

# The 4th Frontier Chemistry Center International Symposium



## "Future Dreams in Chemical Science and Technology: Bridges to Global Innovations"

Date: 23 (Tuesday) -24 (Wednesday) February, 2016

Venue: <Oral Session> Akira Suzuki Hall

<Poster Session> Entrance Hall & Seminar Room 1

Frontier Research in Applied Sciences Building, Faculty of Engineering,

Hokkaido University, Sapporo, Japan

Chair: Professor Takeshi Ohkuma (Hokkaido University, Japan)

### Day 1: Tuesday, 23 February, 2016

9:00 Opening Remarks

Welcome Address by Professor Takeshi Ohkuma

(Director of the Frontier Chemistry Center, Hokkaido University, Japan)

Greeting Address by Professor Toyoharu Nawa

(Dean of the Graduate School of Engineering, Hokkaido University, Japan)

#### SESSION 1 (Chair: Professor Tomohiro Seki and Professor Tomohiro Iwai)

9:15 Plenary Lecture 1

"From Molecules to Dynamic Molecular Systems"

Professor Ben L. Feringa (University of Groningen, The Netherlands)

10:15 Keynote Lecture 1

"Precision Molecular Self-Assembly Across Multiple Length Scales" Professor Takanori Fukushima (Tokyo Institute of Technology, Japan)

10:55 - Coffee Break -

11:10 Invited Lecture 1

"Phosphine-branched Polystyrenes as Platforms for Creating Highly Active Metal Catalysts" Professor Masaya Sawamura (Hokkaido University, Japan)

11:40 Young Lecture 1

"Anisotropic Deforming Materials Obtained by Using Crystal Crosslinking Method" Professor Kenta Kokado (Hokkaido University, Japan)

12:00 - Lunch Break -

SESSION 2 (Chair: Professor Atsushi Minami and Professor Yasushi Ogasawara)

13:30 Plenary Lecture 2

"Biosynthesis of Cyclic Peptide Antibiotics"

Professor Wilfred A. van der Donk (University of Illinois, USA)

14:30 Keynote Lecture 2

"Recent Advances in the Study of Actin-targeting Natural Products" Professor Masaki Kita (University of Tsukuba, Japan)

15:10	– Coffee Break –
15:25	Invited Lecture 2  "A Bacterial Symbiont in Japanese Marine Sponges Produces Biologically Active Metabolites"  Professor Toshiyuki Wakimoto (Hokkaido University, Japan)
15:55	Young Lecture 2 "Biosynthesis of Glycolate-based Polyesters with Hydrolytic Degradability" Professor Ken'ichiro Matsumoto (Hokkaido University, Japan)
<b>POSTER</b> 16:15	Poster Presentation @Entrance Hall & Seminar Room 1
17:45	Session Ends
<b>BANQU</b> 19:00	ET @Sapporo Aspen Hotel
	Day 2: Wednesday, 24 February, 2016
SESSIO	N 3 (Chair: Professor Takayuki Nakanishi, Professor Takashi Yanase and Professor Masaki Yoshida)
09:00	Plenary Lecture 3  "Photoelectrochemical Energy Conversion on Earth and Mars"  Professor Bruce A. Parkinson (University of Wyoming, USA)
10:00	Keynote Lecture 3  "Strategies for the Design of Luminescent Lanthanide Coordination Polymers and Their Photonic Applications"  Professor Yasuchika Hasegawa (Hokkaido University, Japan)
10:40	- Coffee Break -
10:55	Invited Lecture 3  "Molecular Catalysts Designed for Water Oxidation"  Professor Shigeyuki Masaoka (Institute for Molecular Science, Japan)

11:25 Young Lecture 3

"Design of Ionics Devices Based on Mixed Ion-electron Conducting Oxides/Metal Heterojunctions"

Professor Yoshitaka Aoki (Hokkaido University, Japan)

11:45 Closing Remarks by Professor Shin Mukai

#### Organizing Committee:

Professor Shin Mukai (Hokkaido University)

Professor Hajime Ito (Hokkaido University)

Professor Toshihiro Shimada (Hokkaido University)

Professor Tohru Dairi (Hokkaido University)

Professor Ken-ichi Shimizu (Hokkaido University)

Professor Tomohiro Seki (Hokkaido University)

Professor Tomohiro Iwai (Hokkaido University)
Professor Takayuki Nakanishi (Hokkaido University)
Professor Takashi Yanase (Hokkaido University)
Professor Masaki Yoshida (Hokkaido University)

Professor Yasushi Ogasawara (Hokkaido University)

Professor Atsushi Minami (Hokkaido University)

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