

PROGRAMME

Sunday, 9th July

Location: Oxford Museum of Natural History, Parks Road

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| 18.00 | Opening Lecture: Professor Harry B. Gray, California Institute of Technology |
| 19.00 – 21.00 | Welcome reception |

All sessions from Monday to Friday will be held in St. Catherine's College

Monday, 10th July

8.55 *Welcome and Opening Remarks*

Session 1. Chair: James McCusker

9.00 – 9.45 **PL1** Spin-Crossover Dynamics: from fs to Gs
Andreas Hauser

9.45 – 10.10 **IL1** Ultrafast X-ray Laser Studies of Electronic Excited States in 3d Metal Complexes
Kelly J. Gaffney

10.10 – 10.30 **O1** Directly Probing Femtosecond Spin Dynamics in a Molecular Magnet
Olof Johansson, Ji-Wan Kim, Emily Allwright, David M. Rogers, Neil Robertson, Jean-Yves Bigot

10.30 – 11.10 Coffee, posters and exhibition browsing, Junior Common Room

Session 2. Chairs: Atsushi Kobayashi and Lydia Petermann

11.10 – 11.35 **IL2** Mechanistic Aspects of Hydrogen Generation from W Carbonyls and Os Hydrides
Russell Schmehl

11.35 – 11.55 **O2** Photocatalytic CO₂ Reduction Using Cu, Fe and Mn Complexes
Hiroyuki Takeda, Hiroki Koizumi, Hiroko Kamiyama, Yutaka Suzuki, Yu Monma, Toshihide Mizutani, Osamu Ishitani

11.55 – 12.15 **O3** Heterodinuclear Complexes Comprising a Porphyrin Photosensitizer for Photochemical CO₂ Reduction
Corinna Matlachowski, Philipp Lang, Matthias Schwalbe

12.15 – 12.35 **O4** Radically Improved Iron Carbene Photosensitizers
Pavel Chabera, Lisa Fredin, Reiner Lomoth, Villy Sundström, Kenneth Wärnmark, Petter Persson

12.35 – 12.50 **ST1** Photoinduced Guanine Oxidation in Telomeres by Dinuclear Ruthenium(II) polypyridyl complexes
Stuart A. Archer, Ahtasham Rasa, James A. Thomas

LUNCH at the College for all registered participants

Session 3. Chair: Anthony Parker

14.00 – 14.45 **PL2** Optical and Core-level Spectroscopic Studies of the Ultrafast Photophysics and Photochemistry of Metal Complexes
Majed Chergui

14.45 – 15.10 **IL3** Luminescent Cr(0), Mo(0) and Ni(0) Isocyanide Chelate Complexes and Their Applications
Oliver Wenger

15.10-15.30 **O5** Ultrafast Tabletop XUV absorption Spectroscopy of Transition Metal Complexes
Josh Vura-Weis

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15.30 – 16.10 Coffee, posters and exhibition browsing

Session 4. Chair: Garry Hanan

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- 16.10 – 16.35 **IL4** Metalloporphyrins for Photocatalysis
Zeev Gross, Atif Mahammed
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- 16.35-16.55 **O6** Transient spectroscopic studies of enantiomerically-resolved intercalating photo-oxidising or imaging ruthenium dipyridophenazine (dppz) complexes bound to defined sequence DNA
John M. Kelly, Páraic M. Keane, Fergus Poynton, Thorfinnur Gunnlaugsson, James Hall, Christine Cardin, Igor Sazanovich, Michael Towrie, Susan J. Quinn, Conor Long
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- 16.55 – 17.15 **O7** Understanding and Exploiting Long-lived NIR Emissive Chromium Complexes
Sven Otto, Markus Grabolle, Ute Resch-Genger, Christoph Förster, Stefan Lochbrunner, Katja Heinze
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- 17.15-17.35 **O8** Aggregation-induced Energy Transfer in a Decanuclear Ru(II)/Os(II) Polypyridine Dendrimer
Fausto Puntoriero, Antonino Arrigo, Giuseppina La Ganga, Sebastiano Campagna, Max Burian, Sigrid Bernstorff, Heinz Amenitsch
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- 17.35-17.50 Chair: Mike George
Presentations from sponsors: Innolas, Light Conversion, Spectroelectrochemistry Reading
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- 17.50-17.55 Intermission
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- 17.55 – onwards Chair: Harry Gray
Poster flash presentations, ODD poster numbers
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- 19.00 – 20.00 Dinner at the College for dinner ticket holders
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- 20.00 – 23.00 Poster session, ODD poster numbers. Exhibition. Wine, beer, water, nibbles
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Tuesday, 11th July

Session 5. Chair: Masa-aki Haga

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- 9.00 – 9.45 **PL3** Photoexcited Radical Anion Super-Reductants for Solar Fuels Catalysis
Michael R. Wasielewski
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- 9.45 – 10.10 **IL5** Understanding Excited State Dynamics - a Prerequisite for Efficient Solar Energy Conversion. *Maria Abrahamsson*
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- 10.10 – 10.30 **O9** Ultrafast Dynamics of a Magnetically Bi-stable Azopyridine-functionalized Ni-Porphyrin Spin Switch
Sebastian Megow, Julia Bahrenburg, Hendrik Böhnke, Mats Bohnsack, Mark Dittner, Dennis Bank, Rebecca Marschan, Marcel Dommaschk, Christian Schütt, Rainer Herge, Friedrich Temps
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10.30 – 11.10 Coffee, posters and exhibition browsing

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Tuesday, 11th July, continued

Session 6. Chair: Yun Chi

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- 11.10 – 11.35 **IL6** Cyclometalated-pentafluorophenyl Pt^{II} units as Synthons for Luminescent Pt^{IV} and Heterometallic Complexes
Maria Teresa Moreno
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- 11.35 – 11.55 **O10** Photoinduced Charge Separation and Recombination in Ir-, Pd- and Pt-Dipyrrin Complexes
Christoph Lambert, Stefan Riese, Johannes Klein, Ulrich Steiner
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- 11.55 – 12.15 **O11** Ultrafast X-ray spectroscopy of transition metal compounds relevant for catalysis: a study case of a high-valent Fe complex
Wojciech Gawelda, Tadesse Assefa, Alexander Britz, Michael Diez, Andreas Galler, Dmitry Khakhulin, Joel Torres-Alacan, Peter Vöhringer, Christian Bressler
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- 12.15-12.35 **O12** Laser Pump-NMR Probe of Hyperpolarised Metal Hydrides
Robin N. Perutz, Simon Duckett, Meghan Halse, Barbara Procacci, Marta Rosello-Merino
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- 12.35 – 12.50 **ST2** An investigation of the Excited State Properties of a Series of [Re(L)(CO)₃(phen-TPA)]ⁿ⁺ Complexes
Georgina Shillito, Thomas Hall, Nigel Lucas, Stephan Kupfer, Keith Gordon

LUNCH at the College for all registered participants

Session 7. Chair: Phil Castellano

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- 14.00 – 14.45 **PL4** Using Multidimensional Optical Spectroscopy to Understand Photocatalysis Dynamics and Mechanism
Laura M. Kiefer, **Kevin J. Kubarych**
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- 14.45 – 15.10 **IL7** Application of Pulse Radiolysis with Infrared Detection for the Study of Mechanisms of Photo- and Electrocatalysis
David C. Grills
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- 15.10 – 15.30 **O13** Ultrafast Pump-probe and 2D-IR Spectroscopy Reveal the Photochemistry and Dynamics of Encapsulated [FeFe]-Hydrogenase Sub-site Analogues
Robby Fritsch, Pim Frederix, Joseph Wright, Rein Ulijn, Chris Pickett, Neil Hunt

15.30 – 16.10 Coffee, posters and exhibition browsing

Session 8. Chair: Tony Vlček

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- 16.10 – 16.35 **IL8** Excited State Coordination Chemistry at TiO₂ Interfaces
Renato N. Sampaio, Eric J. Piechota, Ludovic Troian-Gautier, Gerald J. Meyer
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- 16.35 – 16.55 **O14** Vibrational Control of Electron Transfer
Spiros S. Skourtis
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- 16.55 – 17.15 **O15** Understanding Vibrational Control of Electron Transfer in Coordination Compounds
Theo Keane, Milan Delor, Paul Scattergood, Stuart A. Archer, Mike Towrie, Igor Sazanovich, Anthony Parker, Anthony J. H. M. Meijer, Julia A. Weinstein
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- 17.15 – 17.35 **O16** A clogged drain in the excited state landscape of an artificial photosynthetic antenna hinders photoinduced energy transfer
Joachim Kübel, Maria Wächtler, Benjamin Dietzek
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| 17.35 – 17.50 | ST3 | Ultrafast direct dynamics simulations of transition metal complexes for solar energy conversion <i>Gianluca Levi, Asmus O. Dohn, Niels E. Henriksen, Klaus B. Møller</i> |
| 17.50 – 17.55 | Intermission | |
| 17.55 – onwards | <i>Chairs: Peter Ford and Randolph Thummel</i> Poster flash presentations, EVEN numbers | |
| GROUP PHOTO | | |
| 19.00 – 20.00 | Dinner at the College for dinner ticket holders | |
| 20.00 – 23.00 | Poster session, EVEN poster numbers. Exhibition. Wine, beer, water, nibbles | |
| Wednesday, July 12th | | |
| <i>Session 9. Chair: Isabelle Dixon</i> | | |
| 9.00 – 9.45 | PL5 | Excited states, Solvation Effects and Ultrafast Nonadiabatic Dynamics of Transition Metal Complexes <i>Leticia González</i> |
| 9.45 – 10.10 | IL9 | Synergy between Theory and Experiment: Understanding using Full Dimensional Quantum Dynamics and First Principles Models <i>Thomas Penfold</i> |
| 10.10 – 10.30 | O17 | Ultrafast Excited-State Decays in $[\text{Re}(\text{CO})_3(\text{NN})(\text{L})]^{n+}$: Non-Adiabatic Quantum Dynamics <i>Maria Fumanal, Etienne Gindensperger, Chantal Daniel</i> |
| 10.30 – 11.10 | Coffee, posters and exhibition browsing | |
| <i>Session 10. Chairs: Chantal Daniel, Eimer Tuite</i> | | |
| 11.10 – 11.55 | PL6 | Brightly Luminescent Metal Complexes: From OLEDs to Time-resolved Bio-imaging and Photodynamic Therapy <i>Gareth Williams, Helen Bryant, L. Murphy, G. Freeman, M. Bonneau, M. Cocchi, V. Fattori, S. Botchway, I. Sazanovich, L. McKenzie, J. Shewring, E. Edwards, J. Weinstein</i> |
| 11.55 – 12.15 | O18 | Fluorescence Bioimaging of Ascorbic Acid: Silicon Phthalocyanine Covalently Linked to two TEMPO Radicals. <i>Kazuyuki Ishii, Takanori Yokoi</i> |
| 12.15 – 12.35 | O19 | Photophysical properties of 5-substituted-1,10-phenanthroline ligand and related Ru(II) complexes <i>Sylviane Chevreux, Gilles Lemerrier</i> |
| 12.35 – 13.00 | IL10 | Lanthanide Complexes Enabling Spectral and Temporal Resolution in Biphotonic Imaging Microscopy <i>Anh-Thy Bui, Chantal Andraud, Olivier Maury</i> |
| 13.00 – 14.00 | Lunch served at the College for the delegates who do not join Blenheim Palace excursion | |
| 13.30 – 18.00 | Excursion to Blenheim Palace. Packed lunch included. Buses leave promptly at 13.30 from St. Catherine's College reception area. Or Visit to Rutherford Appleton Laboratory and Diamond Light Source | |
| 19.00 – 20.00 | Dinner in the college for dinner ticket holders | |
| 20.00 – 23.00 | Poster session, all posters. Exhibition. Wine, beer, water, nibbles | |

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Thursday, 13th July

Session 11. Chairs: Mike Towrie, Elizabeth Gibson

9.00 – 9.45 **PL7** Femtosecond Nuclear Dynamics of Photo-Induced Structural Changes of Metal Complexes
Tahei Tahara

9.45 – 10.10 **IL11** Molecular and Bioinspired Approaches to Solar Fuels
Leif Hammarström

10.10 – 10.30 **O20** Retrieving the Invisible Signal: the Non-exponential Behaviour of Metal-Based Porphyrins
Liam C. Banerji, Adrien A. P. Chauvet

10.30 – 11.10 Coffee, poster and exhibition browsing

Session 12. Chair: Keith Gordon

11.10 – 11.35 **IL12** Metal Complexes as Photosensitizers in Photodynamic Therapy
Gilles Gasser

11.35 – 11.55 **O21** Selective Ion-Binding Properties of Rhodamine-Transition Metal Bichromophoric Hybrid and Novel Rhodamine Derivatives
Keith Man-Chung Wong

11.55 – 12.15 **O22** Donor- π -bridge-acceptor Complexes with Titanocene Acceptors: Relevance to DSSCs, blue Sapphire, and Moon Rocks
Michael Turlington, Jared Pienkos, Alexis Myers, Noah Vieira, A. Danai Agakidou, Carl Trindle, Zikri Altun, Paul Wagenknecht

12.15-12.35 **O23** Photophysics and Photochemistry of Complexes with Conjugated Ligands containing Sulfur-based Functional Groups
Christopher Brown, Peter Christensen, Mitchell Kitt, Taylor Wright, Michael Wolf

12.35 – 12.50 **ST4** Ruthenium and Osmium Based Light Harvesting Complexes with Terpyridyl-Imidazole Ligands: Modulation of Properties with Anions and Cations
Sujoy Baitalik

LUNCH at the College for all registered participants

Session 13. Chair: Wei Lu

14.00 – 14.45 **PL8** Coordination Compounds, Light and Information. Towards Future Sensing and Computing Paradigms
Andrzej Blachecki, Michał Kawa, Krzysztof Mech, Maria Lis, Kacper Pilarczyk, Maciej Suhecki, Ewelina Właźlak, Zoran Konkoli, Konrad Szaciłowski

14.45 – 15.10 **IL13** Luminescent Organometallic Complexes for Life Science
Max Massi

15.10 – 15.30 **O24** Primary Photophysical and Photochemical Processes for Pt(IV) Complexes Prospective in PDT
Anton Shushakov, Ivan Pozdnyakov, Victor Plyusnin, Danila Vasilchenko, Andrey Zadesenets, Alexey Melnikov, Evgeni Glebov

15.30 – 16.10 Coffee, posters and exhibition browsing

PROGRAMME

Thursday, 13th July, continued

Session 14. Chair: Louise Natrajan, Osamu Ishitani

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| 16.10 – 16.35 | IL14 | Homochiral Emissive [Ir ₈ Pd ₄] ¹⁶⁺ Coordination Cages <i>Eli Zysman-Colman</i> |
| 16.35 – 16.55 | O25 | Extraordinary photochemistry of Ru(II) and Os(II) triazole-based complexes <i>Paul Scattergood, Daniel Ross, Jean-Louis Heully, Fabienne Alary, Isabelle Dixon, Paul Elliott</i> |
| 16.55 – 17.15 | O26 | Photophysics and Photocatalysis of Luminescent Rhenium(I) Diimine Carbene and Isocyanide Complexes <i>Vincent Chi-Chiu Ko</i> |
| 17.15 – 17.35 | O27 | Trackable Fluorescent CO Releasing Molecules <i>Suzanne McMahon, Natasha Donnelly, Paul Kelly, Niall Barron, Gregory Greetham, Michael Towrie, Conor Long, Mary Pryce</i> |
| 17.35 – 17.55 | O28 | Molecular Photocatalysts for Solar Water Splitting <i>Ken Sakai</i> |
| 18.00 – 19.00 | | Posters and exhibition |
| 19.30 - | | <i>Conference Banquet for ticket holders. Balliol College</i> |

Friday, July 14th

Session 15. Chair: Mark Thompson

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| 9.00 – 9.25 | IL15 | Photoactivatable Cytotoxic Agents and Bio-orthogonal Probes Derived from Rhenium(I), Ruthenium(II), and Iridium(III) Complexes <i>Kenneth K.-W. Lo</i> |
| 9.25 – 9.45 | O29 | Photo-responsive materials using metal-coordination chemistry <i>Alexis D. Ostrowski</i> |
| 9.45 – 10.05 | O30 | Self-Sensitized Photocatalytic Degradation of Colorless Organic Pollutants Forming Surface Ti(IV) Complexes <i>Wojciech Macyk</i> |
| 10.05 – 10.25 | O31 | Using Infinitesimally Weak Intermolecular Interactions to Boost DSSC Photovoltages <i>Curtis P. Berlinguette</i> |
| 10.25 – 11.00 | | Coffee and posters |

Session 16. Chair: Sebastiano Campagna

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| 11.00 – 11.45 | PL9 | Dye-Doped Silica Luminescent Silica Nanoparticles for Nanomedicine <i>Luca Prodi, Damiano Genovese, Sagar Kesarkar, Massimo Marcaccio, Francesco Paolucci, Enrico Rampazzo, Giovanni Valenti, Nelsi Zaccheroni</i> |
| 11.45 – 11.55 | | Poster prizes |
| 11.55 – 12.00 | | Next conference announcement |
| 12.00 – 12.01 | | Closing remarks |

Optional: Visit to Rutherford Appleton Laboratory and Diamond Light Source