

# 4<sup>th</sup> UK/Japan Conference in Catalytic Asymmetric Synthesis

Sendai International Centre, 19<sup>th</sup>- 20<sup>th</sup> April, 2013

Program

**Fri. 19/Apr./2013**

**9:30-9:40 Introduction Tsutomu Katsuki**

Chaired by Tsutomu Katsuki

**9:40-10:15 L1 Michael Willis (University of Oxford)**  
Reactivity and Selectivity in Rhodium-Catalysed Intermolecular Hydroacylation Reactions

**10:15-10:50 L2 Motomu Kanai (The University of Tokyo)**  
Asymmetric C–C Bond-Formations Promoted by Cu(I)-Conjugated Brønsted Base Catalysts

**10:50-11:10 Break**

Chaired by Darren Dixon

**11:10-11:45 L3 Jim Anderson (University College London)**  
New Heterocycles using 1,2-Diamines from Asymmetric Nitro-Mannich Reactions

**11:45-12:20 L4 Masamichi Ogasawara (Hokkaido University)**  
Catalytic Asymmetric Synthesis of Planar-Chiral ( $\pi$ -Arene)chromium Complexes

**12:20-13:30 Lunch**

Chaired by Masahiro Terada

**13:30-14:05 L5 Nicholas Turner (University of Manchester)**  
Design and Evolution of New Biocatalysts for Organic Synthesis

**14:05-14:40 L6 Hajime Ito (Hokkaido University)**  
Formal Nucleophilic Boryl Substitution of Alkyl- and Aryl Halides in the Presence of Copper(I) Catalyst or Base Promoter

**14:40-15:15 L7 Matthew Gaunt (University of Cambridge)**  
Catalysis with High Oxidation State Organometallics

**15:15-16:45 Poster Presentation**

Chaired by Keiji Maruoka

**16:45-17:20 L8 Yujiro Hayashi (Tohoku University)**  
Three "One-Pot" Synthesis of Prostaglandin E1 Methyl Ester via Organocatalyst

**17:20-17:55 L9 Martin Smith (University of Oxford)**  
Cation-directed Asymmetric Cyclization Reactions

**17:55-18:30 L10 Tsutomu Katsuki (Kyushu University)**  
Asymmetric C-H Bond Amination

**19:00 Banquet at Ark Hotel Sendai 2F Restaurant 'Sweet Pole'**

**Sat. 20/Apr./2013**

Chaired by Masahiro Terada

**9:00- 9:35 L11 David J. Procter (University of Manchester)**  
From Copper-catalyzed Asymmetric Silyl Transfer to Radical Cyclization Cascades: New Methods for Target Synthesis

**9:35-10:10 L12 Ken Tanaka (Tokyo University of Agriculture and Technology)**  
Enantioselective Synthesis of Planar Chiral Cyclophanes by Rhodium-catalyzed [2+2+2] Cycloaddition

**10:10-10:30 Break**

Chaired by Yujiro Hayashi

**10:30-11:05 L13 Véronique Gouverneur (University of Oxford)**  
Catalytic Fluorination and Trifluoromethylation

**11:05-11:40 L14 Takashi Ooi (Nagoya University)**  
Ion-Paired Chiral Ligands for Asymmetric Palladium Catalysis

**11:40-13:00 Lunch**

Chaired by Kazuaki Ishihara

**13:00-13:35 L15 Igor Larossa (Queen Mary, University of London)**  
Au, Ag, and Pd in C–H Activation: Controlling Reactivity and Selectivity

**13:35-14:10 L16 Masahiro Terada (Tohoku University)**  
Chiral Anion Catalysis in Enantioselective Transformation of Carbocation Intermediates

**14:10-14:45 L17 Stephen P. Fletcher (University of Oxford)**  
Alkenes as Alkyl-metal Equivalents in Catalytic Asymmetric 1,4-Additions to Cyclic Enones

**14:45-15:05 Break**

Chaired by Michael Willis

**15:05-15:40 L18 Kazuaki Ishihara (Nagoya University)**  
Rational Design of Chiral Supramolecular Catalysts

**15:40-16:15 L19 Darren J. Dixon (University of Oxford)**  
Enantioselective Cooperative Catalysis and Complexity Building Reaction Cascades in Library and Natural Product Synthesis

**16:15-16:50 L20 Keiji Maruoka (Kyoto University)**  
Advantage of Chiral Biaryl-Based sec-Amino Organocatalysts over Prolines in Asymmetric Enamine Catalysis

**16:50-17:00 Closing Remarks Michael Willis & Keiji Maruoka**  
Close of Conference

**18:00-20:00 Speaker's Dinner at Japanese Restaurant 'Kiraku-tei'**