

# “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)

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