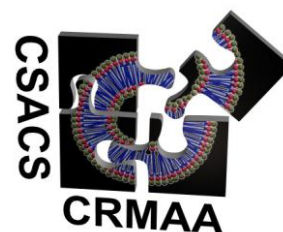

McGill
Chemical
Society



McGill



Dr. Francesco Stellacci

Institute of Materials, Ecole Polytechnique Fédérale, Lausanne (EPFL), Switzerland

From Nano- to Bio-Interfaces, Lessons Learned

Tuesday February 28th, 2012 1:00pm
Otto Maass room 10

A bird eye view of any folded protein shows a complex surface composed of hydrophobic and hydrophilic patches closely packed. To date little is known on the fundamental properties that such packing determines. In this talk I will present my group's endeavor into the synthesis, characterization, and understanding of a family of nanomaterials (mixed monolayer protected nanoparticles) that possess a surface coexistence of patches of opposite hydrophilicity resembling that present on folded protein. I will show that these materials are ideal model compound to uncover the basic properties that such coexistence determines at the solid liquid interface, and will conclude with example of application of these nanoparticles when used as mimic of biological entities (e.g. as cell penetrating peptides, as nano-enzymes, etc.).

EVERYONE IS WELCOME!
