PHPS 202
Applications of Scientific Photography II

Spring 2016

Making Routine Photomicrographs and More

Congratulations! We are sure by now you have learned how to establish Köhler illumination and you are now halfway to becoming an "expert" photomicrographer. This assignment will give you an opportunity to make photographs using Köhler illumination and optimizing the instrument's diaphragms influencing image resolution and contrast.

This assignment will provide an opportunity to learn how to control and achieve:

1. Par-focalize the Instrument and image
2. Proper set up of Köhler for all objectives
3. Achieve proper color balance across several photomicrographs using different magnifications from the same sample
4. Demonstrate the proper calculation of image magnifications
5. Create images with sharpness and exhibit no vibration

ASSIGNMENT: Produce a minimum example of each following:

1. a photograph using the 4x objective
2. a stage micrometer photographed at that magnification

3. a photograph using the 10x objective
4. a stage micrometer at that magnification

5. a photograph using the 40x objective
6. a stage micrometer at that magnification

7. a series of four photomicrographs using a 10x objective and each using a different aperture diaphragms setting ranging from .25 down to completely closed.
8. Convert the best RGB file into a Grayscale file

SUBMISSION:
The assignment must be turned in on the cias.rit.edu server.
Please submit files as TIF files
Section one Monday February 15th by noon
Section two Wednesday February 17th by noon

Submit one image or images for each request. Each image should be named using the following convention and submitted to your section's folder

Example file name: mrp_1.tif

The assignment must be accompanied with a word document to include the following:

Image mrp_1.tif
The objective used: 10x
Subject name: Psilotum sp
The setting of the AD for the image

Due Dates:

Section one Monday March 21st by 1
Section two Wednesday March 23rd by 1