

## SEMINARS

Associate Professor Tadashi Asanuma  
Institute for Chemical Research, Kyoto University  
"Properties of Polyolefins Synthesized Newly with Metallocene Catalysts"  
Friday 12 January 1996

Professor Gerrit E W Bauer  
Delft University of Technology, Delft, The Netherlands  
"Magnetism and Transport of Mesoscopic Systems"  
Tuesday 16 January 1996

Prof. D. H. Kim  
Pohang Institute of Science & Technology, Korea,  
"Weak Bondings for Bioorganic Chemists"  
Thursday 1 February 1996

Professor Toshihiro Akaike  
Department of Biomolecular Engineering, Tokyo Institute of Technology, Yokohama, Japan  
"Biomimetic Glycotechnology and its Application to Medical Care"  
Friday 23 February 1996

Dr. Mervyn J. Miles  
H.H.Wills Physics Laboratory, University of Bristol, UK  
"Scanning Probe Microscopy of Organic and Biological Materials"  
Tuesday 27 February 1996

Professor Stephen F. Nelsen  
Department of Chemistry, University of Wisconsin, Madison, USA  
"Hydrazines and Electron Transfer Reactions"  
Monday 4 March 1996

Professor Barry Stoddard  
Fred Hutchinson Cancer Research Center  
"Stalking and Capturing Catalytic Intermediates with Mutagenesis, Kinetics, and Laue Crystallography"  
Tuesday 5 March 1996

Dr. Sergei Magonov  
Digital Instruments Inc., USA  
"Atomic Force Microscopy of Polymers"  
Tuesday 7 March 1996

Dr. Thomas Heinze  
Institute of Organic and Macromolecular Chemistry, University of Jena, Jena, Germany  
"Cellulose Tosylates, New View of an Old Derivative"  
Monday 11 March 1996

Professor Dieter Klemm  
Institute of Organic and Macromolecular Chemistry, University of Jena, Jena, Germany  
"Selective Functionalization of Cellulose"  
Monday 11 March 1996

Dr. Margit Schultze  
Max-Planck-Institute for Polymer Research, Mainz, Germany  
"Supramolecular Structures of Cellulose Derivatives"  
Monday 11 March 1996

Dr. Hans-Peter Fink  
Fraunhofer-Institute of Applied Polymer Research, Tel-

tow, Germany  
"Structural Changes of Cellulose at Processing"  
Tuesday 12 March 1996

Dr. Yuzo Fujita  
Institute for Nuclear Study, University of Tokyo, Tokyo, Japan  
"Gas Counter and Beam Monitor"  
Friday 15 March 1996

Professor Edgar A. Silinsh  
Institute of Physical Energetics, Latvia  
"Advanced Photoactive Materials and LB Molecular Assemblies for Non-linear Optics and Molecular Electronics"  
Monday 18 March 1996

Professor Timothy A. Cross  
Florida State University, USA  
"High Resolution Dynamics in a Membrane-Bound Polypeptide by Solid-State NMR"  
Tuesday 19 March 1996

Dr. Jong Heo  
Department of Materials Science and Engineering, Pohang University of Science and Technology, Korea  
"Rare-Earth Doped Chalcogenide Glasses: Science and Future Opportunities"  
Wednesday 20 March 1996

Professor Dr. Peter Zugenmaier  
Institut für Physikalische Chemie der Technischen Universität Clausthal, Clausthal, Germany  
"Selected Topics on Polymer-Solvent Interactions in Lyotropic Cellulose Derivatives"  
Thursday 21 March 1996

Dr. Vladimir Balek  
Nuclear Research Institute Rez plc, Czech Republic  
"Improvement of the Quality Control of Intermediate and Final Products of Ceramic Materials Using Emanation Thermal Analysis"  
Wednesday 27 March 1996

Dr. Yuriy Senichev  
Institute of Nuclear Research of the RAS, Russia  
"Transient Effect in High Intensity Proton Linear Accelerator and Comparison of Disk-And-Washer Structure with Side Coupled Structure"  
Friday 28 March 1996

Professor Sidney Shall  
Department of Biology, Sussex University, Brighton, U. K.  
"Werner Syndrome/Poly(ADP-ribose)"  
Tuesday 2 April 1996

Dr. Michael Richard Roberts (Senior post-doctoral Research Fellow)  
Department of Biology, University of York, Heslington, York, UK  
"Wound-responsive Signal Transduction in Tomato Plant"  
Tuesday 2 April 1996

Dr. Martin R. Willis  
University of Nottingham, U.K.

“Phthalocyanines for Device Applications”  
Wednesday 3 April 1996

Professor R. Bruce Martin  
Chemistry Department, University of Virginia, U.S.A.  
“Aluminum: A Neurotoxic Product of Acid Rain”  
Friday 5 April 1996

Prof. Akio Murai  
Hokkaido University, Hokkaido, Japan  
“Synthesis of Marine Cyclic Polyethers”  
Thursday 11 April 1996.

Professor Ye Feng  
Institute for Modern Physics, Lanzhou, China  
Professor Zhang Chuang  
Institute for High Energy Physics, Beijing, China  
“Accelerator Projects in China, Heavy Ion and Lepton  
Projects”  
Friday 12 April 1996

Professor Dieter Richter  
Director,  
Institute für Festkörperforschung, Forschungszentrum,  
Jülich, Germany  
“The Dynamic Structure Factor of Polybutadiene -  
Microscopic motion in the a and b relation regimes”  
Monday 22 April 1996

Associate Professor Katsunobu Oide  
National Laboratory for High Energy Physics (KEK),  
Tsukuba, Japan  
“A Preliminary Design of a Muon Collider Ring”  
Wednesday 24 April 1996

Professor Ronald M. Levy  
Rutgers University, USA  
“Solvation Thermodynamics, Hydration Shell Models,  
and Polarizable Models”  
Friday 26 April 1996

Professor Julia S. Higgins  
Imperial College of Science, Technology and Medicine,  
London, United Kingdom  
“Rotation of Methyl Side Groups in Polymers - a  
Fourier transform approach to analysis of quasi-elastic  
neutron scattering data”  
Tuesday 4 May 1996

Dr. Thomas Wirth  
University of Basel, Switzerland  
“Chiral Selenium Compounds in Organic Synthesis”  
Monday 20 May 1996.

Professor Gert R. Strobl  
Fakultät für Physik, Albert-Ludwigs-Universität  
Freiburg, Freiburg, Germany  
“SAXS Studies on the Mechanisms of Primary and  
Secondary Crystallization in Polyolefins”  
Tuesday 25 May 1996

Dr. Gabor  
Institut de chimie des Substances Naturelles, CNRS,  
Gif-sur-Yvette, France  
“Total Synthesis of Natural Products: Myriocin,  
Quadrone and Taxol”  
Saturday 25 May 1996.

Professor B. Meissner  
Prague Institute of Chemical Technology

“Theoretical and Experimental Studies of the Polymer-  
Filler Gel Formation”  
Thursday 30 May 1996

Prof. R. More O’Ferrall, University of Dublin, Ireland,  
“Super Acid Catalysis in Keto-Enol Tautomerism”  
Monday 3 June 1996

Professor Joanna Strosznajder  
Medical Research Laboratory, Polish Academy of Sci-  
ences, Warsaw, Poland  
“Neurotoxic Effects of  $\beta$ /A4 Amyloid Peptide and  
Apoptosis”  
Friday 7 June 1996

Professor Michael P. Doyle  
Trinity University, Texas, USA  
“Highly Enantioselective Catalytic Metal Carbene  
Transformations”  
Saturday 8 June 1996

Professor Jürgen Petermann  
Department of Chemical Engineering, University of  
Dortmund, Germany  
“Polymer/Polymer and Metal/Polymer Interfaces and  
Their Technical Applications”  
Wednesday 12, June 1996

Professor Yotaro Morishima  
Department of Macromolecular Science, Faculty of sci-  
ence, Osaka University, Osaka, Japan  
“Self-Organization of Amphiphilic Polyelectrolytes”  
Wednesday 12 June 1996

Professor Saburo Nasu  
Faculty of Engineering Science, Osaka University,  
Osaka, Japan  
“Recent Advances in Mössbauer Spectroscopy”  
Friday 14 June 1996

Dr. Nohara Mohara  
Institute for Solid State Physics, University of Tokyo  
“Specific Heat as a Probe of the Study of Magnetism”  
Thursday 20 June 1996

Professor Tsunehisa Kimura  
Tokyo Metropolitan University, Japan  
“Magnetic Orientation of Polymers”  
Thursday 20 June 1996

Professor Takayuki Kawashima  
Department of Chemistry, University of Tokyo, Tokyo  
“The Wittig Reaction, Peterson Reaction, and the  
Chemistry of the Corresponding Reactive Intermedi-  
ates”  
Tuesday 25 June 1996

Dr. Manfred Sigrüst  
Theoretische Physik, ETH-Hönggerberg, Zürich,  
Switzerland  
“Thermodynamic Properties of a Class of Random Spin  
Systems”  
Friday 28 June 1996

Professor V. Chandrasekhar  
Indian Institute of Technology, Kanpur, India  
“Interactions of Metals with Phosphazenes and Silox-  
anes : From Multisite Metal Recognition Heterocycles  
to Ion Conducting Macromolecules”  
Thursday 4 July 1996

Professor Hideyuki Sato  
Faculty of Science, Tokyo Metropolitan University,  
Tokyo, Japan  
"Magnetism and Transport Phenomena"  
Friday 12 July 1996

Prof. B. Bonini  
University of Bologna, Italy,  
"Synthetic Applications of Enolizable Silyl Thioke-  
tones"  
Tuesday 16 July 1996

Prof. B. Zwannenburg  
University of Nijmegen, The Netherlands,  
"Functionalized Small-Ring Heterocycles"  
Tuesday 16 July 1996

Professor Tamas Veszpremi  
Technical Univ. of Budapest, Hungary  
"How to Design Stable Silylenes?"  
Friday 19 July 1996

Prof. Wei - Min Dai  
Hong Kong University of Science and Technology,  
Hong Kong  
"Studies on Taxoid Synthesis Using Lewis Acid-Cat-  
alyzed Intermolecular Diels-Alder Cycloaddition"  
Monday 22 July 1996.

Professor Shoroku Ohnuma  
Department of Physics, University of Houston, Hous-  
ton, USA  
"FermiLab Main Injector Recycler Ring"  
Friday 2 August 1996

Professor Mohan Srinivasarao  
North Carolina State University, Raleigh, USA  
"Polymer Dispersed Liquid Crystals: Phase Separation  
and Electro-optics"  
Friday 2 August 1996

Prof. Jean d'Angelo  
Centre d'Etudes Pharmaceutiques, Chatenay-Malabry,  
France  
"The Asymmetric Michael Reaction Using Chiral  
Immines: Scope and Limitations, Mechanistic  
Aspects"  
Monday 5 August 1996.

Prof. S. Wolfe, Saimon Fraser University, Canada,  
"Methyl Transfer Reaction with Retention and Inver-  
sion of Configuration"  
Tuesday 20 August 1996

Dr. Lung-Shiang Luh  
Soochow University, Taipei  
"Consecutive Butylation on the Cyclopentadienyl  
Ring"  
Friday 23 August 1996

Professor Stephen Z.D. Cheng  
Institute and Department of Polymer Science, The Uni-  
versity of Akron, USA  
"Crystal Structure and Morphology of Aromatic Poly-  
mers"  
Friday 30 August 1996

Dr. Roberto Fernandez-Prini  
CNEA, Argentine  
"Thermodynamics and Structural Aspects of Aqueous

Solutions of Nonpolar Gases"  
Tuesday 3 September 1996

Dr. Michele Maggini  
Department of Organic Chemistry, University of Pado-  
va, Padova, Italy  
"Functionalization of C<sub>60</sub> via Azomethine Ylides  
Cycloadditions: Synthesis and Properties of Fulleropy-  
rrolidines"  
Tuesday 3 September 1996

Dr. J Anthony C Bland  
Cavendish Laboratory, University of Cambridge, Cam-  
bridge, UK  
"Magnetic Anisotropies, Magnetic Moments and 2D  
Spin Switching in Ultrathin Magnetic Structures"  
Tuesday 17 September 1996

Professor Seizo Miyata  
Tokyo University of Agriculture and Technology Grad-  
uate School of Bio-applications and System Engineer-  
ing  
"Enhancement of Functional Properties of Polymers by  
the Control of Superstructure"  
Thursday 19 September 1996

Dr. Ch. Steinbach  
European Laboratory for Particle Physics (CERN),  
Geneva, Switzerland  
"Status of the Accelerator Study for European Particle  
Therapy"  
Friday 20 September 1996

Dr. Alexander Bürkle  
Deutsches Krebsforschungszentrum, Heidelberg,  
Germany  
"Molecular Genetic Approaches to Modulate Cellular  
Poly(ADP-ribosyl)ation Capacity"  
Tuesday 24 September 1996

Dr. Martin A M Gijs  
Philips Research Laboratories, Eindhoven, The Nether-  
lands  
"Perpendicular Magnetoresistance and Noise of Mag-  
netic Multilayers"  
Monday 30 September 1996

Professor Göran Rämme  
University of Uppsala, Sweden  
"Soap Films and Soap Bubbles in Education - Art and  
Science"  
Monday 30 September 1996

Dr. Alan D. English  
Central Science and Engineering Laboratories, Dupont  
Central Research and Development, USA  
"Molecular Dynamics of Hydrogen-Bonded Polymer  
Crystals"  
Monday 14 October 1996

Prof. Teng-Ming Chen  
Department of Applied Chemistry, National Chiao-  
Tung University, Taiwan  
"The Chemical Synthesis, Crystal Structure and Char-  
acterization of Some Ternary Metal Nitrides"  
Tuesday 15 October 1996

Professor Shiquan Li  
Changchun Institute of Applied Chemistry, Chinese  
Academy of Sciences, China

“Preparation and Characterization of Stanic Oxide Nanoparticles”  
Wednesday 16 October 1996

Dr. Mafred Monkenbush  
Institute for Solid State Science, Germany  
“Dynamic Aspects of Self-organized Molecular System Investigated by Neutron Spin-echo Spectroscopy”  
Friday 18 October 1996

Prof. Akio Murai  
Hokkaido University, Hokkaido, Japan  
“Synthetic Studies on Marine Toxins”  
Friday 25 October 1996.

Professor Hideki Sakurai  
Science University of Tokyo, Japan  
“Recent Advances in the Polysilane Syntheses by Anionic Polymerization of the Masked Disilenes”  
Friday 25 October 1996

Prof. Jurgen M Honig  
Department of Chemistry, Purdue University, Indiana  
“The Verwey Transition in Magnetite; New Thoughts on an Old Problem”  
Monday 28 October 1996

Dr. David L. VanderHart  
National Institute of Standards and Technology, USA  
“Aspects of  $^{13}\text{C}$  NMR of Solid Polymers: Crystallinity of Cellulose and Its Derivatives; Partitioning of Defects in Semicrystalline Polymers; and Spectral Resolution in Strongly-Coupled Systems”  
Wednesday 30 October 1996

Prof. D. Tomas  
Compiègne University, France  
“Catalytic Antibody”  
Thursday 31 October 1996

Professor Ichita Endo  
Faculty of Science, Hiroshima University, Hiroshima, Japan  
“Interaction Between High Energy Electrons and Crystal”  
Thursday 1 November 1996

Dr. Tai-sen Wang  
Los Alamos National Laboratory, New Mexico, USA  
“The present Status and the Upgrade Plan of PSR”  
Wednesday 6 November 1996

Professor Joel. E. Moreau  
Ecole Nationale Supérieure de Chimie, Montpellier, France  
“The Design of Porous Materials. Silicas from Organic-Inorganic Hybrid via Controlled Removal of Organic Templates”  
Monday 11 November 1996

Dr. Masao Sakurai  
Hokkaido University  
“Study of Hydrophobic Hydration in the perspective of the Partial Molar Volumes and Adiabatic Compressibilities”  
Tuesday 12 November 1996

Dr. Linda Britton and Dr. Fiona Rodgers  
The Krebs Institute, Department of Molecular Biology and Biotechnology, University of Sheffield, UK

“Structural Studies on Enzymes of Opine Biosynthesis” and “Approaches to Purification and Crystallisation of Macromolecules for Structural Studies”  
Tuesday 12 November 1996

Associate Professor Hiroshi Teraoka  
Department of Pathological Biochemistry,  
Medical Research Institute,  
Tokyo Medical and Dental University  
“DNA-PK and Apoptosis”  
Wednesday 13 November 1996

Professor A. Ziya Akcasu  
Department of Nuclear Engineering, The University of Michigan, USA  
“The Theory of Interdiffusion in Polymer Mixtures”  
Thursday 14 November 1996

Prof. Nina Berova  
Columbia University at New York, U.S.A  
“Exciton Couples Circular Dichroism” A Powerful Tool for Structural Studies of Bioactive Compounds”  
Monday 25 November 1996.

Dr. Hirokazu Tada  
Faculty of Engineering, Kyoto University  
“Structural Prediction of Organic Epitaxy by Molecular Dynamics Simulation”  
Tuesday 26 November 1996

Dr. Simon Butler  
Imperial College, London, UK  
“Neutron Reflection Studies of Polymer Interfaces: Crystalline Polymers in the Melt State”  
Tuesday 26 November 1996

Prof. Shinichi Uchida  
Faculty of Engineering, University of Tokyo  
“Physics in Perovskite Related Oxides - BPBO, High Tc Superconductors, Spin Ladders-”  
Tuesday 28 November 1996

Professor Fumio Osawa  
Aichi Institute of Technology  
“Molecular Function of Biological Machine”  
Friday 6 December 1996

Professor Guy Bertrand  
Laboratoire de Chimie de Coordination du CNRS,  
Toulouse, France  
“New Stable Radicals, Diradicals and Carbenes”  
Monday 9 December 1996

Prof. Hirokazu Tsunetsugu  
Institute for Applied Physics, University of Tsukuba  
“Progress in the Study of Quantum Spin Ladders I : Theory”  
Tuesday 10 December 1996

Prof. Yoshio Kitaoka  
Department of Material Physics, Faculty of Engineering Science, Osaka University  
“Progress in the Study of Quantum Spin Ladders II : NMR”  
Tuesday 10 December 1996

Prof. Takashi Takahashi  
Faculty of Science, Tohoku University  
“Progress in the Study of Quantum Spin Ladders III : Photoemission Spectroscopy”

Tuesday 10 December 1996

Professor Masataka Mori  
Department of Molecular Genetics,  
School of Medicine, Kumamoto University  
“Molecular Genetics of the Citrulline-NO Cycle”  
Tuesday 10 December 1996

Prof. Hidenori Takagi  
Institute for Solid State Physics, University of Tokyo  
“Progress in the Study of Quantum Spin Ladders IV:  
Transport Properties”  
Wednesday 11 December 1996

Professor Zhu Congshan  
Shanghai Institute of Optics and Fine Mechanics, Chi-  
nese Academy of Science, P.R. China.  
“Research and Development of Laser and Optical  
Materials”  
Thursday 12 December 1996

Dr. Eugen Gheorghiu  
National Institute of Biotechnology, Romania  
“Nonlinear Analysis of Time Series Provided by Impe-  
dence Spectroscopy of Cell Suspensions”  
Friday 13 December 1996

Professor Bernard Meunier  
Laboratoire de Chimie de Coordination du CNRS,  
Toulouse, France  
“Recent Advances in Olefin Epoxidation and Pollutant  
Degradation Catalyzed by Biomimetic Catalysts”  
Thursday 26 December 1996

Professor Bernard Meunier  
Laboratoire de Chimie de Coordination du CNRS,  
Toulouse, France  
“Recent Advances in Olefin Epoxidation and Pollutant  
Degradation Catalyzed by Biomimetic Catalysts”  
Thursday 26 December 1996