8th UK-Japan Catalysis Meeting

25 September, 2024 – Obaku Plaza Kihada Hall, Uji Campus, Kyoto University

09:45-10:30 Reception

10:30-10:45 Welcome – Prof. Takashi Ooi

Chair – Prof. Takashi Ooi

10:45-11:10 **Lecture 1（L1: Prof. Darren Dixon）**
”Catalyst Control in Complex Molecule Synthesis”

11:10-11:35 **Lecture 2（L2: Prof. Hirohisa Ohmiya）**
“Radical Catalysis”

11:35-12:00 **Lecture 3（L3: Prof. Martin Smith）**
“New Directions in Energy Transfer Photocatalysis”

12:00-13:15 Lunch break

Chair – Prof. Darren Dixon

13:15-13:30 **Lecture Y1（Y1: Prof. Naoki Shida）**
“The Electrolyte is a Catalyst: Electrochemical Multielectron Oxidation of Thiophene-derivatives via Anion-Coordination”

13:30-13:45 **Lecture Y2（Y2: Prof. Koji Kubota）**
“Mechanoredox: Force-Induced Charge Transfer Catalysis”

13:45-14:10 **Lecture 4（L4: Prof. Masahiro Terada）**
“Computational Molecular Refinement to Enhance Enantioselectivity by Reinforcing Hydrogen Bonds”

14:10-14:35 **Lecture 5（L5: Prof. Allan Watson）**
“A polarity mis-matched photocatalytic cross-coupling”

14:35 Group photo

14:35-15:50 Coffee break and Poster session

Chair – Prof. Masahiro Terada

15:50-16:15 **Lecture 6（L6: Prof. Keiji Maruoka）**
"Design of HAT Catalysts for Late-Stage Functionalization"

16:15-16:40 **Lecture 7（L7: Prof. John Bower）**
"Heterocyclizations and Cross-Couplings Enabled by Stereocontrolled Alkene Functionalization"

16:40-17:05 **Lecture 8（L8: Prof. Motomu Kanai）**
"Catalytic Asymmetric Synthesis of 1,3-Polyols from Scratch"

17:05-17:30 **Lecture 9（L9: Prof. Jonathan Burton）**
"Are Allyl Oxonium Ions Plausible Biosynthetic Intermediates? Oxonium Ions, Total Synthesis and Structure Determination"

18:00- Mixer (@Cafe restaurant Kihada)

26 September, 2024 – Obaku Plaza Kihada Hall, Uji Campus, Kyoto University

Chair – Prof. Michael Willis

9:30-9:55 **Lecture 10（L10: Prof. Shigeki Matsunaga）**
"Development of Chiral Catalysts for Asymmetric C-H Functionalization"

9:55-10:20 **Lecture 11（L11: Prof. Jonathan Clayden）**
"Biocatalytic Reaction Networks for Dynamic Deracemization and Directional Rotation"

10:20-10:40 Coffee break

Chair – Prof. Motomu Kanai

10:40-11:05 **Lecture 12（L12: Prof. Mio Kondo）**
"Development of Artificial Catalytic Systems Inspired by Natural Photosynthesis"

11:05-11:30 **Lecture 13（L13: Prof. Susannah Coote）**
"Photocyclizations as Enabling Atom-Economical Synthetic Transformations"

11:30-11:55 **Lecture 14（L14: Prof. Jun Takaya）**
"Unveiling the Photoreactivity of Frustrated Lewis Pairs"

11:55-13:25 Lunch break

Chair – Prof. Martin Smith

13:25-13:40 **Lecture Y3（Y3: Prof. Takuya Kodama）**
"Syntheses and Reactivities of Metallylenes Bearing a Phenalenyl-Based Bidentate Ligand"

13:40-13:55 **Lecture Y4（Y4: Prof. Yuki Nagashima）**
"Organic Photoreactions Utilizing Electropositive Elements"

13:55-14:20 **Lecture 15（L15: Prof. Rebecca Goss）**
"PRecIsion Molecule EDiting (PRIMED for Diversification)"

14:20-14:45 **Lecture 16（L16: Prof. Naoki Ishida）**
"Dehydrogenative Coupling with Liberation of H_2"

14:45-15:15 Coffee break

Chair – Prof. Hirohisa Ohmiya

15:15-15:40 **Lecture 17（L17: Prof. Kei Murakami）**
"Harnessing catalytic synthesis of nitrogen-containing molecules and plant chemical biology"

15:40-16:05 **Lecture 18（L18: Prof. Michael Willis）**
"New catalytic reactions for and with sulfur functional groups"

16:05-16:30 **Lecture 19（L19: Prof. Takashi Ooi）**
"Development of Multifunctional Photocatalysts"

16:30-16:50 Close（Prof. Darren Dixon）