



CtC • RCMS • IGER Seminar



“ New Materials for Hybrid Photovoltaics ”



Lecturer : Dr. Neil Robertson

(University of Edinburgh)

Date : Sat. 6th June 13:30 – 15:30

Place : SA321

Solid-state dye-sensitized solar cells (DSSC) have shown promise as a light-weight, flexible and easily-fabricated photovoltaic technology. Efficiencies however, remain lower than that of liquid-electrolyte DSSCs and new dyes and new hole-transport materials (HTM) are required to optimise these devices. Recently, perovskite solar cells, derived from similar structures and materials, have emerged as a new high-efficiency thin-film solar cell technology and these also require new HTMs with enhanced stability, charge mobility and lower cost. The talk will introduce the above hybrid solar cells and will describe the design, synthesis, characterisation and application of new dyes and HTMs.

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