

UNIVERSITY OF CONNECTICUT



**INSTITUTE OF MATERIALS SCIENCE**

## **POLYMER PROGRAM SEMINAR**

**“Single-chain Nanoparticles: Synthesis of Nano-scale Architectures by Manipulating Discrete Macromolecules”**

**Prof. Erik Berda  
University of New Hampshire**

**Friday, December 5, 2014  
11:00 AM, IMS Room 20**

Recent efforts by our lab to fold single polymer chains into nano-structured particles will be discussed. Specifically, we will highlight the use of SEC with multiple modes of detection as a reliable method to measure the change in solution conformation of polymer chains when folded via intra-chain interactions. The ability to unfold and refold these structures by utilizing dynamic covalent interactions will be discussed, along with efforts to use multiple orthogonal intra-chain interactions in one system to arrive at well-ordered folded structures.

*\*For further information, please contact YH Chudy [yhchudy@ims.uconn.edu](mailto:yhchudy@ims.uconn.edu)*

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