

# MEETINGS AND SYMPOSIA

## **The 2nd Symposium on Joint Project of Chemical Synthesis Core Research Institutions**

### **“Chemical Synthesis toward Creation of Functional Materials”**

Organized by OZAWA, Fumiyouki  
15–16 January 2007 (Kyoto, Japan)

## **The 2nd International Workshop for Far East Asian Young Rheologists**

Organized by WATANABE, Hiroshi (Kyoto University); SAKURAI, Shinichi (Kyoto Institute of Technology); AHN, Kyung Hyun (Seoul National University); YU, Wei (Shanghai Jiao Tong University)

26–28 January 2007 (Kyoto, Japan)

## **Mini-workshop on Ion Beam Cooling/Low Energy Storage Ring and Related Topics**

Organized by NODA, Akira

13–14 February 2007 (Kyoto, Japan)

## **The Pharmaceutical Society of Japan 127th Annual Meeting**

### **“Drug Discovery Driven by Chemical Biology”**

Organized by UESUGI, Motonari

28–30 March 2007 (Toyama, Japan)

## **ICR Mini Workshop**

### **“Phase Separation in Thin Films of Polymer Blends”**

Organized by KANAYA, Toshiji

3 April 2007 (Kyoto, Japan)

## **The ICR International Symposium 2007 (ICRIS'07)**

### **“The Science and Technology of Well-Controlled Polymer Assemblies”**

Organized by FUKUDA, Takeshi

11–13 June 2007 (Kyoto, Japan)

## **Oral Presentations**

Prof BUBACK, Michael

Institute for Physical Chemistry, University of Goettingen, Germany  
“Pulsed Laser Experiments for Detailed Studies into Free-Radical Polymerization Kinetics”

Prof YAMAGO, Shigeru

Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Recent Advances in Organoheteroatom-Mediated Living Radical Polymerization”

Prof YUSA, Shin-ichi

Graduate School of Engineering, University of Hyogo, Hyogo, Japan

“Thermo-responsive Diblock Copolymers Synthesized via Organotellurium-mediated Controlled Radical Polymerization (TERP)”

Prof ASANDEI, D. Alexandru

Institute of Materials Science and Department of Chemistry, University of Connecticut, USA

“Complex Polymer Synthesis by Late and Early Transition Metal Catalyzed Living Radical and Ring Opening Polymerizations”

Prof FUKUDA, Takeshi

Institute for Chemical Research, Kyoto University, Kyoto, Japan

“New Development of Concentrated Polymer Brushes”

Prof ZHAO, Bin

Department of Chemistry, University of Tennessee, USA

“Synthesis and Nanoscale Phase Separation of Well-defined Mixed Homopolymer Brushes on Silica Particles”

Prof KIMURA, Tsunehisa

Department of Forest and Biomaterials Science, Kyoto University, Kyoto, Japan

“Magnetic Alignment and Patterning of Feeble Magnetic Materials”

Prof TANIGUCHI, Takashi

Department of Polymer Science and Engineering, Yamagata University, Yamagata, Japan

“Orientation Dynamics of Lamellae of Block Copolymer under an Electric Field”

Prof HORII, Fumitaka

Institute for Chemical Research, Kyoto University, Kyoto, Japan

“Disordered Structure of Polymer Materials as Revealed by High-Resolution Solid-State NMR Spectroscopy”

Prof LAUPRÉTRE, Françoise

Institut de Chimie et des Matériaux Paris Est, Centre National de la Recherche Scientifique, France

“Structure and Dynamics of Polymer Chains in Polymer Nanocomposites”

Prof BONAGAMBA, J. Tito

Instituto de Física de São Carlos, Universidade de São Paulo, Brazil

“Structural and Dynamical Properties of PEO-based Nanocomposites Studied by Advanced Solid-state NMR Methods”

Prof MATYJASZEWSKI, Krzysztof

Center for Macromolecular Engineering, Carnegie Mellon University, USA

“Nanostructured Functional Materials via ATRP with ppm Amounts Copper”

Prof WU, Wen Li

Polymers Division, National Institute of Standards and Technology, USA

“Mechanical Properties in Polymeric Nanoscale Line Gratings”

Prof BALSARA, Nitash

Department of Chemical Engineering, University of California, USA

“Block Copolymer Electrolytes for Lithium Battery Applications”

Prof SAKURAI, Shinichi  
Graduate School of Engineering, Kyoto Institute of Technology,  
Kyoto, Japan  
“Microdomain Orientation in Chelate-Doped Block Copolymers  
with High Magnetic Field”

Prof AIDA, Takuzo  
JST ERATO-SORST NANOPACE PROJECT & Department of  
Chemistry & Biotechnology, School of Engineering, The University  
of Tokyo, Tokyo, Japan  
“Graphitic Nanotubes by Programmed Self-assembly”

Prof YOKOZAWA, Tsutomu  
Department of Material and Life Chemistry, Kanagawa University,  
Kanagawa, Japan  
“Polymer Architecture from Chain-growth Condensation Polym-  
erization and Its Self-assembly”

Prof WATANABE, Junji  
Department of Organic and Polymeric Materials, Tokyo Institute  
of Technology, Tokyo, Japan  
“Temperature-induced Reversible Distortion along the Director  
Observed for Monodomain Nematic Elastomer of Cross-linked  
Main-chain Polyester”

Prof NISHIDA, Koji  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Lower and Upper Critical Solution Temperature Type of Phase  
Separation in Aqueous Mixture of Polyelectrolytes”

Prof TAKAHARA, Atsushi  
Institute for Materials Chemistry and Engineering, Kyushu  
University, Fukuoka, Japan  
“Characterization of Ultrahydrophobic and Ultrahydrophilic  
Polymer Surfaces through Precise Surface Structure Design”

Prof BUCHNALL, David  
Polymer, Textile and Fiber Engineering, Georgia Institute of  
Technology, USA  
“Phase Behaviour of Novel Miktoarm Star Terpolymers”

Prof DOI, Masao  
Department of Applied Physics, The University of Tokyo, Tokyo,  
Japan  
“Micro-Meso Modeling of Polymer Adhesions”

Prof MASUBUCHI, Yuichi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Entangled Polymer Dynamics Described by Primitive Chain  
Network Model”

Prof YU, Wei  
Department of Polymer Science and Engineering, Shanghai Jiao  
Tong University, China  
“Morphology of Polymer Blends with Slip Viscous Interface”

#### Poster Presentations

DEI, Satoshi, and MATSUMOTO, Akikazu  
Graduate School of Engineering, Osaka City University, Osaka,  
Japan  
“Thermochromism of Polydiacetylene with a Hysteresis Loop in  
the Solid State and in Solution”

ONODERA, Katsuya, and MATSUMOTO, Akikazu  
Graduate School of Engineering, Osaka City University, Osaka,  
Japan  
“Solid-State Polymerization of Muconic Ester Thin Films Fabri-  
cated by Vapor Deposition”

KAWAHARA, Nobuo, SAITO, Junji, MATSUO, Shingo,  
KANEKO, Hideyuki, MATSUGI, Tomoaki, and KASHIWA,  
Norio  
Research Center, Mitsui Chemicals, Inc., Chiba, Japan  
“Synthetic Methodology for Well-defined Polymer Hybrids  
Based on Polyolefins—Creation of New Polymer Materials—”

KANEKO, Hideyuki, SAITO, Junji, KAWAHARA, Nobuo,  
MATSUO, Shingo, MATSUGI, Tomoaki, and KASHIWA, Norio  
Research Center, Mitsui Chemicals, Inc., Chiba, Japan  
“Creation of Polyolefin Hybrids by Using Controlled Radical  
Polymerization”

MORITA, Hiroshi, MORISHITA, Yoshihiro, KANEKO, Daisaku,  
and DOI, Masao  
JST-CREST & Department of Applied Physics, The University  
of Tokyo, Tokyo, Japan  
“Dynamics of the Adhesion between Rubber Particle and Solid  
Substrate—Using Molecular Dynamics Simulations and Experi-  
ments—”

HATTORI, Shinya, YOKOYAMA, Yoshiro, FURONG, Tian,  
and KOBAYASHI, Hisatoshi  
Biomaterials Center, National Institute for Material Science,  
Ibaraki, Japan  
“Study of Cell-PGA/Collagen Nanofibers Composite Interaction”

KIMURA, Tsuyoshi, NAM, Kwangwoo, ONO, Tsutomu,  
YOSHIZAWA, Hidekazu, FUJISATO, Toshiya, and KISHIDA,  
Akio  
Institute of Biomaterials and Bioengineering, Tokyo Medical and  
Dental University, Tokyo, Japan  
“Assembling of Hydrogen-Bonding-Polymers Using High Pressure  
Technology”

NAM, Kwangwoo, KIMURA, Tsuyoshi, and KISHIDA, Akio  
Institute of Biomaterials and Bioengineering, Tokyo Medical and  
Dental University, Tokyo, Japan  
“Development of Highly-ordered Structure Collagen Hydrogel I:  
Controlled Amide Formation for Collagen Film in Ethanol/Water  
Solutions”

NAKAMURA, Kenji, and SHIKATA, Toshiyuki  
Graduate School of Science, Osaka University, Osaka, Japan  
“Formation and Physicochemical Features of Hybrid Threadlike  
Micelles in Aqueous Solution”

AOKI, Hiroyuki, KITAMURA, Masafumi, and ITO, Shinzaburo  
Graduate School of Engineering, Kyoto University, Kyoto, Japan  
“Nanosecond Dynamics of Dense PMMA Brush Studied by  
Fluorescence Depolarization Method”

GOTO, Atsushi, HIRAI, Norihiro, WAKADA, Tsutomu, ZUSHI,  
Hirokazu, TSUJII, Yoshinobu, and FUKUDA, Takeshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Germanium-, Tin-, and Phosphorus-Catalyzed Living Radical  
Polymerizations of Styrene and Methacrylates”

OKAYASU, Kenji, TSUJII, Yoshinobu, OHNO, Kohji, and  
FUKUDA, Takeshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Super Lubrication between Concentrated Polymer Brushes in  
Good Solvent”

OHNO, Kohji, MORINAGA, Takashi, TSUJII, Yoshinobu, and  
FUKUDA, Takeshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Synthesis and Applications of Silica Particles Grafted with  
Concentrated Polymer Brush”

- LADMIRAL, Vincent, MORINAGA, Takashi, OHNO, Kohji, TSUJII, Yoshinobu, and FUKUDA, Takeshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Synthesis of Zinc Sulfide Nanoparticles Grafted with Concentrated Polystyrene Brushes”
- YOSHIKAWA, Chiaki, GOTO, Atsushi, KISHIDA, Akio, TSUJII, Yoshinobu, and FUKUDA, Takeshi  
Biomaterials Center, National Institute for Materials Science, Ibaraki, Japan  
“Protein Repellency of Concentrated Polymer Brushes Prepared by Surface-Initiated Living Radical Polymerization”
- TAKADA, Akihiko  
Institute for Material Science and Engineering, Kyushu University, Fukuoka, Japan  
“Structure and Viscoelasticity of Wormlike Micellar Solutions under Steady Shear Flows”
- KAJIWARA, Atsushi, and ARATA, Satoe  
Nara University of Education, Nara, Japan  
“ESR Study of Radical Polymerizations of Acrylates Using Model Radical Precursors Prepared by ATRP”
- KAJIWARA, Atsushi, and NAKAJIMA, Hiroki  
Nara University of Education, Nara, Japan  
“ESR Study of Radical Polymerizations of Methacrylates Using Model Radical Precursors Prepared by ATRP”
- KAYAHARA, Eiichi, KOTANI, Masashi, RAY, Biswajit, and YAMAGO, Shigeru  
Graduated School of Science, Osaka City University, Osaka, Japan  
“Development of Organobismuthine-Mediated Living Radical Polymerization”
- TOGAI, Manabu, YAMADA, Takeshi, PAN, Na, and YAMAGO, Shigeru  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Synthesis of End-Functionalized Polymers by Reverse SBRP Method Using Various Azo-Compounds and Distibines”
- TOSAKA, Masatoshi, KOHJIYA, Shinzo, and SENOO, Kazunobu  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Stress Relaxation during Strain-Induced Crystallization of Cross-Linked Natural Rubber”
- KAWAHARA, Yutaka, MATSUMURA, Noriaki, NAKAYAMA, Atsushi, and TSUJI, Masaki  
Department of Chemistry and Chemical Biology, Gunma University, Gunma, Japan  
“Structure for E-Spun Silk Fibroin Nanofibers”
- NAKAYAMA, Atsushi, KAWAHARA, Yutaka, and TSUJI, Masaki  
Department of Biological and Chemical Engineering, Gunma University, Gunma, Japan  
“Morphological Study on Electrospun Nanofibers of Polydioxanone”
- YAMADA, Tomonori, KAJI, Hironori, and HORII, Fumitaka  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Molecular and Electronic Structure Analyses of *N,N'*-Diphenyl-*N,N'*-di(*m*-tolyl)benzidine by Solid-State NMR and Quantum Chemical Calculations”
- LUO, Qing, SUZUKI, Shinji, KANIE, Yasumasa, KAJI, Hironori, HORII, Fumitaka, SHIMIZU, Tadashi, TANSHO, Masataka, TAKEGOSHI, Kiyonori, NEMOTO, Takahiro, and MIZUNO, Takashi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Solid-State NMR Characterization of Structure and Hydrogen Bonding of Polymer Materials”
- HIRAI, Asako, IKUNO, Masaya, HORII, Fumitaka, and TSUJI, Masaki  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Formation and Structure of Liquid Crystals in Aqueous Suspensions of Tunicate Cellulose Microfibrils”
- KAJI, Hironori, MINO, Akira, YAMADA, Tomonori, and HORII, Fumitaka  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Solid-State <sup>29</sup>Si NMR Characterization of Poly(dimethylsilane) in the Mesophase”
- PIAO, Guangzhe, KIMURA, Fumiko, TAKAHASHI, Tatsuhiro, MORITANI, Yoji, AWANO, Hiroshi, NIMORI, Shigeki, TSUDA, Kaoru, YONETAKE, Koichiro, and KIMURA, Tsunehisa  
Tsukuba Magnet Laboratory, National Institute for Materials Science, Ibaraki, Japan  
“Micropatterning and Stimulus Alignment of Carbon Nanotubes in Polymer Composites Using Modulated Magnetic Field”
- YAMASHITA, Kohta, and NAKAOKI, Takahiko  
Department of Materials Chemistry, Ryukoku University, Shiga, Japan  
“Relation between Melting Behavior of Solvent and Morphology in Syndiotactic Polypropylene with Different Stereoregularity Gel”
- INOUE, Rintaro, KANAYA, Toshiji, NISHIDA, Koji, and TSUJII, Yoshinobu  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Glass Transition Temperature of Polystyrene Thin Films”
- KONISHI, Takashi, NISHIDA, Koji, and KANAYA, Toshiji  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Mesomorphic Phase of Poly(butylene-2,6-naphthalate)”
- RAHMAN, Nelly, KAWAI, Takahiro, MATSUBA, Go, NISHIDA, Koji, KANAYA, Toshiji, NAKANO, Mitsuru, OKAMOTO, Hirotaka, KAWADA, Jumpei, USUKI, Arimitsu, HONMA, Nobutaka, NAKAJIMA, Katsuhiko, and MATSUDA, Masatoshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Crystallization of Poly(L-lactic acid) and Its Melting Behavior”
- OGAWA, Hiroki, INOUE, Rintaro, KANAYA, Toshiji, NISHIDA, Koji, and MATSUBA, Go  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Phase Separation of Polystyrene/Poly(vinyl methyl ether) in Thin Film”
- MATSUBA, Go, NISHIDA, Koji, and KANAYA, Toshiji  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Structural Formation Process of Polyethylene Blend with Ultra-High Molecular Weight Component”
- KAWAGUCHI, Tatsuya, SHIMURA, Masaki, HONGO, Chizuru, NOGUCHI, Keiichi, OKUYAMA, Kenji, MIZUNO, Kazunori, and BÄCHINGER, P. Hans  
Graduate School of Science, Osaka University, Osaka, Japan  
“The Crystal Structure of the Collagen-Model Peptide, (Pro-Pro-Gly)<sub>4</sub>-Hyp-Asp-Gly- (Pro-Pro-Gly)<sub>4</sub>”

CHEN, Quan, YU, Wei, and ZHOU, Chixing  
Department of Polymer Science and Engineering, Shanghai Jiao  
Tong University, China  
“Decomposition of Transient Stress in Viscoelastic Polymer Blends”

MATSUMIYA, Yumi, and WATANABE, Hiroshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Dielectric Behavior of *cis*-Polyisoprene in Carbon Dioxide  
under High Pressure”

IWAMOTO, Tatsuya, WATANABE, Hiroshi, and TAKAHASHI, Y  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Rheo-SANS Behavior of Entangled Polybutadiene with Local  
Label under Fast Shear Flow”

IWASHIGE, Tomohito, MATSUMIYA, Yumi, INOUE, Tadashi,  
and WATANABE, Hiroshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Dielectric Relaxation and Dynamics of Poly(lactic acid) in  
Carbon Dioxide at High Pressure”

SATO, Hiroki, MASUBUCHI, Yuichi and WATANABE, Hiroshi  
Department of Applied Chemistry, Tokyo University of Agricul-  
ture and Technology, Tokyo, Japan  
“The Individual Rotational Dynamics of T4-DNA in Concen-  
trated Aqueous Solutions”

UNEYAMA, Takashi  
Graduate School of Science, Kyoto University, Kyoto, Japan  
“Coarse-Grained Brownian Dynamics Simulation for Diblock  
Copolymer Melts Based on the Soft Dumbbell Model”

WATANABE, Hiroshi  
Institute for Chemical Research, Kyoto University, Kyoto, Japan  
“Viscoelastic and Dielectric Behavior of a Polyisoprene/Poly(4-  
*tert*-butyl styrene) Miscible Blend”

**The 2nd International Conference on Joint Project of Chem-  
ical Synthesis Core Research Institutions**  
“Development of New Synthetic Methods and Creation of  
Functional Molecules”

Organized by NAKAMURA, Masaharu; OZAWA, Fumiyuki  
7 August 2007 (Kyoto, Japan)

**Kyoto University 21st Century COE Program Genome Science**  
“Symposium of Bioinformatics and Chemical Genomics”

Organized by KANEHISA, Minoru  
20–21 September 2007 (Kyoto, Japan)

**The 4th Forum on Joint Project of Chemical Synthesis Core  
Research Institutions**  
“Recent Progress in Organometallic Chemistry”

Organized by OZAWA, Fumiyuki  
7 November 2007 (Kyoto, Japan)

**The 2nd Workshop on Organometallic Chemistry**

Organized by OZAWA, Fumiyuki; MASHIMA, Kazushi; HOU,  
Zhaomin  
8–9 November 2007 (Wako, Japan)

**Global COE on Kyoto University Alliance for Chemistry**  
“The 4th Organoelement Chemistry Seminar”

Organized by TOKITOH, Norihiro; SASAMORI, Takahiro;  
MIZUHATA, Yoshiyuki; NAGAHORA, Noriyoshi  
19–20 November 2007 (Kyoto, Japan)

**BMB2007 (The 30th Annual Meeting of MBSJ & the 80th  
Annual Meeting of JBS)**

**“Small-Molecule-Initiated Chemical Biology”**

Organized by UESUGI, Motonari  
11–15 December 2007 (Yokohama, Japan)