



HKUST

Division of Environment

S E M I N A R

Inter-disciplinary programmes in Nanyang Technological University
by

Prof. Bo Gunnar Liedberg

Acting Dean, Interdisciplinary Graduate School Professor,
Nanyang Technological University, Singapore

Biography:

Bo Liedberg is full professor of Sensor Science and Molecular Physics (2000-), at the Department of Physics, Chemistry and Biology, Linköping University, Sweden. Liedberg is also the head of the scientific branch Applied Physics which encompasses seven research divisions at the Department. His research is primarily devoted to soft materials science including surface chemistry, self-assembly, supramolecular chemistry and biomimetics. Liedberg is heading a research group of about 25 PhD students, post docs and staff, and the research focuses on the application of advanced surface- and nanoscience tools for the study of interface phenomena on planar as well as nanoparticle surfaces. A significant portion of the work is devoted to applications in biology and medicine (eg. in biosensing and molecular recognition) and to the development of novel transduction principles for biochemical/biological sensing and biomedical diagnostics. Liedberg is also interacting strongly the bioanalytical industry in Sweden, and he was involved the early development of the optical detection system (surface plasmon resonance based) used in today's Biacore instrumentation for biospecific interaction analysis (currently sold by GE-Healthcare). He is also the co-founder and co-owner of two start ups operating in the diagnostic sector. Prof. Liedberg has been the supervisor of about 30 PhD students. He is the author and co-author of about 190 original scientific articles, book chapters and reviews. He has also served as guest editor and co-editor for several sensor- and surface science oriented Journals.

Liedberg is currently on a 7 months sabbatical (August 2009 - March 2010) at the School of Materials Science and Engineering, Nanyang Technological University (NTU), Singapore, where he is in charge of building up a new laboratory focusing on the next generation biomimetic biosensors. This mission is undertaken jointly with scientists from the Schools of Materials Science and Engineering and Biological Sciences at NTU, IMRE A*Star and DSO National Laboratories as well as with a group of scientists from the Austrian Institute of Technology (AIT), Vienna, Austria and Uppsala University, Sweden. Liedberg has a three year contract to establish a Centre for Biomimetic Sensor Science at NTU.

Date: 25 April 2013 (Thursday)

Time: 3:30pm

Venue: Room 1511 (Lift 27-28)

~~ All are welcome ~~