

Scientific Program

October 22 (Monday)

Conference Room 101 • 102

- 9:00-9:20 Opening Remarks
- 9:20-10:00 Plenary Lecture Chair : Vladimir Ya. Lee
PL-1 **From Silylenes to a New Generation of Steering Ligands in Catalysis**
Matthias Driess Technische Universität Berlin
- 10:00-10:30 Invited Lecture A
IA-1 **The Synthesis and Reactivity of Phosphonium Sila-ylide**
Tsuyoshi Kato Université de Toulouse
- 10:30-10:45 Break
- 10:45-11:15 Invited Lecture A Chair : Norihiro Tokitoh
IA-2 **The Effect of Base-coordination to the Si=Si double bonds of Cyclotrisilenes**
David Scheschkewitz Saarland University
- 11:15-11:55 Plenary Lecture
PL-2 **Carbene Stabilization of Highly Reactive Main Group Molecules**
Gregory H. Robinson The University of Georgia
- 12:30-13:15 Lunch Multi-Purpose Hall
- 13:15-14:45 Short Oral Chair : Tsukasa Matsuo
SO-1 **Preparation and Study of High Strength Liquid Injection Molding Silicone Rubber (LIMS)**
Yun-ran Wang China BlueStar Chengrand Research Institute of Chemical Industry
- SO-2 **Synthesis and Thermal Isomerization of Stable 1,2-Dihydrodisilenes**
Tomohiro Agou Kyoto University
- SO-3 **Synthesis and Characterization of Imino-substituted Silicon(II) Compounds**
Shigeyoshi Inoue Technische Universität Berlin
- SO-4 **Persila[n]staffanes and Related Polycyclic Oligosilanes**
Takeaki Iwamoto Tohoku University
- SO-5 **New Reactivity of Disilenes with Isonitriles**
Michael J Cowley Universität des Saarlandes

SO-6 **Luminescence Eu(III)-doped Silica Coatings Derived from Single-Source Precursors**

Andrea Feinle Paris-Lodron University Salzburg

14:45-15:05 Break

15:05-15:25 Invited Lecture B Chair : Joji Ohshita

IB-1 **Silicon-Based Anti-Reflective Materials for Spin-On Hardmask**

Hyeon Mo Cho Yonsei University

15:25-15:45 Invited Lecture B

IB-2 **Silicon-Containing Polymer Preceramics: Synthesis and Application**

Caihong Xu Chinese Academy of Sciences

15:50-16:20 Invited Lecture A

Chair : Julian Koe

IA-3 **Novel Metallosilane Reagents and Their Reactions**

Yitzhak Apeloig Technion-Israel Institute of Technology

16:20-16:50 Invited Lecture A

IA-4 **Siloxanes vs. Ethers: The Nature of the Silicon-Oxygen Bond**

Robert West University of Wisconsin-Madison

16:20-17:30 Plenary Lecture

PL-3 **Soft Materials based on Silicon and Metals: Self-Assembly of Polyferrocenylsilane Block Copolymers**

Ian Manners University of Bristol

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13:15-14:45 Short Oral

Chair : Soichiro Kyushin

SO-7 **Multi(meth)acrylate Polyhedral Oligomeric Silsesquioxanes as Synthetic Platforms for Hybrid Materials via Photochemical Thiol-Ene Reaction**

Hongzhi Liu Shandong University

SO-8 **Functionalized Silsesquioxanes**

Masafumi Unno Gunma University

SO-9 **Investigations on Silicone Resins Containing Acylamide Groups**

Liangbo Zhu China Bluestar Chengrand Chemical Co., Ltd

SO-10 **Tailored Coating Surface Properties with Polysiloxane Based Additives**

Marc Hans BYK-Chemie GmbH

SO-11 **Side Chain Polysiloxanes with Conjugated Aromatic Moieties – a Potential Materials for Field Effect Transistor Sensors**

Tomasz Ganicz Polish Academy of Sciences

SO-12 **Development of Crosslinkable Silyl Functional Group Terminated Telechelic Polyacrylate**

Yoshiki Nakagawa Kaneka Corporation

14:45-15:05 Break

15:05-15:25 Invited Lecture B Chair : Masahiro Murakami

IB-3 **Transition-Metal-Catalyzed Synthetic Reactions Using Amino(boryl)silane as a Silylene Equivalent**

Toshimichi Ohmura Kyoto University

15:25-15:45 Invited Lecture B

IB-4 **Modification of Silica with Organosilanepolyols: Synthesis and Applications of Functional Silica Particles**

Bok Ryul Yoo Korea Institute of Science and Technology

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Multi-Purpose Hall

17:30-19:00 Poster Presentation

October 23 (Tuesday)

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8:45-9:15 Society of Silicon Chemistry of Japan (SSCJ) Domestic Meeting

9:20-10:00 Plenary Lecture

Chair : Hiromi Tobita

PL-4 **Precise Silicone Structures: Is Their Synthesis Worth the Effort?**

Michael A. Brook McMaster University

10:00-10:30 Invited Lecture A

IA-5 **Functional Nanostructures from Tailor-Made Silanes**

Nicola Hüsing Paris-Lodron University Salzburg

10:30-10:45 Break

10:45-11:05 Invited Lecture B

Chair : Takafumi Imai

IB-5 **Understanding the Health and Environmental Fate of Siloxanes**

Noriyuki Suganuma Silicone Industry Association of Japan

- 11:05-11:35 Invited Lecture A
 IA-6 **Thorpe-Ingold Effect in Organosilicon Chemistry**
 Tien-Yau Luh National Taiwan University
- 11:35-12:05 Invited Lecture A
 IA-7 **Lewis Acid-Catalyzed Hydrooligosilylation of Alkenes and Alkynes**
 Masato Tanaka Tokyo Institute of Technology
- 12:30-13:15 Lunch Multi-Purpose Hall
- 13:15-14:45 Short Oral Chair : Rei Kinjo
 SO-13 **One-pot Synthesis and Characterization of Spherical Metal Nanoparticles (Ag, Au, Pt) Dispersed Over Poly(phenylsilane) Matrix**
 Hee-Gweon Woo Chonnam National University
- SO-14 **Platinum and Palladium Nanoparticles Dispersed in Polysiloxane Gel. Preparation, Characterization, and Application to Reusable Catalysts for Hydrogenation and Cross-Coupling**
 Hideo Nagashima Kyushu University
- SO-15 **Coordination, Fragmentation and Metal-Assisted MeO/Me-Metathesis Reactions of Methoxysilanes**
 Wolfgang Malisch Universität Würzburg
- SO-16 **Hydrosilylation of Alkenes Catalyzed by Iron Complexes Bearing a Terpyridine Derivative**
 Hiroshi Nakazawa Osaka City University
- SO-17 **Peculiar Reactivity of a Neutral Tungsten Germylene Complex**
 Hisako Hashimoto Tohoku University
- SO-18 **Group 10 Transition Metal Complexes with Bridging Si Ligands: Their Unique Structures and Chemical Properties**
 Makoto Tanabe Tokyo Institute of Technology
- 14:45-15:05 Break
- 15:05-15:25 Invited Lecture B Chair : Atsushi Kawachi
 IB-6 **Synthesis and Characterization of Silole and Silafluorene Derivatives for Sensing and OLED Applications**
 Honglae Sohn Chosun University

- 15:25-15:45 Invited Lecture B
 IB-7 **Facile Synthesis of Novel Functional Organosilicon Compounds and Polymers through Click Chemistry**
 Shengyu Feng Shandong University
- 15:50-16:20 Invited Lecture A Chair : Takayuki Kawashima
 IA-8 **Synthesis and Characterization of Luminescent Cyclic Group 14 Compounds**
 Janet Braddock-Wilking University of Missouri-St. Louis
- 16:20-16:50 Invited Lecture A
 IA-9 **Hydrosilylation Catalysed by Rh[PPh₂(2-Me₃SiPh)]₃Cl**
 Jianxiong Jiang Hangzhou Normal University
- 16:20-17:20 Plenary Lecture
 PL-5 **Role of π - σ^* Orbital Mixing in Silicon Bonding**
 Mitsuo Kira Tohoku University

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- 13:15-14:45 Short Oral Chair : Shigeru Shimada
 SO-19 **Reactions of Dibenzopentalene Derived from Bulky Phenylsilylacetylene**
 Masaichi Saito Saitama University
- SO-20 **Asymmetric Synthesis of Silicon-Stereogenic Precursors with Diverse Reactivities and Applications**
 Jonathan O. Bauer Technische Universität Dortmund
- SO-21 **Synthesis of Highly Branched Organopolysiloxanes Substituted with Alkoxy Groups at Silicon Atoms in the Presence of Tis(pentafluorophenyl)borane, B(C₆F₅)₃**
 Jan M. Kurjata Polish Academy of Sciences
- SO-22 **Significant Silyl Substituent Effect on Ozone Oxidation: A Novel Approach to Multi-oxy-functionalized Compounds from Alkynes**
 Kazunobu Igawa Kyushu University
- SO-23 **Hypercoordinate Group-14 (Si, Ge, and Sn) Complexes of N₂O₂-type Dipyrrens: Strong Fluorescence and Regulation of the Optical Properties**
 Masaki Yamamura University of Tsukuba
- SO-24 **Application of the Characteristics of Highly Coordinated Silicon Compounds to Catalyst-Free Syntheses of Rotaxanes**
 Kei Goto Tokyo Institute of Technology

14:45-15:05 Break

15:05-15:25 Invited Lecture B Chair : Kohtaro Osakada
IB-8 **New Silicon Based Molecular/Polymeric Frameworks for Size and Shape
Selective Synthesis of Au and Ag Nanoparticles**
Ravi Shankar Indian Institute of Technology

15:25-15:45 Invited Lecture B
IB-9 **Bis[*N,N'*-diisopropylbenzamidinato(-)]silicon(II): A Novel Donor-Stabilized
Silylene**
Reinhold Tacke Universität Würzburg

October 23 (Tuesday)

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17:20-17:30 Closing Remarks

18:00-20:30 Banquet

Multi-Purpose Hall