

Fifth Week October 5 – 9, 2009

## Assignments

You should have completed reading Chapters 4 and 5. If you have not done so, please read these chapters!

## Reminders

The fifth week CHEM 251L laboratory will be the *Chemical Extraction Experiment* (see p. 67-74 in the manual). Please read the experiment before going to lab.

Dr. Markus Lill from Purdue University will be giving a seminar entitled "Novel computational methods for modeling proteinligand interactions" on Wednesday, October 7, 4<sup>th</sup> hour in G-315.

"Stereochemical relationships are important not only because of the various forms of isomerism associated with spatial arrangements within molecule but also in determining ease of formation, stability, and reactivity of ring compounds....

"An important phase of organic chemistry is associated with the phenomenon of the polarization of light, discovered by Étienne Louis Malus in 1808....

"Tartaric acid [in the form of potassium hydrogen tartrate] is insoluble in alcohol and separates [from wine] as a sludgy precipitate as the alcohol concentration increases during fermentation." – Fieser & Fieser, Organic Chemistry, 1956.

*"Eww ... this wine tastes sour." –* Anonymous

"[Pasteur] observed that [when sodium ammonium tartrate is crystallized below a critical transition point of 28°C] the hemihedral faces ... inclined sometimes to the right and sometimes to the left. Pasteur carefully picked out a quantity of crystals that were hemihedral to the right, and a further quantity of those hemihedral to the left, and examined their solutions separately in the polarimeter; he thereupon made the exciting observation that the former material rotated the plane of polarize light to the right and the latter to the left." – Fieser & Fieser, Organic Chemistry, 1956.

**Problem set #7 due Tuesday (10/6/09)** 

**Problem set #8 due Thursday (10/8/09)**