MONASH University

Department of Chemical Engineering Seminar

"From Molecule to Nanostructure, Science to Application."

Presented by: **Dr. Patrick Hartley**, Project leader, Nanostructured Materials Group, Division of Molecular & Health Technologies, CSIRO.

Thursday 7th August 2008, 4 – 5pm. Building 36, Room 222.

Abstract: The work of the nanostructured materials group from the CSIRO division of Molecular & Health Technologies will be presented. This group focuses on the development and characterisation of functional materials for energy and biotechnology related applications, based on the manipulation of colloidal (self assembly), interface and physicochemical properties.

Biography: Dr. Patrick Hartley is a research stream leader in CSIRO's Division of Molecular & Health Technologies (CMHT). He manages a multidisciplinary team of 10 research scientists whose work is focused on the development of biofunctional nanomaterials. He is the Chair of the Colloid and Surface Science Division of the Royal Australian Chemical Institute. Dr. Patrick Hartley graduated with a BSc. (Hons) in microbiology from the University of Warwick, UK in 1987, and obtained a PhD in Chemical Engineering from Imperial College, London in 1994. Prior to commencing his PhD studies, he was employed as development manager for a university spinoff company, Biolite Ltd., with responsibility for reagent production for a bioluminescence based biosensor. In 1994, he was awarded a postdoctoral fellowship by the Royal Society, London, which allowed him to travel to the School of Chemistry, University of Melbourne, to work on the study of surface interactions using the Atomic Force Microscope. In 1998, Dr. Hartley joined the CSIRO Division of Molecular Science as a research scientist in the Biomaterials Program, and he was appointed Project Leader within the Applied Chemistry program in 2000. A strong emphasis is placed on advanced surface/structural characterization techniques (e.g. synchrotron) in his work. Dr. Hartley has authored or coauthored 40 publications in peer reviewed journals, numerous CSIRO client reports and 3 patents. He was awarded the Grimwade Prize in Industrial Chemistry by the University of Melbourne in 2004.

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