



PRELIMINARY WORKSHOP PROGRAMME

DAY 1 – WEDNESDAY – 28 NOVEMBER 2018	
12:00 – 13:00	Registration
	13:00 – 13:30 Welcome – Nico Fischer (University of Cape Town)
Session 1	13:30 – 15:30 Introduction to X-ray Diffraction I – Johan de Villiers (University of Pretoria)
15:30 – 16:00	Tea/Coffee
Session 2	16:00 – 17:30 Introduction to X-ray Diffraction I – Sabine Verryn (XRD Analytical and Consulting cc)
approx. 17:30	End of day one

DAY 2 – THURSDAY – 29 NOVEMBER 2018	
Session 3	8:30 – 10:00 Crystallography intro X'Pert Highscore – Sabine Verryn (XRD Analytical and Consulting cc)
10:00 – 10:30	Tea/Coffee
Session 4	10:30 – 12:00 Introduction to Rietveld refinement – Johan de Villiers (University of Pretoria)
12:00 – 13:30	Lunch
Session 5	13:30 – 14:30 Rietveld refinement examples – Esna du Plessis (SASOL)
Session 6	14:30 – 15:30 Rietveld refinement continued – Sabine Verryn (XRD Analytical and Consulting cc)
15:30 – 16:00	Tea/Coffee
Session 7	16:00 – 17:00 Rietveld refinement Freeware – Johan de Villiers (University of Pretoria)
approx. 17:00	End of day two

DAY 3 – FRIDAY – 30 NOVEMBER 2018	
Session 8	8:30 – 10:00 Special techniques – Johan de Villiers (University of Pretoria)
10:00 – 10:30	Tea/Coffee
Session 9	10:30 – 11:00 XRD from lab to synchrotron – Esna du Plessis (SASOL)
Session 10	10:30 – 12:00 Pair Distribution Function (PDF) – beyond classical XRD – Sabine Verryn (XRD Analytical and Consulting cc)
12:00 – 13:30	Lunch
Session 11	13:30 – 14:30 Pair Distribution Function (PDF) – beyond classical XRD – Esna du Plessis (SASOL)
Session 12	14:30 – 15:30 Rietveld refinement, tutorials, examples and applications – Sabine Verryn (XRD Analytical and Consulting cc), Esna du Plessis (SASOL) and Johan de Villiers (University of Pretoria)
15:30 – 16:00	Tea/Coffee
Session 12 cont.	16:00 – 17:30 Rietveld refinement, tutorials, examples and applications – Sabine Verryn (XRD Analytical and Consulting cc), Esna du Plessis (SASOL) and Johan de Villiers (University of Pretoria)
approx. 17:30	End of day three

DAY 4 & 5 – SATRDAY & SUNDAY – 1 & 2 DECEMBER 2018	
Social programme, details to be announced.	



PRELIMINARY WORKSHOP PROGRAMME

DAY 6 – MONDAY – 3 DECEMBER 2018	
Session 13	8:30 – 10:00 Introduction to X-ray absorption (XAFS) – Diego Gianolio (Diamond Light Source)
10:00 – 10:30	Tea/Coffee
Session 13 cont.	10:30 – 12:00 Introduction to X-ray absorption (XAFS) – Diego Gianolio (Diamond Light Source)
12:00 – 13:30	Lunch
Session 14	13:30 – 15:30 Experimental considerations for performing XAFS studies – Diego Gianolio (Diamond Light Source)
15:30 – 16:00	Tea/Coffee
Session 14 cont.	16:00 – 17:00 Experimental considerations for performing XAFS studies – Diego Gianolio (Diamond Light Source)
approx. 17:00	End of day four

DAY 7 – TUESDAY – 4 DECEMBER 2018	
Session 15	8:30 – 10:00 Introduction to X-ray absorption (XAFS) data analysis – Diego Gianolio (Diamond Light Source)
10:00 – 10:30	Tea/Coffee
Session 15 cont.	10:30 – 12:00 Introduction to X-ray absorption (XAFS) data analysis – Diego Gianolio (Diamond Light Source)
12:00 – 13:30	Lunch
Session 16	13:30 – 15:30 XAFS data analysis, tutorials and application – Diego Gianolio (Diamond Light Source)
15:30 – 16:00	Tea/Coffee
Session 16 cont.	16:00 – 17:00 XAFS data analysis, tutorials and application – Diego Gianolio (Diamond Light Source)
approx. 17:00	End of day five

DAY 8 – WEDNESDAY – 5 DECEMBER 2018	
Session 17	9:00 – 10:00 Q&A on XAFS data analysis – Diego Gianolio (Diamond Light Source)
10:00 – 10:30	Tea/Coffee
Session 18	10:30 – 12:00 How to write a beamline application – Diego Gianolio (Diamond Light Source) & Ian Silverwood (ISIS Neutron and Muon Source)
12:00 – 13:30	Lunch
Session 19	13:30 – 15:30 Beamline application writing workshop – Diego Gianolio (Diamond Light Source) & Ian Silverwood (ISIS Neutron and Muon Source)
15:30 – 16:00	Tea/Coffee
Session 19 cont.	16:00 – 17:00 Beamline application writing workshop – Diego Gianolio (Diamond Light Source) & Ian Silverwood (ISIS Neutron and Muon Source)
approx. 17:00	End of day six

DAY 9 – THURSDAY – 6 DECEMBER 2018	
Session 20	8:30 – 10:00 Introduction to neutron techniques – Ian Silverwood (ISIS Neutron and Muon Source)



PRELIMINARY WORKSHOP PROGRAMME

10:00 – 10:30	Tea/Coffee
Session 20 cont.	10:30 – 12:00 Introduction to neutron techniques – Ian Silverwood (ISIS Neutron and Muon Source)
12:00 – 13:30	Lunch
Session 21	13:30 – 15:30 Physical principles and experimental considerations of neutron techniques – Ian Silverwood (ISIS Neutron and Muon Source)
15:30 – 16:00	Tea/Coffee
Session 22	16:00 – 17:00 Introduction to data analysis – Ian Silverwood (ISIS Neutron and Muon Source)
approx. 17:00	End of day seven

DAY 10 – FRIDAY – 7 DECEMBER 2018

Session 23	8:30 – 10:00 Introduction to data analysis – Ian Silverwood (ISIS Neutron and Muon Source)
10:00 – 10:30	Tea/Coffee
Session 24	10:30 – 12:00 Neutron data analysis tutorials and applications – Ian Silverwood (ISIS Neutron and Muon Source)
12:00 – 13:30	Lunch
Session 24 cont.	13:30 – 15:00 Neutron data analysis tutorials and applications – Ian Silverwood (ISIS Neutron and Muon Source)
	15:00 – 15:30 Closing remarks – Nico Fischer (University of Cape Town)
15:30 – 16:00	Tea/Coffee
approx. 16:00	End of day eight