

International Symposium on Main-group Element Chemistry 2024 (ISMEC-2024)

Program

Tsukuba International Congress Center

Tsukuba, Ibaraki, JAPAN

May 11 (Sat.), 2024

9:00-9:20	Registration	
9:20-9:30	Opening Remarks: Takahiro Sasamori (University of Tsukuba)	
	Chair: Shintaro Ishida (Tohoku University)	
9:30-9:50	(SL-1) Koichi Nagata (Tohoku University)	21
	Photoinduced one-pot synthesis of a chromium complex with a $\text{Cr}\equiv\text{Ge}$ triple bond	
9:50-10:10	(SL-2) Pavel Zatsopin (Tokyo Institute of Technology)	22
	Synthesis, characterization, and reactivity of early transition metal–aluminum complexes	
10:10-10:30	(SL-3) Kim Baines (Western University)	
	Back to the Basics: Mechanisms of σ -Additions of Disilenes	23
10:30-10:50	Break	
	Chair: Makoto Yamashita (Tokyo Institute of Technology)	
10:50-11:10	(SL-4) Frank Uhlig (Graz University of Technology)	24
	Mono-Substituted Group 14 Trihydrides as Versatile Building Blocks	
11:10-11:40	(IL-1) Lutz Greb (Universität Heidelberg)	15
	Modulating the reactivity of p-block elements by structural constraint and electromerism	
11:40-12:10	(IL-2) Felicitas Lips (Universität Münster)	16
	Amido-Substituted Silicon Clusters with Zwitterionic Character	
12:10-14:10	Poster Presentation, Lunch (2 sessions)	

Chair: Shigeyoshi Inoue (Technical University of Munich)

14:20-14:40 (SL-5) **Katharina Muenster** (Saitama University) 25

An enantiomerically pure pentadienyl ligand and its application in *rac*-lactide polymerization

14:40-15:00 (SL-6) **Prakash Joshi** (Indian Institute of Technology Delhi) 26

E-X Bond Activation by Bis(germylene) (E = C, Ga, Ge, Sn, Ag and X = Cl, Br, I)

15:00-15:30 (IL-3) **Moumita Majumdar** (Indian Institute of Science Education and Research, Pune) 17

Modulating Lewis Acidity at the Ge(IV) Di-cationic Sites

15:30-15:50 Break

Chair: Norio Nakata (Saitama University)

15:50-16:10 (SL-7) **Sebastian Stigler** (Technical University of Munich) 27

NHC-stabilized Silyliumylidenes in Synthesis, Reactivity and Catalysis

16:10-16:30 (SL-8) **Hyehwang Kim** (University of Toronto) (cancelled) 28

Frustrated Lewis Pair reactivities of phosphino-phosphenium cations

16:30-17:00 (IL-4) **Timothy Su** (University of California, Riverside) 18

Silicon and Germanium Adamantane Clusters

17:00-17:20 Break

Chair: Rainer Streubel (University of Bonn)

17:20-17:40 (SL-9) **Masayuki Gon** (Kyoto University) 29

Energy Control of π -Conjugated System Based on Geometry of Five-Coordinated Hypervalent Silicon Compounds

17:40-18:00 (SL-10) **Thomas Fässler** (Technical University of Munich) 30

Targeted Functionalization of Ge₉ Clusters

18:00-18:30 (IL-5) **Takuya Kodama** (Osaka University) 19

Merging Tetrylenes with Phenalenyl: Syntheses, Structure, and Reactivity

18:30-18:40 Closing Remarks: Masaichi Saito (Saitama University)

18:40-20:30 Mixer [Moderator: Yumiko Nakajima (Tokyo Institute of Technology)]