

The Department of Mechanical Engineering
College of Engineering and Applied Sciences
Stony Brook University

Mechanical Engineering Seminar



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Lecture Title: Smart Sensor System and Functional Metal Surfaces

Monday, November 30, 2015 at 11:00 AM, Room 173 Light Engineering Building

Abstract

Smart sensor system and functional metal surfaces have been studied for various applications including safety, health, environment, and energy. For smart sensor system related to the explosive detection, fire safety monitoring, and respiratory disease diagnosis, some interesting results and future direction will be introduced. On the other hand, various three dimensional large metal substrates can have extreme wetting properties for various liquids. The functional metal surface fabrication methods and several interesting applications including oil vapor separation, anti-icing, and anti-corrosion will be introduced.

Biography

Dr. Si-Hyung Shawn Lim is an associate professor in Mechanical Engineering department at Kookmin University, Seoul, Korea. He received his BSE and MSE degrees from Seoul National University, Korea (1994 and 1996), and Ph.D. degree in Mechanical Engineering from University of California at Berkeley (2005), followed by postdoctoral researcher (2005-2007) at Berkeley Nanoscience and Nanotechnology Institute (BNNI) of University of California at Berkeley, till he joined Kookmin University as a faculty in 2007. His research focuses on smart MEMS/NEMS sensors, actuators, surfaces, and control based on micro/nano and mechatronics technologies, with highlighted target industrial applications including health, environment, safety, space, and energy (HESSE).

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