Postgraduate course in

**Advanced Polymer Chemistry, 9 hp**

*Polymer chemistry treats the physical and organic chemistry of the reactions by which polymers are synthesized. Advances in the area are currently leading to polymers with increasing control of structure and functionality. Many of these materials are important in order to meet our future global challenges within energy, environment and quality of life.*

The purpose of the course is to gain advanced knowledge concerning different polymerization mechanisms and methods which lead to complex macromolecular architectures and functional materials. The principles of various step, chain, and ring-opening polymerizations and their utility for the synthesis of polymers with well-defined structures and properties will be treated in depth.

Together we will during seminars critically discuss the contents of *Principles of Polymerization, 4th Ed.*, by George Odian and selected recent scientific papers. In order to pass the course you need to be highly active and significantly contribute to the discussions. We are scheduled to start on September 17, 2013, and are estimated to finish at the end of December. In order to follow the course you already have to understand and be familiar with basic concepts and nomenclature in organic and polymer chemistry.

*Interested? - Please contact Patric Jannasch at CAS (patric.jannasch@chem.lu.se)*