**What is the lab schedule for the remaining REEL labs?**

**Mon/Tue (May 15-16)**
There are two tasks for this lab, (a) participate in a discussion with your color subgroup (your TA should have assigned you to make either a yellow, orange or red pigment) and decide the target composition for your pigment, and (b) complete any unfinished work from labs 1-6 of the REEL pigment project. You will need to come to this lab with some ideas as to what compound(s) would make a good target composition.

**Wed/Thur (May 17-18)**
The main task of this lab is to prepare your target pigment and prepare X-ray and UV-Visible sample holders for data collection. Your research proposal is due at the beginning of lab. Most of you will be preparing your pigment by a precipitation reaction and if things go according to plan you should be able to carry out the precipitation, filter off the solution, dry your precipitate (drying ovens will be provided), and prepare a sample holder for UV-Visible and X-ray diffraction measurements. Those measurements will be carried out by the Chemistry Department staff, TA’s and Dr. Woodward over the weekend. The data will be made available to you for the next lab period. If time is not sufficient to enable you to complete drying of your sample, the lab will be open on Friday afternoon for preparing your samples for UV-Vis and XRD measurements.

**Mon/Tue (May 22-23) & Wed/Thur (May 29-30)**
Research is an unpredictable venture, so it is altogether possible that the research you describe in your proposal may not go as planned. For example the synthesis procedure might not work, the color of the compound you make may not be anywhere close to the target color. The basis of the scientific method is to modify successive experiments based on observations from previous experiments. Therefore, these labs are set aside to (a) carry out further synthesis trials if the first round did not go as you had hoped, (b) analyze your data and discuss the results with your TA and Dr. Woodward, (c) complete unfinished work from any previous labs.

**Tue (May 23)**
Each student will be asked to write a scientific paper describing their research project and make a short presentation describing their research proposal and results. The research presentations will take place on Tuesday, May 23. The presentations are to be Powerpoint presentations of 4-5 minutes in length. Monday, May 22 is a holiday (Memorial Day). Therefore, the two sections (Diana’s and Tanya’s) which meet on Monday will need to set up an alternate time on Tuesday evening to make your research presentations. The TA’s will coordinate scheduling of this session. A research report describing your project is due in the last laboratory session (May 24 or 25).