

“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

SESSION 1

- 9:15 ▶ **Plenary Lecture 1**
“From molecules to dynamic molecular systems”
Professor Ben L. Feringa (University of Groningen, 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**
“Anisotropically deforming materials obtained by using crystal crosslinking method”
Professor Kenta Kokado (Hokkaido University, Japan)
- 12:00 ▶ – Lunch Break –

SESSION 2

- 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 produce 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)

POSTER SESSION

- 16:15 ▶ **Poster Presentation**
@Entrance Hall & Seminar Room 1
- 17:45 ▶ **Session Ends**

BANQUET

- 19:00 @Sapporo Aspen Hotel

Day 2: Wednesday, 24 February, 2016

SESSION 3

- 9:00 ▶ **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**

Organizing Committee:

Professor Shin Mukai	Professor Tomohiro Iwai
Professor Hajime Ito	Professor Takayuki Nakanishi
Professor Toshihiro Shimada	Professor Takashi Yanase
Professor Tohru Dairi	Professor Masaki Yoshida
Professor Ken-ichi Shimizu	Professor Yasushi Ogasawara
Professor Tomohiro Seki	Professor Atsushi Minami (Hokkaido University)

Supported by

“Strategic Molecular and Materials Chemistry through Innovative Coupling Reactions” (MMC) by MEXT, Japan

The Graduate School of Chemical Sciences and Engineering, Hokkaido University
Ambitious Leader's Program Fostering Future Leaders to Open New Frontiers in Materials Science, Hokkaido University

Japan Electron Optics Laboratory Co., Ltd.
The Suginome Memorial Foundation
Hokkaido Branch, The Society of Chemical Engineers, Japan