

RSC/ERDF Lecture
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“Diverse Electronic Applications of Planar Metal Complexes”

Dr. Neil Robertson
Reader in Inorganic and Materials Chemistry,
The University of Edinburgh
neil.robertson@ed.ac.uk

Abstract: Solar cells, transistors and electrochromics are just some of the devices that can now be made using organic semiconductors as low-cost, light-weight, flexible alternatives to traditional semiconductors like silicon. Almost all of the electronically-delocalised building blocks for these however are purely organic molecules. Transition metals can introduce less-common properties such as ambipolar charge transport, low-energy light absorption and paramagnetic effects, however only a limited range of metal complexes have been studied in molecular semiconducting materials. The seminar will describe our recent studies in the synthesis, characterisation, thin-film deposition and device formation from electronically-delocalised, planar transition metal complexes

PRIFYSGOL BANGOR
BANGOR, GWYNEDD,
LL57 2DG

FFÔN: +44 (0)1248 382375/7
FFACS: +44 (0)1248 370528
EBOST: chemistry@bangor.ac.uk
Registered charity number: 1141565

BANGOR UNIVERSITY
BANGOR, GWYNEDD,
LL57 2DG

TEL: +44 (0)1248 382375/7
FAX: +44 (0)1248 370528
EMAIL: chemistry@bangor.ac.uk
Registered charity number: 1141565

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