Dear All,

Nanoparticles by Design Unit (Sowwan Unit) would like to announce a seminar by Prof. Robert Pollard, Queen's University Belfast, UK.

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Date: Monday, February 25th, 2013

Time:16:00-17:00

Venue: Center Building Seminar room C210

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Title: Synthesis, applications and commercialization of nanomaterial-based sensor devices

Abstract: To fully exploit the potential of substrate bound nanomaterials requires new synthesis techniques that are both controllable and cost effective. This talk will concentrate on large scale arrays of noble metal nano-structures created from thin film alumina templates. First, I will describe the manufacturing method and types of nanostructures that can be achieved. Second, I will describe various properties and applications of the materials in the areas of gas sensing and plasmonics. Finally I will discuss the attempted commercialization of these materials by an early stage university spin out company

References: [1] Optical and magneto-optical properties of gold core cobalt shell magnetoplasmonic nanowire arrays, Nanoscale, Vol. 6, No. 21, 2014, p. 12905–12911. [2] Designed ultrafast optical nonlinearity in a plasmonic nanorod metamaterial enhanced by nonlocality, Nature Nanotechnology 6, 2011, 107–111. [3] High-Performance Biosensing Using Arrays of Plasmonic Nanotubes, ACS Nano, 2010, 4 (4), pp 2210–2216.

Host: Mukhles Sowwan, Nanoparticles by Design Unit

We hope to see you many of you at the seminar.

Contact person: Dr. Cathal Cassidy (c.cassidy@oist.jp)

Sincerely,

Yumi Takahashi