

Chem 654, Spring 2003
Handout

#2, 01/22/03

The third credit procedure:

- a. Topic choice should be made by February 3 after consultation with the instructor.
- b. The initial draft of outline, including relevant list of the literature, should be submitted to the instructor by February 17.
- c. The revised outline will be settled by February 24, in consultation with the instructor.
- d. The final report should be submitted by May 9.

Topics for the third credit report:

1. Atom transfer free radical polymerization and applications.
2. Polymers made by metallocene catalysts.
3. NLO applications of polymers.
4. Polymeric surfactants and their applications.
5. Polyelectrolytes in multi-layered structures and their applications.
6. Block copolymers and their applications in photonic materials.
7. Polymeric light emitting diodes and their future prospect.
8. Liquid crystalline polymers and their electro-optical applications.
9. Polymers for microlithography
10. Biocompatible polymer surfaces and implant applications.
11. Hydrogels in drug delivery.
12. Combinatorial screening of polymer properties.
13. Biodegradable polymers and their impact on environment.
14. Applications potential for dendrimers and hyperbranched polymers.