

MEETINGS AND SYMPOSIUMS

ICR ANNUAL MEETING 1995

December 8, 1995

I. Oral Presentations

(Wood Composites Hall, Wood Research Institute,
Kyoto University, Uji, Kyoto-fu)

1. Properties and Catalytic Mechanism of 2-Haloacid Dehalogenases
Esaki N, Kurihara T, Liu J, Soda K, Hisano T, Fujii T and Hata Y
2. Reduction of α -Ketoesters by Bakers' Yeast in an Organic Solvent.
Nakamura K, Kondo S, and Ohno A
3. Long-Range Density Fluctuations in Amorphous Polymers
Kanaya T and Kaji K
4. Ion-channels Formed by Peptides in Bilayer Lipid Membranes
Koji Asami
5. NMR Analysis of Aggregation and Hydration Structure of a Photosynthesis Pigment
Okamura E, Wakai C, and Nakahara M
6. Preparation and Properties of Artificial Superlattices of High- T_c Superconductors
Terashima T and Bando Y
7. Spin Ladder Materials: High pressure synthesis, crystal structure and physical properties
Takano M

II. Posters

(5th Floor Large Meeting Room, Institute for
Chemical Research, Kyoto University, Uji, Kyoto-fu)

1. Electron Energy Loss Spectra of 3d Transition Metal Phthalocyanines.
Koshino M., Kurata H., Isoda S. and Kobayashi T
2. Structure and Growth of Ultra Thin Hexadecachloro Phthalocyanine Copper Film.
Irie S., Hosino A., Isoda S. and Kobayashi T
3. Dependence of the Amount of Stacking Faults in Syndiotactic Polystyrene Single Crystals on the Crystallization/Annealing Temperature
Hamada N, Tosaka M, Tsuji M and Kohjiya S
4. Nanometer Scale Structure of Organic/Inorganic Hybrid Gels by the Sol-Gel Process
Hirata Y, Tsuji M, Kohjiya S, Ikeda Y, Urakawa H and Kajiwara K
5. Solid-state Phase Transformation in the Drawing Process of Poly(tetramethylene succinate)

Tsujimoto J, Murakami S, Tsuji M and Kohjiya S

6. Dynamical NMR Study on the Effect of Solvent, Temperature, and Pressure on the Translational and Rotational Diffusion of Water Molecules
Wakai C and Nakahara M
7. Ultra Trace Elements in the Southern Ocean
Iwamoto S, Sohrin Y and Matsui M
8. Design of Highly Selective Solvent Extraction Systems Utilizing Macrocyclic Compounds as a Masking Reagent
Sasaki T, Umetani S and Matsui M
9. Arsenic in Lake Biwa
Sohrin Y, Tateishi T and Matsui M
10. Molecular Design of Organic Ligands of High Selectivity for Metal Ions : Effect of the Distance between Two Donating Oxygens and the Intramolecular Interaction
Le T H Q, Umetani S and Matsui M
11. Magnetoresistance Effect of Metallic Multilayers Grown on Microstructured Substrates
Ono T, Sugita Y, Shigeto K and Shinjo T
12. Magnetic Polarization of Au in Co/Au and Fe/Au Metallic Multilayers Investigated by Sn Probe Layers
Emoto T, Hosoi N and Shinjo T
13. Preparation of Bi-2201 Phase with stoichiometric composition of cations under 1 atm. of oxygen
Niinae T, Ikeda Y and Bando Y
14. Magnetism and Electric conductivity of SrRuO₃/SrTiO₃ artificial superlattices
Izumi M and Bando Y
15. Electric Field Effects in Ultrathin YBa₂Cu₃O_{7- δ} Films
Komai E, Nakazawa K, Terashima T and Bando Y
16. Phase Diagram of NdO_{1.5}-SrO-CuO System
Yamada T, Niinae T, Ikeda Y and Bando Y
17. Crystal Growth and Superconductivity of Pb Substituted Bi-2201 Phase
Chong I, Terashima T, Ikeda N, Bando Y and Takano M
18. Carrier doping to New oxygen deficient perovskite compounds. (Ln, Sr)CuO_{2.5} Ln=La, Pr, Nd
Kobayashi N, Hiroi Z and Takano M
19. Crystal Structure and Superconductivity of (Hg, Re) Sr₂Can-1Cu_nO_y (n=2, 3)

- Yamaura K, Poulsen J, Hiroi Z, Takano M, Shimoyama J and Kishio K
20. Ferromagnetism of Perovskite $AFe_{1-x}Co_xO_3$ (A=Sr, Ca)
Kawasaki S and Takano M
 21. Nonlinear Optical Properties of Borate Glasses Containing p-Block Elements
Terashima K, Hashimoto T, Uchino T and Yoko T
 22. Dynamics of Styrene-Isoprene-Styrene Triblock Copolymer Dissolved in a Selective Solvent: Rubbery-Plastic-Viscous Transition and Dielectric Relaxation.
Sato T, Watanabe H and Osaki K
 23. Viscoelasticity of Polystyrene around the Glass Transition Zone. On the Effect of Plasticizer.
Mizukami Y, Inoue T and Osaki K
 24. Stress Relaxation Mechanism of Polymers around the Glass Transition Zone.
Matsui H, Inoue T and Osaki K
 25. Small-Angle Neutron Scattering from Polyelectrolyte Solutions
Shibano T, Nishida K, Kanaya T and Kaji K
 26. Viscosity of Charged Spherical Particles.
Kiriya K, Nishida K, Kanaya T, Kaji K and T Okubo* (* Dept Polym Chem, Kyoto Univ)
 27. Thermodynamic and Hydrodynamic Second and Third Virial Coefficients of Poly(α -methylstyrene) in Benzene
Tsunashima Y
 28. TEM Study on Formation Process of Microfibrils of Bacterial Cellulose
Hirai A, Tsuji M, Horii F and Yamamoto H
 29. Solid-state ^{13}C NMR Analyses of the Structure and Molecular Motion of the Polyurethane Sample Crystallized from the Liquid Crystalline State
Ishida H, Kaji H and Horii F
 30. New Polymeric Materials Synthesized by "Living" Radical Polymerization Using Stable Nitroxide Radicals
Terauchi T, Fukuda T, Tsujii Y and Miyamoto T
 31. Structural Studies on Langmuir-Blodgett Films of Amphiphilic Block Copolymer Having Glucose Residues
Yamamoto S, Yamada K, Tsujii Y, Minoda M, Fukuda T and Miyamoto T
 32. Synthesis of C_{60} -End-capped Polymers
Okamura H, Minoda M, Miyamoto T and Komatsu K
 33. Synthesis and Properties of Macrocyclic π -Conjugated Systems Having Rigid Bicyclic σ -Frameworks
Nishinaga T, Kawamura T and Komatsu K
 34. Acid-Catalyzed Carbonylation of Chlorine-Substituted Aldehydes - Steric Control of the Cyclization Products by Acid Strength
Mori S, Emura K, Kano M, Kudo K, Komatsu K and Sugita N
 35. Regioselective Inclusion of a Fluoride Ion in Silicon-Based Linear Multi-Nuclear Lewis Acids
Sun G-R, Kawachi A, Tamao K
 36. Electronic Structure of Silole: Important Role of $\sigma^*-\pi^*$ Conjugation
Yamaguchi S, Tamao K
 37. A New Efficient Method for the Preparation of Allene Carboxylate by the Reaction of BHT esters with the HWE Reagent.
Ohtsubo K, Tanaka K and Fuji K
 38. Asymmetric Reduction with Enzymes.
Kawai Y
 39. Stereochemistry in Oxidoreduction of Nicotinamide Analogs.
Yamazaki N
 40. Synthesis of Optically Active α -Arylethanol by Microbial Transformation Using *Geotrichum candidum*.
Nakamura K, Matsuda T, Inoue Y, and Ohno A
 41. Structural Analysis of DNA-C1027 Chromophore Complex by NMR Method
Okuno Y and Sugiura Y
 42. Distribution of Joining Peptide in Rat Brain
Hamakubo T.
 43. Possible Mechanism of Nucleolar Translocation and Activation of HIV-1 Rev and HTLV-I Rex
Adachi Y, Ueda K
 44. LipB, Lipase Activator Protein - Reactivation of Lipase with Amino-Terminal Truncated Mutants
Shibata H, Kato H and Oda J
 45. Catalytic Mechanism of Fluoroacetate Dehalogenase
Kurihara T, Liu J, Ichiyama S, Esaki N and Soda K
 46. Stereochemistry of Proton Transfer Catalyzed by Pyridoxal Enzymes and Their Molecular Evolution
Yoshimura T, Jhee K, Esaki N and Soda K
 47. The Characteristic Structure and Molecular Evolution of Thermoacidophilic Archaeal Ferredoxin
Fujii T and Hata Y

48. Structure-Based Functional Properties of L-2-Haloacid Dehalogenase
Hisano T, Hata Y, Fujii T, Liu J-Q,
Kurihara T, Esaki N and Soda K
49. Study of Space Charge Effects in High Intensity Ion Beam with one-dimensional PIC Simulation
Ikegami M
50. Present Status of 100 MeV Electron Linear Accelerator at ICR
Sugimura T, Inoue M, Noda A, Kakigi S,
Iwashita Y, Okamoto H and Shirai T

ICR Symposium 1995

June 15, 1995

(Kyodai-Kaikan, Kyoto University, Kyoto)

1. Dynamical NMR of Water and Aqueous Solutions under Extreme Conditions
Nakahara M
2. Frontier Studies on New Materials Research
Shinjo T
3. Application of Neutron Scattering to Polymer Science
Kaji K
4. The Ultimate Microanalysis Aiming at a Single Atom Analysis by Electron Microscopy.
Kobayashi T
5. Information Analysis of Genes and Genomes: Deciphering Mysteries of Life
Kanehisa M
6. Analysis of the mechanism of protein function - glutathione synthetase as an example of analysis -
Oda J

SYMPOSIUMS ORGANIZED BY RESEARCH FACILITY OF NUCLEIC ACIDS

SYMPOSIUM ON

"Technical Problems in Genome Projects"
Friday, January 20, 1995

"A High Resolution Physical Map of the Human Chromosome 21"

Dr. Eiichi Soeda

Tsukuba Life Science Center, Institute of Physical and Chemical Research (RIKEN), Tsukuba, Japan

"*C. elegans* cDNA Projects"

Associate Professor Yuji Kohara

National Institute of Genetics, Mishima, Japan

"Computer Analysis of DNA Sequences and its Application in Rice Genome Research"

Dr. Akio Miyao

Rice Genome Research Program, National Institute of Agrobiological Resources, Tsukuba, Japan

"Integration of Genome Databases"

Professor Toshihisa Takagi

Human Genome Center, Institute of Medical Science, The University of Tokyo, Tokyo, Japan

"Learning Algorithms"

Professor Satoru Miyano

Research Institute of Fundamental Information Science, Faculty of Science, Kyushu University, Fukuoka, Japan

"On the Possibility of Biological Researches by Computer Simulation"

Associate Professor Masami Hagiya

Graduate School of Science, The University of Tokyo, Tokyo Japan

WORKSHOP ON

"*Arabidopsis thaliana*"

Thursday, 9 November 1995

Friday, 10 November 1995

"Database of Molecular Biology of *Arabidopsis thaliana*"

Dr. Nobuaki Hayashida

Tsukuba Life Science Center, Institute of Physical and Chemical Research (RIKEN), Tsukuba, Japan

"Signal Transduction through Protein Kinases"

Dr. Akira Usami

Department of Biology, Faculty of Science, Nagoya University, Nagoya, Japan

"Signal Transduction Responsive to Light Stimulus"

Dr. Minami Matsui

Institute of Physical and Chemical Research (RIKEN), Wako, Japan

"Transfer of and Response to Nutritional Information in Higher Plants"

Dr. Tohru Fujiwara

Faculty of Agriculture, The University of Tokyo, Tokyo, Japan

"Signal Transduction Pathway Induced by Desiccation"

Dr. Kazuo Shinozaki

Tsukuba Life Science Center, Institute of Physical and Chemical Research (RIKEN), Tsukuba, Japan

"Transcriptional Control of the Genes for Seed Storage Proteins"

Professor Satoshi Naito

Faculty of Agriculture, Hokkaido University, Sapporo, Japan

TECHNICAL PRACTICE

"Genetic Analysis of *Arabidopsis* Mutants"

Professor Satoshi Naito

Faculty of Agriculture, Hokkaido University, Sapporo,

Japan
Dr. Tohru Fujiwara
Faculty of Agriculture, The University of Tokyo,
Tokyo, Japan
Dr. Nobuaki Hayashida
Tsukuba Life Science Center, Institute of Physical and
Chemical Research (RIKEN), Tsukuba, Japan

"Signal Transduction Analysis with Transgenic Plants"
Dr. Minami Matsui
Institute of Physical and Chemical Research (RIKEN),
Wako, Japan
Dr. Kazuo Shinozaki

Tsukuba Life Science Center, Institute of Physical and
Chemical Research (RIKEN), Tsukuba, Japan
Dr. Akira Usami
Department of Biology, Faculty of Science, Nagoya
University, Nagoya, Japan

ENLIGHTENMENT PROGRAM

Experiencing Course (organized in collaboration with
Division of Molecular Biology and Information)
"The Forefront of Research on Biological Science:
Instruction and Practice"
Saturday 24 June 1995 and Saturday 1 July 1995