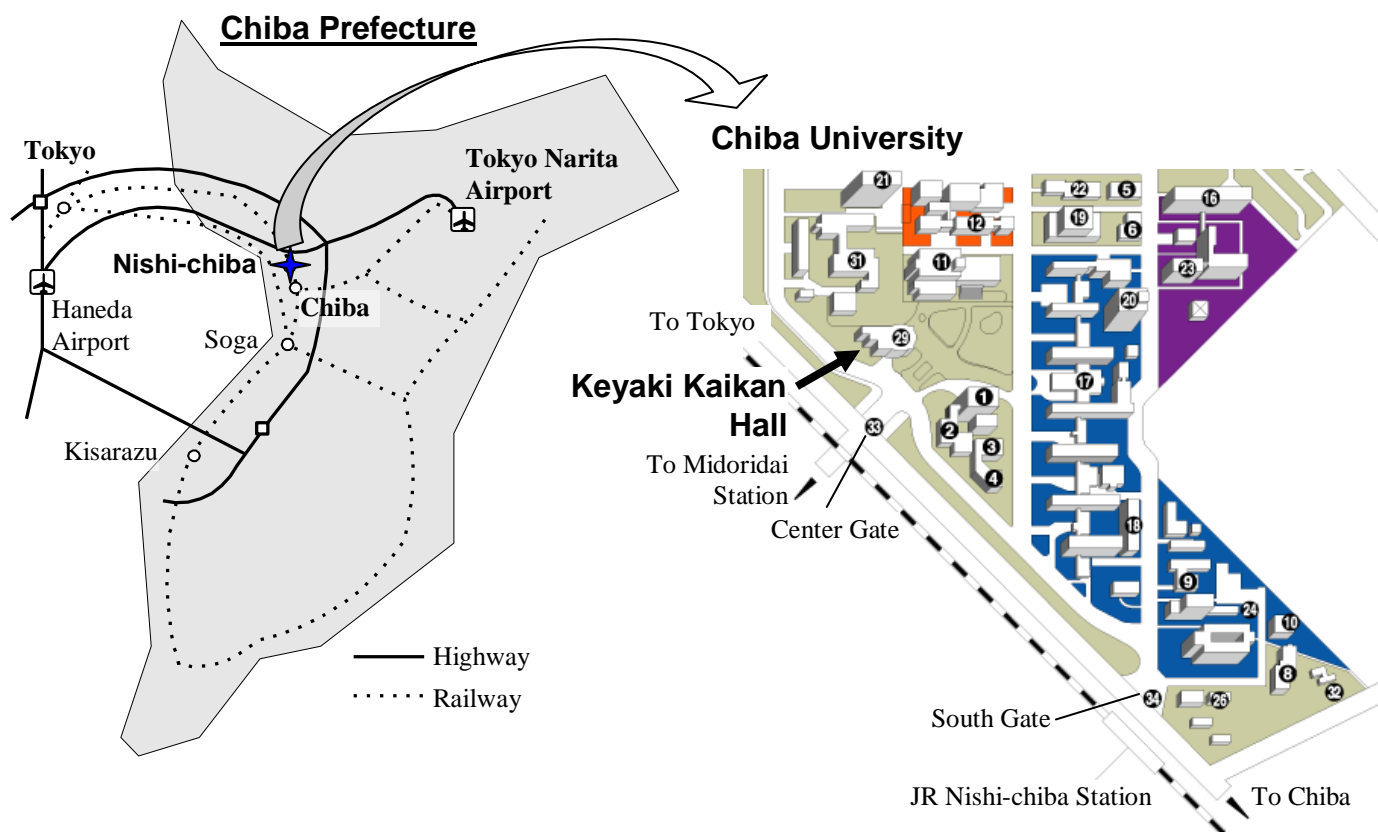


The 16th Symposium on the Society of Iodine Science

September 18, 2013

Keyaki Kaikan Hall 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 16th 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.

Message from the Chairman of **SIS**

This is my message for the 16th Symposium of The Society of Iodine Sciences (SIS) as the president.

SIS has opened an international symposium at Chiba University Convention Hall (KEYAKI KAIKAN) and published the society report and the news letters (SIS Letters) as regular activities in every year. 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, symposium is the most important activity for the society because active discussion and valuable information exchange on iodine from a variety of aspects are effectively given by participants from different fields and generation in the symposium. Since last year the symposium has normally been held in September and, thus, the 16th symposium in this year will be set up on 18th September (17th September for the preparation).

The 16th 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 three invited lectures, including a talk delivered by Prof. Anna Blazewicz (Medical University of Lublin, Poland), one award lecture, six oral presentations, and forty two poster presentations (twenty short oral speeches). In addition, it should be noted that the results from research projects financially supported 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 hope the continuously innovative development of iodine science and technology by more extensive contribution of iodine-participating persons, especially the society members.

Tsutomu ISHIKAWA
(Professor, Graduate School of Pharmaceutical Sciences, 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. 17, 2013

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

Reduced Registration Fee (before August 17, 2013):

SIS -Members	1,000 yen
Members of Co-Sponsored Society [☆]	1,000 yen
Non-members [☆]	5,000 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. 17, 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 KEYAKI Reception Hall, Chiba University):

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

Time Table (September 18th)

LECTURES KEYAKI Hall (1F)	
9:15~ 9:20	<Opening Address > TSUTOMU ISHIKAWA (Chairman of SIS)
Chair : T. Kaiho	
9:20~10:00	<Invited Lecture> A. BŁAŻEWICZ (Medical University of Lublin) “The Significance of Ion Chromatography Among Other Methods for the Determination of Iodine in Sample with Complex Matrices”
Chair : T. Arai	
10:00~10:15	<Oral Presentation> <u>Y. FUSE</u> , Y. URAKAWA, N. TSUKADA, J. YOKOYAMA, Y. SHISHIBA, M. IRIE (National Center for Child Health and Development; Kamakura Women' University; Kagawa Nutrition University; Nosan Corporation; Foundation for Growth Science) “Current Status of Iodine Intake in Japanese”
10:15~10:30	<Oral Presentation> <u>I. HACHIYA</u> , S. HATA, D. FUKUDA, S. ARIGA, T. NISHI, I. MIZOTA, M. SHIMIZU (Graduate School of Engineering, Mie University) “Reductive Ring-Opening Reaction of Azetidin-3-ones and Their O-Alkyl Oximes Promoted by Titanium Tetraiodide”
10:30~10:45	<Oral Presentation> <u>N. TADA</u> , A. FUJIYA, T. NOBUTA, T. MIURA, A. ITOH (Gifu Pharmaceutical University) “Cross-Dehydrogenative Coupling Reaction between Tertiary Amines and Carbon Nucleophiles Using Catalytic Amount of Molecular Iodine”
Chair : Y. Otani	
10:45~11:25	<Invited Lecture> T. H. OKABE (Institute of Industrial Science, The University of Tokyo) “Refining and Recycling Technologies for Metals by Utilizing Iodides”
11:30~12:30	<Short Speeches on Poster Presentations>
POSTER PRESENTATIONS KEYAKI Reception Hall (3F)	
12:00~14:45	Display 12:00~14:45 , Presentation, question and answer 13:15~14:45

COMMENDATION CEREMONY and LECTURES KEYAKI Hall (1F)	
14:55~15:05	Commendation ceremony
Chair : T. Fujikawa	
15:05~15:45	<Award Lecture> H. YAJIMA (Tokyo University of Science) “Development of Environmentally-responsive Nano-Biomaterials Comprising of Molecular Assembly β1,4-Glucan/Iodine Complexes and Their Medical Evolution”
Chair : K. Ishihara	
15:45~16:00	<Oral Presentation> <u>S. YANAGIDA</u> (Emeritus Prof., Osaka University, Visiting Prof. RCAST, Univ. Tokyo) “Molecular Orbital Theory Understanding of the Hypervalent Iodine-Induced Oxidative Cross-Coupling ”
16:00~16:15	<Oral Presentation> <u>M. KANAME</u> , H. SASHIDA (Faculty of Pharmaceutical Sciences, Hokuriku University) “Synthesis of Benzothiazines and Selenazines via Iodocyclization”
16:15~16:30	<Oral Presentation> <u>M. FUJITA</u> , K. MORI, M. SHIMOGAKI, T. SUGIMUARA (Graduate School of Material Science, University of Hyogo) “Asymmetric Synthesis of 4-Oxyisochroman-1-one Natural Products Using an Optically Active Hypervalent Iodine”

Chair : Y. Kita	
16:30~17:10	<Invited Lecture> S. FUSE, S. SUGIYAMA, M. M. MAITANI, Y. WADA, Y. OGOMI, S. HAYASE, T. KAIHO, <u>T. TAKAHASHI</u> (Department of Applied Chemistry, Tokyo Institute of Technology; Graduate School of Life Science Systems Engineering, Kyushu Institute of Technology; Kanto Natural Gas Development Co., Ltd., Brine Resources Research & Technology Division; Faculty of Pharmaceutical Sciences, Yokohama College of Pharmacy) “Elucidating the Structure-Property Relationship of Donor-π-Acceptor Dyes for DSSCs through Rapid Library Synthesis via a One-pot Procedure”

17:30~19:00	BANQUET KEYAKI Reception Hall (3F)
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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:

No.	“Title”	Author, Co-authors (Affiliation)
01	“Iodoarene-Catalyzed Fluorination of 1,3-Dicarbonyl Compounds”	T. KITAMURA, <u>K. MUTA</u> , S. KURIKI (Saga University)
02	“Iodoarene-Catalyzed Oxidative Cleavage of 1,2-Diols Using O₂ as Terminal Oxidant”	K. MIYAMOTO, <u>J. YAMASHITA</u> , S. OGASA, M. OCHIAI (University of Tokushima)
03	“Novel Alcohol Oxidation Using 2-Iodobenzamide Catalyst”	<u>A. YAMADA</u> , N. NODA, H. NAMBU, T. FUJIWARA, T. YAKURA (School of Medicine and Pharmaceutical Sciences, University of Toyama)
04	“Coupling Reaction of Alkoxyarenes Using Iodonium Salts as Oxidants”	N. YAMAOKA, K. SUMIDA, <u>S. NAKAMURA</u> , T. DOHI, Y. KITA (College of Pharmaceutical Sciences, Ritsumeian University)
05	“Hydrazone-Palladium Catalyzed Heck Type Reaction Using Hypervalent Iodine Reagent”	<u>K. WATANABE</u> , T. MINO, T. ABE, M. SAKAMOTO (Graduate School of Engineering, Chiba University)
06	“Oxidative C–N Coupling Reaction at α-Position of Ketones Utilizing Iodide/TBHP Catalytic Oxidation System”	<u>M. TSUKAHARA</u> , M. UYANIK, K. ISHIHARA (Nagoya University; CREST)
07	“Synthesis of Novel Functionalized Hypervalent Iodine-Benzyne Precursors and Application to Polycyclic Heterocycles”	<u>K. GONDO</u> , T. KITAMURA (Graduate School of Science and Engineering, Saga University)
08	“Synthesis and Application of Indolyl(aryl)iodonium Imides”	<u>K. ISHIDA</u> , K. MORIYAMA, H. TOGO (Graduate School of Science, Chiba University)
09	“Asymmetric Oxidation of Alkene Catalyzed by Chiral Hypervalent Iodine”	<u>M. SHIMOGAKI</u> , M. FUJITA, T. SUGIMURA (Graduate School of Material Science, University of Hyogo)
10	“Novel Asymmetric Reactions Catalyzed by Ag-Chiral Phosphine Complexes”	<u>R. MIYAKE</u> , K. YOSHIDA, A. YANAGISAWA (Graduate School of Science, Chiba University)
11	“Effect of Iodine Reagents on Asymmetric Transfer Hydrogenation Catalyzed by New Ir Catalyst Bearing Bicyclic NHC Ligand”	<u>T. KAMIMURA</u> , H. KUWABARA, M. HASEGAWA, K. YOSHIDA, A. YANAGISAWA (Graduate School of Science, Chiba University)
12	“Catalytic Asymmetric Iodolactonization Using 3,3'-Bis(aminoimino)BINOL-Zn Complex”	<u>N. SUGIYAMA</u> , T. ARAI (Graduate School of Science, Chiba University)

13	<p>“Mechanism on Catalytic Asymmetric Iodolactonization Using Chiral Bis(imidazolidine)pyridine-Ni(OAc)₂” <u>E. MATSUMURA</u>, S. KAJIKAWA, T. ARAI (Graduate School of Science, Chiba University)</p>
14	<p>“Synthesis of Aziridines Using Iminoiodinane Catalyzed by Iodine and Ammonium Salt” K. KIYOKAWA, <u>T. KOSAKA</u>, S. MINAKATA (Graduate School of Engineering, Osaka University)</p>
15	<p>“One-Pot Synthesis of Bis-Indolylmethanes Using Iodine, Molecular Oxygen, and Visible Light” <u>A. FUJIYA</u>, T. NOBUTA, N. TADA, T. MIURA, A. ITOH (Gifu Pharmaceutical University)</p>
16	<p>“Formation of Thioamidium Salts by Iodine-Induced Cyclization Reaction and Their Reactivity” S. MATSUMOTO, <u>D. TAKADA</u>, H. KAGEYAMA, M. AKAZOME (Graduate School of Engineering, Chiba University)</p>
17	<p>“Application of Photoinduced CO₂ Fixation Reaction by Alkyl Iodide and Samarium Diodide to Synthesis of Heterocyclic Compounds” <u>A. NOMOTO</u>, T. FUJIYAMA, K. HYAKUMURA, A. OGAWA (Department Applied Chemistry, Graduate School of Engineering, Osaka Prefecture University)</p>
18	<p>“Development of Novel Reagents for Electrophilic Pentafluorophenylation Based on Hypervalent Iodine Compounds” <u>K. MATSUZAKI</u>, K. OKUYAMA, E. TOKUNAGA, N. SHIBATA (Graduate School of Engineering, Nagoya Institute of Technology)</p>
19	<p>“Alkylation Reaction of Bimolecular Ketones with HI Gas” S. MATSUMOTO, <u>S. KOITABASHI</u>, M. AKAZOME, Y. OTANI (Graduate School of Engineering, Chiba University; Godo Shigen Sangyo Co., LTD)</p>
20	<p>“Theoretical Study of the Molecular Structures and the Electronic Excited States of Iodine Complexes” <u>S.TOKUMARU</u>, A.IMAI, S.YABUSHITA (Faculty of Science and Technology, Keio University)</p>
21	<p>“Theoretical Study on the Collision Induced Dissociation Processes of Trihalide Anions” S. KOWASHI, S. ABE, K. ITO, <u>S. YABUSHITA</u> (Keio University)</p>
22	<p>“Iodine NMR Spectrometric Identification of Organic Compounds” <u>N. KAGAWA</u>, M. SUZUKI, N. KOGURE (Graduate School of Pharmaceutical Sciences, Chiba University)</p>
23	<p>“XAFS Analysis on Neighborhood Structure around Iodine in PVP-I” H. SAKUMA, T. KANEKO, T. KUBO, K. TAKAHASHI, T. KONISHI, T. FUJIKAWA (Graduate School of Advanced Integration Science, Chiba University; Faculty of Science, Chiba University; Ebihara Hospital)</p>
24	<p>“Dependences of the Structural Characteristics of Amylose-Iodine Complexes on the Reaction Factors” <u>T. TOYOTA</u>, M. ISHII, K. TSUCHIYA, H. YAJIMA (Tokyo University of Science)</p>
25	<p>“Physicochemical Characteristics of the Complexes of Curdlan-PEG Copolymer with Iodine” <u>Y. HONDA</u>, M. ISHII, K. TSUCHIYA, H. YAJIMA (Tokyo University of Science)</p>
26	<p>“Preparation and Physicochemical Properties of the Complexes of Curdlan-PNIPAAm Copolymers with Iodine/Iodide, and their Bioactivities” <u>M. KATO</u>, M. YOKOYAMA, K. TSUCHIYA, H. YAJIMA (Tokyo University of Science)</p>
27	<p>“Preparation and Physicochemical property of the Complexes of Chitosan-g-PEGFA Copolymer with Iodine” <u>S. KAI</u>, R. FUKAHORI, S. SAGA, K. TSUCHIYA, H. YAJIMA (Tokyo University of Science)</p>
28	<p>“Physicochemical Properties of the Complexes of Chitosan-PEG Graft and Block Copolymers with Iodine/Iodide, and Their Bioactivities” <u>S. SAGA</u>, S. UEDA, K. TSUCHIYA, H. YAJIMA (Tokyo University of Science)</p>
29	<p>“Electron Density Modification of Single Wall Carbon Nanotubes by Liquid-Phase Molecular Adsorption of Hexaiodobenzene” <u>M. LU</u>, T. OHBA, K. KANEKO, K. HATA, M. YUMURA, S. IJIMA, H. KOMATSU, A. SAKUMA, H. KANO (Department of Chemistry, Graduate School of Science, Chiba University; Exotic Nanocarbon Research Center, Shinshu University; Center of Advanced Carbon Materials, AIST; Meijo University; Technology Center. Godo Shigen Co.)</p>
30	<p>“Synthesis of Disulfide Compounds Using Iodine and Its Application for a Secondary Battery” <u>N. TANIFUJI</u>, T. HAMAHASHI, K. ABE, Y. IRIZAWA (Department of Materials Science, Yonago National College of Technology)</p>

31	<p>“Synthesis of Disulfide Polymer Using No Solvent Reaction and Its Application for a Cathode Active Material for a Lithium Secondary Battery” <u>K. ABE</u>, T. HAMAHASHI, Y. IRIZAWA, N. TANIFUJI (Department of Materials Science, Yonago National College of Technology)</p>
32	<p>“Preparation Method of New Porous Carbons Using Iodide Templates Formed by Iodine Stabilization II – Influence of Alkali Metal Species and Molecular Weight of Starting Materials –” <u>T. MATSUMURA</u>, H. SAKANE, N. MIYAJIMA, O. TANAIKE (University of Yamanashi; AIST)</p>
33	<p>“Identification of Inhibitory Compounds of Thyroid Hormone Biosynthesis-Related Diacylglycerol Kinase α” <u>N. KUNII</u>, K. LIU, F. SAKANE (Graduate School of Science, Chiba University)</p>
34	<p>“Pharmaceutical Studies of Levothyroxine Sodium Suppository Prepared as Hospital Formulation” <u>K. MASUDA</u>, Y. HAMADA, M. OKUBO, H. NAKASA, Y. SEKINE, I. ISHII (Division of Pharmacy, University Hospital, Chiba University School of Medicine; Faculty of Pharmacy, Chiba University; Graduate School of Pharmaceutical Sciences, Chiba University)</p>
35	<p>“Study on Iodine Intake from multipurpose “Tuyu” at daily cooking” <u>Y. URAKAWA</u>, N. TSUKADA, J. YOKOYAMA, M. YAMAGUCHI (Kamakura Women’s University; ²Nutrition Women’s University; Nosan Corporation)</p>
36	<p>“Effect of Iodine Supplementation to Feeds on the Composition of Egg Proteins” <u>K. ITO</u>, K. KITA, J. YOKOYAMA (Faculty of Agriculture, Iwate University; Nosan Corporation)</p>
37	<p>“Distribution and Diversity of Putative Iodide-Oxidizing Enzymes (IoxA) in Nature” <u>K. SHIROYAMA</u>, Y. KAWASAKI, A. EHARA, S. AMACHI (Chiba University)</p>
38	<p>“Characterization of an Anaerobic Microbial Consortium Capable of Reductive Deiodination of 2,4,6-Triiodophenol” <u>Y. KAWAMURA</u>, Y. OBA, S. AMACHI (Chiba University)</p>
39	<p>“Bromate and Iodate-Reducing Mechanism of <i>Rhodococcus equi</i> Br-6” <u>N. TAMAI</u>, T. ISHII, S. AMACHI (Chiba University)</p>
40	<p>“Rice (<i>Oryza sativa</i> L.) Roots Have Iodate Reduction Activity in Response to Iodine” <u>S. KATO</u>, T. WACHI, K. YOSHIHARA, T. NAKAGAWA, A. ISHIKAWA, D. TAKAGI, A. TEZUKA, H. YOSHIDA, S. YOSHIDA, H. SEKIMOTO, M. TAKAHASHI (United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology; Faculty of Agriculture, Utsunomiya University; ³National Institute of Radiological Sciences)</p>
41	<p>“The Challenge of Iodine Analysis –Environmental and Biological Application” <u>A. BŁAŻEWICZ</u>, E. MAZUR, W. DOLLIVER, R. KOCJAN (Department of Analytical Chemistry, Medical University of Lublin; Medical Microbiology Department, Medical University of Lublin)</p>
42	<p>“Origin of Hot Spring Waters from Hokkaido Estimated by Iodine Isotope Ratios and Halogen Concentrations” <u>N. OKABE</u>, Y. MURAMATSU, M. ARAI, H. MATSUZAKI, M. TAKAHASHI, K. KAZAHAYA (Gakushuin University; The University of Tokyo; AIST)</p>

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