



Faculté des arts et des sciences
Département de chimie
SÉMINAIRE CRMAA

Université 
de Montréal

Prof. Mary Anne White

Institute for Research in Materials
Dalhousie University

Molecular-Based Design Rules for Reversible Thermochromic Mixtures



Many materials are thermochromic, i.e., they change colour with temperature. Their applications can range from sensors to thermal printing. The most common thermochromic 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 thermochromism 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 thermochromic mixtures will be presented, with an emphasis on self-assembled structures.

Le mercredi 10 septembre 2008
Salle G-815, Pavillon Roger Gaudry
11 h 30

Le Département de chimie organise annuellement plusieurs séries de conférences et séminaires et tient à remercier particulièrement ses commanditaires qui rendent ces programmes possibles : **AstraZeneca, Boehringer Ingelheim, Centre de recherche sur les matériaux auto-assemblés du FQRNT, Eisai, Fondation Barré, Isis Pharmaceuticals, IUPAC-Macro '90, MethylGene, Merck Frosst**. Les conférenciers prestigieux invités, dans le cadre des grandes conférences, offrent à la communauté scientifique de Montréal les meilleures présentations dans les différents domaines de pointe de la chimie.