

Day 1 (Wednesday 16th April)

Time	Detail	Key lead presenter	Supporting person
13:00-13:30	Meet and greet over coffee	All	
13:30-13:45	Introduction	JML	
13:45-14:30	Presentation 1 – Introduction to Sensors for Scientific Digital Camera – CCD, EMCCD, sCMOS and InGaAs cameras – sensor technologies, matching technology with experimental requirements	AV	JML
14:30-15:15	Presentation 2 – Spectroscopy fundamentals – dispersion, geometry of spectrometers, aberrations and correction methods, their advantaged/disadvantages, key limitations, SNR in spectral analysis	GOC	AV
15:15-15:30	Coffee break		
15:30-16:00	Presentation 3 – Types of noise associated with cameras. Identification, characterisation of noise and common correction methods. Defining the limits of a camera	CRD	JML
16:00-17:00	Demo 1/Interactive Session – Introduction to spectrographs	GOC	AV



Day 2 (Thursday 17th April)

Time	Detail	Key lead presenter	Supporting person
9:00-9:45	Presentation 1 – New developments for NIR imaging - Deep depletion CCDs, their cooling paradigms – LN2 vs. TE, camera performance challenges, special AR coatings for NIR studies.	AV	CRD
9:45-10:30	Presentation 2 – Spectroscopy applications of selected CCD. EMCCD and InGaAs cameras. - Microspectroscopy, NIR Raman, Raman mapping, plasma spectroscopy, LIBS.	GOC	JML
10:30-10:45	Coffee break		
10:45-11:45	Demo 1 – Spectroscopy in the NIR and SWIR - etaloning, blackbody effect & dark current	JML	AV
11:45-12:45	Demo 2 – Holospec and iDus 416	CRD	
12:45-13:45	Lunch		
13:45-14:45	Demo 3 – Advanced methods – Crop mode, fast kinetics, step-and glue, Andor Basic & file exchange	TFH	CM
14:45-15:45	Demo 4 – Andor ICCD and its operation	GOC	
15:45-16:00	Coffee break		
16:00-17:00	Free time to talk to Andor experts - main theatre	JML	
17:00	End of Andor Academy	JML	

