

PSB Course on Biological Small Angle Scattering with X-rays and Neutrons

April 14-17 2009

A course for PSB members only

Organisers:

P. Callow (ILL), F. Gabel (IBS), A. Round (EMBL), P. Timmins (ILL), J. Zaccai (ILL)

Provisional Programme

Day 1

9:30 – 10:30	Introduction: What information can be obtained from SAS? Instruments for Small Angle Scattering	(J. Zaccai)
11:00 – 12:00	Theory I: Scattering vector, real space vs reciprocal space	(F. Gabel)
14:00 – 15:00	Theory II: R_g , $I(0)$, $I(s$ or $Q)$, absolute scale	(F. Gabel)
15:30 – 16:30	Contrast Variation	(J. Zaccai)

Day 2

9:30 – 18:00	Practicals on ID14-3 (ESRF) and D22 (ILL)
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Day 3

9:30 – 10:30	Lecture: 1D Curve: buffer subtraction, merging different concentrations and Guinier analysis
11:00 – 12:00	Practical: Stage 1 SAS Quest
14:00 – 15:00	Lecture: Porod and GNOM
15:30 – 17:30	Practical: Stage 2 SAS Quest Process experimental data from practicals

Day 4

9:30 – 10:30	Lecture: Structure Validation – Crysol/Cryson
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11:00 – 12 :00 Practical: Stage 3 SAS Quest
14:00 – 15:00 Lecture : *Ab initio* modelling
15:30 – 17:30 Practical: Stage 4 SAS Quest – *Ab initio* modelling

Days 3 & 4 will be lead by Daniel Franke (a member of the Svergun Group - EMBL Hamburg).

Registration

To register for this course please e-mail Phil Callow (callow@ill.eu) stating your:

Position: Student, Post-doc or Other
Institute: EMBL, ESRF, IBS, ILL or UVHCI
Field of research / Group

The deadline for Registration will be 27th March 2009.