

Program

August 30 (THU)

- 11:00 - 13:00 **Registration**
- 13:00 - 13:15 **Opening Remarks**
- Chair: Christian Bruneau*
- 13:15 - 14:00 **IL-01** **Alan S. Goldman** (Rutgers University)
Catalysis by Pincer-Iridium Complexes. Breaking C-H Bonds, Making C-C Bonds, and Various Combinations Thereof
- 14:00 - 14:45 **IL-02** **Laurean Ilies** (RIKEN)
Earth Abundant Metal-Catalyzed C-H Functionalization
- 14:45 - 15:30 **IL-03** **Debabrata Maiti** (Indian Institute of Technology Bombay)
Designing Of Templates To Reach Distal C-H Bonds
- 15:30 - 16:00 Coffee Break
- Chair: Masaya Sawamura*
- 16:00 - 16:45 **IL-04** **Ning Jiao** (Peking University)
Nitrogenation of Simple Hydrocarbons
- 16:45 - 17:30 **IL-05** **Michel Etienne, Kyle D. J. Parker, Nuria Romero, Quentin Dufrois** (CNRS and Universite de Toulouse)
CH Bond Activation at Early Transition Metal Centers: Competing Reactions Pathways
- 17:30 - 19:00 **P1** **Poster Session**
- 19:00 - **Welcome Party**

August 31 (FRI)

- Chair: Xavi Ribas*
- 9:00 - 9:45 **IL-06** **Yu-Cheng Hsu¹, Vincent C.-C. Wang¹, Tiow-Gan Ong^{1,2}** (¹Academia Sinica, ²National Chiao Tung University)
One-Pot Tandem Photoredox and Cross-Coupling Catalysis with a Single Pd-Carbodicarbene Complex
- 9:45 - 10:30 **IL-07** **Shigeki Matsunaga** (Hokkaido University)
Unique Reactivity and Selectivity of Cp*Co(III) Catalysts in C-H Bond Functionalization
- 10:30 - 11:00 Coffee Break

Chair: Yoshiaki Nakao

- 11:00 - 11:15 **SIL-01** **Tian-Sheng Mei** (Shanghai Institute of Organic Chemistry)
C-H Functionalization via Electrochemical Oxidation
- 11:15 - 11:30 **SIL-02** **Yu Shibata, Yusaku Honjo, Ken Tanaka** (Tokyo Institute of Technology)
Electron-Deficient Cyclopentadienyl-Rhodium(III) Complex-Catalyzed Decarboxylative and Oxidative Annulation of Benzoic Acids with Alkynes
- 11:30 - 11:45 **SIL-03** **Gerard P. McGlacken, Justin Holmes, Leticia Pardo, Gillian Collins, John O'Connell** (University College Cork)
Nanoparticle Shape/Reactivity Correlation in CH Activation and other Cross-Coupling Reactions
- 11:45 - 12:00 **SIL-04** **Keiji Mori¹, Ryo Isogai², Yuto Kamei³, Masahiro Yamanaka³, Takahiko Akiyama²** (¹Tokyo University of Agriculture and Technology, ²Gakushuin University, ³Rikkyo University)
Chiral Magnesium Bisphosphate Catalyzed Asymmetric Double C(sp³)-H Bond Functionalization Based on Sequential Hydride Shift/Cyclization Process
- 12:00 - 12:15 **SIL-05** **Nagaraju Barsu, Malay Sen, Basker Sundararaju** (Indian Institute of Technology, Kanpur)
High-valent Cobalt(III)-Catalyzed C(sp³)-H bond Functionalizations
- 12:15 - 12:30 **SIL-06** **Hidetoshi Tokuyama¹, Akihiro Takada¹, Hiroaki Fujiwara¹, Kenji Sugimoto², Hirofumi Ueda¹** (¹Tohoku University, ²University of Toyama)
Total Synthesis of (-)-Isoschizogamine via the Late-Stage C-H Functionalization
- 12:30 - 12:45 **SIL-07** **A. Stephen K. Hashmi** (Heidelberg University)
Gold-Catalysis: Vinylidenes versus sp²-Cations in Alkyl-C,H- versus Aryl-C,H-Insertions
- 12:45 - 14:00 Lunch Break
- 14:00 - 15:30 **P2** **Poster Session**
- 15:30 - 16:00 Coffee Break
- Chair: Zhang-Jie Shi*
- 16:00 - 16:45 **IL-08** **Guangbin Dong** (University of Chicago)
New Directions in Palladium/Norbornene Cooperative Catalysis
- 16:45 - 17:30 **IL-09** **Jung Min Joo** (Pusan National University)
C-H Functionalization of Five-membered Heteroarenes and its Application to the Synthesis of Benzo-fused Heteroarenes
- 17:30 - 18:15 **IL-10** **Chao-Jun Li** (McGill University)
Exploration of New Reaction Tools for Late-Stage C-H Functionalization

September 1 (SAT)

Chair: Gerald P. McGlacken

9:00 - 9:45 **IL-11** **Martin Oestreich** (Technische Universität Berlin)
The Electrophilic Aromatic Substitution Approach to C-H Silylation and C-H Borylation

9:45 - 10:30 **IL-12** **Naohiko Yoshikai** (Nanyang Technological University)
C-H Bond Functionalization under Low-Valent Cobalt Catalysis

10:30 - 11:00 Coffee Break

Chair: Mamoru Tobisu

11:00 - 11:15 **SIL-08** **Toshimichi Ohmura, Takeru Torigoe, Satoshi Kusaka, Michinori Suginome** (Kyoto University)
Enantioselective Construction of Benzo-Fused Heterocycles Based on Iridium-Catalyzed Intramolecular C(sp³)-H Addition

11:15 - 11:30 **SIL-09** **Oriol Planas¹, Steven Roldan¹, Vlad Martin-Diaconescu¹, Teodor Parella², Josep M. Luis¹, Anna Company¹, Xavi Ribas¹** (¹Universitat de Girona, ²UAB)
Well-Defined Aryl-Co(III) Species in Cobalt-Catalyzed C-H Functionalization: Platform for Alkyne Annulation and Masked Carbene Trapping

11:30 - 11:45 **SIL-10** **Yoshihiro Miyake, Yuma Serizawa, Shohei Kato, Yuya Nagata, Shuhei Akahori, Hiroshi Shinokubo** (Nagoya University)
Diversity-Oriented Synthesis of Hetero[8]circulenes through Direct C-H Borylation of Tetrathienylene

11:45 - 12:00 **SIL-11** **Corinne Fruit¹, Florence Couly¹, Marine Harari¹, Julien Diharce², Pascal Bonnet², Stefan Knapp³, Laurent Meijer⁴, Thierry Besson¹** (¹Normandie Univ., ²Université d'Orléans, ³Goethe-University, ⁴ManRos Therapeutics)
Promising DYRK1A Inhibitor Synthesized by Late-Stage C-H Arylation

12:00 - 12:15 **SIL-12** **Takanori Shibata, Sahoko Onoda, Hisaki Kuirta, Masamichi Michino, Yuki Tahara, Kyalo Stephen Kanyiva** (Waseda University)
Enantioselective Formal C-H Conjugate Addition to α,β -Unsaturated Carbonyl Compounds by Chiral Ir(I) Catalysts

12:15 - 12:30 **SIL-13** **Bing-Feng Shi** (Zhejiang University)
Override the Inherent Site-Selectivity in Pd-Catalyzed C(sp³)-H Functionalization

12:30 - 12:45 **SIL-14** **Ronald L. Reyes, Tomohiro Iwai, Satoshi Maeda, Masaya Sawamura** (Hokkaido University)
Iridium-Catalyzed Asymmetric Borylation of Methylene C-H Bonds

12:45 - 14:00 Lunch Break

Chair: Motomu Kanai

14:00 - 14:45 **IL-13** **Sungwoo Hong** (Korea Advanced Institute of Science and Technology and Institute for Basic Science)
Investigation of Catalytic System for the Efficient Synthesis of Privileged Scaffolds

14:45 - 15:30 **IL-14** **Joseph J. Gair**², **Brandon E. Haines**³, **Ken Ellis-Guardiola**², **Huan Rui**², **Ryan L. Beckner**², **Poonam Srivastava**², **Alexander S. Filatov**², **Narayanasami Sukumar**⁴, **Djamaladdin G. Musaev**³, **Benoit Roux**², **Jared C. Lewis**¹ (¹Indiana University, ²University of Chicago, ³Emory University, ⁴Argonne National Laboratory)
Artificial Metalloenzymes: Catalysts for Discovery in Organometallic Chemistry and Enzymology

15:30 - 16:00 Coffee Break

Chair: A. Stephen K. Hashmi

16:00 - 16:45 **IL-15** **Nicolai Cramer** (EPFL)
Chiral Cyclopentadienyls: Enabling Ligands for Broad Range of Asymmetric C-H Functionalizations

16:45 - 17:30 **IL-16** **Jonathan A. Ellman** (Yale University)
New Bond Connections by C-H Functionalization for Convergent Syntheses of Bioactive Molecules

19:00 - **Banquet**

September 2 (SUN)

Chair: Takanori Shibata

9:00 - 9:45 **IL-17** **Tetsuya Satoh** (Osaka City University)
Regioselective C-H Functionalization under Rhodium(III)-Catalysis

9:45 - 10:30 **IL-18** **John F. Bower** (University of Bristol)
Catalytic Chirality Generation: New Strategies for Organic Synthesis

10:30 - 11:00 Coffee Break

Chair: William D. Jones

11:00 - 11:45 **IL-19** **Gong Chen** (Nankai University)
C-H Functionalization Strategy for Synthesis of Complex Peptides

11:45 - 12:30 **IL-20** **Lutz Ackermann** (Georg-August-University Göttingen)
Selectivity Control in C-H Activation

12:30 - 12:45 **Closing Remarks**