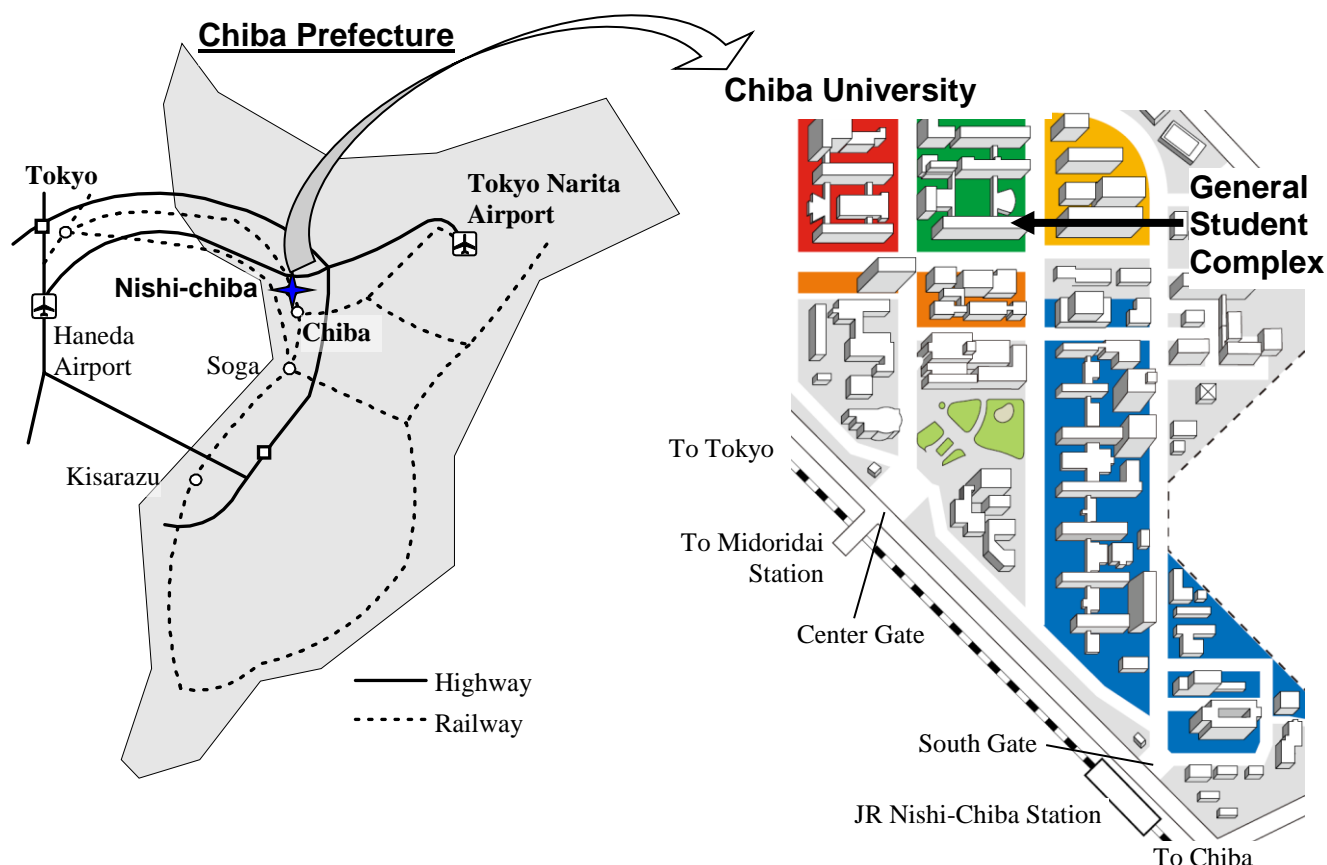


The 18th Symposium on the Society of Iodine Science

September 16, 2015

General Student Complex (“Sougou-kosha”) in Chiba University,
Chiba, Japan



SPONSORED by **SIS** The Society of Iodine Science

Chiba University

COSPONSOR : The Chemical Society of Japan

Japan Iodine Industry Association

General Information

The 18th Symposium is organized under the Society of Iodine Science (**SIS**) and is co-sponsored by a number of Chemical Societies and Industries in Japan. Within the framework of the Symposium,

- (a) Keynote lecture / Award lectures / Invited Lectures
- (b) Lectures / Poster Presentations, on original research and applications
- (c) Banquet

will be involved.

A Message as the SIS President

This is my message for the 18th Symposium of The Society of Iodine Sciences (SIS) as the president.

SIS has opened an international symposium at Chiba University, where the SIS office is located, together with the publications of the society report and the news letters (SIS Letters) as annual regular activities. Financial supports for excellent iodine researchers and a remarkable contributor to the development of iodine science have also been awarded from the society. In particular, the SIS symposium is the most important activity for the society because active discussions and valuable information exchanges on iodine from a variety of aspects are effectively given by participants from different fields and generation in the symposium. The 18th symposium in this year will be set up on 16th September (15th September for the preparation).

The 18th SIS symposium is well organized by the symposium committee (a chairman: Dr Shoji Matsumoto, Graduate School of Engineering, Chiba University), similar to the previous symposiums. The content of symposium is composed of one award lecture (Prof. Kazuaki Ishihara: Nagoya University), three invited lectures, including two oversea speakers (Prof. Pierangelo Metrangolo: Politecnico di Milano, Prof. Stefan M. Huber: Ruhr University Bochum, and Prof. Tsutomu Miyasaka: Tohin University of Yokohama), six oral presentations, and twenty eight poster presentations (twenty one short oral speeches). In addition, successful results obtained under financial supports by SIS will be presented

It should be very important for us to develop the effective availability of quite valuable iodine source in Japan. I strongly hope that iodine science and technology are continuously and innovatively developed by more extensive contribution of iodine-participating persons, especially the society members.

Tsutomu Ishikawa, Ph D
Professor Emeritus, Chiba University

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. 15, 2015

Registration Fee (for **SIS** members, including 1 booklet of abstracts; transactions)

Reduced Registration Fee (before August 15, 2015):

SIS -Members	1,000 yen
Members of Co-Sponsored Society [☆]	1,000 yen
Non-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)

After Aug. 15, extra 1,000 yen is needed in every category. After registration by E-mail or Facsimile, you will pay the reduced registration fee at the symposium reception desk (On-site payment).

Banquet (at COOP Restaurant Food Court 2, Chiba University):

Every Participants	4,000 yen
(Every Students)	2,000 yen

Time Table (September 16th)

LECTURES General Student Complex :Building B	
9:30~9:35	<Opening Address > TSUTOMU ISHIKAWA (Chairman of SIS)
Chair : T. Kaiho	
9:35~10:15	<Invited Lecture> PIERANGELO METRANGOLO (Politecnico di Milano) “ Supramolecular Amplification of Amyloid Self-Assembly by Iodination ”
Chair : T. Arai	
10:15~10:30	<Oral Presentation> <u>Y. HORIUCHI</u> , A. YAMADA, H. NAMBU, T. FUJIWARA, T. YAKURA (Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama) “ Development of 2-Iodobenzamide Catalyst: Application to Oxidative Cleavage Reaction of Tetrahydrofuran-2-methanols ”
10:30~10:45	<Oral Presentation> <u>R. YAZAKI</u> , K. TOKUMASU, T. OHSHIMA (Graduate School of Pharmaceutical Sciences, Kyushu University) “ Direct Catalytic Chemoselective Amination Using Iminoiodinane: A Concise Route to α-Amino Acid Derivatives ”
10:45~11:00	<Oral Presentation> <u>K. OKAMOTO</u> , N. SAKATA, K. OHE (Kyoto University) “ Copper-Catalyzed Cyanation of Organoboronic Acids with Cyanogen Iodide ”
Chair : S. Minakata	
11:00~11:40	<Invited Lecture> STEFAN M. HUBER (Ruhr University Bochum) “ Multidentate Halogen Bonding in Solution ”
11:45~12:35	<Short Speeches on Poster Presentations>
POSTER PRESENTATIONS General Student Complex: Building A, ROOM A201 (2F)	
12:00~14:45	Display 12:00~14:45 , Presentation, question and answer 13:15~14:45
COMMENDATION CEREMONY and LECTURES General Student Complex: Building B	
14:55~15:00	Commendation ceremony
Chair : T. Kitamura	
15:00~15:40	<Award Lecture> KAZUAKI ISHIHARA (Graduate School of Engineering, Nagoya University) “ Rational Design of Iodine Catalysts and Reagents for Highly Selective Organic Transformation Reactions ”
Chair : H. Kanoh	
15:40~15:55	<Oral Presentation> <u>S. AMACHI</u> (Chiba University) “ Iodide-Oxidizing Enzyme: From Discovery to Its Application ”
15:55~16:10	<Oral Presentation> J. FRANKS (Clarion Water LLC) “ Iodine Dosing System for Application in Agriculture, Food Production, Golf Courses, and Industry in the USA ”
16:10~16:25	<Oral Presentation> <u>N. KAGAWA</u> ^{1,2} , M. SUZUKI ^{1,3} , N. KOGURE ¹ , K. TOUME ¹ (¹ Graduate School of Pharmaceutical Sciences, Chiba University; ² Center for Environment, Health and Field Sciences, Chiba University; ³ Interdisciplinary Graduate School of Science and Engineering, Shimane University) “ Iodine NMR Spectrometric Identification of Organic Compounds ”
Chair : S. Yanagida	
16:25~17:05	<Invited Lecture> TSUTOMU MIYASAKA (Graduate School of Engineering, Toin University of Yokohama) “ High Efficiency Thin Film Photovoltaic Device and Photodiode Device Based on Organolead Iodide Perovskite ”
17:30~19:00	BANQUET COOP Restaurant Food Court 2

An introduction by the chairman and a five minute question-and-answer period are included for the every lecture.

Poster Presentation

All posters should be posted between 12:00 and 14:45.

Presenters are requested to be at their papers for discussions:

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

No.	“Title” Author, Co-authors (Affiliation)
S01	<p>“Diaryl-λ^3-bromane-induced Iodine/Triflate Conversion of Iodoalkanes :A New Methodology for <i>In Situ</i> Generation of Alkyl(aryl)-λ^3-iodane” <u>R. KAWASUMI</u>¹, K. MIYAMOTO^{1,2}, Y. MASUMOTO¹, M. UCHIYAMA^{1,2} (¹Graduate School of Pharmaceutical Sciences, The University of Tokyo; ²RIKEN)</p>
02	<p>“Development of 1,4-Benzdiyne Strategy Using Hypervalent Iodine” <u>T. KITAMURA</u>, K. GONDO, J. OYAMADA (Department of Chemistry and Applied Chemistry, Saga University)</p>
S03	<p>“Desilylative Acyloxylation of Trimethylsilylarenes” <u>K. GONDO</u>, J. OYAMADA, T. KITAMURA (Graduate School of Science and Engineering, Saga University)</p>
S04	<p>“Hypervalent Iodine-Mediated <i>gem</i>-Difluorination of Styrene Derivatives” <u>K. MUTA</u>, J. OYAMADA, T. KITAMURA (Department of Chemistry and Applied Chemistry, Saga University)</p>
S05	<p>“Glycol Cleavage Using Sodium Hypochlorite Catalyzed by Iodobenzene and Its Application” <u>R. MATSUSHIMA</u>, K. YAMAZAKI, S. YONEYAMA, R. OSUGI, Y. KIKKAWA, M. KIRIHARA (Department of Materials and Life Sciences, Shizuoka Institute of Technology)</p>
S06	<p>“Highly Efficient Metal-Free Arylation Method of Carboxylic Acids Utilizing Electron-rich Diaryliodonium Salts” T. DOHI, K. SUMIDA, <u>S. MIZUNO</u>, K. SAMURA, A. KATO, Y. KITA (College of Pharmaceutical Sciences, Ritsumeikan University)</p>
S07	<p>“Concise and Clean Synthesis of Various Iodonium Salts by Three-Component Dehydrative Condensation” T. DOHI, K. SUMIDA, <u>Y. KOJIMA</u>, A. KATO, K. SAMURA, Y. KITA (College of Pharmaceutical Sciences, Ritsumeikan University)</p>
S08	<p>“The Reactions of Allyl Alcohol and Boronic Acid with Iodonium Ylide Reagent” <u>M. TAKADA</u>, S. ARIMORI, N. SHIBATA (Department of Frontier Materials, Nagoya Institute of Technology)</p>
S09	<p>“Synthesis of Diaryliodonium Salts for Trifluoromethanesulfonyl-Arylation” <u>P. DAS</u>, K. MATSUZAKI, E. TOKUNAGA, N. SHIBATA (Department of Nanopharmaceutical Science, Nagoya Institute of Technology)</p>
S10	<p>“Oxidative Cation-π Cyclization Using Hypervalent Iodine(III)” <u>M. SHIMOGAKI</u>, M. FUJITA, T. SUGIMURA (Graduate School of Material Science, University of Hyogo)</p>
S11	<p>“Halogen Bonding-Induced Catalytic Enantioselective Iodocycloetherification” <u>Y. LU</u>¹, H. NAKATSUJI², K. ISHIHARA^{1,3} (¹Nagoya University; ²Kwansei Gakuin University; ³CREST)</p>
S12	<p>“Catalytic Asymmetric Iodocyclization Using Chiral Aminoiminophenoxy Copper Complex” <u>O. WATANABE</u>¹, S. YABE², M. YAMANAKA², T. ARAI¹ (¹Graduate School of Science, Chiba University; ²Graduate School of Science, Rikkyo University)</p>
S13	<p>“Ritter-Type Amination of C-H Bonds at Tertiary Carbon Centers Using <i>N</i>-Hydroxyphthalimide and Iodic Acid” <u>K. TAKEMOTO</u>, K. KIYOKAWA, S. MINAKATA (Graduate School of Engineering, Osaka University)</p>
S14	<p>“Iodine(I)-Catalyzed Inter- and Intramolecular Hetero-enyne Metathesis Reaction” <u>K. TATEISHI</u>, K. MURAI, A. SAITO (Graduate School of Engineering, Tokyo University of Agriculture and Technology)</p>
S15	<p>“Iodo-Mannich Reaction of γ-Alkoxy-α, β-alkynyl Ketone Derivatives Promoted by Titanium Tetraiodide” <u>I. HACHIYA</u>, K. SAKATA, K. YASHIRO, I. MIZOTA, M. SHIMIZU (Graduate School of Engineering, Mie University)</p>

16	<p>“Synthesis of Substituted Alkenes by One-pot Cross Coupling Reactions Using Vinyl Iodides as a Key Intermediate” <u>S. KAWAGUCHI</u>, Y. GONDA, A. NOMOTO, A. OGAWA (Osaka Prefecture University)</p>
17	<p>“One-Pot Synthesis of Oxazoles from Ketone Using Molecular Iodine” <u>S. IMAI</u>, K. MORIYAMA, H. TOGO (Graduate School of Science, Chiba University)</p>
S18	<p>“Formation of Isoquinolinium Salts by the Iodine-induced Cyclization of 2-(<i>o</i>-Alkynylphenyl)imidazole Derivatives” S. MATSUMOTO, <u>S. KIKUCHI</u>, M. AKAZOME (Graduate School of Engineering, Chiba University)</p>
19	<p>“Reaction of Benzylalcohol Derivatives with HI Gas” S. MATSUMOTO¹, <u>M. NAITO</u>¹, M. AKAZOME¹, Y. OTANI² (¹Graduate School of Engineering, Chiba University; ²Godō Shigen Co., LTD)</p>
S20	<p>“Syntheses of Stable Primary-Alkyl-Substituted Selenenyl Iodides by Taking Advantage of Cavity-Shaped Molecular Frameworks” <u>R. KIMURA</u>, R. KAKIMOTO, S. SASE, K. GOTO (Graduate School of Science and Engineering, Tokyo Institute of Technology)</p>
S21	<p>“Room-Temperature Phosphorescence of Diarylmethanato-boron Difluorides Possessing Iodine Atoms in the Crystalline States” <u>A. SAKAI</u>¹, E. OHTA^{1,2}, Y. MATSUI^{1,2}, H. IKEDA^{1,2} (¹Graduate School of Engineering, Osaka Prefecture University; ²RIMED, Osaka Prefecture University)</p>
S22	<p>“Preparation of Ti-C-I System Films by RF Sputtering” <u>K. FUJIMAKI</u>¹, K. MUKOUYAMA², Y. SAKAMOTO³ (¹Graduate School, Chiba Institute of Technology; ²Faculty of Engineering, Chiba Institute of Technology; ³Chiba Institute of Technology)</p>
23	<p>“Formation of the Iodine Complexes in the Polyvinyl Alcohol Film Containing Photo Cross-Linking Group” <u>D. KASHIWAI</u>, Y. EMA, S. FUJISAWA, N. IWAMURA, Y. SATO, M. MIZUKOSHI, T. NAGANO, N. ICHIKUNI, S. TAKAHARA (Chiba University)</p>
S24	<p>“Molecular Modeling of Isotropic Conductivity of Pentaiodide (I₅⁻) Salts” <u>S. YANAGIDA</u>¹, S. YANAGISAWA², H. SEGAWA³ (¹Osaka University; ²Ryukyū University; ³University of Tokyo, RCAST)</p>
S25	<p>“Anti-Oxidant Function of Iodine-derived Chemicals” <u>S. YANAGIDA</u>¹, T. SUZUKI² (¹Osaka University; ²Japan Iodine Organic Complex Society)</p>
S26	<p>“Effect of Potassium Iodide Supplementation to Feed on Lipid Metabolism in Laying Hens” <u>K. ITO</u>¹, R. TAGUCHI², M. NISHIMUKAI^{1,2}, J. YOKOYAMA³, K. Kita^{1,2} (¹The United Graduates School of Agricultural Sciences, Iwate University; ²Faculty of Agriculture, Iwate University; ³Nosan Corporation)</p>
27	<p>“Preparation of Silver-Chloride Impregnated Fiber and Removal of Iodide Ions” <u>K. TAKAHASHI</u>¹, K. FUJIWARA², W. AMAKAI¹, S. KAWAI-NOMA¹, D. UMENO¹, K. SAITO¹, T. SUGO² (¹Chiba University; ²KJK Co., Ltd.)</p>
28	<p>“Influence of Underground Brine Treatment on Iodine Production” <u>N. YOKOTA</u>¹, Y. WATANABE¹, M. SHIMAZAKI², Y. OTSUKA³ (¹Kanto Natural Gas Development Co., LTD; ²Nihon Tennen Gas Co., LTD; ³Godō Shigen Co., LTD)</p>

Correspondence

For more information please contact to Secretariat of **SIS** .

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