

The Chemical Engineering Department Presents:

Electrochemical Metamaterials: Scenarios navigated by theory

Professor Alexei Kornyshev
Imperial College, London



Friday, August 25, 2017
3:00pm, refreshments at 2:30pm
66-110

BIOGRAPHY:

Alexei A. Kornyshev is a Professor of Chemical Physics of Imperial College London (University of Science, Technology and Medicine), UK. His interests span widely in theoretical condensed matter chemical physics and its application to electrochemistry, nanoscience, biological physics and energy research. An author of >280 original, refereed papers published in physics and chemistry journals, and >30 monographic/feature articles and book-chapters, he is known by his works in the theory of solvation; solid-liquid and liquid-liquid electrochemical interfaces (including functionalized interfaces); electron and proton transfer in complex environment (including membranes and complex electrodes) and single molecules; physical theory of fuel cells; electrochemical optical and electromechanical metamaterials, ionic liquids and their applications, and DNA biophysics. He was a recipient of 1991 Humboldt Prize in Electrochemistry, 2003 Royal Society Wolfson Research Merit Award, 2003 Schönbein Contribution-to-science Medal, 2007 RSC J.Barker Electrochemistry Medal, RSC 2010 Interdisciplinary Prize, and 2017 Lynden-Bell Award. He is a Fellow of IUPAC, Institute of Physics, Royal Society of Chemistry, Royal Society of Biology, International Society of Electrochemistry, Foreign Member of the Royal Danish Academy of Science, and Advisory Professor at HUST, Wuhan, China. He leads the Chemical Physics Panel of *Scientific Reports*, and is a Board Member of *J. Physics Condensed Matter* and *Current Opinion in Electrochemistry*.