

Inorganic Photophysics and Photochemistry - Fundamentals and Applications: Dalton Discussion 13

Programme

10 - 12 September 2012
University of Sheffield, UK

Monday 10 September

12:00	Registration
12.30	Lunch in The Edge Bar
13:45	Welcome and Introduction by Professor Mike Ward (Conference Chair), <i>Sheffield University, UK</i>
Session 1	Solar energy Session Chair: Robin Perutz, <i>University of York, UK</i>
14:00 I1	A soluble and stable Ni-based water oxidation catalyst for solar fuel production Craig Hill*, Guibo Zhu, Elliot Glass, Chongchao Zhao, Hongjin Lv, James Vickers and Iouri Geletii <i>Emory University, USA</i>
14:10 C1	The role of bridging ligand in hydrogen generation by photocatalytic Ru/Pd assemblies Gurmeet. S. Bindra, Martin Schulz, Mary.T. Pryce, Avishek Paul, Robert Groarke, Suraj Soman, Jane Inglis, Wesley R. Browne, Michael Pfeffer, Sven Rau, Brian J. MacLean and Johannes. G. Vos * <i>Dublin City University, Republic of Ireland</i>
14:15 C2	A novel ruthenium(II)-cobaloxime supramolecular complex for photocatalytic H₂ evolution: Synthesis, characterisation, and mechanistic studies Anja Kohl, Donald Cropek, Astrid M. Müller, Harry B. Gray, Dorothy C. Horton, Toyketa Horne, Oleg Poluektov, David Tiede, Anja Metz, Ralph Weber, Jarrett William, Joshua Phillips and Alvin Holder* <i>University of Southern Mississippi, USA</i>
14:20	Discussion
15:30	Afternoon Tea
16:05 K1	Molecular systems for light driven hydrogen production Richard Eisenberg* and William Eckenhoff <i>University of Rochester, USA</i>
16:50 C3	Photolytic water oxidation catalyzed by a molecular carbene iridium complex Ana Petronilho, Mahfujur Rahman, James A. Woods, J. M. Don MacElroy, Stefan Bernhard, Haris Al-Sayyed, Helge Müller-Bunz and Martin Albrecht* <i>University College Dublin, Republic of Ireland</i>

16:55 C4	A mononuclear ruthenium complex showing multiple proton-coupled electron transfer toward multi-electron transfer reactions Shigeyuki Masaoka*, Masaya Okamura, Masaki Yoshida, Reiko Kuga, Ken Sakai and Mio Kondo <i>National Institutes of Natural Sciences, Japan</i>
17:00	Discussion
17:50	Close of Session
17:50 – 19:00	Poster Session and Wine Reception

Tuesday 11 September

Session 2	Electron and energy transfer Session Chair: Julia Weinstein, <i>University of Sheffield, UK (TBC)</i>
09:00 K2	On the interplay between the charge, the spin and the structural dynamics in transition metal complexes Majed Chergui <i>Ecole Polytechnique Fédérale de Lausanne, Switzerland</i>
09:45 C5	Photoinduced energy transfer processes in hybrid organic-inorganic multichromophoric arrays arranged on a truxene-based platform Andrea Barbieri* and Raymond Ziessel <i>Istituto per la Sintesi Organica e la Fotoreattività (ISOF), Italy</i>
09:50 C6	Photophysical properties of MM quadruply bonded complexes (M = Mo, W) supported by carboxylate ligands: charge delocalization and dynamics in S1 and T1 states Brian G. Alberding, Samantha E. Brown-Xu*, Malcolm H. Chisholm, Terry L. Gustafson, Carly R. Reed and Vesal Naseri <i>The Ohio State University, USA</i>
09:55	Discussion
10:45	Morning Coffee
11:20 I2	Ru-based donor-acceptor photosensitizer that retards charge recombination in a p-type dye-sensitized solar cell Jonathan Freys, James Gardner, Allison Brown, Luca d'Amario and Leif Hammarström* <i>Uppsala Universitet, Sweden</i>
11:30 C7	Encapsulating [FeFe]-hydrogenase model compounds in peptide hydrogels dramatically modifies stability and photochemistry Pim W JH M Frederix, Joseph A Wright, Rafal Kania, Rein V Uljin, Christopher J Pickett, Dimitrios Lamprou and Neil T Hunt* <i>University of Strathclyde, UK</i>
11:35 C8	Equilibrium, photophysical and photochemical examination of anionic lanthanum(III) mono- and bisporphyrins: the effects of the out-of-plane structure Otto Horvath <i>University of Pannonia, Hungary</i>
11:40	Discussion

12:50	Lunch/Posters
Session 3	Applications of strongly emissive complexes Session Chair: Steve Faulkner, <i>University of Oxford, UK (TBC)</i>
14:10 K3	Luminescent gels by self-assembling platinum complexes Luisa De Cola*, Naveen Allampally, Cristian Strassert <i>Westfälische Wilhelms-Universität Münster, Germany</i>
14:55 C9	Evaluation of quinoline as a remote sensitiser for red and near-infrared emissive lanthanide (III) ions in solution and solid state David J. Lewis, Federica Moretta, Alexander T. Holloway and Zoe Pikramenou* <i>University of Birmingham, UK</i>
15:00 C10	Silica sol-gel glasses incorporating dual-luminescent Yb quinolinolato complex: processing, emission and photosensitising properties of the 'antenna' ligand Flavia Artizzu*, Francesco Quochi, Maria Laura Mercuri, Angela Serpe, Andrea Mura, Giovanni Bongiovanni, Michele Saba, Danilo Loche and Paola Deplano <i>University of Cagliari, Italy</i>
15:05	Discussion
15:55	Afternoon Tea
16:30 I3	A chiral probe for the acute phase proteins alpha-1-acid glycoprotein and alpha-1-antitrypsin based on europium luminescence David Parker <i>Durham University, UK</i>
16:40 C11	Photophysical studies of CdTe quantum dots in the presence of a Zinc cationic porphyrin Páraic M. Keane, Shane A. Gallagher, Luis M. Magno, Miriam J. Leising, Ian P. Clark, Gregory M. Greetham, Michael Towrie, Yurii K. Gun'ko, John M. Kelly and Susan J. Quinn* <i>University College Dublin, Republic of Ireland</i>
16:45 C12	The first structural and spectroscopic study of a paramagnetic 5f DO3A complex L.S. Natrajan <i>University of Manchester, UK</i>
16:50	Discussion
18:00	Close of Session
19:30	Pre-dinner drinks
20:00	Conference dinner

Wednesday 12 September

Session 4	Bond breaking and isomerisation Session Chair: Prof. Mike George, <i>University of Nottingham, UK (TBC)</i>
08:50	Poster Prize
09:00 K4	Quantum dot photosensitizers. interactions with transition metal centers Peter Burks and Peter Ford* <i>University of California, Santa Barbara, USA</i>
09:45 C13	Photoactivated linkage isomerism in single crystals of nickel, palladium and platinum di-nitro complexes – a photocrystallographic investigation Mark R. Warren, Simon K. Brayshaw, Lauren E. Hatcher, Andrew L. Johnson, Stefanie Schiffrers, Anna J. Warren, Simon J. Teat, John E. Warren, Christopher H. Woodall and Paul R Raithby* <i>University of Bath, UK</i>
09:50 C14	Photo-induced oxidation of [FeII(N4Py)CH3CN] and related complexes Apparao Draksharapu, Qian Li, Gerard Roelfes and Wesley R. Browne* <i>University of Groningen, The Netherlands</i>
09:55	Discussion
10:45	Morning Coffee
11:20 I4	Inorganic photoisomerization: the case study of Rhenium(I) complexes Chantal Daniel*, Megumi Kayanuma and Etienne Gindensperger <i>Université Strasbourg, France</i>
11:30 C15	P=P bond photophysics in Ar-P=P-Ar diphosphene Huo-Lei Peng, John L. Payton, John D. Protasiewicz and Cather Simpson* <i>University of Auckland, New Zealand</i>
11:35 C16	Photophysical properties of iminopyrrolyl boron complexes: a DFT interpretation Maria José Calhorda*, D. Suresh, Pedro T. Gomes, Roberto E. Di Paolo and António L. Maçanita <i>Universidade de Lisboa, Portugal</i>
11:40	Discussion
12:50	Acknowledgements
13:00	Close of meeting