The 2nd GP-Chem International Symposium Program

Date: February 21–22, 2025 Venue: Aoba Science Hall (H-04) Graduate School of Science

February 21 (Fri.)

09:20-9:30	Opening	Yujiro Hayashi (GP-Chem Program Leader,	
		Graduate School of Science, Tohoku University)	
	Chair: Yuji	Matsumoto (Graduate School of Engineering, Tohoku)	
09:30-10:30	Hiang Kwee Lee (Nanyang Technological University, Singapore)		
	Squeezing	Light and Manipulating Molecules to Enhance Nanocatalysis for	
	Sustainable	Energy and Environmental Applications	
10:30-11:00	Hideki Kato (IMRAM,* Tohoku)		
	Modificatio	on of Properties of Photocatalysts for Water Splitting	
11:00-11:30	Masaya Mi	tsuishi (Graduate School of Engineering, Tohoku)	
	Sensitivity	and Selectivity: Polymer Nanoassembly Interfaces	
11:30-13:00	Lunch		
	Chair: Hitos	shi Kasai (IMRAM,* Tohoku)	
13:00-14:00	Tracey Clar	ke (University College London, UK)	
	Excited Stat	tes in Organic Photovoltaic Materials	
14:00-14:30	Shingo Mar	ruyama (Graduate School of Engineering, Tohoku)	
	Monitoring	the Formation of Tin Halide Perovskite from Vacuum-Deposited	
	Bilayers by	In Situ IR Spectroscopy	
14:30-15:00	Tomoyuki A	Akutagawa (IMRAM,* Tohoku)	
	Chemical D	esign of Ferroelectric Organic Semiconductor	
	GP-Chem S Training	tudent Special Session: Experiences and Achievements from Overseas	
	Chair: Akar	i Yoshida (Graduate School of Environmental Studies, Tohoku)	
15:00-15:15	Peng Zengkang (Graduate School of science, Tohoku)		
	Academic a	nd Personal Growth at UCL: A Journey in Research and Life	
	Chair: Nao	Takahashi (Graduate School of Agricultural Science, Tohoku)	
15:15-15:30	Liu Hao (G	raduate School of Science, Tohoku)	
	My Journey	Through the Nanyang	

15:30-15:50 **Group Photo & Break**

	Chair: Tomoteru Fukumura (Graduate School of Science)					
15:50-16:20	Yusuke Ootani (Institute for Materials Research, Tohoku)					
	Molecular Dynamics Simulation Study on Microscale Wear Mechanism of					
	Concentrated Polymer Brushes					

16:20-16:50 Hiroyuki Fukuyama (IMRAM,* Tohoku) Solution Growth Method of AlN Single Crystal 16:50-17:50 Scott Woodley (University College London, UK) Structure Prediction - Searching Energy Landscapes of Clusters, Surfaces and **Bulk Phases**

February 22 (Sat.)

	Chair: Takeaki Iwamoto (Graduate School of Science, Tohoku)		
09:00-10:00	Rei Kinjo (Nanyang Technological University, Singapore)		
	Chemistry of Electron-rich Group 13 Compounds		
10:00-10:30	Shintaro Ishida (Graduate School of Science, Tohoku)		
	An Isolable Phosphinyl Radical: Properties and Diverse Reactions		
10:30-10:50	Jun Kikuchi (Graduate School of Pharmaceutical Sciences, Tohoku)		
	Synthesis and Properties of Carbon–Iodine Bond Atropisomers		

- 10:50-11:00 Break
- Chair: Masaru Enomoto (Graduate School of Agricultural Science, Tohoku) 11:00-12:00 Daniele Castagnolo (University College London, UK) Biocatalytic and Chemo-Enzymatic Cascades in the Synthesis of Chemicals and Organic Building Blocks
- 12:00-13:00 Lunch
- 13:00-13:30 Yoshinao Nakagawa (Graduate School of Engineering, Tohoku) Catalytic Syntheses of Butanols and Butanediols from Biomass 13:30-13:50 Atsushi Umehara (Graduate School of Life Sciences, Tohoku) DMAPO/Boc₂O-Mediated One-Pot Direct N-Acylation of Less Nucleophilic N-Heterocycles with Carboxylic Acids

	Chair: Naohiko Yoshikai (Graduate School of Pharmaceutical Sciences, Tohoku)		
14:00-15:00	Choon Hong Tan (Nanyang Technological University, Singapore)		
	Chiral Cationic Ion Pair Catalysis Using Guanidiniums		
15:00-15:30	Kouki Oka (IMRAM,* Tohoku)		
	Development of Organic Energy Materials		
15:30-16:00	Masanori Shigeno (Graduate School of Pharmaceutical Sciences, Tohoku)		
	Organic Superbase Catalysis for Carbon-Fluorine Bond Exchange Reactions		
16:00–16:20	Open Discussion on the Symposium		
16:20–16:30	Group Photo		
16:30–16:40	Closing Hisako Hashimoto (Graduate School of Science, Tohoku)		

18:30–20:30 Information Exchange Meeting

*IMRAM: Institute of Multidisciplinary Research for Advanced Materials