

# The 25th Symposium on the Society of Iodine Science

Time table (September 13th)

<b>LECTURES</b>	
9:00~ 9:05	<Opening Address > YOSHIYUKI YOKOTA (Chair of SIS)
Chair : K. Gotoh	
9:05~9:45	<Invited Lecture> Takuya Hashimoto (Department of Chemistry, Graduate School of Science, Chiba University RIKEN Cluster for Pioneering Research) <b>“Halogen-based Nitrogen Functionalization”</b>
Chair : H.Kanoh/T. Kaiho	
9:55~10:10	<Oral Presentation> Shohei Kodama, I. Yanase, H. Takeda (Saitama University) <b>“Feasibility study on a remote gamma-ray detector coupled with an iodine scintillator”</b>
10:10~10:25	<Oral Presentation> Shunsuke Kurosawa <sup>1</sup> , F. Chihaya <sup>2</sup> , Y. Akihiro <sup>1,2</sup> ( <sup>1</sup> NICHE, Tohoku Univ., <sup>2</sup> IMR, Tohoku Univ., <sup>3</sup> Institute of Laser Engineering, Osaka Univ.) <b>“Growth and Optical Properties for Iodide Neutron Scintillators”</b>
10:25~10:40	<Oral Presentation > Tomoki Murata , T. Tanaka. (NGK SPARK PLUG Co. , LTD) <b>“Oxide thin film formation by iodine-acetone electrolytic bath”</b>
10:40~10:55	<Oral Presentation> Yasuhiro Yamada, K. Nomura, N. Yukiue. (Faculty of Science, Chiba University) <b>“Ion migration and photoinduced phase segregation in iodine-based perovskites”</b>
10:55~11:10	<Oral Presentation> Shozo Yanagida <sup>1*</sup> , M. Yanagida <sup>2</sup> , S. Yanagisawa <sup>3</sup> , H. Segawa <sup>4</sup> . ( <sup>1</sup> Osaka University, <sup>2</sup> NIMS, <sup>3</sup> University of Ryukyus, <sup>4</sup> I University of Tokyo) <b>“Theoretical verification of perovskite solar cells as PbI<sub>6</sub>(MeNH<sub>3</sub>)<sub>4</sub>-based molecular structured solar cell”</b>
11:15~12:05	<Short Speeches on Poster Presentations>
<b>POSTER PRESENTATIONS BRAKE OUT ROOMS</b>	
12:05~14:40	Presentation, question, and answer
Chair : S. Takahara	
14:50~15:30	< Invited Lecture > Tae-Wook Kim (Jeonbuk National University) , <b>“Two-Dimensional Single-Crystalline Copper Nanosheets: Synthesis and Applications”</b>
Chair : K. Moriyama	
15:40~15:55	< Oral Presentation > Takuya Ogaki <sup>1,2</sup> , S. Masumi <sup>1</sup> , A. Sakai <sup>3</sup> , T. Ari <sup>3</sup> , Y. Matsui <sup>1,2</sup> , H. Sato <sup>4</sup> , H.Ikeda <sup>1,2</sup> . ( <sup>1</sup> Grad. Sch. of Eng. , Osaka Metro. Univ.; <sup>2</sup> RIMED , Osaka Metro. Univ.; <sup>3</sup> Grad. Sch. of Eng. , Osaka Pref. Univ.; <sup>4</sup> Rigaku) <b>“Effect of Iodine-substitution Position on the Room-temperature Phosphorescence Properties and Crystal Structures of Organoboron Complexes”</b>
15:55~16:10	<Oral Presentation> Yuto Kondo, H. Kimura, S. Koike , Y. Tamura , Y. Hattori, H. Yasui (Kyoto Pharmaceutical University) <b>“Efficient synthesis of radioiodinated peptides using sequential control of a copper-mediated iododeboronation and a Huisgen cycloaddition reaction”</b>
16:10~16:25	<Oral Presentation>Tagui Nagano, R. Sakaguchi <sup>1</sup> , S. Matsubara <sup>1</sup> , K. Asano <sup>2</sup> , D. Uruguchi <sup>2</sup> . ( <sup>1</sup> Graduate School of Engineering, Kyoto University; <sup>2</sup> Institute for Catalysis, Hokkaido University) <b>“Bifunctional Cyclooctene Catalysts for Halogenation”</b>
16:25~16:40	< Oral Presentation > Kazumasa Kon <sup>1,2</sup> , Y. Tsuji <sup>2</sup> , T. Horibe <sup>2</sup> , K. Ishihara <sup>2</sup> . ( <sup>1</sup> Venture Business Lab., Nagoya Univ., <sup>2</sup> Grad. Sch. of Eng., Nagoya Univ.) <b>“Enantioselective Iodocyclization of Polyrenoids Induced by Chiral Lewis Base and Halo-Lewis Acid Cooperative Catalysts”</b>
Chair : K. Ishihara	
16:50~17:30	<Invited Lecture> Kevin Cariou (CNRS • PSL University) , <b>“Hypervalent Iodine(III)-Mediated Cyclizations: Stoichiometric , Catalytic &amp; Unexpected”</b>
17:30~17:45	Poster Award Commendation

## Poster Presentation

Presenters are requested to be at their *brake out rooms* for discussions:

**“S” mark before the poster number shows to give a short speech on poster presentation.**

No.	“Title” (Affiliation), <u>Author</u> , Co-authors
S01	<p><b>“Convergent Approach to Structurally Diverse Cationic Halogen-Bonding-Donors”</b>            (Faculty of Science, Gakushuin University)  <u>Shota Michii</u>, Ryosuke Goshō, Ryosuke Haraguchi</p>
S02	<p><b>“Betaine-Type Halogen Bonding Donor Catalyzed Carbon Dioxide Fixation”</b>            (Graduate School of Engineering, Chiba Institute of Technology)  <u>Kenta Niitsuma</u>, Koki Sawayama, Ryosuke Haraguchi</p>
S03	<p><b>“Postmodification Approach to Structurally Diverse Cationic Halogen-Bonding-Donors”</b>            (Graduate School of Engineering, Chiba Institute of Technology)  <u>Mariha Ishikawa</u>, Shunsuke Hayakawa, Ryosuke Haraguchi</p>
S04	<p><b>“Development of Polyfluorinated Cationic Halogen-Bonding-Donors”</b>            (Graduate School of Engineering, Chiba Institute of Technology)  <u>Ayaka Yamazaki</u>, Shota Michii, Ryosuke Haraguchi</p>
S05	<p><b>“Design of Halogen-Bond Donors Induced by Tetrafluorosulfanyl Group”</b>            (Grad. Sch. Eng., Nagoya Inst. of Tech.)  <u>Kenshiro Hada</u>, Soichiro Mori, Yuji Sumii, Norio Shibata</p>
S06	<p><b>“Development of Halogenation Reaction for Polyfluoronaphthalene: Toward Digitalization of Organic Synthesis”</b>            (Institute for Molecular Science; SOKENDAI; Sizuoka University)  <u>Naoya Ohtsuka</u>, Hino Ota, Shunsuke Kotani, Toshiyasu Suzuki, Kazuhiro Takeda, Norie Momiyama</p>
S07	<p><b>“Synthesis of 2-Fluoroalkyl Iodides by Iodofluorination of Alkenes”</b>            (Department of Chemistry and Applied Chemistry, Saga University)  <u>Tsugio Kitamura</u>, Ryuichi Komoto, Juzo Oyamada</p>
08	<p><b>“Synthetic Approach of Unstable Iodide using Fluorous Technich”</b>            (Ochanomizu University<sup>1</sup>, Godo Shigen<sup>2</sup>)  <u>Tomoko Yajima</u><sup>1</sup>, Yu Ofuji<sup>1</sup>, Tatsuo Kaiho<sup>2</sup>, Mitsuhiko Miyamoto<sup>2</sup>, Tadashi Kanbara<sup>1</sup></p>
S09	<p><b>“Visible-light-induced perfluoroalkylation of olefins promoted by halogen-bonding between perfluoroalkyl iodide and amine”</b>            (Faculty of Science, Ochanomizu University)  <u>Koto Tagami</u>, Miyu Tanaka, Tadashi Kanbara, Tomoko Yajima</p>
10	<p><b>“Intermolecular asymmetric iodoetherification catalyzed by trinuclear Zn-bis(aminoimino)binaphthoxide Complex”</b>            (<sup>1</sup>Graduate School of Science, Chiba University, <sup>2</sup>Faculty of Science, Rikkyo University)  <u>Emi Amma</u><sup>1</sup>, Takumi K. Suzuki<sup>1</sup>, Masahiro Yamanaka<sup>2</sup>, Takayoshi Arai<sup>1</sup></p>
S11	<p><b>“Synthetic method of 4-imidazolidinones under mild reaction conditions using cyclic ethynyl hypervalent iodine compounds”</b>            (Gifu pharmaceutical university)  <u>Norihiro Tada</u>, Akichika Itoh</p>
12	<p><b>“Development of Highly Reactive Chiral Halonium Salt Catalysts”</b>            (Graduate School of Engineering, Chiba University)  <u>Koki Obata</u>, Yasushi Yoshida, Takashi Mino, and Masami Sakamoto</p>
13	<p><b>“Asymmetric <math>\alpha</math>-Cyanation of Alkenyl Esters Using a Chiral Tin Catalyst”</b>            (<sup>1</sup>Graduate School of Science, Chiba University; <sup>2</sup>Nippon Chemical Co., Ltd.)  <u>Yuki Hinata</u><sup>1</sup>, Takamichi Watanabe<sup>2</sup>, Koji Midorikawa<sup>2</sup>, Akira Yanagisawa<sup>1</sup></p>
14	<p><b>“Invention of Chiral Organic Compounds with Tetrafluoroiodobenzyl Group”</b>            (<sup>1</sup>Graduate School of Science, Chiba University; <sup>2</sup>Godo Shigen Co., LTD; <sup>3</sup>Chiba Iodine Resource Innovation Center, Chiba University)  <u>Katsuhiko Moriyama</u><sup>1</sup>, Yukari Oka<sup>1</sup>, Tatsu Kaiho<sup>2,3</sup></p>

S15	<p><b>“Synthesis of Substituted 1,3-Tetrahydrooxazines via Oxidative Aryl Rearrangement Using Hypervalent Iodine”</b>  (Graduate School of Science, Chiba University)  <u>Mami Suzuki</u>, Katsuhiko Moriyama</p>
S16	<p><b>“<math>\alpha</math>-Amination of Amides Utilizing Hypervalent Iodine Reagents Containing a Transferable (Diarylmethylene)amino Group”</b>  (Graduate School of Engineering, Osaka University)  <u>Kazuki Kawanaka</u>, Kensuke Kiyokawa, Satoshi Minakata</p>
S17	<p><b>“Cyclic hypervalent iodine induced oxidative phenol and aniline couplings with phenothiazines”</b>  (<sup>1</sup>College of Pharmaceutical Sciences, Ritsumeikan University, <sup>2</sup>Research Organization of Science and Technology, Ritsumeikan University)  <u>Kana Yanase</u><sup>1</sup>, Koji Morimoto<sup>1,2</sup>, Kentaro Toda<sup>1</sup>, Hitoshi Takeuchi<sup>1</sup>, Toshifumi Dohi<sup>1,2</sup>, Yasuyuki Kita<sup>2</sup></p>
18	<p><b>“<math>\alpha</math>-Azidation of Alkenyl Esters Using Tin Alkoxide Catalysts”</b>  (<sup>1</sup>Graduate School of Science, Chiba University; <sup>2</sup>Nippon Chemical Co., Ltd.)  <u>Kohei Dezaki</u><sup>1</sup>, Takamichi Watanabe<sup>2</sup>, Koji Midorikawa<sup>2</sup>, Akira Yanagisawa<sup>1</sup></p>
19	<p><b>“<math>\alpha</math>-Iodination of Alkenyl Esters Using Tin Alkoxide Catalysts”</b>  (<sup>1</sup>Faculty of Science, Chiba University; <sup>2</sup>Nippon Chemical Co., Ltd.; <sup>3</sup>Graduate School of Science, Chiba University)  <u>Etsushi Saito</u><sup>1</sup>, Takamichi Watanabe<sup>2</sup>, Koji Midorikawa<sup>2</sup>, Akira Yanagisawa<sup>3</sup></p>
20	<p><b>“Synthesis of Pyrroles Using Titanium Tetraiodide/Trimethylsilyl Iodide Synergistically Induced Cyclization of Cyano Carbonyl Compounds”</b>  (Graduate School of Engineering, Mie University)  <u>Iwao Hachiya</u>, Toshiki Takeshita, Syunya Tochigi</p>
S21	<p><b>“Development of Biocompatible Halogenating Reagents”</b>  (Department of Material Chemistry, Graduate School of Engineering, Kyoto University; Institute for Catalysis, Hokkaido University)  <u>Rakuto Yoshida</u>, Tagui Nagano, Ryuichi Murata, Seijiro Matsubara, Keisuke Asano, Daisuke Uraguchi</p>
22	<p><b>“Synthesis of [1]Benzothiopheno[2,3-<i>b</i>][1]benzothiophenes from 3-Arylbenzo[<i>b</i>]thiophenes Using Iodine”</b>  (Graduate School of Science, Chiba University)  <u>Kazuki Ito</u>, Shuta Sakai, Kazuhiro Yoshida</p>
23	<p><b>“Oxyselenation and aminoselenation of alkenes utilizing an isolable selenenyl iodide”</b>  (School of Science, Tokyo Institute of Technology)  <u>Satoru Kuwano</u>, Erika Takahashi, Yo Ishikawa, Jun Kikushima, Shohei Sase, Kei Goto</p>
S24	<p><b>“Flavin-Iodine-Catalyzed Aerobic Oxidative Synthesis of Imidazo[1,5-<i>a</i>]pyridines”</b>  (Interdisciplinary Faculty of Science and Engineering, Shimane University)  <u>Tatsuki Fukuda</u>, Hiroki Iida</p>
S25	<p><b>“Synthesis of <math>\beta</math>-triflyloxy-<math>\alpha,\alpha</math>-bis(phenyliodonio)ethylenes: Development of ethylene units with three strong electron-withdrawing substituents”</b>  (Faculty of Pharmaceutical Sciences, Institute of Medical, Pharmaceutical, and Health Sciences, Kanazawa University)  <u>Kanetsugu Kuribayashi</u>, Takuya Matsumoto, Munetaka Kunishima</p>
S26	<p><b>“Preparation and reactivity of <math>\beta</math>-trifluorosulfonyloxy vinylbenziodoxolones”</b>  (Faculty of Pharmaceutical Sciences, Aomori University)  <u>Akira Yoshimura</u>, Tatsuya Suzuki, Akiharu Ueki, Akio Saito, Viktor V. Zhdankin, Tsugio, Kitamura</p>
S27	<p><b>“Internal Heavy Atom Effect of Iodine Enabling Photo-reaction via a Direct <math>S_0 \rightarrow T_n</math> Transition”</b>  (<sup>1</sup>Graduate School of Pharmacy, Chiba University, <sup>2</sup>School of Pharmacy, Chiba University.)  <sup>1</sup><u>Keita Yamazaki</u>, <sup>1</sup>Tomohiro Yazawa, <sup>1</sup>Sho Nagasawa, <sup>1</sup>Honoka Yoneyama, <sup>2</sup>Yuko Kotaka, <sup>1</sup>Masaya Nakajima, and <sup>1</sup>Tetsuhiro Nemoto</p>
28	<p><b>“Generation of <i>ortho</i>-Quinone Methides and [4+2] Cycloaddition Reactions Using Organic Photoredox Catalysts”</b>  (Graduate School of Environment and Information Sciences, Yokohama National University; Research Institute for Interdisciplinary Science, Okayama University)  Shoya Nohara, Kenta Tanaka, Yujiro Hoshino</p>

29	<p><b>“Polymerization of aniline with iodine in organic solvents”</b>          (Department of Material Science, Faculty of Pure and Applied Sciences, University of Tsukuba; Institute of Materials Structure Science, High Energy Accelerator Research Organization (KEK IMSS))  <u>Kyoka Komaba</u>, Takuya Yonehara, Ryo Miyashita, Reiji Kumai, Hiromasa Goto</p>
S30	<p><b>“Development of Sulfonium Iodide Salts for Generating Hydrogen Iodide upon Light Irradiation”</b>          (<sup>1</sup>Graduate School of Engineering, Osaka Metropolitan University; <sup>2</sup>Graduate School of Engineering, Osaka Prefecture University)  <u>Hyohun Park</u><sup>1</sup>, Kazuki Bunno<sup>2</sup>, Shintaro Kodama<sup>1,2</sup>, Akihiro Nomoto<sup>1,2</sup>, Akiya Ogawa<sup>1,2</sup></p>
S31	<p><b>“Synthesis and mechanical property of iodine-compound conjugated poly(glycerol adipate) elastomers with biodegradability and radiopacity 2”</b>          (Graduate School of Science and Technology, Keio University)  <u>Yuya Oyama</u>, Naruki Kurokawa, Atsushi Hotta</p>
32	<p><b>“Electric Conductivities of 2-Phenyl-1<i>H</i>-imidazo[1,2-<i>a</i>]pyridine-4-ium-3-olate and Its Derivatives by Iodine”</b>          (Graduate School of Engineering, Chiba University)  <u>Hina Akiyama</u>, Motohiro Akazome, Shoji Matsumoto</p>
S33	<p><b>“Controlling Molecular Orientation of Disubstituted Asymmetric Organic Semiconductor Materials via Iodine-Iodine Interactions”</b>          (<sup>1</sup>Graduate School of Organic Materials Science Yamagata University. <sup>2</sup>Graduate School of Science and Engineering Yamagata University.) <u>Mai Hasada</u><sup>1</sup>, Amane Matsunaga<sup>2</sup>, Kakeru Hasumi<sup>2</sup>, Daisuke Kumaki<sup>1</sup>, Shizuo Tokito<sup>1</sup>, Hiroshi Katagiri<sup>1,2</sup></p>
S34	<p><b>“Controlling Molecular Orientation and Charge Transport Properties of Asymmetric Organic Semiconductor Materials based on Halogen-Halogen Interactions”</b>          (<sup>1</sup>Graduate School of Organic Materials Science, Yamagata University, <sup>2</sup>Graduate School of Science and Engineering, Yamagata University.) <u>Taichi Sato</u><sup>1</sup>, Hasumi Kakeru<sup>2</sup>, Amane Matsunaga<sup>2</sup>, Daisuke Kumaki<sup>1</sup>, Shizuo Tokito<sup>1</sup>, Hiroshi Katagiri<sup>*1,2</sup></p>
S35	<p><b>“Evaluation of Ion Transport in CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Single Crystals by Complex Impedance Measurement”</b>          (Graduate School of Science, Chiba University)  <u>Riku Taniguchi</u>, Yasuhiro Yamada, Kenichi Oto</p>
36	<p><b>“Crystal Growth and Magnetic Properties of Samarium Triiodide as Quantum Spin Liquid Candidate”</b>          (<sup>1</sup>ISSP, the University of Tokyo, <sup>2</sup>Tokyo University of Science)  <u>Hajime Ishikawa</u><sup>1</sup>, Ryosuke Kurihara<sup>2</sup>, Takeshi Yajima<sup>1</sup>, Daisuke Hamane<sup>1</sup>, Yusei Shimizu<sup>1</sup>, Toshiro Sakakibara<sup>1</sup>, Akira Matsuo<sup>1</sup>, Koichi Kindo</p>
S37	<p><b>“Theoretical verification of iodine, hydrogen, and far infrared rays for prevention and cure of all diseases”</b>          (M3 Lab. Inc. Osaka Univ.) <u>Shozo Yanagida</u>, (Holos Matsudo Clinics) Nobuyuki Murakami</p>
38	<p><b>“The effect of active ingredients such as iodine on pharyngeal infectious virus and bacteria”</b>          (<sup>1</sup>Kobayashi Pharmaceutical Co., Ltd., <sup>2</sup>Japan Textile Products Quality and Technology Center)  <u>Makoto Tamura</u><sup>1</sup>, Ayumi Nakatani<sup>1</sup>, Kazuhiro Tori<sup>1</sup>, Manabu Nozaki<sup>1</sup>, Mitsuhiro Gomi<sup>1</sup>, Eri Nakajima<sup>2</sup>, Tomoki Nishida<sup>2</sup>, Yasuo Imoto<sup>2</sup></p>
39	<p><b>“Iodine retentivity of polysorbate 80 and antimicrobial activity of polysorbate-iodine complex”</b>          (Faculty of Engineering, Yamagata University; Ise Chemicals Corporation)  <u>Shuki Yamashita</u>, Shigekazu Yano, Satoshi Asakura, Takahiro Satou</p>

*Official Language*

Official language is Japanese. No official simultaneous translation in English will be offered. Presentations for both the oral and the poster presentation welcome in English.

*Registration Fee* Deadline Aug.14, 2022

Reduced Registration Fee (before August 14, 2022):

Non-SIS-members☆ 3,000 yen

Students☆ Free

☆Non-SIS members who require the booklet need to pay 2,000yen.

※Everybody is welcome to join SIS. Membership fee is 2,000 yen/year. (Students are 1,000 yen/year)

And the Reduced Registration Fee for SIS-members is 1,000yen including the booklet.

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