:25	SARDANA: new features and development	CUNÍ, Guifré RESZELA, Zbigniew
14:50	From spec to python, BLISS for EBS in 2020	GUIJARRO, Matias
15:15	NICOS, Kafka @ ESS: orchestrating DAQ streams	CLARKE, Matt
15:40	SECoP - the Sample Environment Communication Protocol	KIEFER, Klaus

### ***Coffee and Poster - Foyer (16:05-16:35)***

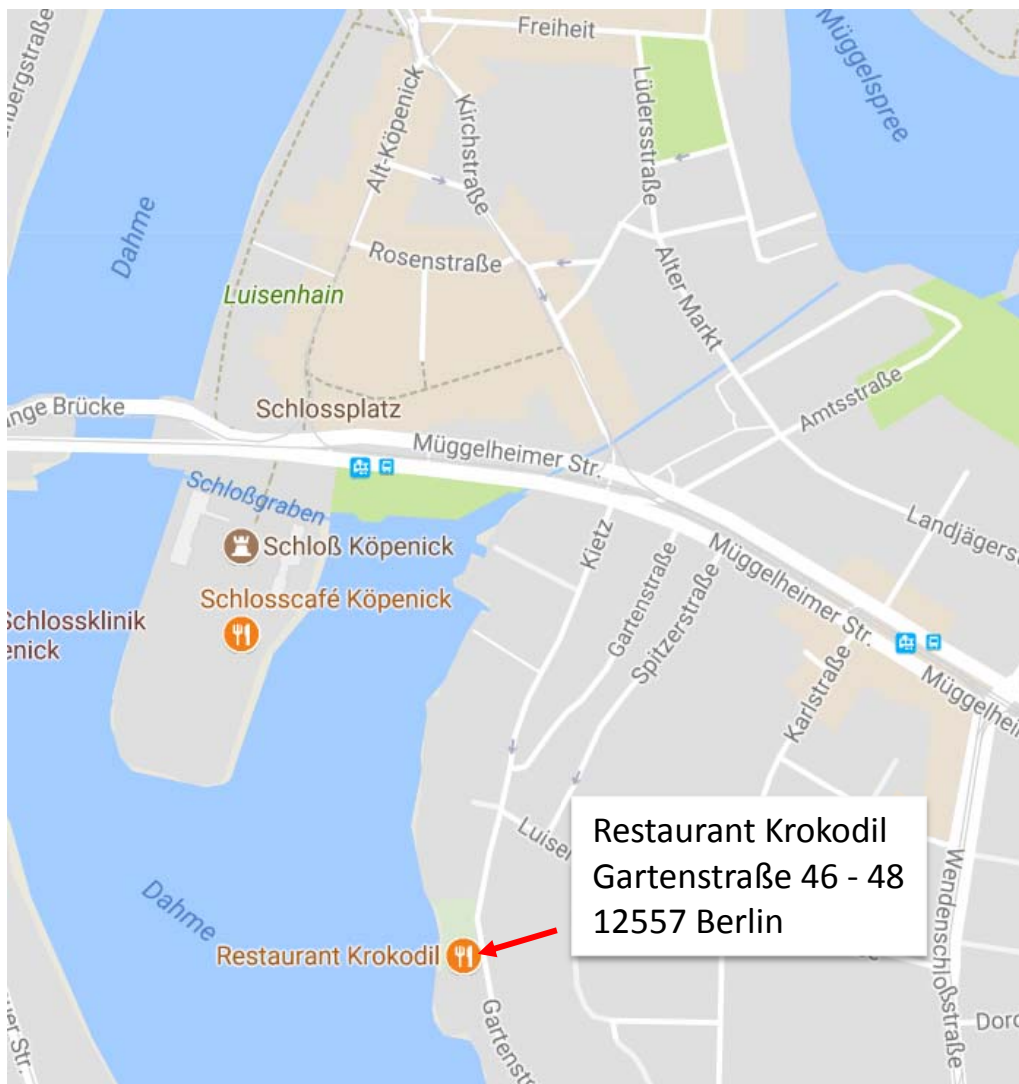
## **Beamline Simulation and Tuning tools - Auditorium (16:35-18:25)**

### ***Modelling, support of process control***

**- Chair: Viefhaus, Jens**

16:35	Optical systems: from metrology characterization to WFS analysis, through OASYS simulations	RAIMONDI, Lorenzo
17:05	Frontiers in simulation	BAUMGÄRTEL, Peter
17:35	Skywalker: automated beamline tuning	RENDAHL, Theodore
18:05	Optimization capabilities of machine learning in accelerator based light sources	HARTMANN, Gregor

### ***Workshop Dinner - Krokodil (20:00-22:00)***



Streetcar / Tram

No. 61/63 or Bus 162, Exit Schloßplatz Köpenick  
(7.29pm, 7.33pm, 7.40pm, ...)

# Friday 18 January 2019

## Task synchronization methods - Auditorium (09:00-11:00)

*Coordination, trigger, fly modes*

- Chair: Hardion, Vincent

09:00	Panda: coordination of mechatronic instruments and detectors	ZHANG, Shu
09:30	Malcolm and Panda: creating reusable, cross-beamline building blocks to implement hardware triggered scanning	COBB, Tom
10:00	The Soleil Fly Scan, ESCAN tools, ID follows monochromator	LANGLOIS, Florent
10:30	Continuous mode, monochromator follows ID	BALZER, Andreas

*Coffee and Poster - Foyer (11:00-11:30)*

## Task synchronization methods - Auditorium (11:30-13:15)

*Coordination, trigger, fly modes*

- Chair: Kracht, Thorsten

11:30	The Diamond mapping project	PEDERSEN, Ulrik Kofoed
12:00	The APS fly scan ecosystem	RIVERS, Mark
12:30	Energy scans at FELs: the EuXFEL case	IZQUIERDO, Manuel
12:45	Rythm: flexible hardware synchronization	MATILLA, Oscar
13:00	The MAX IV Acquisition System, present and future	HARDION, Vincent

*Lunch and Poster - Foyer (13:15-14:05)*

## Collaborations, partners - Auditorium (14:05-15:45)

*Workgroup communities, commercial contractors*

- Chair: Janousch, Markus

14:05	MoCraf: Motor controller, encoder applications in large Facilities	ABIVEN, Yves-Marie
14:35	Enabling capabilities of the Delta Tau family of products	NUTTER, Brian
15:05	Contractor opportunities	SABJAN, Rok

Discussion, Close Out - Auditorium (15:45-16:35)

## Visit of the BESSY II Experimental Area - Experimental Hall (16:50-18:05)