

The 3rd symposium on Iodine Utilization

The 3rd Symposium was held at Chiba University and KAZUSA Academia Hall from Nov. 24 to 25, 2000. A total of 381 participants took part in for two days.

Program

Friday, 24 November / KEYAKI HALL, CHIBA UNIVERSITY

LECTURES -the first part-

No.	Time	Title	Lecturer / Affiriation
	9:00-9:10	OPENING ADDRESS	Kaichi ISONO / President, Chiba Univ., Japan
Session Chairman : Masataka YOKOYAMA, Prof., Faculty of Science, Chiba University, Japan			
1	9:10-10:10	[Plenary] " Hypervalent I ³ - Organiodanes in Organic Synthesis"	Masahito OCHIAI / Prof., Faculty of Pharmaceutical Sciences, Tokushima Univ., Japan
2	10:10-10:45	Highly Selective Organic Synthesis Utilizing Iodine	Katsuyuki OGURA / Prof., Faculty of Engineering, Chiba Univ., Japan
Session Chairman : Minoru IRIE, Prof. Emeritus, Toho University, Japan/ Representative, ICCIDD, Japan			
3	10:50-11:25	ABC of Thyroid Hormone Action in Human Body	Yoshimasa SHISHIBA / Director, Toranomon Hospital, Kajigaya Campus, Japan
4	11:25-12:00	Iodine Deficiency Disorders	Minoru IRIE / Prof. Emeritus, Toho University, Japan/ Representative, ICCIDD, Japan

[Lunch Time]

POSTER PRESENTATIONS -the second part-

odd numbers 13:00~13:40, even numbers 13:45~14:25			
A	Basic	Chemistry, Physics, Medicine, Analysis, Molecular biology, Electronics	
B	Apply	Resources, Environment, Energy, Engineering, Processing	
C	Practical	Presentation & Demonstration of Practical Products, Applications and Utilization	

LECTURES -the third part-

No.	Time	Title	Lecturer / Affiriation
Session Chairman : Isao OTUKA, President, Ise Chemicals Corporation, Japan			
5	14:40-15:15	Iodine Resources for the World Today and Tomorrow	Phyllis A. Lyday / Commodity Specialist U.S. Geological Survey, USA
6	15:15-15:50	Iodine Production Technologies in Chile	Roberto L Muñoz DSM• @Minera• @S.A. , Chile
Session Chairman : Masanao ESAKI, Director, Kanto Natural Gas Development Co., Ltd., Japan			

7	15:55-16:30	Surface treatment of aluminium alloys using iodine	Matsufumi TAKAYA / Prof., Department of Precision Engineering, Chiba Institute of Technology, Japan
8	16:30-17:05	The Roll of Iodine in Fluorochemical Industries	Masaaki YAMABE / Senior Advisor, Asahi Glass Research Institute Inc., Japan
9	17:05-17:40	What can be taught with Iodine	Masayuki HAYASHI / Teacher, Ichinomiya-kita High School, Japan

18:00-19:30	Banquet at KEYAKI Reception Hall, Chiba University
• @Shuttle service will depart from Chiba Univ. (Only for "Okura Akademia Park Hotel" guests)	

Saturday, 25 November / KAZUSA ACADEMIA HALL


LECTURES -the fourth part-

No.	Time	Title	Lecturer / Affiriation
	10:00-10:10	OPENING ADDRESS	Masataka YOKOYAMA, Prof., Faculty of Science, Chiba Univ., Japan (Chairman of FIU)
Session Chairman : Katsumi KANEKO, Prof. Chiba University, Japan			
1	10:10-10:45	Inclusion Complex Chemistry and Iodine	Akira HARADA / Prof., Graduate school of Science, Osaka Univ., Japan
2	10:45-11:20	X-ray absorption spectroscopy of iodine compounds	Takehisa KONISHI / Research Associate, Faculty of Science, Chiba Univ., Japan
3	11:20-11:55	Adlayer Structures of Iodine and Its Property	Kingo ITAYA / Prof., Department of Applied Chemistry, Tohoku Univ., Japan

[Lunch Time]

13:00-13:20	Showing a video clip	KAZUSA DNA RESEARCH INSTITUTE
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LECTURES -the fifth part-

No.	Time	Title	Lecturer / Affiriation
Session Chairman : Takashi FUJIKAWA, Prof. Chiba University, Japan			
4	13:20-13:55	Prospect of Molecular Magnetism	Tadashi SUGAWARA / Prof., Graduate School of Arts and Science, The Univ. of Tokyo, Japan
5	13:55-14:30	Development of exotic molecular conductors based on iodine-bonded  -donors	Tatsuro IMAKUBO / Research Scientist, RIKEN, Japan
Session Chairman : Masahito OCHIAI, Prof., Tokushima University, Japan			
6	14:35-15:10	Development of Novel Reactions Using Hypervalent Iodine Reagents and Their Application to Total Synthesis of Biologically Active Natural Products	Hirofumi TOHMA / Assistant Prof., Graduate School of Pharmaceutical Sciences, Osaka Univ., Japan
7	15:10-15:45	Organic Iodine Chemistry: 10 years of Development at the Medical University of Warsaw	Lech SKULSKI / Prof. hab., Faculty of Pharmacy, Medical University of Warsaw, Poland

Poster Presentation Program

Friday, 24 November / KEYAKI HALL, CHIBA UNIVERSITY
odd numbers 13:00-13:40, even numbers 13:45-14:25

A	Basic	Chemistry, Physics, Medicine, Analysis, Molecular biology, Electronics
B	Apply	Resources, Environment, Energy, Engineering, Processing
C	Practical	Presentation & Demonstration of Practical Products, Applications and Utilization

No.	"TITLE" • @ • @ • @ • @ • @ <u>Author</u> , Co-authors / Affiliation	
A01	"Preparation and Spectroscopic Properties of Cellulose-Iodine Complex" <u>K. Iketaki</u> , K. Tsunoda, H. Yajima, T. Ishii / Science Univ. of Tokyo	
A02	"Effect of the Conformational Change in the Substrate, Amylose, Induced by the Complexation with Iodine on the Activity and Action Mode of  -Amylase" <u>T. Fujishiro</u> , N. Saito, T. Takemura, H. Yajima, T. Ishii / Science Univ. of Tokyo	
A03	"Effects of the Molecular Weight and Degree of Deacetylation of Chitosan on the Spectroscopic Properties and Thermal Hysteresis Behavior for Chitosan-Iodine Complex" <u>M. Fukuhara</u> , M. Asada, K. Tsunoda, H. Yajima, T. Ishii, H. Sashiwa* / Science Univ. of Tokyo, Univ. of Ottawa*	
A04	"Unusual Spin State of Iron• III• j Porphycene Complex Carrying Iodide as Axial Ligand" <u>M. Nakamura</u> , T. Ikeue, M. Takahashi, M. Takeda, S. Neya*, N. Funasaki* / Toho Univ., Kyoto Pharmaceutical Univ.*	
A05	"EHAFS Analysis of the Solute Structure of Triiodide Ion in Various Solvents" <u>H. Sakane</u> , T. Mitsui, H. Tanida*, I. Watanabe** / Yamanashi Univ., JASRI*, Osaka Univ.**	
A06	"EXAFS Study of Iodide Anions in Various Solvents" <u>H. Tanida</u> , I. Watanabe* / Japan Synchrotron Radiation Research Institute, Osaka Univ.*	
A07	"Pressure-Temperature Phase Diagram of the Molecular Conductor DCNQI ₂ Cu System included with I/Br Substituents" K. Nakabe, T. Hasegawa, T. Kakiuchi, R. Tazaki, <u>H. Sawa</u> , R. Kato* / Chiba Univ., Riken*	
A08	"Structures and Properties of Iodine Adlayers on Metal Single Crystal Electrode Surfaces" <u>J. Inukai</u> */**, Y. Osawa**, Y. Wakisaka**, Y. Shimooka**, K. Sashikata***, K. Itaya** / JST*, Tohoku Univ.**, Ishinomaki Senshu Univ.**	
A09	"Studies on diastereoselective radical reaction using alkyl iodides" <u>T. Yajima</u> , H. Nagano / Ochanomizu Univ.	
A10	"Asymmetric Diels-Alder reaction catalyzed by FeI ₃ -P-chirogenic diphosphine oxides" S. Matsukawa, <u>H. Sugama</u> , T. Imamoto / Chiba Univ.	
A11	"Properties of Iodine Alloyed Activated Carbon Fiber" <u>Cheol-Min Yang</u> , K. Kaneko	
A12	"Synthesis of Hypervalent Iodine Oligomers of the p-Phenyl Type" <u>T. Kitamura</u> , I. Wakimoto, Y. Fujiwara / Kyushu Univ.	
A13	"Novel dealkylation of N-alkylsulfonamides with (Diacetoxyiodo)benzene" <u>M. Katohgi</u> , M. Yokoyama, H. Togo / Chiba Univ.	
A14	"Syntheses of (Diacetoxyiodo)arenes and Iodylarenes from Iodoarenes with Sodium Periodate as the Oxidant" <u>Pawel Kazmierczak</u> , Lech Skulski, Lukasz Kraszkiwicz / Medical Univ. of Warsaw, Poland	
A15	"Oxidative Iodination of Deactivated Aromatic Systems with Some Iodine(III) Transient Species" <u>Piotr Lulinski</u> , Lech Skulski / Medical Univ. of Warsaw, Poland	
A16	"A One-Pot(Two-Stage) Method for Preparing (Dichloroiodo)arenes from Arenes" <u>Piotr Lulinski</u> , Nicolas Obeid, Lech Skulski / Medical Univ. of Warsaw, Poland	
A17	"Novel Oxidative Liquid-Phase Chlorination Procedures for the Preparation of (Dichloroiodo)arenes from iodoarenes" Nicolas Obeid, <u>Lech Skulski</u> / Medical Univ. of Warsaw, Poland	
B01	"Temperature Dependence of Redox Reactions of I- and I ₃ - on Polyaniline Electrode" <u>E. Shimada</u> , M. Kobayashi, T. Minami, Y. Ikuma, K. Tachibana* / Kanagawa Institute of Technology, Science Univ. of Tokyo*	
B02	"Antibacterial Effects of N-Methylchitosan-Iodine Complex" T. Yamaguchi, <u>Y. Takiguchi</u> , M. Nishigahana, Y. Anazawa • @ / Chiba Institute of Technology	

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B03	"Hydrogen Iodide as Dry Etching Gas" <u>M. Sadamoto</u> , N. Yanaagawa, H. Sasako, T. Kaiho / Mitsui chemicals Inc.
B04	"Synthesis and Characterization of Iodine Complex of Polyethylene Grafted Polyvinylpyrrolidone" <u>K. Takeda</u> , K. Fujihara, M. Komatsu, M. Hotai, T. Takai, H. Takayanagi* / EBARA Research Co.,Ltd.,• @Kitasato Univ.*
B05	"A Microwave discharge Oxygen Plasma for a Discharge Pumped Oxygen Iodine Laser" <u>H. Akatsuka</u> , T. Terashi, F. Sato, M. Suzuki / Tokyo Institute of Technology Univ.
B06	"Origin of iodine rich brine in the Kazusa formation, implications for the geochemical cycle of iodine in the Earth's crust" <u>Y. Muramatsu</u> / National Institute Radiological Sciences(NIRS)
B07	"Methyl Iodide in the Atmosphere" <u>Y. Yokouchi</u> , Y. Nojiri, Y. Fujinuma, T. Machida / National Institute for Environmental Studies
B08	"Bacterial contribution to the Environmental Iodine Volatilization" <u>S. Amachi</u> , Y.Kamagata*, T. Kanagawa*, Y. Muramatsu** / Chiba Univ., NIBH*, NIRS**
B09	"Current status of fumigation and its trend in future (Utilization of Iodine)" <u>Nobuhiro Taguchi</u> / Nippoh Chemicals Co., Ltd.
C01	"Novel Fluorination Reagent: IF ₅ / HF- Base Molten salt" <u>N. Yoneda</u> , T. Fukuhara, Y. Takahashi* / Hokkaido Univ., Kitami Institute of Technology*
C02	"Antimicrobial Characteristics of Anodic Oxidation Coating of Aluminum Impregnated with Organic Iodine Compound" <u>K. Hashimoto</u> , M. Takaya, M. Maejima, Y. Toda / Chiba Institute of Technology
C03	"Simple Microplate Method for Determination of Urinary Iodine and Application" <u>T. Ohashi</u> , H. Iijima, K. Umino / Hitachi Chemical Co.,Ltd.
C04	"Iodine Deficiency Disorders in the world and Japanese collaboration-Mongolian case" <u>T. Igari</u> , M. Irie, C. Yamada / Chiba Medical-welfare College