

Core-to-Core and GTR Symposium on Elements Function for Transformative Catalysis and Materials

February 7 - 8, 2019. Noyori Materials Science Laboratory.

February 7th

10:00- Opening address: Prof. Shigehiro Yamaguchi

Chair: Prof. Shigehiro Yamaguchi

10:05-10:35 Prof. Armido Studer
“N-Radical Chemistry – Past and Future”

10:35-11:05 Prof. Takashi Ooi
“Molecular Design and Asymmetric Catalysis of Weakly-Coordinating Chiral Anions”

11:05-11:35 Prof. Masaharu Nakamura
“Dreaming up World-Changing Catalyst: Utilization of Iron and Wood in Organic Synthesis”

******* 11:35-14:00 Lunch Break *******

Chair: Prof. Aiko Fukazawa

14:00-14:30 Prof. Makoto Yamashita
“Characteristic Reactivities of Group 13 Element Compounds”

14:30-15:00 Prof. Hiroshi Shinokubo
“Exploration of Antiaromatic Porphyrins”

******* 15:00-15:20 Coffee Break *******

Chair: Prof. Masayasu Taki

15:20-15:50 Prof. Bernhard Wuensch
“Quinoxaline-based KOR Agonists”

15:50-16:20 Prof. Hiroshi Abe

“Shape Design of RNA Molecule Provides General Functions”

16:20-16:50 Prof. Osami Shoji

“Hydroxylation of Non-native Substrates Catalyzed by Cytochrome P450BM3 Activated by External Additives”

17:10-19:00 Reception (Restaurant “Hananoki”)

February 8th

Chair: Prof. Susumu Saito

10:00-10:30 Prof. Frank Glorius

“N-Heterocyclic Carbenes in Catalysis”

10:30-11:00 Prof. Kei Murakami

“Development of Catalytic Aromatic Functionalization Accelerated by Interdisciplinary Studies”

11:00-11:30 Prof. Satoshi Muratsugu

“Design and Functionalization of Surface-supported Metal Complexes and Nanoclusters for Heterogeneous Catalysis”

******* 11:30-13:00 Lunch Break *******

Chair: Prof. Kentaro Tanaka

13:00-13:30 Prof. John Tovar

“Dissecting Aromaticity within Borepin-based Polycyclic Aromatics”

13:30-14:00 Prof. Shigeru Yamago

“Effect of Microviscosity on the Diffusion and Termination of Radical Pairs Generated from an Azo Initiator”

14:00-14:30 Prof. Atsushi Wakamiya

“Semiconductors for Electronics Based on Molecular Aggregation Control”

***** 14:30-14:50 Coffee Break *****

Chair: Prof. Kenichiro Itami

14:50-15:20 Prof. Hiroshi Naka

“Transfer (De)hydration Catalysis”

15:20-15:50 Prof. Cathleen Crudden

“Advances in the Materials Chemistry of n-Heterocyclic Carbenes”

15:50-16:00 Closing Remarks: Prof. Susumu Saito