



11th Japanese-German Frontiers of Science Symposium

Hotel INNSIDE Bremen, October 30 – November 2, 2014

Program

Thursday, October 30

- Arrival of Japanese participants at Bremen Airport and bus transfer to the conference venue
- Individual arrival of German participants
- until 7:30 p.m. Registration and check-in *Foyer*
- 6:00 – 7:00 p.m. **Session Coordination Meeting** *Room Alpha*
(for Planning Group members 2014 and speakers only)
- 7:00 p.m. **Welcome Dinner** *Restaurant*
- Enno Aufderheide, Secretary General, Alexander von Humboldt Foundation
- Shigeo Koyasu, Chairperson, Frontiers of Science Symposium Advisory Board, Japan Society for the Promotion of Science

Friday, October 31

- from 6:30 a.m. Breakfast *Restaurant*
- 8:30-9:00 a.m. **Opening Remarks** *Room Beta & Gamma*
- Katja Hartmann, Program Director Frontiers of Research, Alexander von Humboldt Foundation
- Keiko Nishikawa, Inspector General, Japan Society for the Promotion of Science
- Christine Selhuber-Unkel, German Co-Chair
- Norimichi Ukita, Japanese Co-Chair
- 9:00-11:00 a.m. **SESSION I: What Made the Earth a Habitable Planet?** *Room Beta & Gamma*
Planning Group Members: Andreas Pack & Kei Yoshimura
- Introduction:
The Diversity of Exoplanet Atmospheres
Yamila Miguel, Max Planck Institute for Astronomy, Heidelberg
- Speakers:
The Exact Timing of the First Rise of Free Oxygen in Early Earth's Atmosphere
Ronny Schönberg, Institute for Geosciences, Eberhard Karls University of Tübingen
- Bioavailable Energies in the Hydrothermal Systems on Early Earth and Enceladus*
Takazo Shibuya, Laboratory of Ocean-Earth Life Evolution Research, Japan Agency for Marine-Earth Science and Technology

11:00-11:15 a.m.	Group photograph of all participants	<i>tba</i>
11:15-11:30 a.m.	Coffee Break	<i>Restaurant</i>
11:30-12:00 p.m.	Poster Flash Talks - Part I: Posters with Odd Numbers	<i>Room Beta & Gamma</i>
12:00-12:45 p.m.	Poster Session - Part I: Posters with Odd Numbers	<i>Restaurant</i>
12:45-1:45 p.m.	Lunch	<i>Restaurant</i>
1:45-2:45 p.m.	Presentations of JSPS & AvH Yukiko Abe, Head, Research Cooperation Division, International Program Department, Japan Society for the Promotion of Science Katja Hartmann, Program Director Frontiers of Research, Alexander von Humboldt Foundation	<i>Room Beta & Gamma</i>
2:45-3:00 p.m.	Coffee Break	<i>Restaurant</i>
3:00-5:00 p.m.	Session II: Cancer Genomics Planning Group Members: Gülsah Gabriel & Ichiro Hiratani Introduction: <i>Comprehensive Analysis of the Cancer Genome and Epigenome to Clarify and Manage Cancer</i> Atsushi Kaneda, Department of Molecular Oncology Graduate School of Medicine, Chiba University Speakers: <i>t.b.a.</i> Frank Rosenbauer, Institute of Molecular Tumor Biology, University of Muenster <i>Integrate Genomic / Epigenetic Analysis of Pediatric Solid Tumors</i> Junko Takita, Department of Pediatrics, Graduate School of Medicine, The University of Tokyo	<i>Room Beta & Gamma</i>
5:00-7:00 p.m.	<i>Planning Group Meeting for JAGFOS 2015</i>	<i>Room Alpha</i>
7:00-9:00 p.m.	Dinner	<i>Restaurant</i>
Saturday, November 1		
from 6:30 a.m.	Breakfast	<i>Restaurant</i>
8:30-10:30 a.m.	Session III: Social Interaction: Global Meets Local Planning Group Members: Tamaki Endo & Dariusz Zifonun Introduction: <i>Interaction Rituals in a Globalizing World</i> Marion Müller, Faculty IV - Sociology, Trier University Speakers: <i>Spirits Meet Machines: Human-Nonhuman Entanglement in būta Worship in South India</i> Miho Ishii, Institute for Research in Humanities, Kyoto University <i>Transnational Migration, Border Regimes and the Localization of Inequality in Southern Ghana</i> Boris Nieswand, Institute for Sociology, University of Tübingen	<i>Room Beta & Gamma</i>
10:30-11:00 a.m.	Coffee Break	<i>Restaurant</i>

11:00-11:30 a.m.	Poster Flash Talks - Part II: Posters with Even Numbers	Room Beta & Gamma
11:30-12:15 p.m.	Poster Session - Part II: Posters with Even Numbers	Restaurant
12:15-1:15 p.m.	Lunch	Restaurant
1:15-3:15 p.m.	Session IV: Natural Human-Computer Interfaces Planning Group Members: Ulrike Lucke & Norimichi Ukita	Room Beta & Gamma
	Introduction: <i>Natural User Interfaces: Introduction and Overview</i> Monique Janneck, Faculty of Electrical Engineering and Computer Science, Lübeck University of Applied Sciences	
	Speakers: <i>To Support, Improve and Enhance Human Capabilities – Robot Suit HAL</i> Hiroaki Kawamoto, Department of System & Information Engineering, University of Tsukuba	
	<i>On the Role of Machine Learning in Brain-Computer Interface Research</i> Michael Tangermann, BrainLinks-BrainTools Excellence Cluster, Brain State Decoding Lab, University of Freiburg	
3:30-7:15 p.m.	Cultural tour	
7:30 p.m.	Dinner at the restaurant Canova	
9:00 p.m.	Transfer to the Ininside Hotel Bremen	

Sunday, November 2

Please note: Check-out time until 12 a.m.

from 7:00 a.m.	Breakfast	Restaurant
8:30-10:30 a.m.	Session V: Color Planning Group Members: Christine Selhuber-Unkel & Takafumi Ueno	Room Beta & Gamma
	Introduction: <i>From Color Recognition to Molecular Machines: The Field of Photoresponsive Molecules</i> Kenji Matsuda, Graduate School of Engineering, Kyoto University	
	Speakers: <i>Color of Luminescence: Molecular Design of Luminescent Rare Earth Complexes</i> Miki Hasegawa, College of Science and Engineering, Aoyama Gakuin University <i>(Glowing in the Dark – The Colorful and Unique Luminescence of the Lanthanoid Metals</i> Michael Seitz, Inorganic Chemistry I, Ruhr University Bochum)	
	<i>Angle-independent Structural Coloured Materials Inspired by Living Organisms</i> Yukikazu Takeoka, Department of Molecular Design & Engineering, Nagoya University	
10:30-11:00 a.m.	Coffee Break	Restaurant

- 11:00-1:00 p.m. **Session VI: Structure Formation in the Universe since the Big Bang** *Room Beta & Gamma*
 Planning Group Members: Knud Jahnke & Kentaro Miuchi
- Introduction:
Formation of Structure in the Cosmos: Confronting Theory with Observations across Cosmic Time
 John D. Silverman, Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo
- Speakers:
Cosmological Structure Formation on Supercomputers
 Klaus Dolag, University Observatory Munich, Ludwig Maximilian University Munich
- Cosmic Microwave Background Radiation (CMB) - Seeds of Structure Formation in the Universe*
 Osamu Tajima, Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization (KEK)
- 1:00-1:15 p.m. **Concluding Remarks** *Room Beta & Gamma*
- Norimichi Ukita, Japanese Co-Chair
- Christine Selhuber-Unkel, German Co-Chair
- Yoshimichi Sato, Frontiers of Science Symposium Advisory Board, Japan Society for the Promotion of Science
- Katja Hartmann, Program Director Frontiers of Research, Alexander von Humboldt Foundation
- 1:15-2:15 p.m. Farewell Lunch *Restaurant*
- 2:15 p.m. Meeting ends
- 2:15-5:30 p.m. *Planning Group Meeting for JAGFOS 2015* *Room Alpha*
- 6:00-8:00 pm. Dinner for Japanese participants and PGMs 2015 *Restaurant*
- Monday, November 3**
- from 5:45 a.m. Breakfast *Restaurant*
- Transfer to Bremen airport for Japanese participants