



ISIS MINISYMPOSIUM 2010

Electron transfer and electronic transport

Electron transfer, or the act of moving an electron from one place to another, is amongst the simplest of chemical processes, yet certainly one of the most critical. The process of efficiently and controllably moving electrons around is one of the primary regulation mechanisms in biology. Without stringent control of electrons in living organisms, life could simply not exist. Electron transfer theory is a unifying factor in chemistry, promoting understanding of electron transfer reactions of biochemical, photochemical, inorganic and organic nature and thereby contributing to science as a whole. It is also on the basis of the electronics based on molecules, thereby laying the foundation for molecular and organic electronics. Because of this reason it has led to the development of many new research programs. The aim of the first ISIS minisymposium is to bring together experts in the field to discuss the recent advances in the realm of electron transfer and electronic transport.

INVITED SPEAKERS

Dr. John Miller (Brookhaven National Laboratory)

Prof. C. Daniel Frisbie (University of Minnesota)

Prof. Marcel Mayor (Basel and Karlsruhe)

Monday 17 May 2010

Location: Institut de Science et d'Ingénierie Supramoléculaires (ISIS), Université de Strasbourg
8 allée Gaspard Monge (Campus Esplanade), Strasbourg

Schedule

14.00 – 15.15 John Miller

*Charge Delocalization and Transport in Conjugated Molecules:
"Molecular Wires" for Photovoltaics?*

15.15 – 16.30 C. Daniel Frisbie

*Transition from Tunneling to Hopping Transport in Long,
Conjugated Molecular Wires Connected to Metals*

16.30 – 17.00 Coffee break

17.00 – 18.15 Marcel Mayor

*Molecules as Functional Units in Electronic Circuits:
From Structure/Property Correlations to New Integration Strategies*

18.15 - Wine and Bretzel

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