



Vrije
Universiteit
Brussel



Solvay Colloquium

“ORGANIC SEMICONDUCTORS: A NEW GENERATION OF MATERIALS FOR OPTO-ELECTRONIC DEVICES”

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Abstract



Conjugated organic oligomer and polymer materials are being increasingly considered for incorporation as active semiconductor elements in devices such as photo-voltaic (solar) cells, light-emitting diodes, or field-effects transistors.

In this presentation, we first illustrate some of the most promising applications of conjugated organic materials. We then describe the basic operation of a device such as an organic solar cell or light-emitting diode. In the last part, based on a molecular/microscopic standpoint, we discuss the various parameters that impact charge separation or charge-carrier mobilities in such devices and highlight the contributions of computational chemistry in the design of more efficient materials.

Tuesday 17 March 2009 at 16h00

COFFEE AND TEA WILL BE SERVED AT 15H45 IN FRONT OF THE SOLVAY ROOM

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