

NIMS/UW Workshop for International Collaboration on Bio and Clean Technologies



February 28th 2011, 13:20~ Conference room Kyodo-to 4F

13:20 Introduction “A new stage of research collaboration between NIMS and UW”

13:30 ~ 14:20 **Opportunities for Trans-Pacific Collaboration Between NIMS and the Molecular Engineering and Sciences Institute at University of Washington**

Prof. Patrick Stayton

Director of Molecular Engineering and Science Institute
Department of Bioengineering, University of Washington



The University of Washington (UW) has launched an agile interdisciplinary Molecular Engineering and Sciences (MoIES) Institute focusing on Bio/Medical technology and Clean technology as a catalytic convergence zone for fragmented MoIES research efforts already present on campus. Newly established interdisciplinary teams will come together in shared space in a new MoIES building to be opened in early 2012.

By uniting interrelated efforts at the UW's MoIES Institute with unique complementary expertise at NIMS, we are planning to develop a new stage of collaborative research that is beyond what the individual in UW and NIMS can do.

In this talk, some typical activities in UW Bioengineering and MoIES Institute will be introduced.

http://www.engr.washington.edu/news/trend/spr09_mole.html



Topics from NIMS

- 14:50 ~ 15:10 “Smart polymer based biotechnologies” Mitsuhiro Ebara (Smart Biomaterials Group, Biomaterials Center)
- 15:10 ~ 15:30 “Preparation of tissue development-mimicking matrices for regulation of stem cell functions” Takashi Hoshida (Polymeric Biomaterials Group, Biomaterials Center)
- 15:30 ~ 15:50 “Photoresponsive materials for cell engineering and analysis” Jun Nakanishi (Independent Scientist, MANA)
- 15:50 ~ 16:10 “Control of gene expression and cell adhesion by engineered proteins” Tomohiko Yamazaki (Advanced Medical Materials Group, Biomaterials Center)
- 16:10 ~ 16:30 “Development of novel Toll-like receptor 9 agonists for pollinosis Therapy” Meng Wenjun (Hokkaido University, NIMS Biosystem and Biomolecule Control Group)
- 16:30 ~ 16:50 “New Aspects of Porphyrin Chemistry: Chiral Sensing, Molecular Switching, and Solvent Tasting” Shinsuke Ishihara (MANA/NIMS Supermolecule group)
- 16:50 ~ 17:10 “New Anhydrous Proton-Conducting Nafion-1,2,3-Triazole Electrolyte Membrane for High Temperature PEFCs” Jedeok Kim (Fuel Cell Materials Center, Nano-Ionic Materials Group)