

Programme for SOMC 2025

23 July – 1 August 2025

Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde

Refreshments and lunch will be provided all days except Sunday 27th July at 10:30am/3:30pm and 1pm respectively

Date		Lecturer	Talk/Title
<i>Wednesday 23rd July</i>	14:00	Student registration, Welcome, and Poster Session	
<i>Thursday 24th July</i>	9:00	Brad Amos	Overview of optical microscopy
	11:00	Caroline Muellenbroich	Ray and wave optics
	14:00	Practical session	
	18:00	David McKee	Polarisation and interference
<i>Friday 25th July</i>	9:00	Klaus Suhling	Detectors for imaging
	11:00	Gail McConnell	Light sources for optical imaging
	14:00	Practical session	
	18:00	Robert Edkins	Fluorescence and fluorescent proteins
<i>Saturday 26th July</i>	9:00	Leandro Lemgruber	Widefield and laser scanning microscopy
	11:00	Liam Rooney	Live cell and in vivo imaging
	14:00	Practical session	
	18:00	Beatrice Bottura	Image processing and analysis
<i>Sunday 27th July</i>		<i>Field trip</i>	
<i>Monday 28th July</i>	9:00	Sian Culley	STED and super-resolution microscopy
	11:00	Susan Cox	Single molecule localisation microscopy
	14:00	Practical session	
<i>Tuesday 29th July</i>	9:00	Ralf Bauer	Lightsheet microscopy
	11:00	Shannan Foylan	Expansion microscopy
	14:00	Practical session	
<i>Wednesday 30th July</i>	9:00	Simon Poland	FLIM and FRET
	11:00	Joelle Goulding	Fluorescence correlation spectroscopy
	14:00	Practical session	
<i>Thursday 31st July</i>	9:00	Karen Faulds	Raman microscopy
	11:00	TBC	TBC
	14:00	Practical session	
<i>Friday 1st August</i>	9:00	Gail McConnell	Mesoscale imaging
	11:00	Giuseppe di Caprio	Computational methods in imaging
	14:00	Practical session	
	17:00	<i>Farewell drinks and workshop close</i>	

Practical sessions

Date		Practical session
<i>Thursday 24th July</i>	14:00	Basics of the light microscope; Abbe theory demo; Köhler illumination
<i>Friday 25th July</i>	14:00	Phase contrast and DIC;
<i>Saturday 26th July</i>	14:00	Live cell specimen preparations (Tetrahymena, Daphnia, Nicotiana)
<i>Monday 28th July</i>	14:00	Image processing; Imaging of field trip specimens; Specimen fixation/mounting
<i>Tuesday 29th July</i>	14:00	Advanced systems (TBC)
<i>Wednesday 30th July</i>	14:00	Advanced systems (TBC)
<i>Thursday 31st July</i>	14:00	Advanced systems (TBC)
<i>Friday 1st August</i>	14:00	Advanced systems (TBC)/Building an Imaging PC workshop