

# The 9th International Symposium on Iodine Utilization

October 24, 2006  
Chiba University, Chiba, Japan

## Time Table

<b>LECTURES KEYAKI Hall (1F)</b>	
9:30~ 9:35	Opening Address Katsuyuki OGURA, Chairman of FIU, Professor of Chiba Univ.
Chair : Tatsuo KAIHO	
9:35~10:15	<Invited Lecture> David Ohayon, (Triosyn Corp., Canada) “Triosyn Technology on the Breakdown of Chemical Warfare Agents and Industrial Chemicals in the Workplace”
Chair : Masahito OCHIAI	
10:15~10:30	<Lecture> ○T. KITAMURA, Md. D. HOSSAIN (Saga Univ.) “Convenient Synthesis of Hypervalent Iodine Compounds”
10:30~10:45	<Lecture> ○I. HACHIYA, M. TANAKA, T. TOYODA, T. BABA, T. ITOH, M. SHIMIZU (Mie Univ.) “New Carbon-carbon Bond Forming Reactions Using the Reducing Ability of Titanium Tetraiodide”
Chair : Katsuyuki OGURA	
10:50~12:00	<Short Speeches on Poster Presentations>
<b>POSTER PRESENTATIONS KEYAKI Reception Hall (3F)</b>	
12:20~14:10	Display 12:00~14:00 , Presentation, question and answer 12:30~14:00
<b>LECTURES KEYAKI Hall (1F)</b>	
Chair : Yasuyuki MURAMATSU	
14:10~14:40	<Invited Lecture> Amares Chatt (Dalhousie University, Canada) “Importance of Iodine Analysis in Nutritional and Biological Materials”
14:40~14:55	<Lecture> ○ M. FUKUSHIMA , Y. NAKANO <sup>†</sup> , A. CHATT <sup>††</sup> (Ishinomaki Senshu Univ., Kyoto Univ. <sup>†</sup> , Dalhousie Univ. <sup>††</sup> ) “Analysis of Iodine Levels in Edible Seaweeds”
Chair : Hiroshi FUKUZAWA	
14:55~15:10	<Lecture> ○H. SEKIMOTO, S. KATOU, S. YOSHIDA <sup>†</sup> (Utsunomiya Univ., National Institute of Radiological Sciences <sup>†</sup> ) “Enrichment of Iodine in Crops, Problems and Future Prospects”
15:10~15:25	<Lecture> ○T. KUBO (Ebihara Hospital) “My Device of Producing Povidone-iodine-sugar”
15:25~15:40	<Lecture> ○H. YAMAGUCHI, T. KAIHO, R. OGAI <sup>†</sup> , K. GONDA <sup>†</sup> , Y. SHINOHARA <sup>†</sup> , T. MARUO <sup>†</sup> , Y. AMEMIYA <sup>†</sup> (Kanto Natural Gas Development Co., Ltd., Chiba Univ. <sup>†</sup> ) “Development of a Disinfection System for Hydroponics Using Iodine”
Chair : Tatsuhito MATSUDA	
15:40~16:20	<Invited Lecture> Takashi SHODA (Nitto Denko Corp., Japan) “Technologies of Iodine-PVA Polarizer for Liquid Crystal Displays”
Chair : Yasuyuki KITA	

16:20~17:10	<Invited Lecture> Takeo TAGUCHI (Tokyo University of Pharmacy and Life Sciences) “Development of Synthetic Reactions through the Formation of Iodocyclization Intermediates”
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## Poster Presentation

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

Presenters are requested to be at their papers for discussions during the following periods:

No.	TITLE	○Author, Co-authors / Affiliation
A01	“Study on the Novel Spin-crossover Process between S=5/2 and S=3/2 in the Iodo(porphyrinoid)iron(III) Complexes”	○Y. OHGO, S. NEYA †, M. TAKAHASHI, M. TAKEDA, M. NAKAMURA / Toho Univ., Chiba Univ. †
A02	“Iodine Atom Transfer Cyclization of 6-Iodo-1-hexynes via an Alkylidene Carbenoid Intermediate”	○T. HARADA, C. KITANO, K. MIZUNASHI / Kyoto Institute of Technology
A03	“Stereoselective Synthesis of ( <i>E</i> )-β-Halovinyl-λ <sup>3</sup> -iodanes via Intramolecular 1,4-Halogen Shift”	○M. HIROBE, M. OCHIAI / Univ. of Tokushima
A04	“A Mild and Environmentally Benign Oxidation of Thiols to Disulfides with Hydrogen Peroxide Catalyzed by Iodide Ion”	○M. KIRIHARA, Y. ASAI, S. OGAWA, T. NOGUCHI, A. HATANO, Y. HIRAI † / Shizuoka Institute of Technology, Toyama Univ. †
A05	“Facile Oxidation of Alcohols Using a Trivalent Low-Molecular Recyclable Hypervalent Iodine Reagent”	T. DOHI, ○N. TAKENAGA, M. YOSHIMURA, A. MARUYAMA, Y. KITA / Osaka Univ.
A06	“Estimation of Antimicrobial Properties of Specimens Impregnated with Some Iodine Compounds”	○M. TAKAYA, K. HASHIMOTO, Y. TODA, M. MAEJIMA / Chiba Inst. of Technol.
A07	“An Efficient Synthesis of Iodonium Salts from Organotrifluoroborates with 4-Iodotoluene Difluoride”	○M. YOSHIDA, K. OSAFUNE, S. HARA / Hokkaido Univ.
A08	“Synthesis of 1-Fluorocyclopentenes by Intramolecular C-H Insertion Reaction of Fluoroalkylidenecarbenes”	○K. TAKEMURA, M. YOSHIDA, H. SENBOKU, S. HARA / Hokkaido Univ.
A09	“Quinoline Ring Formation of 2-(Arylamino)ketene Dithioacetal <i>S,S</i> -Dioxides with Iodine “	○S. MATSUMOTO, K. OGURA / Chiba Univ.
A10	“Main-chain and Side-Chain Structure Effect on Physicochemical Properties of Xyloglucan-Iodine Complexes”	○T. KOBAYASHI, T. FUJIWARA, K. SAKAJIRI, Y. MISHIMA, K. UCHIDA, H. YAJIMA, Y. YUGUCHI † / Tokyo Univ. of Science, OECU †
A11	“Effect of Iodine Treatment on Carbonization of Starch-film”	○N. ISHIKAWA, N. MIYAJIMA, H. SAKANE / Univ. of Yamanashi
A12	“Recyclable Supramolecular Organic Conductors Tailored by the Iodine Bond”	○T. IMAKUBO, M. KIBUNE, H. YOSHINO, T. SHIRAHATA, K. YOZA † / RIKEN, Bruker AXS †
A13	“Electronic Properties of Open- and Closed-end Carbon Nanotubes Doped with Iodine”	○S. KITAO, M. SETO, Y. KOBAYASHI, R. MASUDA, S. HIGASHITANIGUCHI / Kyoto Univ.
A14	“Preparation of Gold Nano-particles Using Photographic Materials : Effect of Photosensitive Materials and Halogen Composition in the Deposition Solution”	○X. CHEN, A. HASEGAWA, K. KUGE / Chiba Univ.
A15	“Aerobic Photo-oxidation of Alcohols in the Presence of Iodine”	○H. NAKAYAMA, A. ITOH / Gifu Pharmaceutical Univ.

A16	“Preparation of Composite Structure Applied with "Polyiodide/Hydrophilic Polymer” ○A. KAWAGUCHI, Y. GOTOH <sup>†</sup> / Kyoto Univ., Shinshu Univ. <sup>†</sup>
A17	“Fabrication and Function of Polyamide 6 / Silver Iodide Composite” ○Y. GOTOH, Y. FUJIMORI, A. FURUTA, M. NAGURA, Y. OHKOSHI, A. KAWAGUCHI <sup>†</sup> / Shinshu Univ., Kyoto Univ. <sup>†</sup>

A18	“New Type of Electrolyte with $\beta$ -CDI for Dye-sensitized Solar Cell” ○Y. FUSIMI, S. UCHIDA, A. MAEDA <sup>†</sup> / Tohoku Univ., Nippon Chemicals Co.,Ltd. <sup>†</sup>
A19	“Photoelectro Properties of Solution and Polymer Solid-state Dye Sensitized Solar Cell Using Various Dyes” Y. NAGAO, ○K. MATSUSHITA, K. KOZAWA / Tokyo Univ. of Science
A20	“Synthesis of Triphenylamine Hole Transfer Materials and Their Properties as Dye-sensitized Solar Cell” ○Y. NAGAO, M. TSUCHIYA, S. SUDA, K. KOZAWA / Tokyo Univ. of Science
A21	“Synthesis of Nitrogen-containing Heterocycles from Functionalized Carbodiimides “ ○R. KATO, T. OTANI, T. SAITO/ Tokyo Univ. of Science
A22	“A Facile Synthesis of Benzo-fused Nitrogen-containing Heterocycles via Dehydrogenative Cyclization with Hypervalent Iodine Reagents” ○S. KUNIMATSU, K. KAGAWA, T. OTANI, T. SAITO / Tokyo Univ. of Science
A23	“An Efficient Preparation of 1,3-Azoles from Aldehydes or Primary Alcohols with Iodine Reagents” ○M. ISHIHARA, H. TOGO / Chiba Univ.
A24	“Ph I-Catalyzed $\alpha$ -Tosyloxylolation of Ketones and Alcohols” ○Y. YAMAMOTO, H. TOGO / Chiba Univ.
A25	“Structural Analysis of Iodine Inclusion Complexes with XAFS” ○ T. KANEKO, S. NAGAMATSU, T. FUJIKAWA, T. KONISHI, M. UEDA / Chiba Univ.
A26	“Synthesis and Reactions of Stable Sulfenyl Iodides Bearing Bowl-type Steric Protection Groups” ○K. GOTO, S. FURUKAWA, S. MIYASAKA, Y. TAKAHASHI, T. KAWASHIMA / Tokyo Inst.of Technology, Univ. of Tokyo
A27	“Stabilization of $\lambda^3$ -Iodanes by the Complexation with Crown Ethers and Their Synthetic Applications” ○K. MIYAMOTO, M. OCHIAI / Univ. of Tokushima
A28	“CO <sub>2</sub> -Induced Amidohalogenation of Olefins with <i>N</i> -Halosulfonamide Salts” S. MINAKATA, ○M. KUZUHARA, Y. ODERAOTOSHI, M. KOMATSU / Osaka Univ.
A29	“Solvent-free Iodine Catalyzed Intermolecular Reaction of Carboxylic Acids with Ethers “ Y. KASASHIMA <sup>†</sup> , T. SASAKI, K. MURAKAMI, T. MINO, M. SAKAMOTO, ○T. FUJITA / Chiba Inst.of Technol. <sup>†</sup> , Chiba Univ.
A30	“Preparation and Antibacterial Evaluation of Aluminum Anodic Oxide Film Impregnated with Iodine Using New Iodine Agent” ○N. MATSUMOTO, K. HASHIMOTO, M. MAEJIMA, M. TAKAYA, Y. TODA, / Chiba Inst. of Technol
A31	“Iodine Compounds as Photo-acid Generators” ○S. MIYAKAWA / Chiba Univ.
A32	“Reversed-phase High-performance Liquid Chromatographic Determination of Iodide in Iodine-enriched Egg” ○M. MIYASHITA, Y. SEYAMA, J. YOKOYAMA <sup>†</sup> / Hoshi Univ., Nosan Corp. <sup>†</sup>

W01	“Changes of Chemical Forms of Inorganic Iodine in Plant and Rhizosphere” ○S. KATOU, H. SEKIMOTO, S. YOSHIDA <sup>†</sup> / Utsunomiya Univ., National Institute of Radiological Sciences <sup>†</sup>
W02	“Studies of Dietary Iodine Intakes by Japanese Students” ○N. TSUKADA, Y. URAKAWA, H.TANAKA <sup>†</sup> , M. KOIKE <sup>†</sup> / Kamakura Women’s Univ., Kitasato Junior College of Health and Hygienic Sciences <sup>†</sup>

W03	<p>“Comprehensive Analysis by Gene-chip on Expression of Genes in Changliver Cells Exposed with a Lipid Extract from Yolks of Iodine Eggs”</p> <p>○J. YOKOYAMA, T. UENO, M. KAWATA, T. TODOROKI<sup>†</sup>, I. TAKEI, M. MURATA<sup>†</sup>, H. MATSUMOTO<sup>†</sup>, K. WATANABE<sup>†</sup> / Nosan Corp., Keio Univ.<sup>†</sup></p>
W04	<p>“Levels and Behavior of Stable Iodine and <sup>129</sup>I in Soil “</p> <p>○Y. MURAMATSU, Y. TAKADA, H. MATSUZAKI<sup>†</sup>, K. KATO<sup>†</sup>, S. YOSHIDA<sup>††</sup> / Gakushuin Univ., Univ. of Tokyo<sup>†</sup>, National Institute of Radiological Sciences<sup>††</sup></p>
W05	<p>“Distributions of I, Br and Cl in Major Japanese River Waters”</p> <p>○K. TAGAMI, S. UCHIDA/ National Institute of Radiological Sciences</p>
W06	<p>“Iodine Concentrations of Total Diets in Ukrainians”</p> <p>○K. SHIRAISHI, S. KO, K. AYAMA, H. ARAE, Y. MURAMATSU<sup>†</sup>, P. V. ZAMOSTYAN<sup>††</sup>, N. Y. TSIGANKOV.<sup>††</sup>, I. P. LOS<sup>†††</sup>, V. N. KORZUN<sup>†††</sup> / National Institute of Radiological Science, Gakushuin Univ.<sup>†</sup>, Research Centre for Radiation Medicine of Academy of Medical Science of Ukraine<sup>††</sup>, Institute of Hygiene and Medical Ecology of the Academy of Medical Science of Ukraine<sup>†††</sup></p>
W07	<p>“Purification of Two Distinct Iodide-oxidizing Enzymes Produced by IOB”</p> <p>○Y. EDA, S. AMACHI, T. FUJII / Chiba Univ.</p>
W08	<p>“Microbial Influences on the Sorption of Radioactive Iodine on Soils”</p> <p>○J. OIKAWA, S. AMACHI, T. FUJII / Chiba Univ.</p>
W09	<p>“Iodate Reduction by Nitrate-reducing Bacteria”</p> <p>○N. KAWAGUCHI, S. AMACHI, Y. MURAMATSU<sup>†</sup>, T. FUJII / Chiba Univ., Gakushuin Univ.<sup>†</sup></p>
W10	<p>“Mechanism of Iodide Accumulation by <i>Arenibacter</i> sp. C-21”</p> <p>○K. KIMURA, S. AMACHI, H. SHINOYAMA, T. FUJII / Chiba Univ.</p>
W11	<p>“Preferential Growth of Iodide-oxidizing Bacteria in Iodide-enriched Seawaters”</p> <p>○H. FURUKAWA, S. AMACHI, T. FUJII/ Chiba Univ.</p>
W12	<p>“Effects of Iodine Application into Nutrient Solution on the Hydroponically Grown Strawberry, Butter Head Type Lettuce and Alliaceous Growth and Iodine Absorption”</p> <p>○R. FUNAI, K. GONDA, H. YAMAGUCHI<sup>†</sup>, Y. SHINOHARA, T. MARUO / Chiba Univ., Kanto Natural Gas Development Co., Ltd.<sup>†</sup></p>

17:15~19:00 ***Banquet (at KEYAKI Reception Hall)***