These two workshops are a reduction from a semester long course crammed into less than 4 hours.

Clearly, much will be removed due to time constraints, but essential components will be briefly covered:

Myths of the Microscope

Light & Optics	Crystallography & Polarized Light Microscopy
Terminology 1 and 2	Using PLM to identify unknowns
Isotropic crystals	Uniaxial crystals
Biaxial crystals	Microcrystal tests
Recrystallization & Fusion melts	

Terminology 1 **and the file** ***Koehler Illumination and Centering*** **should be printed or have electronic access to use it at the workshop. Your life will be more difficult without them during the workshop.**

Here are some references to read in advance of the workshop. This list is not comprehensive.

Bloss, Optical Crystallography or Introduction to Optical Crystallography
Delly, Essentials of Polarized Light Microscopy and Ancillary Techniques
McCrone, Polarized Light Microscopy
Carlton, Pharmaceutical Microscopy
Schaeffer, Microscopy for Chemists
Stoiber & Morse, Crystal Identification with the Polarizing Microscope

Workshop 1

Myths of the Microscope
Light & Optics
Crystallography & PLM
Setting up the Polarized Light Microscope
Terminology 1
Using PLM to identify unknowns
Isotropic crystals
Refractive index determination of isotropic particles
Microcrystal test example

Workshop 2

Terminology 2
Uniaxial crystals
Biaxial crystals
Using PLM to identify unknowns
Refractive index determination of uniaxial crystals
Refractive index determination of biaxial crystals
Fusion melt example