

Scientific program for

## The 1st Sino-Japanese Symposium on Catalysis for Precision Synthesis

May 27<sup>th</sup> – May 30<sup>th</sup> 2018, Shanghai

Venue: Lecture Hall, 1<sup>st</sup> floor, Junmou Building, SIOC, 345 Lingling Lu, Shanghai

May 27<sup>th</sup> (Sun)

14:00 –	Registration
18:00 –	Reception (Lee Gardens Hotel)

May 28<sup>th</sup> (Mon)

8:40 – 8:50	Opening Remarks (Prof. Shu-Li You & Prof. Yoshiaki Nakao)
Session 1 Chairperson Prof. Peng Wang (SIOC)	
8:50 – 9:15	IL-1 Prof. Shu-Li You (SIOC) <i>Title: Recent Progress on Transition-Metal-Catalyzed Asymmetric Allylic Dearomatization Reactions</i>
9:15 – 9:40	IL-2 Prof. Yoshiaki Nakao (Kyoto University) <i>Title: Cooperative Metal Catalysis for Efficient Organic Synthesis</i>
9:40 – 10:05	IL-3 Prof. Tian-Sheng Mei (SIOC) <i>Title: When transition-metal catalysis meets electrochemistry</i>
10:05 – 10:35	Coffee Break & Group Photo
Session 2 Chairperson Prof. Zhipeng Zhang (East China University of Science and Technology)	
10:35 – 11:00	IL-4 Prof. Shigeki Matsunaga (Hokkaido University) <i>Title: Unique Reactivity and Selectivity of Cp*Co(III) Catalysis in C–H Bond Functionalization</i>
11:00 – 11:25	IL-5 Prof. Zaozao Qiu (SIOC) <i>Title: Enantioselective Synthesis of Chiral-at-Cage o-Carboranes via Pd-Catalyzed Asymmetric B–H Substitution</i>
11:25 – 11:50	IL-6 Prof. Itaru Nakamura (Tohoku University) <i>Title: Recent Progress in Catalytic Skeletal Rearrangement Reactions</i>
11:50 –	Lunch
Session 3 Chairperson Prof. Yifeng Chen (East China University of Science and Technology)	
14:00 – 14:25	IL-7 Prof. Xue-Long Hou (SIOC) <i>Title: Sonata of the Reactions of Nucleophiles with Pd <math>\pi</math>-Allyl Complexes</i>
14:25 – 14:50	IL-8 Prof. Jun Takaya (Tokyo Institute of Technology) <i>Title: Exploring New Transition Metal Catalysis Utilizing Rationally Designed Metalloligands</i>
14:50 – 15:15	IL-9 Prof. Guozhu Zhang (SIOC) <i>Title: Rhodium(I)-catalyzed asymmetric transformation of cyclobutanols</i>
15:15 – 15:35	Coffee Break
Session 4 Chairperson Prof. Kaiwu Dong (East China Normal University)	
15:35 – 16:00	IL-10 Prof. Hideki Yorimitsu (Kyoto University) <i>Title: Aromatic Metamorphosis</i>

16:00 – 16:25	IL-11 Prof. Chen-Guo Feng (SIOC/Shanghai University of Traditional Chinese Medicine) <i>Title: Aryl to Vinylic 1,4-Palladium Migration</i>
16:25 – 16:50	IL-12 Prof. Mamoru Tobisu (Osaka University) <i>Title: Nickel-Mediated Decarbonylation of Simple Ketones</i>
16:50 –	Banquet (Shanghai Min)

May 29<sup>th</sup> (Tue)

Session 5 Chairperson Prof. Miao Hong (SIOC)	
8:40 – 9:05	IL-13 Prof. Guosheng Liu (SIOC) <i>Title: Enantioselective Cyanation and Arylation of Benzylic C–H bonds</i>
9:05 – 9:30	IL-14 Prof. Tatsuya Uchida (Kyushu University) <i>Title: Site-selective Asymmetric C–H Bond Functionalization</i>
9:30 – 9:55	IL-15 Prof. Junliang Zhang (Fudan University) <i>Title: Design, synthesis and application of Novel Chiral phosphines</i>
9:55 – 10:20	IL-16 Prof. Takuya Kochi (Keio University) <i>Title: Chain Walking as an Innovative Strategy for Functionalization of Organic Molecules</i>
10:20 – 10:40	Coffee Break
Session 6 Chairperson Prof. Ping Lu (Fudan University)	
10:40 – 11:05	IL-17 Prof. Liang Deng (SIOC) <i>Title: Dinitrogen Activation by Low-Valent Iron- and Cobalt-NHC Complexes</i>
11:05 – 11:30	IL-18 Prof. Junichiro Yamaguchi (Waseda University) <i>Title: Decarbonylative Transformation of Aromatic Esters</i>
11:30 – 11:55	IL-19 Prof. Yaofeng Chen (SIOC) <i>Title: Rare-earth Metal Imido and Alkylidene Complexes: Synthesis, Structure and Reactivity</i>
11:55 –	Lunch
13:00 – 14:30	Poster Session
Session 7 Chairperson Prof. Qing Gu (SIOC)	
14:30 – 14:55	IL-20 Prof. Takashi Koike (Tokyo Institute of Technology) <i>Title: Design of Photoredox Systems for Catalytic Fluoromethylation of Alkenes</i>
14:55 – 15:20	IL-21 Prof. Wanbin Zhang (Shanghai Jiao Tong University) <i>Title: Studies on Cooperative Bimetallic Catalysis</i>
15:20 – 15:45	IL-22 Prof. Naoya Kumagai (Institute of Microbial Chemistry) <i>Title: Catalytic Function Dictated by the B<sub>3</sub>NO<sub>2</sub> Ring System</i>
15:45 – 16:05	Coffee Break
Session 8 Chairperson Prof. Xiao Zhang (SIOC)	
16:05 – 16:30	IL-23 Prof. Shi-Liang Shi (SIOC) <i>Title: Copper-catalyzed asymmetric Markovnikov protoboration of <math>\alpha</math>-olefins</i>
16:30 – 16:55	IL-24 Prof. Takuya Hashimoto (Chiba University) <i>Title: Pursuit of New Catalyst Designs</i>
16:55 –	Buffet (Oriental Pearl)

May 30<sup>th</sup> (Wed)

Session 9 Chairperson Prof. Chao Zheng (SIOC)	
8:40 – 9:05	IL-25 Prof. Ryo Shintani (Osaka University) <i>Title: Construction of Extended <math>\pi</math>-Conjugation Systems by Rhodium-Catalyzed Stitching Reaction</i>
9:05 – 9:30	IL-26 Prof. Zheng Huang (SIOC) <i>Title: Converting Alkanes to Higher-value Products Using Molecular Catalysts</i>
9:30 – 9:55	IL-27 Prof. Laurean Ilies (RIKEN) <i>Title: Iron Likes Single Electron Transfer</i>
9:55 – 10:15	Coffee Break
Session 10 Chairperson Prof. Tao Xu (Tongji University)	
10:15 – 10:40	IL-28 Prof. Jian Zhou (East China Normal University) <i>Title: Enantioselective Functionalization of Fully Substituted C=N Double Bond</i>
10:40 – 11:05	IL-29 Prof. Hayato Tsurugi (Osaka University) <i>Title: Organosilicon-based Salt-free Reductants for Transition Metal Complexes and Organic Compounds</i>
11:05 – 11:30	IL-30 Prof. Fanke Meng (SIOC) <i>Title: Catalytic Enantioselective Synthesis of Cu Complexes Containing a Chiral C–Cu Bond and Their New Reactivity</i>
11:30 – 11:40	Closing Remarks (Prof. Shu-Li You & Prof. Yoshiaki Nakao)
11:40 –	Lunch
Afternoon	Sightseeing in Shanghai (Optional)

Scientific program for

## The 1st Sino-Japanese Symposium on Catalysis for Precision Synthesis Student Meeting

Venue: Meeting Room No.1, 2<sup>nd</sup> floor, Junmou Building, SIOC, 345 Lingling Lu, Shanghai

May 28<sup>th</sup> (Mon)

### Session 1 Chairperson Qiang Cheng (SIOC)

- 13:30 – 13:45 OL-1 Myuto Kashihara (Kyoto University)  
*Title: Reductive Denitration of Nitroarenes*
- 13:45 – 14:00 OL-2 Gang Ji (SIOC)  
*Title: Multinuclear Nickel Complexes with  $\beta$ -diimine Skeleton. Synthesis, Structure and Their Application in Olefin Polymerization*
- 14:00 – 14:15 OL-3 Sho Ikeda (Osaka University)  
*Title: Synthesis of New *p*-Conjugated Polymers by Rhodium-Catalyzed Stitching Polymerization of 1,5-Diynes*
- 14:15 – 14:30 OL-4 Ming Li (SIOC)  
*Title: Cooperative Strategy for the Pd-Catalyzed Highly Selective Intermolecular Oxycarbonylation Reaction of Alkenes*
- 14:30 – 14:45 OL-5 Kosuke Higashida (Osaka University)  
*Title: Halide-bridged Dinuclear Complexes of Iridium(III) and Rhodium(III) for Asymmetric Hydrogenation of *N*-Heteroaromatics and Simple Olefins*
- 14:45 – 15:00 OL-6 Ruofei Cheng (SIOC)  
*Title: Iridium-Catalyzed Selective B(3,6)-Functionalization of *o*-Carboranes via Direct B–H Bond Activation*

15:00 – 15:30 Coffee Break

### Session 2 Chairperson Kosuke Higashida (Osaka University)

- 15:30 – 15:45 OL-7 Xingguo Jiang (SIOC)  
*Title: Iron-catalyzed aerobic oxidation of alcohols to carboxylic acids*
- 15:45 – 16:00 OL-8 Takumaru Kurihara (Hokkaido University)  
*Title: Synthesis and Application of 1,1'-Spirobiindane-7,7'-Disulfonic Acid and Disulfonimide*
- 16:00 – 16:15 OL-9 Huaquan Fang (SIOC)  
*Title: Ruthenium-Catalyzed C(sp<sup>3</sup>)-H Silylations for Synthesis of [1,3]-Sila-Heterocycles*
- 16:15 – 16:30 OL-10 Masaaki Komatsuda (Waseda University)  
*Title: Pd-catalyzed Dearomative C–C Bond Formation of Aromatic Alcohols*
- 16:30 – 16:45 OL-11 Qiang Cheng (SIOC)  
*Title: Stereodivergent Synthesis of Tetrahydrofuroindoles via Pd-Catalyzed Asymmetric Dearomative [3+2] Cycloaddition Reactions*
- 16:45 – Banquet