

## SEMINARS

- Doctor Raul Oscar Barrachina  
 Centro Atomico Bariloche Comision Nacional de Energia Atomica, Rio Negro, Argentina  
 "Thomas Mechanism in Electron Capture to the Continuum"  
 Thursday 29 July 1999
- Professor Burkhard Fricke  
 Department of Physics, University of Kassel, Kassel, Germany  
 "Single and Double Ionization Cross Section Calculations with the fully Coupled Channel Method"  
 Thursday 29 July 1999
- Professor Shuji Sakabe  
 Institute of Laser Engineering, Osaka University, Osaka, Japan  
 "Symmetric Charge-Transfer Cross Sections of Transition Elements in the Impact-Energy Range 30-1000 eV"  
 Thursday 29 July 1999
- Professor Jhon A. Tanis  
 Department of Physics Kalamazoo, Western Michigan University, MI, U.S.A.  
 "Double-K-Shell Vacancy Production in Atomic Li"  
 Thursday 29 July 1999
- Doctor Bela Sulik  
 Institute of Nuclear Research of the Hungarian Academy of Sciences (ATOMKI), Debrecen, Hungary  
 "Hot Electrons in Relatively Slow (150-250 keV/u) Ion-Atom Collisions"  
 Thursday 29 July 1999
- Professor James H. McGuire  
 Department of Physics, Tulane University, New Orleans, LA, U.S.A.  
 "Sequencing in Multielectron Transitions"  
 Thursday 29 July 1999
- Doctor Nikolaus Stolterhoft  
 Hahn-Meistner Institut Bereich Schwerionenphysik, Berlin, Germany  
 "Two-K-Vacancy Production by Multielectron Correlation in 95 MeV/u Ar<sup>18+</sup> + Li Collisions"  
 Thursday 29 July 1999
- Professor Ladislau Nagy  
 Faculty of Physics, Babes-Bolyai University, Kogalniceanu, Romania  
 "Electron Correlation in One- and Two-Electron Transitions Induced by Fast Charged Particles"  
 Thursday 29 July 1999
- Professor Horst Schmidt-Bocking  
 Institut fur Kernphysik, Universitat Frankfurt, Frankfurt, Germany  
 "A Kinematically Complete Differential Electron Cross Sections in Slow He<sup>2+</sup> + He: Transfer Ionization"  
 Thursday 29 July 1999
- Doctor Yoh Itoh  
 Josai University, Tokyo, Japan
- "Absolute Photoionization Cross Section Measurement of Xe<sup>+</sup> Ions in the 4d-Threshold Energy Region"  
 Thursday 29 July 1999
- Professor Steven T. Manson  
 Department of Physics and Astronomy, Georgia State University, Atlanta, Georgia, U.S.A.  
 "Photoionization of Ions (Theor)"  
 Thursday 29 July 1999
- Doctor Yoshiro Azuma  
 Institute of Materials Structure Science High Energy Accelerator Organization, Tsukuba, Japan  
 "Single, Double, and Triple Photoionization of Lithium"  
 Thursday 29 July 1999
- Professor Winthrop W. Smith  
 Physics Dept, University of Connecticut, CT, U.S.A  
 "Electron emission processes in a dense laser-excited Na beam"  
 Thursday 29 July 1999
- Doctor Henning Schmidt  
 Department of Physics, Stockholm University, Stockholm, Sweden  
 "Collision Experiments performed at the Crying Gas-Jet"  
 Thursday 29 July 1999
- Professor Jean-Pierre Briand  
 Eris University Pierre et Marie Curie, Paris, France  
 "X Rays from Hollow Atoms"  
 Thursday 29 July 1999
- Professor Kenji Kimura  
 Department of Engineering Physics and Mechanics, Kyoto University, Kyoto, Japan  
 "Electron Emission from Surfaces"  
 Thursday 29 July 1999
- Professor Martin Stockli  
 Kansas State University  
 "X-Ray Emission by Highly Charged Ar Impact on SiO<sub>2</sub>"  
 Thursday 29 July 1999
- Professor Hiroyuki Torii  
 University of Tokyo  
 "Capillary Transmission of Highly Charged Ions"  
 Thursday 29 July 1999
- Doctor John Gillaspay  
 National Institute of Standards and Technology (NIST), MD, U.S.A  
 "Atomic Resolution STM Image of HOPG"  
 Thursday 29 July 1999
- Doctor Baerbel Siegmann  
 Fakultat fur Physik, Universitat Bielefeld, Bielefeld, Germany  
 "Ion-Impact Ionization and Fragmentation of Molecules"  
 Friday 30 July 1999
- Professor Bernd Huber  
 CEA, Grenoble, France

“Heavy-Ion Cluster Collisions”

Friday 30 July 1999

Professor Kazuhiko Okuno  
Department of Physics, Tokyo Metropolitan University,  
Tokyo, Japan

“Fragmentation of Diatomic Molecules in Slow Multiply  
Charged Ion Collisions”

Friday 30 July 1999

Professor Kazuhiro Yabana  
Graduate School of Science and Technology, Niigata  
University, Niigata, Japan

“Ion-Cluster Collisions: Theory and Experiment”

Friday 30 July 1999

Doctor Gerald Gwinner  
Max-Planck-Institute für Kernphysik, Heidelberg,  
Germany

“Electron-Ion Recombination at Very Low Energies”

Friday 30 July 1999

Professor Dirk Schwalm  
Max-Planck-Institute für Kernphysik, Heidelberg,  
Germany

“Collisional Break-Off of Molecules”

Friday 30 July 1999

Professor Tohru Kinugawa  
JCT, Chofu, Tokyo

“Performance of the Tokyo EBIT for the Collision  
Experiments with Highly Charged Ions”

Friday 30 July 1999

Doctor John Gillaspay  
National Institute of Standards and Technology (NIST),  
MD, U.S.A

“Photon Emission by the Ion Cloud in the NIST EBIT”

Friday 30 July 1999

Doctor Jose R. Crespo-Lopez-Urrutia  
Department of Physics, Universitat Freiburg, Freiburg,  
Germany

“Status of the Freiburg Electron Beam Ion Trap FreEBIT:  
A New Source for High-Z Hydrogenic Ions”

Friday 30 July 1999

Professor Tatsuaki Kanai  
NIRS, Chiba

“Topics in Heavy-Ion Radiotherapy”

Friday 30 July 1999

Professor Chii-Dong Lin  
Department of Physics, Kansas State University, KS,  
U.S.A

“ $p^+/p^-$  and  $e^+/e^-$  Collisions with Negative Ions at Low  
Energies”

Friday 30 July 1999

Doctor Brett D. DePaola  
Department of Physics, Kansas State University, KS,  
U.S.A

“Progress in the MOTRIMS Project: Ion-Atom Collisions  
with a MOT Target”

Friday 30 July 1999

Professor Itzik Ben  
Department of Physics, Kansas State University, KS,  
U.S.A

“Charge Transfer in very slow (milli-eV)  $H^+ + D(1s)$   
collisions”

Friday 30 July 1999

Professor Wah Chiu  
National Center for Macromolecular Imaging,  
Baylor College of Medicine, USA

“Electron Crystallography of Biological Particles”

Thursday 25 March 1999

Dr. Yoshihide Fukahori  
Materials Develop Department, Bridgestone Corporation,  
Yokohama, Japan

“Fracture and Fatigue of Polymeric Materials”

Friday 22 January 1999

Dr. Bernard Lotz  
Institut Charles Sadron (CNRS-ULP), Strasbourg, France

“Frustrated Polymer Crystal Structures”

Saturday 30 January 1999

Prof. Jean-Marc di Meglio  
Department of Applied Mathematics, Australian National  
University, Australia

“Micromanipulation of Absorbed Polymer Chains Using  
an Atomic Force Microscope (AFM)”

Monday 15 March 1999

Dr. Yoshihide Fukahori  
Materials Develop Department, Bridgestone Corporation,  
Yokohama, Japan

“Reinforcement of Polymeric Materials”

Wednesday 17 March 1999

Dr. Regina Valuuzi  
Biotechnology Center, Tufts University, Boston, USA

“Structural Study of Silk”

Friday 2 April 1999

Dr. Mary Anne Mehta  
Faculty of Engineering, Shizuoka University, Hamamatsu,  
Japan

“Polymer Solid Electrolytes - A Miscellany”

Wednesday 26 May 1999

Prof. Kuang SHIN-JUN  
Pulp and Paper Industrial Research Institute of China,  
Beijing, China

“The Development of Non-Wood Fiber in Pulp and Paper  
Industry”

Thursday 3 June 1999

Prof. Kazuyoshi Iwata  
Faculty of Engineering, Fukui University, Fukui, Japan

“New Theoretical Approach for Entanglement Couplings  
in Polymers - Rubber Elasticity and Polymer  
Crystallization”

Thursday 2 September 1999

Prof. Tomoo Shiomi  
Faculty of Engineering, Nagaoka University of  
Technology, Nagaoka, Japan

“Crystallization Behavior in Multi-phase Systems of

Polymers”

Friday 26 November 1999

Dr. Bruce A. Moyer

Oak Ridge National Laboratory, U.S.A.

“Crown Ethers for Selective Extraction of Metal Ions:  
From Fundamental to Applied Chemistry”

Saturday 4 December 1999

Professor Ingrid Mertig

Institut für Theoretische Physik, Technische Universität  
Dresden, Germany

“Microscopic Origin of XMR(X=G, T)”

Monday 22 February 1999

Doctor Claude Chappert

Institut d'Électronique Fondamentale Université Paris  
Sud, Orsay, France

“Ion Beam Irradiation and Magnetic Nanostructures”

Friday 26 March 1999

Professor Werner Keune

Laboratorium für Angewandte Physik, Gerhard-Mercator-  
Universität, Duisburg, Germany

“Recent Development of Mössbauer Spectroscopic  
Studies on Multilayers and Interfaces”

Friday 8 October 1999

Doctor Pierre Beauvillain

Institut d'Électronique Fondamentale Université Paris  
Sud, Orsay, France

“Recent Results on Spectroscopic Magneto-optics and  
Non-linear Magnetic-optics”

Monday 25 October 1999

Doctor Lech Tomasz Baczewski

Institute of Physics, Polish Academy of Sciences, Warsaw,  
Poland

“Magnetic and Magnetotransport Properties of Epitaxial  
MBE-Grown Co/Cu Multilayers”

Tuesday 16 November 1999

Dr. Masayasu Takeda

Department of Physics, Tohoku University

“Magnetic Artificial Lattice Studied by Polarized Neutron  
Reflection”

Friday 13 November 1998

Dr. Hitoshi Ohta

Department of Physics, Kobe University

“ESR Measurement under High Magnetic Field and  
Magnetic Transition in the

Low-dimensional Magnetic System”

Wednesday 10 February 1999

Dr. Masaaki Matsuda

The Institute of Physical and Chemical Research

“Study of the Low-dimensional Copper Oxide by Neutron  
Scattering”

Wednesday 10 February 1999

Professor Y. J. Uemura

Department of Physics, Columbia University, USA

“ $\mu$ SR Studies of Doped and Undoped Spin Gap Systems”

Monday 11 January 1999

Professor H. Takagi

Department of Advanced Materials Science and Graduate  
School of Frontier Sciences,

University of Tokyo

“Heavy Fermion like behaviors in LiV<sub>2</sub>O<sub>4</sub> Spinel”

Wednesday 24 March 1999

Dr. N. D. Zhigadl

National Institute for Research in Inorganic Materials

“Homologous series of high-T<sub>c</sub> superconductors  
(Cu,C)Sr<sub>2</sub>Can-1CunOy and (Cu,N,C)Sr<sub>2</sub>Can-1CunOy

Synthesized under high pressure”

Thursday 25 March 1999

Professor Paul Hagenmuller

Universite de Bordeaux I

“Solid State Chemistry and Material Science”

Monday 11 November 1999

Professor Thomas P. Seward III

Alfred University

“Fundamental and Technological Problems in Glass  
Industry”

Monday 5 July 1999

Professor Evaristo Riande

Institute of Science and Technology of Polymers,  
National Council of Scientific Research (CSIC),

Madrid, Spain

Theoretical Predictions of the Equilibrium and

Dynamic Dielectric Properties of Polymers

Thursday 30 September 1999

Professor John F. Brady

Division of Chemistry and Chemical Engineering,  
California Institute of Technology,

Pasadena, CA 91125, USA

Stress Relaxation in Colloidal Dispersions

Thursday 9 December 1999

Associate Professor Hervé Marand

Department of Chemistry and Materials Science and  
Engineering, Virginia Polytechnic Institute and State

University, Virginia, USA

“Equilibrium Melting Temperature and Crystal Growth  
Rate Analyses of Flexible Chain Polymers”

Friday 14 May 1999

Dr. Jozef Kristiak

Institute of Physics, Slovak Academy of Science, Slovak  
Republic

“Does Positronium Feel Dynamics of Polymer Chains?”

Monday 21 June 1999

Professor Junji Watanabe

Department of Polymer Chemistry, Tokyo Institute of  
Technology, Tokyo Japan

“Structure of Liquid Crystalline Polymers and their  
Formation Processes”

Monday 6 September 1999

Professor David C. Bassett

J. J. Thomson Physical Laboratory, University of Reading,  
Reading, UK

“Advanced Polyolefine Fibers and Self-Composites: New  
Materials and New Science”

Friday 10 September 1999

Professor Bernd Ewen  
Max-Planck-Institute für Polymerforschung, Mainz,  
Germany  
“Single and Many Chain Behaviour in Melts of Short  
Chain Homopolymers and Related Binary Blends as  
Observed by Static and Dynamic Neutron Scattering”  
Friday 29 October 1999

Professor Francisco J. Baltá Calleja  
Consejo Superior de Investigaciones Científicas, Madrid,  
Spain  
“Application of Synchrotron Radiation to Time-Resolved  
Scattering of Polymers”  
Monday 1 November 1999

Professor Chi Wu  
Department of Chemistry, The Chinese University of Hong  
Kong, Shatin, N. T. Hong Kong  
“Internal Motion of Linear Chains and Spherical  
Microgels in Solution”  
Tuesday 2 November 1999

Professor Hajime Tanaka  
Institute of Industrial Science, University of Tokyo, Tokyo,  
Japan  
“Slow Dynamics in Complex Fluids”  
Thursday 16 November 1999

Professor Yoshio Inoue  
Tokyo Institute of Technology, Japan  
“Structure, Properties, and Biodegradation of Bacterial  
Polyesters”  
Monday 18 January 1999

Dr. Giichi Tanabe  
National Institute of Materials and Chemical Research,  
Japan  
“Possibilities of Polysilanes as Advanced Materials”  
Thursday 11 March 1999

Professor Toshio Nishi  
The University of Tokyo, Japan  
“Structure Formation in Crystalline Polymer Blends”  
Tuesday 16 March 1999

Prof. Eduardo Humeres  
Universidade Federal de Santa Catarina  
“Supermolecular Catalysis by Water Induced by  
Polysaccharides. p-Nitrobenzyl Amyloses Xanthate”  
Monday 4 October 1999

Dr. Andrew K. Wittaker  
University of Queensland, Australia  
“NMR and MRI Studies of Swellable Polymer Devices”  
Monday 1 November 1999

Professor Dax Kukulj  
University of Warwick, UK  
“Synthesis of Functional Polymers by Living Radical  
Polymerization”  
Wednesday 3 February 1999

Professor Kanji Kajiwara  
Faculty of Engineering and Design, Kyoto Institute of

Technology, Kyoto, Japan  
“Structure Formation of Glycopolymers in Solution”  
Friday 26 February 1999

Professor Krzysztof Matyjaszewski  
Carnegie Mellon University, USA  
“Comparison of Several Controlled Radical  
Polymerization Systems”  
Wednesday 21 July 1999

Professor Leonardus W. Jenneskens  
Utrecht University, Utrecht, The Netherlands  
“The Case of Imperfect Combustion; (non)-Alternant  
PAH, Soot and Carbon Allotropes”  
Thursday 20 May 1999

Professor Yves Rubin  
Department of Chemistry and Biochemistry, University  
of California, Los Angeles,  
Los Angeles, U.S.A.  
“Very Recent Advances in the Chemistry of C<sub>60</sub> and  
Approaches to Endohedral Metallofullerenes”  
Saturday 5 June 1999

Professor Herbert Mayr  
Department of Organic Chemistry, Ludwig Maximilians  
University of Munich, Munich, Germany  
“Reactivity Scales for Predicting Polar Organic and  
Organometallic Reactions”  
Thursday 14 October 1999

Professor Philip E. Eaton  
Department of Chemistry, University of Chicago, Chicago,  
U.S.A.  
“Octanitrocubane: Challenge and Rewards”  
Thursday 21 October 1999

Professor Yitzhak Apeloig  
Technion-Israel Institute of Technology, Israel  
“Low-coordination Silicon Compounds. Experiment and  
Theory”  
(mostly about silylene, disilenes, triple bonds and silyl  
radicals)  
Monday 12 April 1999

Professor Dainis Dakternieks  
Deakin University, Australia  
“Organotin Chemistry - Pathways to New Materials and  
Chirotechnology”  
Wednesday 21 April 1999

Professor Michael Brook  
McMaster University, Canada  
“New Materials from Silicones and Biopolymers”  
Tuesday 1 June 1999

Professor Peter Jutzi  
University Bielefeld, Germany  
“Cyclopentadienyl  $\pi$  Metal Complexes”  
Tuesday 1 June 1999

Professor Robert West  
University of Wisconsin, Madison, USA  
“Low-Coordinate Silicon Compounds - Some Recent  
Results”  
Tuesday 1 June 1999

Professor Emeritus Akira Nakamura  
Osaka University, Osaka, Japan  
“Polymerization of Olefins Catalyzed by Organotantalum Compounds”  
Monday 21 June 1999

Professor Konrad Seppelt  
Free University, Berlin  
“Small Molecules Made from Electronegative Elements”  
Thursday 30 September 1999

Professor Guy Bertrand  
Paul Sabatier University, France  
“Stable Carbenes and Related Species”  
Thursday 7 October 1999

Professor Yoshito Tobe  
Department of Fundamental Chemical Engineering, Osaka University  
“Enthalpy-Entropy Compensation in Chiral Molecular Recognition”  
Tuesday 12 January 1999

Professor Kenji Koga  
Nara Institute of Science and Technology  
“Synthesis of Lithium Amide and Approach to Asymmetric Catalysis”  
Thursday 4 February 1999

Professor Masahiro Hirama  
Graduate School of Science, Tohoku University  
“Paramagnetic Chromoprotein Antibiotics Mechanism and Synthesis”  
Tuesday 16 March 1999

Professor Mugio Nishizawa  
Faculty of Pharmaceutical Sciences, Tokushima Bunri University  
“Olefin Cyclization Using Mercury Triflate”  
Tuesday 16 March 1999

Associate Professor Katsuhiko Tomooka  
Department of Chemical Engineering, Tokyo Institute of Technology  
“Development and Progress in Carbanion [1,2]-Rearrangement”  
Friday 23 April 1999

Professor Gerrit-Jan Koomen  
University of Amsterdam  
“Biomimetic Synthesis of Nitraria Alkaloids”  
Thursday 27 May 1999

Professor Peter M-tyus  
Semmelweis University, Hungary  
“Synthesis of Novel 4,5-Fused Pyridazines with Biological Interest”  
Saturday 29 May 1999

Dr. Ganesh Pandey  
National Chemical Laboratory, India  
“Newer Synthetic Designs Involving Non-Stabilized Azomethine Ylides”  
Tuesday 5 October 1999

Professor Volker Jäger

University of Stuttgart, Germany  
“Synthesis of New Carbo-and Heterocyclic Structures and Their Biological Evaluation as Glycosidase Inhibitors”  
Thursday 11 November 1999

Professor Daniel Bellus  
Fribourg University, Germany  
“Synthetic Successes and Surprises with Cyclobutane”  
Friday 26 November 1999

Dr. Michel Miesch  
Directeur de Recherche CNRS, Strasbourg, France  
“Strain Assisted Total Synthesis of Natural Products”  
Friday 26 November 1999

Professor Yoshimitsu Nagao  
Faculty of Pharmaceutical Science, The University of Tokushima  
“Development of New Reactions and Medicines based on Non-covalent Interactions”  
Wednesday 15 December 1999

Professor Hiroshi Terada  
Faculty of Pharmaceutical Science, The University of Tokushima  
“Dynamics of Transmitting Function of Transporter and its Mechanism for Recognition of Medicines”  
Wednesday 15 December 1999

Prof. K. S. Feldman  
Pennsylvania State University  
“Ellagitannin Chemistry”  
Friday 9 April 1999

Dr. Roland Furstoss  
CNRS, Marseille, France  
“Biocatalysis in fine organic synthesis: some illustrative applications”  
Monday 15 November 1999

Professor Joanna Strosznajder  
Laboratory of Cellular Signaling, Medical Research Center, Polish Academy of Sciences, Warsaw, Poland  
“Nitric Oxide in Adult and Aged Brain: Effect of A $\beta$ ”  
Wednesday 17 March 1999

Dr. Robert Strosznajder  
Department of Neurophysiology, Medical Research Center, Polish Academy of Sciences, Warsaw, Poland  
“Aggregated beta amyloid 1-40 decreases Ca<sup>2+</sup> and cholinergic receptor-mediated phosphoinositides degradation by alteration of membrane and cytosolic phospholipase C in brain cortex”  
Wednesday 21 April 1999

Dr. Yoshihiko Hirose  
Pharmaceutical Enzyme Division, Amano Pharmaceutical Co., Ltd. Japan  
“Approach towards the Applications of Biocatalytic Reactions”  
Monday 18 January 1999

Professor Peter Schreier  
Department of Food Chemistry, University of Würzburg, Germany  
“Biocatalysis and Flavour Formation”

Monday 6 September 1999

Professor Taichi Usui  
Department of Agriculture, Shizuoka University, Japan  
“Glycotechnological Studies on Oligosaccharide-Chain  
Library Preparation and Their Functionalization”  
Monday 27 September 1999

Professor Yutaka Ebizuka  
Graduate School of Pharmaceutical Sciences, The  
University of Tokyo, Japan  
“Structure and Function of Synthetic Enzymes of Natural  
Products”  
Friday 10 December 1999

Professor Shigeo Yoshida  
Plant Functions Laboratory, The Institute of Physical and  
Chemical Research (RIKEN)  
“Prospects for the Plant Regulation Science Towards the  
21<sup>st</sup> Century”  
Monday 20 December 1999

Professor Jennifer Littlechild  
University of Exeter, UK  
Structural Studies on Enzymes Important in  
Biotransformation Reactions  
Saturday 5 June 1999

Dr. Jiri Damborsky  
Masaryk University, Czech Republic  
“Application of Computer Modelling and Bioinformatics  
for Study of the Microbial Degradation of Xenobiotic  
Compounds”  
Friday 15 October 1999

Professor Chris Bowler  
Molecular Plant Biology Laboratory, Stazione Zoologica,  
Napoli, Italy  
“Molecular Genetic Dissection of Light Signal

Transduction in Tomato”  
Wednesday 18 February 1999

Dr. Tamaki Watanabe  
High Energy Accelerator Research Organization (KEK),  
Japan  
“Heavy Ion Cooler Storage Ring, TARN II”  
Wednesday 6 January 1999

Professor Satoru Yamada  
National Institute of Radiological Sciences, Japan  
“HIMAC and Related Science”  
Thursday 21 January 1999

Dr. Kimikazu Sasa  
Research Laboratory for Nuclear Reactors, Tokyo Institute  
of Technology, Japan  
“Plasma Generation by High Intensity Ion Beam using  
RFQ Linac”  
Wednesday 24 February 1999

Professor Kazuhisa Nakajima  
High Energy Accelerator Research Organization (KEK),  
Japan  
“High Brightness laser and Beam-Plasma Interaction”  
Wednesday 30 June 1999  
Thursday 1 July 1999

Dr. Jean- Michel Lagniel  
CEA- Saclay, DSM/ DAPNIA/ SEA, France  
“High Intensity Linac Studies in France”  
Thursday 9 September 1999

Dr. Eric Esarey  
Lawrence Berkeley National Laboratory, USA  
“Laser synchrotron light via Thomson scattering and  
applications”  
Wednesday 20 October 1999