



## Strathclyde Optical Microscopy Course 2024

Strathclyde Institute of Pharmacy and Biomedical Sciences,  
University of Strathclyde, Glasgow, UK  
4-9 August 2024

Apply: [www.centreforbiophotonics.com/somc24](http://www.centreforbiophotonics.com/somc24)

Sunday 4 August	18:00	<i>Registration and welcome buffet</i>	
Monday 5 August	9:00	Overview of optical microscopy	Dr Brad Amos, MRC LMB and University of Strathclyde
	10:30	<i>Break</i>	
	11:00	Ray and wave optics	Dr Brad Amos, MRC LMB and University of Strathclyde
	13:00	<i>Lunch (provided)</i>	
	14:00	<i>Practical session 1</i>	
	18:00	Polarisation and interference	Dr Brad Amos, MRC LMB and University of Strathclyde
Tuesday 6 August	9:00	Fluorescence and fluorescent proteins	Dr Bob Edkins, University of Strathclyde
	10:30	<i>Break</i>	
	11:00	Light sources and detectors	Professor Gail McConnell, University of Strathclyde
	13:00	<i>Lunch (provided)</i>	
	14:00	<i>Practical session 2</i>	
	18:00	Laser scanning microscopy	Dr Brad Amos, MRC LMB and University of Strathclyde
Wednesday 7 August	9:00	Super-resolution microscopy	Dr Siân Culley, King's College London
	10:30	<i>Break</i>	
	11:00	Localisation microscopy	Dr Susan Cox, King's College London
	13:00	<i>Lunch (provided)</i>	
	14:00	<i>Practical session 3</i>	
	18:00	<i>RMS Lecture: Correlative and multimodal microscopy</i>	Dr Lucy Collinson, Crick Institute
Thursday 8 August	9:00	Lightsheet microscopy	Dr Ralf Bauer, University of Strathclyde
	10:30	<i>Break</i>	
	11:00	Optical mesoscopy	Professor Gail McConnell, University of Strathclyde
	13:00	<i>Sample collection trip (Loch Lomond), packed lunch provided</i>	
Friday 9 August	9:00	Basics of image analysis	Dr Liam Rooney, University of Strathclyde
	10:30	<i>Break</i>	
	11:00	<i>Practical session 4</i>	
	13:00	<i>Lunch (provided)</i>	
	14:00	<i>Practical session 5</i>	
	17:00	<i>Farewell drinks and course close</i>	

Practical session 1: Basics of the light microscope; Abbe theory demo; Köhler illumination

Practical session 2: Phase contrast and DIC; Optical filters

Practical session 3: Live cell specimen preparations/tour of local imaging facility and research labs

Practical session 4: Imaging of Loch Lomond specimens and other preparations

Practical session 5: Using ImageJ/FIJI to analyse image data