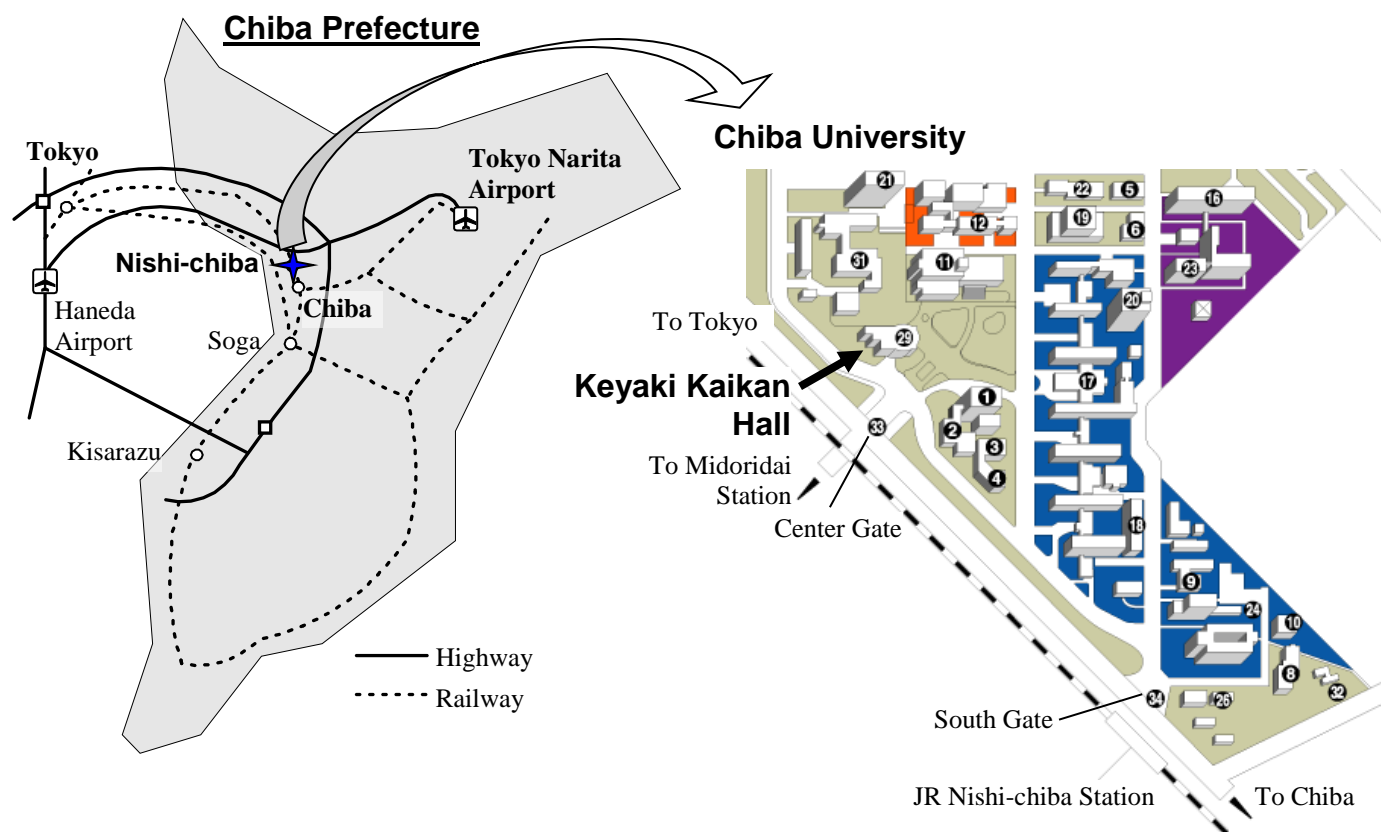


The 17th Symposium on the Society of Iodine Science

September 19, 2014

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 17th 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 17th Symposium of The Society of Iodine Sciences (SIS) as the president.

SIS has opened an international symposium at Chiba University Convention Hall (KEYAKI KAIKAN) 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 17th symposium in this year will be set up on 19th September (18th September for the preparation).

The 17th 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 four invited lectures, including two overseas speakers (Prof. Chris Yeager, Los Alamos National Laboratory and Prof. P. Shing Ho, Colorado State University), six oral presentations, and twenty six poster presentations (sixteen short oral speeches). In addition, 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 strongly hope that iodine science and technology is continuously and innovatively developed by more extensive contribution of iodine-participating persons, especially the society members.

Tsutomu Ishikawa
Professor of 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. 16, 2014

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

Reduced Registration Fee (before August 16, 2014):

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. 16, 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 19th)

LECTURES KEYAKI Hall (1F)	
9:30~9:35	<Opening Address > TSUTOMU ISHIKAWA (Chairman of SIS)
Chair : S. Amachi	
9:35~10:15	<Invited Lecture> CHRIS M. YEAGER (Los Alamos National Laboratory) “Diverse Microbial Activities Facilitate Iodide Oxidation”
Chair : T. Arai	
10:15~10:30	<Oral Presentation> <u>K. MURAI</u> , N. SHIMIZU, H. FUJIOKA (Graduated School of Pharmaceutical Sciences, Osaka University) “Enantioselective Iodolactonization of Allenic Acid with Molecular Iodine”
10:30~10:45	<Oral Presentation> <u>I. HACHIYA</u> , K. SAKATA, S. KAYAKI, I. MIZOTA, M. SHIMIZU (Graduate School of Engineering, Mie University) “Titanium Tetraiodide Induced Cyclization of Cyanoketones into Iodoisoquinolines”
10:45~11:00	<Oral Presentation> K. YAMAZAKI, W. SONE, R. MATSUSHIMA, S. YONEYAMA, <u>M. KIRIHAR</u> (Department of Materials and Life Sciences, Shizuoka Institute of Technology) “Glycol Cleavage Using Sodium Hypochlorite Pentahydrate Catalyzed by Iodobenzene”
Chair : Y. Otani	
11:00~11:40	<Invited Lecture> A. GOTO (Institute for Chemical Research, Kyoto University) “Organo-Catalyzed Living Radical Polymerization Using Organic Iodides: Controlled Polymer Synthesis via Unique Feature of Iodine”
11:45~12:25	<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
LECTURES KEYAKI Hall (1F)	
Chair : Y. Muramatsu	
15:00~15:40	< Invited Lecture> T. YOSHINO (NICHI-IKO Pharmaceutical Co., LTD.) “Process of the Additional Effect Approval about the Stable Iodine Ethical Drug Only in Japan -The Prevention and Reduction of the Internal Radiation Exposure of the Thyroid Gland with the Radioactive Iodine -”
Chair : H. Kanoh	
15:40~15:55	<Oral Presentation> <u>N. TSUKADA</u> , Y. URAKAWA, M. YAMAGUCHI, T. KAWABATA, S. NISHIMURA, Y. YAMAUCHI, Y. KAGAWA, J. YOKOYAMA, Y. FUSE (Kagawa Nutrition University Institute of Nutrition Sciences; Kamakura Women’s University; Kagawa Nutrition University; Nosan Corporation; National Center for Child Health and Development) “Study on Two Dietary Survey Methods to Evaluate Japanese Iodine Intake -Correlation between Weighted Dietary Records and Food Frequency Questionnaire”
15:55~16:10	<Oral Presentation> <u>S. YANAGIDA</u> , T. SUZUKI, K. MURAI, H. KASAI (Osaka University; Green Focus Ltd; Research Adviser; University of Occupational & Environmental Health) “Iodine Element: Medicinal Action and Molecular Orbital Interactions”
16:10~16:25	<Oral Presentation> <u>R. SENGA</u> , K. SUENAGA (Advanced Industrial Science and Technology AIST) “Structures and Characteristics of Atomic Chains Consisting of Iodine”
Chair : T. Kaiho	
16:25~17:05	<Invited Lecture> P. SHING HO (Colorado State University) “Iodine Halogen Bonds in Biomolecular Recognition”
17:20~19:00	BANQUET KEYAKI Reception Hall (3F)

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	“ Halogen Bonding-induced Catalytic Enantioselective Iodolactonization ” <u>H. NAKATSUJI</u> , Y. SAWAMURA, A. SAKAKURA, K. ISHIHARA (Nagoya University; Okayama University; CREST)
02	“ Synthesis of 3-Amino-2-oxindoles by a Chiral Tin Iodide Methoxide-Catalyzed Asymmetric Mannich-type Reaction ” <u>A. YANAGISAWA</u> , N. KUSHIHARA, T. SUGITA, K. IDA, K. YOSHIDA (Graduate School of Science, Chiba University)
03	“ Catalytic Asymmetric Iodolactonization Using Poly Zinc-Aminoiminobinaphthoxide Complex ” <u>T. KOJIMA</u> , N. SUGIYAMA, T. ITOH, H. KANO, T. ARAI (Graduate School of Science, Chiba University; Center for Analytical Instrumentation, Chiba University)
S04	“ Development of Magnetic Nanoparticle-Supported Iodoarene Oxidative Catalyst and Its Application ” H. NAMBU, <u>I. SHIMOKAWA</u> , A. YAMADA, T. FUJIWARA, T. YAKURA (School of Medicine and Pharmaceutical Sciences, University of Toyama)
S05	“ Development of Electrophilic Reagents for Introduction of Phenylsulfurpentafluorides ” <u>K. OKUYAMA</u> , K. MATSUZAKI, E. TOKUNAGA, N. SHIBATA (Graduate School of Engineering, Nagoya Institute of Technology)
S06	“ Iodosylarene-Promoted Fluorination of Acetophenone Derivatives ” <u>K. MUTA</u> , T. KITAMURA (Graduate School of Science and Engineering, Saga University)
07	“ Synthesis of Polycyclic Aromatic Compounds Using Hypervalent Iodine Aryne Precursors ” <u>T. KITAMURA</u> , K. GONDO, J. OYAMADA (Graduate School of Science and Engineering, Saga University)
S08	“ Aryl-λ^3-iodane-Catalyzed Hofmann Rearrangement: Molecular Oxygen Serves as a Terminal Oxidant ” K. MIYAMOTO, <u>Y. SAKAI</u> , J. YAMASHITA, M. UCHIYAMA (The University of Tokyo; University of Tokushima)
S09	“ Hypervalent Iodine-Mediated Decarboxylative Imidation of β,γ-Unsaturated Carboxylic Acids ” <u>T. KOJIMA</u> , K. KIYOKAWA, S. MINAKATA (Graduate School of Engineering, Osaka University)
10	“ Oxidative Cyclization of Alkenylbenzamide and Its Synthetic Application ” <u>M. FUJITA</u> , T. TAKESUE, T. SUGIMURA (Graduate School of Material Science, University of Hyogo)
S11	“ Oxidative Cross-Coupling of Phenols with Aromatic Compounds Using Hypervalent Iodine Reagent ” K. MORIMOTO, <u>K. SAKAMOTO</u> , S. SAKAI, Y. TAKAHASHI, T. DOHI, Y. KITA (College of Pharmaceutical Sciences, Ritsumeikan University)
12	“ Hydrazone-Palladium Catalyzed Synthesis of Cinnamic Acid Derivatives Using Hypervalent Iodine Reagent ” <u>K. WATANABE</u> , T. MINO, T. ABE, M. SAKAMOTO (Graduate School of Engineering, Chiba University)
13	“ One-Pot Synthesis of Benzofurans from Oximes Using Diaryl Iodonium Salts ” <u>K. MIYAGI</u> , K. MORIYAMA, H. TOGO (Graduate School of Science, Chiba University)
S14	“ One-Pot Synthesis of α,β-Epoxy carbonyl Compounds Starting from Benzylalcohols and Styrenes ” <u>A. FUJIYA</u> , R. OMURA, E. YAMAGUCHI, N. TADA, A. ITOH (Gifu Pharmaceutical University)
S15	“ An Immediate Construction of Benzo[<i>b</i>]furans Based on the Iodocyclization of Ynamides ” <u>T. OKITSU</u> , K. NAKATA, K. NISHIGAKI, N. MICHIOKA, M. KARATANI, A. WADA (Kobe Pharmaceutical University)
16	“ Formation of Cyclic Organic Salts from the Reaction of 2-(<i>o</i>-Alkynylphenyl)thiazoles with Iodine ” <u>S. MATSUMOTO</u> , S. E. TAN, M. AKAZOME (Graduate School of Engineering, Chiba University)

S17	<p>“Development of Novel Methods for Introduction of Nitrogen-Containing Functional Groups by Utilizing Characteristics of a Selenenyl Iodide” <u>K. GOTO</u>, E. TAKAHASHI, S. SASE (Tokyo Institute of Technology)</p>
18	<p>“Interaction Between Hydrophilic Nanocarbons and Iodides” <u>S. NAKAMURA</u>, H. KANO, T. OHBA (Graduate School of Science, Chiba University)</p>
S19	<p>“Microbial Laccases: Do They Play a Role in Iodide Oxidation in Soil?” R. NIHEI, S. AMACHI (Chiba University)</p>
S20	<p>“Characterization of Iodide-Oxidizing Enzyme from <i>Roseovarius</i> spp.” K. SHIROYAMA, Y. KAWASAKI, S. AMACHI (Chiba University)</p>
S21	<p>“Reductive Deiodination of 2,4,6-Triiodophenol by Microorganisms Associated with a Marine Sponge <i>Hymeniacidon sinapium</i>” <u>Y. KAWAMURA</u>, S. AMACHI (Chiba University)</p>
22	<p>“Contribution of Marine Microorganisms to the Transformation of Iodine Species in Seawater” <u>N. OKABE</u>, Y. MURAMATSU, S. AMACHI (Gakushuin University; Chiba University)</p>
S23	<p>“Effects of the Sputtering Pressure on the Preparation of Titanium Iodized Films by DC Magnetron Sputtering” K. FUJIMAKI, Y. SAKAMOTO (Graduate School, Chiba Institute of Technology; Chiba Institute of Technology)</p>
24	<p>“Determination of Iodine in Organic Samples by Combustion-Ion Chromatography” <u>H. NAGASHIMA</u> (NAC Techno Service)</p>
S25	<p>“Evaluation of the IOE-Iodide System as a New Disinfectant” <u>K. EBIHARA</u>, T. YULIANA, S. AMACHI (Chiba University; Padjadjaran University)</p>
S26	<p>“Effect of Dietary Iodine Supplementation on the Lipid Content in Plasma, Egg Yolk and Egg White of Laying Hens” <u>K. ITO</u>, R. TAGUCHI, M. NISHIMUKAI, J. YOKOYAMA, K. KITA (The United Graduates School of Agricultural Sciences, Iwate University; ²Faculty of Agriculture, Iwate University; Nosan Corporation)</p>

Correspondence

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

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