



SAXS Fundamentals Training 2022

Diamond Light Source | Diamond House | G53/G54

13th-15th July 2022

Day One: Wednesday, 13th July

10:00 – 10:45 – Welcome and introduction to SAXS at Diamond

- Tim Snow – General introduction (5 min)
- Nick Terrill – Introduction to SAXS (20 min)
- Nathan Cowieson / Charlotte Edwards-Gayle – Introduction to BioSAXS (20 min)

10:45 – 11:15 – Overview of experimental sessions and general Q&A

- Tim Snow – Overview
- All – Q&A

11:15 – 11:45 – Coffee break

11:45 – 12:30 – SAS guest lecture

- Arwen Tyler – Virtual Talk via Zoom - *Probing the structure of lipid assemblies using Small Angle Scattering*

12:30 – 13:30 – Lunch

13:30 – 15:30 – Time on beamlines (B21 / DL-SAXS / I22)

15:30 – 16:00 – Coffee break

16:00 – 18:00 – Time on beamlines (B21 / DL-SAXS / I22)

18:00 – 18:15 – Attendees back to Diamond House, recap of day one

- All

18:15 – Dinner

19:30 – Bus (X32 to Wantage)

Day Two: Thursday, 14th July

08:15 – Bus to Harwell (X32 to Oxford)

09:00 – 10:00 – Principles of data reduction and overview of simple analyses

- Tim Snow

10:00 – 10:30 – Designing ‘optimal’ SAXS experiments

- Brian Pauw, Bundesanstalt für Materialforschung und -prüfung (BAM) – Secrets of Scattering: Sample Selection – recorded talk
- Q&A with Organisers

10:30 – 10:45 – Coffee break

10:45 – 12:00 – Sample environments available at Diamond for SAXS

- Nathan Cowieson / Charlotte Edwards-Gayle – B21 (20 min)
- Olga Shebanova – I22 (20 min)
- Sam Burholt – DL-SAXS (20 min)
- All – Q&A (15 min)

12:00 – 13:00 – Lunch

13:00 – 15:00 – Time on beamlines (B21 / DL-SAXS / I22)

15:00 – 15:30 – Coffee break

15:30 – 17:30 – Time on beamlines (B21 / DL-SAXS / I22)

17:30 – 18:00 – Attendees back to Diamond House, recap of day two

- All

18:00 – Workshop Dinner

19:30 – Bus (X32 to Wantage)

Day Three: Friday, 15th July

09:25 – Bus to Harwell (X32 to Oxford)

10:00 – 12:00 – Time on beamlines (B21 / DL-SAXS / I22)

12:00 – 13:00 – Lunch

13:00 – 15:00 – Time on beamlines (B21 / DL-SAXS / I22)

15:00 – 16:00 – Quiz (with prize) then Q&A/wrap-up session

- o Quiz – Kahoot for quiz – Nathan - (30 min)
- o All – Q&A & wrap-up (30+ min)

16:00 – End of course