

The 25th Symposium on the Society of Iodine Science

Time table (September 13th)

LECTURES	
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) “Halogen-based Nitrogen Functionalization”
Chair : H.Kanoh/T. Kaiho	
9:55~10:10	<Oral Presentation> Shohei Kodama, I. Yanase, H. Takeda (Saitama University) “Feasibility study on a remote gamma-ray detector coupled with an iodine scintillator”
10:10~10:25	<Oral Presentation> Shunsuke Kurosawa ¹ , F. Chihaya ² , Y. Akihiro ^{1,2} (¹ NICHE, Tohoku Univ., ² IMR, Tohoku Univ., ³ Institute of Laser Engineering, Osaka Univ.) “Growth and Optical Properties for Iodide Neutron Scintillators”
10:25~10:40	<Oral Presentation > Tomoki Murata , T. Tanaka. (NGK SPARK PLUG Co. , LTD) “Oxide thin film formation by iodine-acetone electrolytic bath”
10:40~10:55	<Oral Presentation> Yasuhiro Yamada, K. Nomura, N. Yukiue. (Faculty of Science, Chiba University) “Ion migration and photoinduced phase segregation in iodine-based perovskites”
10:55~11:10	<Oral Presentation> Shozo Yanagida ^{1*} , M. Yanagida ² , S. Yanagisawa ³ , H. Segawa ⁴ . (¹ Osaka University, ² NIMS, ³ University of Ryukyus, ⁴ I University of Tokyo) “Theoretical verification of perovskite solar cells as PbI₆(MeNH₃)₄-based molecular structured solar cell”
11:15~12:05	<Short Speeches on Poster Presentations>
POSTER PRESENTATIONS BRAKE OUT ROOMS	
12:05~14:40	Presentation, question, and answer
Chair : S. Takahara	
14:50~15:30	< Invited Lecture > Tae-Wook Kim (Jeonbuk National University) , “Giant 2D Single-Crystalline Metallic Nanosheets: Synthesis and Applications”
Chair : K. Moriyama	
15:40~15:55	< Oral Presentation > Takuya Ogaki ^{1,2} , S. Masumi ¹ , A. Sakai ³ , T. Ari ³ , Y. Matsui ^{1,2} , H. Sato ⁴ , H.Ikeda ^{1,2} . (¹ Grad. Sch. of Eng. , Osaka Metro. Univ.; ² RIMED , Osaka Metro. Univ.; ³ Grad. Sch. of Eng. , Osaka Pref. Univ.; ⁴ Rigaku) “Effect of Iodine-substitution Position on the Room-temperature Phosphorescence Properties and Crystal Structures of Organoboron Complexes”
15:55~16:10	<Oral Presentation> Yuto Kondo, H. Kimura, S. Koike , Y. Tamura , Y. Hattori, H. Yasui (Kyoto Pharmaceutical University) “Efficient synthesis of radioiodinated peptides using sequential control of a copper-mediated iododeboronation and a Huisgen cycloaddition reaction”
16:10~16:25	<Oral Presentation>Tagui Nagano, R. Sakaguchi ¹ , S. Matsubara ¹ , K. Asano ² , D. Uruguchi ² . (¹ Graduate School of Engineering, Kyoto University; ² Institute for Catalysis, Hokkaido University) “Bifunctional Cyclooctene Catalysts for Halogenation”
16:25~16:40	< Oral Presentation > Kazumasa Kon ^{1,2} , Y. Tsuji ² , T. Horibe ² , K. Ishihara ² . (¹ Venture Business Lab., Nagoya Univ., ² Grad. Sch. of Eng., Nagoya Univ.) “Enantioselective Iodocyclization of Polyrenoids Induced by Chiral Lewis Base and Halo-Lewis Acid Cooperative Catalysts”
Chair : K. Ishihara	
16:50~17:30	<Invited Lecture> Kevin Cariou (CNRS • PSL University) , “Hypervalent Iodine(III)-Mediated Cyclizations: Stoichiometric , Catalytic & Unexpected”
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	“Convergent Approach to Structurally Diverse Cationic Halogen-Bonding-Donors” (Faculty of Science, Gakushuin University) <u>Shota Michii</u> , Ryosuke Goshō, Ryosuke Haraguchi
S02	“Betaine-Type Halogen Bonding Donor Catalyzed Carbon Dioxide Fixation” (Graduate School of Engineering, Chiba Institute of Technology) <u>Kenta Niitsuma</u> , Koki Sawayama, Ryosuke Haraguchi
S03	“Postmodification Approach to Structurally Diverse Cationic Halogen-Bonding-Donors” (Graduate School of Engineering, Chiba Institute of Technology) <u>Mariha Ishikawa</u> , Shunsuke Hayakawa, Ryosuke Haraguchi
S04	“Development of Polyfluorinated Cationic Halogen-Bonding-Donors” (Graduate School of Engineering, Chiba Institute of Technology) <u>Ayaka Yamazaki</u> , Shota Michii, Ryosuke Haraguchi
S05	“Design of Halogen-Bond Donors Induced by Tetrafluorosulfanyl Group” (Grad. Sch. Eng., Nagoya Inst. of Tech.) <u>Kenshiro Hada</u> , Soichiro Mori, Yuji Sumii, Norio Shibata
S06	“Development of Halogenation Reaction for Polyfluoronaphthalene: Toward Digitalization of Organic Synthesis” (Institute for Molecular Science; SOKENDAI; Sizuoka University) <u>Naoya Ohtsuka</u> , Hino Ota, Shunsuke Kotani, Toshiyasu Suzuki, Kazuhiro Takeda, Norie Momiyama
S07	“Synthesis of 2-Fluoroalkyl Iodides by Iodofluorination of Alkenes” (Department of Chemistry and Applied Chemistry, Saga University) <u>Tsugio Kitamura</u> , Ryuichi Komoto, Juzo Oyamada
08	“Synthetic Approach of Unstable Iodide using Fluorous Technich” (Ochanomizu University ¹ , Godo Shigen ²) <u>Tomoko Yajima</u> ¹ , Yu Ofuji ¹ , Tatsuo Kaiho ² , Mitsuhiko Miyamoto ² , Tadashi Kanbara ¹
S09	“Visible-light-induced perfluoroalkylation of olefins promoted by halogen-bonding between perfluoroalkyl iodide and amine” (Faculty of Science, Ochanomizu University) <u>Koto Tagami</u> , Miyu Tanaka, Tadashi Kanbara, Tomoko Yajima
10	“Intermolecular asymmetric iodoetherification catalyzed by trinuclear Zn-bis(aminoimino)binaphthoxide Complex” (¹ Graduate School of Science, Chiba University, ² Faculty of Science, Rikkyo University) <u>Emi Amma</u> ¹ , Takumi K. Suzuki ¹ , Masahiro Yamanaka ² , Takayoshi Arai ¹
S11	“Synthetic method of 4-imidazolidinones under mild reaction conditions using cyclic ethynyl hypervalent iodine compounds” (Gifu pharmaceutical university) <u>Norihiro Tada</u> , Akichika Itoh
12	“Development of Highly Reactive Chiral Halonium Salt Catalysts” (Graduate School of Engineering, Chiba University) <u>Koki Obata</u> , Yasushi Yoshida, Takashi Mino, and Masami Sakamoto
13	“Asymmetric α-Cyanation of Alkenyl Esters Using a Chiral Tin Catalyst” (¹ Graduate School of Science, Chiba University; ² Nippon Chemical Co., Ltd.) <u>Yuki Hinata</u> ¹ , Takamichi Watanabe ² , Koji Midorikawa ² , Akira Yanagisawa ¹
14	“Invention of Chiral Organic Compounds with Tetrafluoroiodobenzyl Group” (¹ Graduate School of Science, Chiba University; ² Godo Shigen Co., LTD; ³ Chiba Iodine Resource Innovation Center, Chiba University) <u>Katsuhiko Moriyama</u> ¹ , Yukari Oka ¹ , Tatsu Kaiho ^{2,3}

S15	<p>“Synthesis of Substituted 1,3-Tetrahydrooxazines via Oxidative Aryl Rearrangement Using Hypervalent Iodine” (Graduate School of Science, Chiba University) <u>Mami Suzuki</u>, Katsuhiko Moriyama</p>
S16	<p>“α-Amination of Amides Utilizing Hypervalent Iodine Reagents Containing a Transferable (Diarylmethylene)amino Group” (Graduate School of Engineering, Osaka University) <u>Kazuki Kawanaka</u>, Kensuke Kiyokawa, Satoshi Minakata</p>
S17	<p>“Cyclic hypervalent iodine induced oxidative phenol and aniline couplings with phenothiazines” (¹College of Pharmaceutical Sciences, Ritsumeikan University, ²Research Organization of Science and Technology, Ritsumeikan University) <u>Kana Yanase</u>¹, Koji Morimoto^{1,2}, Kentaro Toda¹, Hitoshi Takeuchi¹, Toshifumi Dohi^{1,2}, Yasuyuki Kita²</p>
18	<p>“α-Azidation of Alkenyl Esters Using Tin Alkoxide Catalysts” (¹Graduate School of Science, Chiba University; ²Nippon Chemical Co., Ltd.) <u>Kohei Dezaki</u>¹, Takamichi Watanabe², Koji Midorikawa², Akira Yanagisawa¹</p>
19	<p>“α-Iodination of Alkenyl Esters Using Tin Alkoxide Catalysts” (¹Faculty of Science, Chiba University; ²Nippon Chemical Co., Ltd.; ³Graduate School of Science, Chiba University) <u>Etsushi Saito</u>¹, Takamichi Watanabe², Koji Midorikawa², Akira Yanagisawa³</p>
20	<p>“Synthesis of Pyrroles Using Titanium Tetraiodide/Trimethylsilyl Iodide Synergistically Induced Cyclization of Cyano Carbonyl Compounds” (Graduate School of Engineering, Mie University) <u>Iwao Hachiya</u>, Toshiki Takeshita, Syunya Tochigi</p>
S21	<p>“Development of Biocompatible Halogenating Reagents” (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>“Synthesis of [1]Benzothiopheno[2,3-<i>b</i>][1]benzothiophenes from 3-Arylbenzo[<i>b</i>]thiophenes Using Iodine” (Graduate School of Science, Chiba University) <u>Kazuki Ito</u>, Shuta Sakai, Kazuhiro Yoshida</p>
23	<p>“Oxyselenation and aminoselenation of alkenes utilizing an isolable selenenyl iodide” (School of Science, Tokyo Institute of Technology) <u>Satoru Kuwano</u>, Erika Takahashi, Yo Ishikawa, Jun Kikushima, Shohei Sase, Kei Goto</p>
S24	<p>“Flavin-Iodine-Catalyzed Aerobic Oxidative Synthesis of Imidazo[1,5-<i>a</i>]pyridines” (Interdisciplinary Faculty of Science and Engineering, Shimane University) Tatsuki Fukuda, Hiroki Iida</p>
S25	<p>“Synthesis of β-triflyloxy-α,α-bis(phenyliodonio)ethylenes: Development of ethylene units with three strong electron-withdrawing substituents” (Faculty of Pharmaceutical Sciences, Institute of Medical, Pharmaceutical, and Health Sciences, Kanazawa University) Kanetsugu Kuribayashi, Takuya Matsumoto, Munetaka Kunishima</p>
S26	<p>“Preparation and reactivity of β-trifluorosulfonyloxy vinylbenziodoxolones” (Faculty of Pharmaceutical Sciences, Aomori University) Akira Yoshimura, Tatsuya Suzuki, Akiharu Ueki, Akio Saito, Viktor V. Zhdankin, Tsugio, Kitamura</p>
S27	<p>“Internal Heavy Atom Effect of Iodine Enabling Photo-reaction via a Direct $S_0 \rightarrow T_n$ Transition” (¹Graduate School of Pharmacy, Chiba University, ²School of Pharmacy, Chiba University.) ¹Keita Yamazaki, ¹Tomohiro Yazawa, ¹Sho Nagasawa, ¹Honoka Yoneyama, ²Yuko Kotaka, ¹Masaya Nakajima, and ¹Tetsuhiro Nemoto</p>
28	<p>“Generation of <i>ortho</i>-Quinone Methides and [4+2] Cycloaddition Reactions Using Organic Photoredox Catalysts” (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>“Polymerization of aniline with iodine in organic solvents” (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)) Kyoka Komaba, Takuya Yonehara, Ryo Miyashita, Reiji Kumai, Hiromasa Goto</p>
S30	<p>“Development of Sulfonium Iodide Salts for Generating Hydrogen Iodide upon Light Irradiation” (¹Graduate School of Engineering, Osaka Metropolitan University; ²Graduate School of Engineering, Osaka Prefecture University) <u>Hyohun Park</u>¹, Kazuki Bunno², Shintaro Kodama^{1,2}, Akihiro Nomoto^{1,2}, Akiya Ogawa^{1,2}</p>
S31	<p>“Synthesis and mechanical property of iodine-compound conjugated poly(glycerol adipate) elastomers with biodegradability and radiopacity 2” (Graduate School of Science and Technology, Keio University) Yuya Oyama, Naruki Kurokawa, Atsushi Hotta</p>
32	<p>“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” (Graduate School of Engineering, Chiba University) <u>Hina Akiyama</u>, Motohiro Akazome, Shoji Matsumoto</p>
S33	<p>“Controlling Molecular Orientation of Disubstituted Asymmetric Organic Semiconductor Materials via Iodine-Iodine Interactions” (¹Graduate School of Organic Materials Science Yamagata University. ²Graduate School of Science and Engineering Yamagata University.) ◦Mai Hasada¹, Amane Matsunaga², Kakeru Hasumi², Daisuke Kumaki¹, Shizuo Tokito¹, Hiroshi Katagiri^{1,2}</p>
S34	<p>“Controlling Molecular Orientation and Charge Transport Properties of Asymmetric Organic Semiconductor Materials based on Halogen-Halogen Interactions” (¹Graduate School of Organic Materials Science, Yamagata University, ²Graduate School of Science and Engineering, Yamagata University.) ◦Taichi Sato¹, Hasumi Kakeru², Amane Matsunaga², Daisuke Kumaki¹, Shizuo Tokito¹, Hiroshi Katagiri^{*1,2}</p>
S35	<p>“Evaluation of Ion Transport in CH₃NH₃PbI₃ Single Crystals by Complex Impedance Measurement” (Graduate School of Science, Chiba University) Riku Taniguchi, Yasuhiro Yamada, Kenichi Oto</p>
36	<p>“Crystal Growth and Magnetic Properties of Samarium Triiodide as Quantum Spin Liquid Candidate” (¹ISSP, the University of Tokyo, ²Tokyo University of Science) Hajime Ishikawa¹, Ryosuke Kurihara², Takeshi Yajima¹, Daisuke Hamane¹, Yusei Shimizu¹, Toshiro Sakakibara¹, Akira Matsuo¹, Koichi Kindo</p>
S37	<p>“Theoretical verification of iodine, hydrogen, and far infrared rays for prevention and cure of all diseases” (M3 Lab. Inc. Osaka Univ.) Shozo Yanagida, (Holos Matsudo Clinics) Nobuyuki Murakami</p>
38	<p>“The effect of active ingredients such as iodine on pharyngeal infectious virus and bacteria” (¹Kobayashi Pharmaceutical Co., Ltd., ²Japan Textile Products Quality and Technology Center) Ayumi Nakatani¹, Kazuhiro Tori¹, Manabu Nozaki¹, Mitsuhiro Gomi¹, Eri Nakajima², Tomoki Nishida², Yasuo Imoto²</p>
39	<p>“Iodine retentivity of polysorbate 80 and antimicrobial activity of polysorbate-iodine complex” (Faculty of Engineering, Yamagata University; Ise Chemicals Corporation) Shuki Yamashita, 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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Beneficiary Name: YOUSO GAKKAI DAIHYOU TAKA AKI MIYAZAWA

Beneficiary Address: CIIRIC, CHIBA UNIVERSITY 1-33 YAYOICHO, INAGE-KU, CHIBA 263-8522 JAPAN