

ISMA3

July 25–28, 2013, Steamboat Springs

Faculty Session

July 25 (Thursday)

Arrival

July 26 (Friday)

Modulator: **Masahiro Murakami**

8:30-9:00	1	Tetsuya Satoh (Osaka University, Japan) Transition-Metal-Catalyzed Dehydrogenative Coupling through Carboxyl Group-Directed C–H Bond Cleavage
9:00-9:30	2	Eric M. Ferreira (Colorado State University, USA) Platinum-Catalyzed Alkyne Activation: Reaction Design and Synthetic Application
9:30-10:00	3	Tetsuaki Fujihara (Kyoto University, Japan) Copper-Catalyzed Hydro- and Silacarboxylation of Alkynes Employing Carbon Dioxide
10:00-10:30	4	Fumitoshi Shibahara (Gifu University, Japan) Applications of C–H Bond Arylation of Heteroarenes Catalyzed by Pd-Nitrogen-based ligand Systems
10:30-11:00		Coffee Break

Modulator: **Yoshihiro Sato**

11:00-11:30	5	Glenn M. Sammis (University of British Columbia, Canada) Photofluorodecarboxylation of 2-Aryloxy Carboxylic Acids
11:30-12:00	6	Mitsuhiro Arisawa (Hokkaido University, Japan) Development of Organometallic Catalysis on Metal Surface
12:00-12:30	7	Vladimir Gevorgyan (University of Illinois at Chicago, USA) Silicon Tether Motif in C–H Activation
12:30-13:00	8	Hiroshi Naka (Nagoya University, Japan) Redox-selective Transformations of Alcohols to Aldehydes and Molecular Hydrogen under Visible Light Irradiation
13:00-18:30		Lunch & Free Time
18:30-19:30		Dinner

Modulator: **Peter Kündig**

19:30-20:00	9	Yoshiaki Nakao (Kyoto University, Japan) C–H Functionalization by Cooperative Nickel/Aluminum Catalysis
20:00-20:30	10	Yusuke Sunada (Kyushu University, Japan) Development of Active Iron Carbonyl Complexes and Their Applications to Catalysis
20:30-21:00	11	Chin-Fa Lee (National Chung Hsing University, R.O.C) Regioselective Synthesis of Aryl Chalcogenides Through C–H Functionalization of Arenes

July 27 (Saturday)

Modulator: **Naoto Chatani**

8:30-9:00	12	Ken Tanaka (Tokyo University of Agriculture and Technology, Japan) Synthesis of an (Electron-Deficient η^5 -Cyclopentadienyl) Rh(III) Complex and Its Application to C–H Bond Functionalization
9:00-9:30	13	Laurean Ilies (The University of Tokyo, Japan) Iron-Catalyzed C–H Bond Activation of Carboxamide Derivatives
9:30-10:00	14	Daniel J. Weix (University of Rochester, USA) Mechanism and Selectivity in Nickel-Catalyzed Cross-Electrophile Coupling of Aryl Halides with Alkyl Halides
10:00-10:30	15	Masafumi Hirano (Tokyo University of Agriculture and Technology, Japan) Chemo-, Regio-, Diastereo- and Enantioselective Coupling of Substituted Alkenes by Ru(0) Complex
10:30-11:00		Coffee Break

Modulator: **Makoto Yasuda**

11:00-11:30	16	Yuichiro Mutoh (Tokyo University of Science, Japan) Reactivities of Indenylruthenium Complex toward Internal Alkynes: Formation of Disubstituted Vinylidene Complexes and Indenyl–Alkyne Coupling
11:30-12:00	17	Zaozao Qiu (Shanghai Institute of Organic Chemistry, China) Transition-Metal-Promoted Functionalization of Carboranes
12:00-12:30	18	Kenji Hara (Hokkaido University, Japan) High-Density Monolayer of Metal Diisocyanide on Au Surface as a Promising Platform for Novel Catalysts
12:30-13:00	19	Pavel Kocovsky (University of Glasgow, UK) Enantiopure Homoallylic Alcohols and their Transition Metal-Catalyzed Functionalization
13:00-18:30		Lunch & Free Time
18:30-20:30		Dinner

July 28 (Sunday)

Modulator: **Takashi Hayashi**

8:30-9:00	20	Junichiro Yamaguchi (Nagoya University, Japan) Aromatic C–H Coupling with Hindered Arylboronic Acids by Pd catalysis
9:00-9:30	21	Bert U. W. Maes (University of Antwerp, Belgium) C2 Functionalization of Piperidines via Direct Transition Metal-Catalyzed sp^3 C–H Activation
9:30-10:00	22	Shingo Ito (The University of Tokyo, Japan) Copolymerization of Carbon Dioxide and 1,3-Butadiene via a Lactone Intermediate
10:00-10:30		Coffee Break

Modulator: **Kazushi Mashima**

10:30-11:00	23	Jean-Luc Renaud (Normandie University, France) Bifunctional Iron Catalysts: Synthesis, Computational Studies and Application in Hydrogenation
11:00-11:30	24	Itaru Nakamura (Tohoku University, Japan) Catalytic Skeletal Rearrangement of <i>O</i> -Propargylic Oximes
11:30-12:00	25	Valery V. Fokin (The Scripps Research Institute, USA) Catalytic Transformations of Alkynes: From Mechanism to Function
12:00-13:00		Lunch
13:00		Departure for Fort Collins

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Student/Post-doc Session

July 25 (Thursday)

Arrival

July 26 (Friday)

Modulator: **Naoyuki Hoshiya**

11:00-11:30	1	Keisuke Nakamura (Osaka University, Japan) Nickel-Catalyzed Transformations Involving the Cleavage of a Carbon-Nitrogen Bond in Aniline Derivatives
11:30-12:00	2	Dmitry Katayev (University of Geneva, Switzerland) Asymmetric Synthesis of Indolines via Pd(<i>NHC</i>)-Catalyzed C(sp ³)-H/C(Ar) Coupling Reactions
12:00-12:30	3	Shota Sawano (Kyoto University, Japan) Stereoselective Synthesis of Metacyclophanes via Rhodium-Catalyzed Ring Opening of Benzocyclobutenols
12:30-13:00	4	Ivan Franzoni (University of Geneva, Switzerland) Access to Congested Quaternary Centers by Pd-catalyzed Intermolecular γ -arylation of Unactivated α,β -unsaturated Aldehydes
13:00-18:30		Lunch & Free Time
18:30-19:30		Dinner

Modulator: **Teruhiko Saito**

19:30-20:00	5	Akihito Hosotani (Hokkaido University, Japan) Rhodium(I)-Catalyzed Asymmetric Hydroacylation of 4-Allenals
20:00-20:30	6	Yang Wang (University of Illinois at Chicago, USA) Copper Catalyzed Remote C(sp ²)-H or benzylic C(sp ³)-H Oxygenation Reactions Directed by a Carboxylic Group
20:30-21:00	7	Sobi Asako (The University of Tokyo, Japan) Iron-Catalyzed Allylation via Aromatic C-H Bond Activation

July 27 (Saturday)

Modulator: **Akihito Hosotani**

8:30-9:00	8	Koichi Murayama (Tokyo University of Agriculture and Technology, Japan) Synthesis of Triphenylene Derivatives by Rhodium-Catalyzed [2+2+2] Cycloaddition
9:00-9:30	9	Chi Chen (University of Rochester, USA) Z-Selective Alkene Isomerization by High-Spin Cobalt(II) Complexes
9:30-10:00	10	Takayuki Yamauchi (Gifu University, Japan) One-Pot Synthesis of Triarylated Azoles via Palladium-Catalyzed Direct C-H Bond Arylations
10:00-10:30	11	Kei Muto (Nagoya University, Japan) Direct C-H Arylation of Heteroarenes by Nickel Catalyst
10:30-11:00		Coffee Break

Modulator: **Dmitry Katayev**

11:00-11:30	12	Todd K. Hyster (Colorado State University, USA) Development of Artificial Metalloenzymes and Sterically Bulky Ligands for Rh(III)-Catalyzed <i>N</i> -Heterocycle Synthesis
11:30-12:00	13	Yuto Unoh (Osaka University, Japan) Oxidative Coupling via C-H Bond Cleavage Directed by Phosphinoxy Groups under Rhodium(III) Catalysis
12:00-12:30	14	Jens Maes (University of Antwerp, Belgium) Synthesis of C8-N9 Annulated Purines via Iron Catalyzed C-H Amination
12:30-13:00	15	Takashi Miura (Nagoya University, Japan) Catalytic Hydrogenation of Unactivated Amides Triggered by Hydrogenation of Catalyst Precursor Ruthenium Complex
13:00-18:30		Lunch & Free Time
18:30-20:30		Dinner

July 28 (Sunday)

Modulator: **Sobi Asako**

8:30-9:00	16	Teruhiko Saito (Osaka University, Japan) Bis(trimethylsilyl)cyclohexadiene Derivatives as Metal-waste Free Reducing Reagents for Early Transition Metal Species
9:00-9:30	17	David Petrone (University of Toronto, Canada) Pd(0)-Catalyzed Carboiodination: Diastereoselective Heterocycle Synthesis and Orthogonal Reactivity of Diiodinated Aromatics
9:30-10:00	18	Naoyuki Hoshiya (Hokkaido University, Japan) Transition-Metal Nanosized Palladium Particles for Organic Reaction
10:00-10:30		Coffee Break

Modulator: **Todd Hyster**

10:30-11:00	19	Keisuke Nogi (Kyoto University, Japan) Nickel-Catalyzed Carboxylation of Aryl and vinyl Chlorides Employing Carbon Dioxide
11:00-11:30	20	Yuki Hiroi (Tokyo University of Agriculture and Technology, Japan) Synthesis of New Ru(0) Complexes Having a Chiral Diene Ligand and Their Application to Catalytic Enantioselective Linear Cross-dimerization of Substituted Alkene
11:30-12:00	21	Anton Gulevich (University of Illinois at Chicago, USA) Double-fold C-H Functionalization of Arenes Using PyrDipSi: Traceless/Modifiable Silicon-Tethered Directing Group
12:00-13:00		Lunch
13:00		Departure for Fort Collins