

Joint Chemistry/Materials Science/CHN Seminar at UNH

13:30, Thursday, Feb. 26, 2009

MUB Theatre I, University of New Hampshire

Chemically Rich Macromolecules: Biomimetics to Advanced Materials

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Polymeric molecules have fascinated scientists for years. From a natural standpoint; however, these molecules remains relatively unsophisticated. Perhaps the most well known example of advanced properties in macromolecules comes from biopolymers like DNA and proteins. Our laboratory has focused on creating novel polymeric molecules with increased functionality in order to enable new properties and applications. This lecture will highlight two diverse efforts, biomimetic antimicrobial peptide mimics and metal-ligand functionalized structures, which are unified by this concept. We will discuss how the design has lead to novel antibiotics, on one hand, and uniquely organized supramolecular assemblies on the other.

Host: Professor Glen Miller, x2456