PROCEDURE FOR CRYSTAL EXAM

- 1. Set up microscope for crystal exam. The light should be at its brightest.
- 2. Set polarizer and analyzer in alignment. This should give maximum extinction (darkest field). Bring crystals into focus. Crystals will appear white.
- 3. If crystals are present differentiate between uric acid and calcium pyrophosphate. To insure test is being done correctly, check a slide of known uric acid crystals.
- 4. Procedure:
 - a. Bring crystals in focus.
 - b. Introduce wave analyzer (rotating wave plate) into position.
 - c. Rotate dial to position with arrow facing up and down. In this position:

Uric acid N-S crystals are yellow, E-W crystals blue CA pyroph N-S crystals are blue, E-W crystals yellow

d. Rotate dial to position with arrow facing left and right. In this position:

Uric acid N-S crystals are blue, E-W crystals are yellow CA pyroph N-S crystals are yellow, E-W crystals blue

