NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

School of Materials Science and Engineering

Seminar Topic:
Charges and Spins in Organic Charge Transfer Compounds

Professor Christian Kloc

Abstract

Each gram of an organic semicondutor typically contains about 1,000,000,000,000,000,000,000 (sextillion) electrons. The destiny of each electron is determined by its quantum numbers, spin, orbital shape, and nucleons among which this electron travels. In organic semiconducting compounds, the delocalized electrons are free to move along molecular orbitals or even hop to the orbitals of neighbouring molecules. This talk will discuss choices available to materials scientists to form materials in which the electron destiny is influenced by the researcher.

Biography

Until his retirement in 2017, Dr Christian Kloc was a Professor in the School of Materials Science and Engineering at Nanyang Technological University (NTU), Singapore. Before joining NTU in 2007, Dr Kloc worked in the Materials Research Department at Bell Labs, USA. He earned a degree in chemical engineering from the Technical University in Gliwice and PhD in physics from the Polish Academy of Science. Dr Kloc was a postdoctoral fellow at the University of Braunschweig and University of Konstanz in Germany. His research focuses on growing single crystals for the study of structure-property relations in organic and inorganic functional materials

Wednesday, 25 April 2018 ǁ Time: 2:00 pm – 3:00 pm
Venue: MSE Meeting Room (N4.1-01-28)
Hosted by: Associate Professor Li Shuzhou

Office of Associate Chair (Research)
Email: vd-mse@ntu.edu.sg
www.ntu.edu.sg/mse