
McGill
Chemical
Society



McGill



Dr. Mary Anne White

Department of Chemistry, Dalhousie University Halifax, Nova Scotia

Molecular-Based Design Rules for Reversible Thermo-chromic Mixtures

Tuesday Sept. 9, 2008 1:00pm
Otto Maass room 10

Many materials are thermo-chromic, i.e., they change colour with temperature. Their applications can range from sensors to thermal printing. The most common thermo-chromic materials are microencapsulated mixtures of a leuco dye (which can change colour depending on its environment), a developer (usually a proton donor) and a solvent (which melts and initiates a change in interactions between the dye and developer). Although used extensively in commercial applications, there are significant gaps in our understanding of the mechanism of thermo-chromism in these mixtures, which can hinder development of new mixtures for particular applications, such as thermally erasable printing. In this talk, our contributions to molecular-based understanding of thermo-chromic mixtures will be presented, with an emphasis on self-assembled structures.

Everyone is welcome

