

GISAXS2022 Programme**Nov 16th, 2022 / FLASH seminar room (Bldg. 28c, 2. floor)**

09:00-10:30 Arrival and registration

10:30-10:40 Opening & Welcome (Stephan Roth, DESY & KTH, and Peter Müller-Buschbaum, TUM)

Session 1 – Basic Introduction (Chair: Stephan V. Roth)

10:40-11:25 Tae Joo Shin, UNIST (KOR): **“GIXS Techniques for Structural-Property Correlation Study of Energy-Related Materials”**

11:25-12:00 Peter Müller-Buschbaum, TUM (GER): **“Basic Introduction to GISAS”**

12:00-12:35 Denise Erb, HZDR (GER): **“Observation of spontaneous nanopattern formation on crystal surfaces under extreme conditions”**

12:35-14:00 Lunch @ DESY / Business lunch

Session 2 – Soft Matter (Chair: Stephan V. Roth)

14:00-14:45 Dorthe Posselt, Roskilde U (DK): **“Restructuring in block copolymer thin films: In situ GISAXS investigations during solvent vapor annealing”**

14:45-15:20 Guiseppe Portale, U Groningen (NL): **“Nanoscale structure and film formation in polymer-based coating”**

15:20-15:30 Group photo

15:30-16:15 Coffee break & Discussion

Session 3 – Soft X-rays & Advancing data analysis (Chair: Peter Müller-Buschbaum)

16:15-16:50 Cheng Wang, LBNL (US): **“Advancing Spatiochemical Metrology via Grazing Incidence Resonant Soft X-ray Scattering”**

16:50-17:25 Volker Skwarek, HAW (GER): **“The role of identities for advanced measurement classification”**

Session 4 – Bio- and hybrid materials (Chair: Peter Müller-Buschbaum)

17:25-18:00 Stephan V. Roth, KTH & DESY (SWE & GER): **“In-situ grazing incidence x-ray scattering”**

18:00-18:35 Torbjörn Pettersson, KTH (SWE): **“Interphase between drying cellulose revealed by in situ GISAXS”**

18:35-19:00 Break & Discussion

19:00-21:00 Poster session with snacks

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Session 5 – Future Challenges I (Chair: Stephan V. Roth)

09:00-09:45 Alexander Hexemer, ALS (USA), **“Data Driven Approaches & Machine learning”**

09:45-10:20 Sarah Rogers, RAL (UK): **“GISANS at pulsed sources”**

10:20-11:00 Coffee break & Discussion

Session 6 – Future Challenges II (Chair: Peter Müller-Buschbaum)

11:00-11:25 Sarathlal Koyiloth Vayalil, UPES (India): **“An insitu Micro -GISAXS investigation of soft magnetic thin films grown on self-organized nanopatterned templates”**

11:25-12:00 Peng Zhang, SYSU (PRC): **“Deciphering the structure-property correlation of PEDOT-based flexible thermoelectric with synchrotron light X-ray scattering”**

12:00-13:30 Lunch @ DESY / Flash

Session 8 – Towards hands-on training (Chair: Peter Müller-Buschbaum)

13:30-13:55 **P03/MiNaXS - the micro-and nano-focus X-ray scattering beamline at PETRAIII** (Matthias Schwartzkopf)

13:55-14:20 **General safety training** (Stephan V. Roth)

14:20-14:45 Division into training groups A/B/C/D

14:45-15:00 Break

Training sessions 17th and 18th November 2022

Notice for preparation of training session:

1. Bornagain

- a. Please download and install via <https://bornagainproject.org/download/>
- b. Follow the instructions on the website
- c. Check also for the python version 3.9 for windows and 3.8 for Mac

2. DPDAK

- a. Please download and install via <https://dpdak.desy.de>
- b. Download version DPDAK is v1.5
- c. No additional python installation is required here.

15:00- Training sessions TR1-4 (until Nov 18th, 2022); soft drink available at training stations

15:00-17:00 Training session TR1

DPDAK – A / Marie Betker/Benedikt Sochor: **Seminar room L110, Bldg. 47c (Max-von-Laue-Hall)**

Simulation – B / Apostolos Vagias / Yusuf Bulut: **Seminar room O1.030, Bldg. 48f. (PETRA Ost)**

Visit of PETRA III – C / Matthias Schwartzkopf: **Beamline P03, sector 2, Bldg. 47c**

Break - D

17:00-19:00 Training session TR2

DPDAK – D / Marie Betker/Benedikt Sochor: **Seminar room L110, Bldg. 47c (Max-von-Laue-Hall)**

Simulation – C / Apostolos Vagias / Yusuf Bulut: **Seminar room O1.030, Bldg. 48f. (PETRA Ost)**

Visit of PETRA III – B / Andrei Chumakov: **Beamline P03, sector 2, Bldg. 47c**

Break - A

20:00-22:00 Conference Dinner @ DESY

Nov 18th, 2022

Training sessions

09:00—11:00 Training session TR3

DPDAK – B / Constantin Harder / Shuxian Xiong: **Seminar room 4a, Bldg. 1**

Simulation – A / Apostolos Vagias / Elisabeth Erbes: **Seminar room 4b, Bldg. 1**

Visit of PETRA III – D / Matthias Schwartzkopf: **Beamline P03, sector 2, Bldg. 47c**

Break – C

11:00-13:00 Training session TR4

DPDAK – C / Constantin Harder / Shuxian Xiong: **Seminar room 4a, Bldg. 1**

Simulation – D / Apostolos Vagias / Elisabeth Erbes: **Seminar room 4b, Bldg. 1**

Visit of PETRA III – A / Andrei Chumakov: **Beamline P03, sector 2, Bldg. 47c**

Break – B

13:00-14:00 Lunch @ DESY / Voucher

Session 6: Closing session

14:00-15:00 Closing remarks (organizers)

15:00 End of Workshop