



University of  
St Andrews

### Core-to-Core / Leverhulme Trust

## Fourth Joint Workshop on Organic Electronics of Highly-Correlated Molecular Systems - April 10-12 2016

Lower College Hall University of St Andrews

Monday, 11<sup>th</sup> April 2016

1000-1025hrs	Arrival/Registration	Coffee
1025-1140hrs	Morning Session 1	Chair: Derek Woollins
1025-1030hrs	Derek Woollins	Opening Remarks
1030-1110hrs	Ifor Samuel, University of St Andrews	Organic semiconductor optoelectronics
1110-1140hrs	Hirofumi Yoshikawa, Kwansei Gakuin University	Electrochemically controlled physical properties of metal oxides
1140-1210hrs	Coffee Break	
1210-1300hrs	Morning Session 2	Chair: Hirofumi Yoshikawa
1210-1240hrs	Jeremy Rawson, University of Windsor University, Canada	Oxidative addition reactions of tetrathiocins: Towards dyes and NLO materials
1240-1300hrs	Chihiro Nanjo, Nagoya University	Rest Potentials of Electrolyte Solutions and Threshold Voltages of Electric-Double-Layer Transistors
1300-1310hrs	Group Photograph of Workshop Participants	Peter Adamson, Photographer

<b>1310-1430hrs</b>	<b>Lunch Break with posters</b>	
<b>1430-1620hrs</b>	<b>Afternoon Session 1</b>	<b>Chair: Oleg Rakitin</b>
1430-1500hrs	Alan Aitken, University of St Andrews	Synthesis and properties of perfluorinated electroactive materials
1500-1520hrs	Lidia Konstantinova, Zelinsky Institute	Direct exchange of chalcogen atom to sulfur and selenium in chalcogen-nitrogen heterocycles
1520-1550hrs	Sandrine Heutz, Imperial College London	Exploiting spin and dipole moment in molecular thin films.
<b>1550-1620hrs</b>	<b>Coffee Break</b>	
<b>1620-1710hrs</b>	<b>Afternoon Session 2</b>	<b>Chair: Andreev Zibarev</b>
1620-1650hrs	Hugo Bronstein, UCL, London	Understanding and controlling excited states in conjugated polymers
1650-1710hrs	Michio M. Matsushita Nagoya University	New functional materials based on the symmetry-breaking of molecular structures and spin orientations

Tuesday, 12<sup>th</sup> April 2016

<b>0920-1110hrs</b>	<b>Morning Session 1</b> <b>Coffee</b>	<b>Chair: Jeremy Rawson</b>
0920-0950hrs	Takayoshi Nakamura, Hokkaido University	Magnetic and dielectric properties of Mn-Cr oxalate complexes with supramolecular cations
0950-1010hrs	Yassine Beldjoudi, Windsor University	Recent developments of photo-responsive radicals: from fluorescence to photo-switching
1010-1030hrs	Rupert Taylor, Strathclyde University	Tetrathiocine bridged oligothiophenes: novel materials for organic electronic applications
1030-1110hrs	Eli Zysman-Colman, University of St Andrews	Design of Thermally Activated Delayed Fluorescence Emitters for Electroluminescent Devices
<b>1110-1140hrs</b>	<b>Coffee Break</b>	
<b>1140-1310hrs</b>	<b>Morning Session 2</b>	<b>Chair: Neil Robertson</b>
1140-1200hrs	Yoshiaki Shuku, Nagoya University	Crystal structures and physical properties of transition metal complexes of stable radical anion ligands
1200-1230hrs	Pete Skabara, Strathclyde University	Band-gap tuning of organic semiconductor polymers through intrachain heteroatom interactions.
1230-1250hrs	Kazuyuki Sakamoto, Chiba University	Electron structure of Au nanoparticles

1250-1310hrs	Bela Bode, University of St Andrews	EPR methods of determining the distribution paramagnetic centres in solids
<b>1310-1430hrs</b>	<b>Lunch Break and posters</b>	
<b>1430-1620hrs</b>	<b>Afternoon Session 1</b>	<b>Chair: Sandrine Heutz</b>
1430-1450hrs	Michal Maciejczyk, Edinburgh University	New Low Cost Hole-Transport Materials for Efficient Perovskite Solar Cells
1450-1510hrs	Diego Rota Martir, University of St Andrews	Is Stereochemistry an Important Consideration in Solid-State Lighting Applications?
1510-1530hrs	Xin Zheng, Hokkaido University	Unique physical properties of a flexible one-dimensional porous copper complex containing bulky fluorinated anions
1530-1550hrs	Ekaterina Knyazeva, Zelinsky Institute	Design of new organic dyes for solar cells based on [1,2,5]selenadiazolo[3,4-c]pyridine
<b>1550-1620hrs</b>	<b>Coffee Break</b>	
<b>1620-1730hrs</b>	<b>Afternoon Session 2</b>	<b>Chair: Pete Skabara</b>
1620-1640hrs	Petr Kilian, University of St Andrews	Synthesis and reactivity of low valent Group 15 species
1640-1700hrs	Aruna Ivaturi, Edinburgh University	Donor-free” Oligomeric Dyes for Dye-Sensitised solar Cells
1700-1720hrs	Yukihiro Takahashi, Hokkaido University	Switching of Transfer Characteristics of an Organic Field-Effect Transistor by Phase Transitions

1720-1730hrs	Derek Woollins	Concluding Remarks
<b>1900hrs</b>	<b>Workshop Dinner</b>	<b>The Vine Leaf Restaurant, South Street, St Andrews</b>

<b>Posters</b>		
<b>Edinburgh</b>		
John	Mallows	P-Type NiO Hybrid Photodetector
<b>St Andrews</b>		
Guoxiong	Hua	Woollins' Reagent: A Versatile Reagent for Diverse Organic Synthesis'
Laurence	Taylor	Spontaneous Dehydrocoupling in Peri-Substituted Phosphine-Borane Adducts
Petr	Kilian	Spontaneous Dihydrogen Elimination Leading to an Isolable Arsanylidene-Phosphorane (presented on behalf of Brian Chalmers by Petr Kilian)
Liam	McGeachie	Thionylimino metal complexes
Phillip	Nejman	Structural Diversity in Bimetallic Rhodium and Iridium Dithiolato Complexes
Diego	Rota Martir	Exploring The Self-Assembly and The Energy Transfer of Dynamic Supramolecular Iridium-Porphyrin Systems
Amlan	Pal	Synthesis, Properties and LEEC Device Fabrication of cationic Ir(III) complexes Bearing Electron Withdrawing Aryl Ligands
Michael	Yin Wong	Novel TADF emitters for OLED applications
Claus	Hierlinger	Impact of the Use of Sterically Congested Cyclometalated Ligands on

		the Photoluminescent Properties of Iridium(III) Complexes
Stuart	Thomson	Magnetic resonance studies of organic solar cell materials
Nidhi	Sharma	Triplet harvesting in organic light-emitting diodes
Alan	Aitken	Unexpected Formation of Azatrithiapentalenes
Alan	Aitken	"Synthesis and Surface Science Studies of New TTF-Based Electron Donors", R. Alan Aitken, Siddharth J. Jethwa, Federico Grillo, Stephen M. Francis and Neville V. Richardson
<b>Strathclyde</b>		
Adam	Yeats	Germanium-centered cruciform oligothiophenes for use in organic photovoltaic devices.
<b>Nagoya</b>		
Yang	Wu	Covalent Organic Frameworks as Sulfur Hosts for Lithium–Sulfur Batteries
<b>Chiba</b>		
Jun	Nitta	Photoemission study on a spin-over complex
<b>Hokkaido</b>		
Takuro	Shimada	Band-like Carrier Transport at the Contact Interface between 2,5,- Difluoro-7,7,8,8-tetracyanoquinodimethane (F2TCNQ) and Electron Donor Single Crystals

## NOTES









