



University of Nova Gorica

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INVITATION

We are inviting you to the public lecture given by

Prof. Dr. Michael Grätzel

*(Professor and Director of the Laboratory of Photonics and Interfaces at the
Ecole Polytechnique Fédérale de Lausanne (EPFL))*

The Advent of Mesoscopic Solar Cells

*The lecture is a part of the »Scientific evenings« cycle of lectures
and will take place on **14 October 2010 at 8PM** at the mansion Zemono near Vipava.*

*The moderator will be dr. Guido Bratina,
professor for the field of physics at the University of Nova Gorica.*

Mimicking the principle of natural photosynthesis, dye sensitized mesoscopic solar cells (DSSCs) are the only photovoltaic system that accomplishes the separation of the optical absorption from charge generation and carrier transport by associating a sensitizer as light-absorbing material with a wide band gap semiconductor, of nanocrystalline morphology. The conversion efficiency of the DSSC has reached over 12 percent for laboratory cells and 9.5 % for modules. As commercial production has started the DSSC has become a viable contenders for large-scale future solar energy conversion systems on the bases of cost, efficiency, stability and feedstock availability as well as environmental compatibility.

Kindly invited!