



SOLAR QUEST

SEMINAR ANNOUNCEMENT

Dr. Markus F. Führer

Research Associate, Department of Physics
Imperial College London
London SW7 2AZ, UK

“CHARACTERISATION AND MODELLING OF QUANTUM WELL SOLAR CELLS”

DATE: Friday, December 10, 2010

TIME: 4:00 pm-5:30 pm

PLACE: Seminar Room A-502
CCR Building, 5F

ABSTRACT

The use of nanostructures such as quantum wells has been shown to provide further performance enhancements to high-efficiency III-V based solar cells by permitting sub-bandgap tuneable absorption. Suppression of radiative emission in compressed well layers causes a small but fundamental improvement.

Nanostructures present an ever-fertile ground for new solar-cell technologies, and improved understanding may even lead to functional intermediate band and hot-carrier devices. The study of quantum well solar cells requires analysis of data derived from experimental characterisation techniques using computational models. We are integrating various models developed at Imperial College into one extendable modelling framework.

Solar Quest Host: Assoc. Prof. Yoshitaka Okada, ext. 56501
Refreshments will be provided.

