

Chapter 6 Academic Activities

1. Presentations at International Conferences and Symposia

Theory of Solid State Physics

MAEKAWA Sadamichi

Prof.

Invited	Tohoku-Cambridge Forum Spin Dependent Transport in Magnetic Nanostructure UK Cambridge 2004 6 10 – 2004 6 11
Invited	2nd Asia-Pasific Physics Workshop Novel Phenomena Caused by Spin-Charge Separation Hong Kong Hong Kong 2004 6 21 – 2004 6 24
Invited	Supectroscopies in Novel Superconductor Sitges 2004 Electronic State and Superconductivity in Frustrated Lattices Spain Sitges 2004 7 10 – 2004 7 16
Invited	The 20 th General Conference of the Condensed Matter Division of the European Physical Society New oxides-superconductors: Similarity and dissimilarity to HTSCs Czechoslovakia Prague 2004 7 17 – 2004 7 23
Invited	Inelastic X-ray Scattering 2004 Theory of RIXS in Strongly Correlated Electron Systems USA Argonne 2004 9 19 – 2004 9 24
Invited	The 4th International Conference Stripe 04 Nanoscale Heterogenety and Quantum Phenomena In Complex Matter Kagome vs. Triangular Lattice in Cobaltates Italy Roma 2004 9 26 – 2004 9 29
Invited	Australia-Japan Workshop on Advanced Materials Concepts in Spin Electronics Australia Sydney 2004 12 5 – 2004 12 7
Invited	The 5th Korea-Japan-Taiwan Symposium on Strongly Correlated Electron Systems Theory of RIXS in Strongly Correlated Electron Systems Korea Busan 2004 12 10 – 2004 12 11

TOHYAMA Takami

Assoc. Prof.

Invited	Fifth International Conference on New Theories, Discoveries and Applications of Superconductor and Related Materials (New3SC-5) Numerical study of the electronic states in hole- and electron-doped high-Tc cuprates China Chongqing 2004 6 11 – 2004 6 16
Poster	7th International Conference on Spectroscopies of Novel Superconductors (SNS2004) Spectral function in hole- and electron-underdoped high-Tc cuprates Spain Sitges 2004 7 11 – 2004 7 16
Invited	The 4th International Workshop on Novel Quantum Phenomena in Transition Metal Oxides Electronic and charge excitations in the upper Hubbard band Japan Sendai 2004 11 22 – 2004 11 24
Invited	Workshop on “ Electron-Phonon Interaction in High-Tc Superconductors ” Numerical Study on High-Tc Superconductors Japan Tsukuba 2005 1 5 – 2005 1 7

TAKAHASHI Saburo

Res. Assoc.

Poster	Spectroscopies in Novel Superconductors Quantum interference due to crossed Andreev reflection in a d-wave superconductor with two nano-contacts Spain Sitges 2004 7 11 – 2004 7 16
Invited	2nd Euro-Asian Symposium “Trends in Magnetism” Spin Injection, Accumulation, and Transport in Hybrid Nanostructures Russia Krasnoyarsk 2004 8 24 – 2004 8 27
Invited	Tohoku University/UMR CNRS-Thales Workshop “Trends in Spintronics” Spin injection and transport in hybrid structures France Orsay 2005 3 22 – 2005 3 22

KOYAMA Tomio

Res. Assoc.

Invited	The 2nd CREST-NANOFAB workshop NFS2004 Phenomenological Quantum Phase Dynamics of Compact Japan Osaka 2004 12 1 – 2004 12 2
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KOSHIBAE Wataru

Res. Assoc.

Invited	Fifth International Conference on New Theories, Discoveries, and Application of Superconductors and Related Materials (New3SC-5) Electronic state of CoO ₂ layer China Hilton-Chongqi	2004 6 11 – 2004 6 16
Poster	2nd Asia-Pacific Physics Workshop Frontier in Condensed Matter Physics Hall Effect in the CoO ₂ Layer with Hexagonal Structure Hong Kong Hong Kong	2004 6 21 – 2004 6 24
Invited	The 4th International Workshop on Novel Quantum Phenomena in Transition Metal Oxides and The 3rd Asia-Pacific Workshop on "Strongly Correlated Electron Systems" Hall effect in CoO ₂ layer with hexagonal structure Japan Sendai	2004 11 22 – 2004 11 24

Crystal Physics

NAKAJIMA Kazuo

Prof.

Invited	1st AIST-RCPV International Workshop Melt growth of SiGe multicrystals with microscopic compositional distribution for new solar cell applications Japan Tsukuba	2004 5 12 – 2004
Invited	2004 Asian Symposium on Crystal Growth and Crystal Technology Melt growth of SiGe multicrystals with microscopic compositional distribution for new solar cell applications China Shandong	2004 5 26 – 2004
Invited	The Tohoku-Cambridge Forum, Cambridge University Melt growth of SiGe bulk crystals with uniform composition and SiGe multicrystals with microscopic compositional distribution for new SiGe solar cell applications UK Cambridge	2004 6 10 – 2004 6 11
Poster	19th European Photovoltaic Solar Energy Conference and Exhibition Growth and properties of SiGe multicrystalline solar cells with microscopic compositional distribution France Paris	2004 6 11 – 2004 6 17
Oral	The Fourteenth International Conference on Crystal Growth (ICCGE-14) Growth and properties of SiGe multicrystals with microscopic compositional distribution and their applications for high efficiency solar cells France Grenoble	2004 8 9 – 2004 8 13

Oral	The first International SiGe: Materials, Processing, and Devices Symposium in the Fall 2004 Electrochemical Society Conference		
	Improvement of device performance of multicrystalline Si-based solar cells using multicrystalline SiGe with microscopic compositional distribution		
	USA	Honolulu	2004 10 3 – 2004 10 8

Invited	The Second Japan–Australia Workshop on Advanced Materials		
	Growth and properties of SiGe multicrystals with microscopic compositional distribution and their applications for high efficiency solar cells		
	Australia	Sydney	2004 12 5 – 2004 12 7

USAMI Noritaka Assoc. Prof.

Oral	19th European Photovoltaic Solar Energy Conference and Exhibition, Systematic variation of Si spacer width in solar cells with stacked Ge islands and its effect on photovoltaic performance		
	France	Paris	2004 6 7 – 2004 6 11

Oral	14th International Conference on Crystal Growth and 12th International Conference on vapor growth and epitaxy Growth of SiGe-on-insulator and its application as a substrate for epitaxy of strained Si layer		
	France	Grenoble	2004 8 9 – 2004 8 13

Invited	1st IEEE International Conference on Group IV Photonics New Solar Cells Using Ge Dots Embedded in Si PIN Structures		
	Hong Kong	Hong Kong	2004 9 29 – 2004 10 1

Poster	Third international workshop on new group-IV (Si–Ge–C) semiconductors Growth of SiGe bulk crystal with uniform composition		
	Japan	Sendai	2004 10 12 – 2004 10 13

SAZAKI Gen Lecturer

Poster	10th International Conference on Crystallization of Biological Macromolecules In situ observation of elementary growth steps on protein crystals and individual protein molecules diffusing in the vicinity of crystal surfaces		
	China	Beijing	2004 6 5 – 2004 6 8

Oral	14th International Conference on Crystal Growth and 12th International Conference on vapor growth and epitaxy Development of novel in situ techniques for the observations of elementary growth steps on protein crystals and individual protein molecules diffusing in the vicinity of crystal surfaces		
	France	Grenoble	2004 8 9 – 2004 8 13

Res. Assoc.

ATSUI Takuro Post Doctoral Researcher

ALGUNO Arnold PhD student

OKADA Masashi PhD student

AZUMA Yukinaga PhD student

Poster	14th International Conference on Crystal Growth and 12th International Conference on vapor growth and epitaxy		
	Restraining polycrystallization of multicomponent semiconductors using seed crystals of random orientations		
	France	Grenoble	2004 8 9 – 2004 8 13

KUTUKAKE Kentaro

PhD student

Oral	2004 Joint International Meeting The Electrochemical Society , The Electrochemical Society of Japan and The Japn Society of Applied Phisics
	A Comparative study of strain field in strain ed Si on SiGe virtual substrates
	USA Hawaii 2004 10 3 – 2004 10 8

Magnetism

NOJIRI Hiroyuki

Prof.

Oral	The Xth MEGAGAUSS-Conference
	DEVEROPMENT OF MINIATURE COILS AND A SMALL CAPACITOR BANK FOR SYNCHROTRON RADIATION EXPERIMENTS IN HIGH MAGNETIC FIELDS
	Germany Berlin 2004 7 18 – 2004 7 23

Keynote	Conference Digest of the 2004 Joint 29th International conference on infrared and Millimeter Waves and 12th International Conference on Terahertz Electronics
	FIR-Magnetspectroscopy on Molecular Magnets
	Germany Karlsruhe 2004 9 27 – 2004 10 12

Oral	The IXth International Conference on Molecule-based Magnets
	Half Step Magnetization for Spin Chirality in Frustrated Spin Rings
	Japan Tsukuba 2004 10 4 – 2004 10 8

Oral	International Symposium on Quantum Spin Systems (QSS04)
	Effect of spin chirality on magnetization in triangle based compounds
	Japan Hayama 2004 11 30 – 2004 12 3

Invited	International Symposium on Nano-astructures and Physicochemical Properties of Polyoxometalate Superclusters and Related Colloid Particles
	Manipulation of Spin State in Nano-clusters by Pulsed Magnetic Fields
	Japan Kanagawa 2004 12 21 – 2004 12 25

MOGI Iwao

Res. Assoc.

Oral	2004 Joint Int. Meeting of Electrochemical Society
	Thermal Convection in Water under Strong Gradient Magnetic Fields
	USA Honolulu 2004 10 3 – 2004 10 7

OSHIMA Yugo

Res. Assoc.

Oral	International Conference on Science and Technology of Synthetic Metals (ICSM2004) EMR measurements of field-induced superconductor λ -(BETS) $2\text{Fe}_x\text{Ga}_{1-x}\text{Cl}_4$
	Australia Wollongong 2004 6 1 –

CHOI Kwang Yong

Res. Assoc.

Invited	International Workshop on Collective quantum states in low-dimensional transition metal oxide Magnetic excitations in helical ordered quantum spin systems
	Germany Dresden 2005 2 22 – 2005 2 26

Surface and Interface Research

SAKURAI Toshio

Prof.

Invited	Beijing –TEDA 2004 Scanning Probe Microscopy, Sensors and Nanostructures Dynamics and Nano-clustering of Alkali Metals Adsorbed on the Si(111)-(7x7) Surface
	China Beijing–TEDA 2004 5 23 – 2004 5 27

Invited	Swiss–Japanese Nanoscience Workshop Role of strained surface structure in the growth of Ge quantum dot
	Japan Nara 2004 6 23 – 2004 6 25

Invited	The Sixth Taipei Symposium on Surfaces, Thin Films, and Nano Sciences Alkali Metal Adsorption on the Si(111)-(7x7) Surface
	Taiwan Taipei 2004 8 17 – 2004 8 19

Invited	Functionality of Organized Nanostructures (FON'04) Alkali metals adsorption on the Si (111)-7x7 surface: From 2D gas to magic clusters
	Japan Tsukuba 2004 11 30 – 2004 12 2

FUJIKAWA Yasunori

Res. Assoc.

Oral	American Physical Society March Meeting 2005 Local distribution of segregated Si on the hydrogen-treated Ge/Si(001) studied by STM
	USA Los Angeles 2005 3 21 – 2005 3 25

Oral	17th International Symposium on Superconductivity (ISS2004)			
	Hole-doping and magnetic-field effect on the pseudogap in $\text{Bi}_{1.74}\text{Pb}_{0.38}\text{Sr}_{1.88}\text{CuO}_{6+\delta}$			
	studied by the out-of-plane resistivity			
	Japan	Niigata	2004 11 23 –	2004 11 25

NISHIZAKI Terukazu Res. Assoc.

Oral	17th International Symposium on Superconductivity (ISS2004)			
	Vortex Phase Diagram in Impurity doped $\text{YBa}_2\text{Cu}_3\text{O}_y$ Single Crystals			
	Japan	Niigata	2004 11 23 –	2004 11 25

Invited	Joint meeting of The International Symposium on JSPS Core-to-Core Integrated Action Initiative "Nanoscience and Engineering in Superconductivity" (CTC-NES) and The 4th International Symposium on Intrinsic Josephson Effect and Plasma Oscillations in High-Tc Superconductors (PLASMA 2004)			
	Vortex order-disorder transition and the effect of Zn and Ni substitution in $\text{YBa}_2\text{Cu}_3\text{O}_y$			
	Japan	Tsukuba	2004 11 26 –	2004 11 28

Invited	Tenth International Vortex Workshop (IVW10)			
	Vortex Phase Diagram in Ni and Zn Doped Untwinned $\text{YBa}_2\text{Cu}_3\text{O}_y$			
	India	Mumbai	2005 1 9 –	2005 1 14

YONEYAMA Naoki Res. Assoc.

Poster	The International Conference on the Science and Technology of Synthetic Metals 2004 (ICSM2004)			
	Vortex-pinning effect in the mixed crystal of $\kappa\text{-(BEDT-TTF)}_2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$ consisting of the fully-hydrogenated and deuterated donors			
	Australia	Wollongong	2004 6 28 –	2005 7 2

Poster	International Symposium on Frontier in Materials Design, Synthesis and Measurements			
	Electronic phase diagram and metal-insulator phase separations in the band width controlled organic system $\kappa\text{-(BEDT-TTF)}_2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$			
	Japan	Awaji	2005 3 11 –	2005 3 15

Low Temperature Condensed State Physics

IWASA Yoshihiro

Prof.

Invited	205th Electrochemical Society Meeting Control of transistor properties of fullerene thin films using self-assembled monolayers USA	San Antonio	2004 5 10 – 2004 5 15
Invited	Japan-Korea Symposium on Carbon Nanotubes Transport and Optical Properties of Doped Carbon Nanotubes Korea	Jeju Island	2004 10 13 – 2004 10 15
Invited	Japan-Singapore Symposium on Nanoscience and Nanotechnology Tuning Charge Carrier Properties in Carbon Nanostructures by interaction with organic molecules Singapore	Singapore	2004 11 1 – 2004 11 3
Invited	International Workshop on Multifunctional Molecular Materials A new aspect of carrier doping in molecule based materials Japan	Kyoto	2005 1 20 – 2005 1 21
Poster	2005 Materials Research Society Spring Meeting Control of thin film transistor operations with polar self-assembled monolayers USA	San Francisco	2005 3 28 – 2005 4 1

TAGUCHI Yasujiro

Assoc. Prof.

Invited	Gordon Research Conference on Magnetic Nanostructures Spin chirality as a source of anomalous Hall effect USA	Montana	2004 8 22 – 2005 8 27
Poster	17th International Symposium on Superconductivity Anomalous large electron-phonon coupling constant in layered nitride superconductors as revealed by high pressure measurements Japan	Niigata	2004 11 23 – 2004 11 25

KOBAYASHI Shin-ichiro

Res. Assoc.

Oral	The 2004 Electronic Materials Conference Control of Transport by Self-Assembled-Monolayers in Organic Thin-Film Transistors USA	South Bend	2004 6 23 – 2004 6 25
Oral	The International Conference on Synthetic Metals(ICSMT) 2004 Turning carrier density in organic thin film transistors with self-assembled monolayers Australia	Wollongong	2004 6 26 – 2004 7 3

TAKENOBU Taishi

Res. Assoc.

Poster	The International Conference on Synthetic Metals(ICSM) 2004 Structure and transport properties of doping controlled carbon nanotube by encapsulation of organic molecules
	Australia Wollongong 2004 6 26 – 2004 7 3

Poster	XIXth International Winterschool Euroconference on Electronic Properties of Novel Materials Carbon nanotubes under electric field: Stark effect and carrier accumulation
	Austria Kirchberg 2005 3 12 – 2005 3 19

SHIMOTANI Hidekazu

Researcher

Poster	Third International Conference on Molecular Electronics and Bioelectronics Comparison of Field-Effect and Electrochemical Transistor of Poly(3-Hexylthiophene) and SWNT: Effect of Dopant
	Japan Tokyo 2005 3 3 – 2005 3 4

KANBARA Takayoshi

PhD student

Poster	Nano Phys 2005 The TLL-Like behavior observed in multiwalled carbon nanotube
	Japan Tokyo 2005 1 26 – 2005 1 28

Poster	XIXth International Winterschool Euroconference on Electronic Properties of Novel Materials Gate-induced crossover from unconventional metals to fermi liquid in multiwalled carbon nanotubes
	Austria Kirchberg 2005 3 12 – 2005 3 19

HISAKABE Michinori

PhD student

Poster	17th International Symposiumu on Superconductivity Anomalusly large electron-phonon coupling constant in layered nitride superconductors as revealed by high pressure measurements
	Japan Niigata 2004 11 23 – 2004 11 25

Neutron and γ -Ray Spectroscopy on Condensed Matters

YAMADA Kazuyoshi

Prof.

invited	The Second American Conference on Neutron Scattering Field-induced Magnetic Correlation in High Tc Cuprates USA	College Park	2004 6 6 – 2004 6 10
invited	2nd Asia-Pacific Workshop Frontier in Condensed Matter Physics High Energy Spin Excitations in High Tc Studied by Neutron Scattering China	Hong Kong	2004 6 20 – 2004 6 24
invited	Japan-French Meeting on Quantum Complex Systems” , 2004 July 21-24, Grenoble Issues of Spin Excitations in high Tc Cuprates France	Grenoble	2004 7 21 – 2004 7 24
invited	The 7th International Conference on Spectroscopies in Novel Superconductors Spin and Charge Fluctuations in High-Tc Cuprates Studied by Neutron and X-ray Inelastic Scattering Spain	Sitges	2004 7 22 – 2004 7 26
invited	The 4th International workshop on Novel Quantum Phenomena in Transition Metal Oxides and The 3rd Asia-Pacific Workshop on Novel Quantum Phenomena in Transition Metal Oxides New Aspects of High-Tc Cuprates Found by Neutron Scattering during the Maekawa Project Japan	Sendai	2004 11 22 – 2004 11 24
invited	International Symposium on Frontier in Materials Design, Synthesis and Measurements Neutron Scattering, a Unique Probe for Static and Dynamical Spin NanoStructures in Strongly Correlated Electron Systems Japan	Awaji	2005 3 11 – 2005 3 15

OHOYAMA Kenji

Assoc. Prof.

Poster	The International Conference on Strongly Correlated Electron Systems (SCES2004) Characteristic profile of magnetic diffuse scattering in ErB ₂ C ₂ Germany	Karlsruhe	2004 7 26 – 2004 7 30
Poster	International Symposium on Frontier in Materials Design, Synthesis and Measurements Crystal Structure Refinement of Li, Mg-Based Complex Hydrides by Neutron Diffraction Japan	Awaji	2005 3 11 – 2005 3 15

FUJITA Masaki

Res. Assoc.

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| Oral | 17th international Symposium on Superconductivity
Neutron Scattering Study on Stripe Correlations in $\text{La}_{1-x}\text{Ba}_x\text{CuO}_4$
Japan Niigata 2004 11 23 – 2004 11 25 |
| Poster | International Symposium on Frontier in Materials Design, Synthesis and Measurements
Spin Correlations in Electron-Doped High- T_c Superconductor
Japan Awaji 2005 3 11 – 2005 3 15 |
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HIRAKA Haruhiro

Res. Assoc.

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| Poster | International Workshop on Novel Quantum Phenomena in Transition Metal Oxides
Characterization of low-energy magnetic excitations in Cr
Japan Sendai 2004 11 22 – 2004 11 24 |
| Poster | International Workshop on Novel Quantum Phenomena in Transition Metal Oxides
Ni impurity effects on magnetism and superconductivity in the hole-doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$
Japan Sendai 2004 11 22 – 2004 11 24 |
| Poster | International Symposium on Frontier in Materials Design, Synthesis and Measurements
Ni impurity effect on antiferromagnetic order in lightly hole-doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$
Japan Awaji 2005 3 11 – 2005 3 15 |
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HINO Aya

PhD student

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| Poster | 17th international Symposium on Superconductivity
A Study of Impurity Effect on Spin Correlations in Electron-Doped $\text{Pr}_{1-x}\text{La}_x\text{Ce}_y\text{Cu}_{1-y}\text{Zn}_y\text{O}_4$
Japan Niigata 2004 11 23 – 2004 11 25 |
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Physics of Crystal Defects

Invited	The 14th International Conference on Crystal Growth Growth and Fundamental Properties of SiGe Bulk Crystals France Grenoble 2004 8 9 – 2004 8 13
Poster	14th International Conference on Crystal Growth Dislocation–impurity Interaction in Czochralski-grown Si heavily doped with B and Ge France Grenoble 2004 8 9 – 2004 8 13
Poster	14th International Conference on Crystal Growth Behavior of the edge dislocation propagating along the growth direction in Czochralski Si crystal growth France Grenoble 2004 8 9 – 2004 8 13
Poster	11th International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials Atomic structure of SixGe1-x solid solution crystals Japan Sendai 2004 8 22 – 2004 8 26
Invited	The 10th International Conference on Extended Defects in Semiconductors Dislocation–Impurity Interaction in Si Russia Moscow 2004 9 11 – 2004 9 17
Poster	10th International Conference on Extended Defects in Semiconductors Photoluminescence study of plastically deformed GaN Russia Moscow 2004 9 11 – 2004 9 17
Oral	5th International Conference on Materials for Microelectronics and Nanoengineering Atomic structure and relaxation in Czochralski-grown SixGe1-x bulk alloys UK Southampton 2004 9 13 – 2004 9 14
Poster	5th International Conference on Materials for Microelectronics and Nanoengineering Dislocation of high quality large ZnTe substrate examined by X-ray topography UK Southampton 2004 9 13 – 2004 9 14
Oral	Materials Research Society 2004 Fall Meeting Photoluminescence study of plastically deformed GaN USA Boston 2004 11 28 – 2004 12 3
Poster	International Symposium on Characterization of Real Materials and Real Processing by Transmission Electron Microscopy Dynamics and Characters of dislocations in ZnSe Japan Nagoya 2005 1 26 – 2005 1 27

Poster	International Symposium on Characterization of Real Materials and Real Processing by Transmission Electron Microscopy			
	Atomic structure of dislocations and stacking faults in deformed GaAs			
	Japan	Nagoya	2005 1 26 –	2005 1 27

High Purity Metallic Materials

YOSHIMI Kyouzuke

Assoc. Prof.

Oral	The fifth Pacific Rim International Conference on Advanced Materials and Processing			
	Substructure Development in Rapidly Solidified B2-Type TiCo Ribbons			
	China	Beijing	2004 11 2 –	2004 11 5

Oral	The fifth Pacific Rim International Conference on Advanced Materials and Processing			
	Surface Morphology Characterization for Nanoself-patterned FeAl Single Crystal			
	China	Beijing	2004 11 2 –	2004 11 5

Oral	2004 MRS Fall Meeting			
	Effect of Heat Treatments on Microstructure of Rapidly Solidified TiCo Ribbons			
	USA	Boston	2004 11 29 –	2004 12 3

NAKAMURA Ryusuke

Post Doctoral Researcher

Poster	2004 MRS Fall Meeting			
	Thermal Analysis of Relaxation Process of Supersaturated Vacancies in B2-Type Aluminides			
	USA	Boston	2004 11 29 –	2004 12 3

Materials Design by Computer Simulation

KAWAZOE Yoshiyuki

Prof.

Invited	Tsinghua University – Nikkei BP Nanotech Forum			
	What is Genuine Nanotechnology?			
	China	Beijing	2004 4 15 –	2004 4 16

Invited	Second Conference of the Asian Consortium for Computational Materials Science (ACCMS-2)			
	Ultimate ab initio Calculations to Predict New Materials for Nanotechnology			
	Russia	Novosibirsk	2004 7 14 –	2004 7 16

Invited	The 3rd Advanced Science Institute the Japan Society for the Promotion of Science Ultimate ab initio Calculations to Predict New Materials Expected to be Used in Nanotechnology	Japan	Sendai	2004 7 26 – 2004 7 31
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Invited	The 2nd International Symposium on Nanomanufacturing (ISNM2004) Ultimate ab initio Study to predict New Nanoscale Materials	Korea	Daejeon	2004 11 3 – 2004 11 5
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TAKAHASHI Masae Res. Assoc.

Oral	16th International Conference on Phosphorus Chemistry Ab Initio MO Study of Charged P6 and Their Silicon Analogues: Stability and Aromaticity	UK	Birmingham	2004 7 4 – 2004 7 9
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Oral	Second Conference of the Asian Consortium for Computational Materials Science Design for UV-cut Materials Made of Novel Silicon Oligomers	Russia	Novosibirsk	2004 7 14 – 2004 7 16
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Poster	International Conference on Organic Photonics and Electronics 2005 & 8th International Conference on Organic Nonlinear Optics UV-Absorption Spectral Property of Novel Silicon Oligomers: An Ab Initio Study	Japan	Matsushima	2005 3 7 – 2005 3 11
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SAHARA Ryoji Res. Assoc.

Poster	The European Materials Research Society'04 Thermodynamic properties of transition metals using FCC and HCP lattice models with renormalized potentials	France	Strasbourg	2004 5 23 – 2005 5 30
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Oral	Second Conference of the Asian Consortium for Computational Materials Science First principles calculation of hardness analysis in perovskite-type rare earth rhodium borides and carbides	Russia	Novosibirsk	2004 7 14 – 2004 7 16
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Irradiation Effects in Nuclear and Their Related Materials

HASEGAWA Masayuki

Prof.

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| Oral | 22nd Symposium on Effect of Radiation on Materials(ASM) | | |
| | Positron Annihilation Study of Vacancy-Cu Aggregations in A533B Reactor Pressure | | |
| | USA | Boston | 2004 6 8 – 2004 6 10 |
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| Invited | The International School of Solid State Physics and NATO Advanced Study Institute | | |
| | “Formation and evolution of nanovoids and nano-precipitates in irradiated Fe-Cu | | |
| | model alloys and RPV steels ”, “ Radiation Effects in Solids “ | | |
| | Italy | Elice | 2004 7 17 – 2004 7 29 |
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| Invited | The International School of Solid State Physics and NATO Advanced Study Institute | | |
| | “ Positron annihilation methods in the studies of irradiation-induced defects in metals | | |
| | and semiconductors: Identification of the defects by positron annihilation” , “ | | |
| | Radiation Effects in Solids “ | | |
| | Italy | Elice | 2004 7 17 – 2004 7 29 |
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NAGAI Yasuyoshi

Assoc. Prof.

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| Invited | Second International Conference on Multiscale Materials Modeling | | |
| | Analysis of Embedded Nano-clusters by Positron Annihilation Spectroscopy | | |
| | USA | LA | 2004 10 11 – 2004 10 15 |
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| Oral | (ICAA-9) The 9th International Conference on Aluminium Alloys | | |
| | Coincidence Doppler Broadening and 3DAP Study of the Pre-Precipitation Stage of | | |
| | Al(-Li)-Cu-Mg(-Ag) Alloys | | |
| | Australia | Brisbane | 2004 8 2 – 2004 8 5 |
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| Oral | The 35th Polish Seminar on Positron Annihilation | | |
| | Coincidence Doppler Broadening Spectroscopy in Embedded Nano-Materials (IL) | | |
| | Poland | Turawa | 2004 9 20 – 2004 9 24 |
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TANG Zheng

Res. Assoc.

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| Oral | Eighth Japan-China Symposium on Materials for Advanced Energy Systems and | | |
| | Fission & Fusion Engineering | | |
| | First-Principles Studies of Atomic and Electronic Structures of Cu Precipitate in | | |
| | Dilute Fe-Cu Alloys | | |
| | Japan | Sendai | 2004 10 4 – 2004 10 8 |
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| Oral | International Symposium on Positron Beam and its Application | | |
| | Using Positron to Map Electron Distribution in Momentum Space | | |
| | China | Wuhan | 2004 10 28 – 2004 10 30 |
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Invited	The 4th International Workshop on Positron Studies of Semiconductor Defects (PSSD-2004)			
	Self-Energy Correction to Momentum Density Distribution of Positron-Electron Pairs in Si			
	USA	Coeur d'Alene	2004 11 7 – 2004 11 12	

Oral	The 4th International Workshop on Positron Studies of Semiconductor Defects			
	Theoretical studies of positronium localization and annihilation in siliaca			
	USA	Coeur d'Alene	2004 11 7 – 2004 11 12	

INOUE Koji	Res. Assoc.
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Oral	The 4th International Workshop on Positron Studies of Semiconductor Defects (PSSD-2004)			
	Vacancy Clusters and Vacancy-Impurity Complexes in Electron-Irradiated Si			
	Positron Annihilation, Electron Spin Resonance and Hall Coefficient Measurement			
	USA	Coeur d'Alene	2004 11 7 – 2004 11 12	

Oral	The 4th International Workshop on Positron Studies of Semiconductor Defects (PSSD-2004)			
	Positronium studies of structural open volumes in two-component silica-based glasses			
	USA	Coeur d'Alene	2004 11 7 – 2004 11 12	

TOYAMA Takeshi	PhD student
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Oral	Second International Conference on Multiscale Materials Modeling			
	Nano Cu precipitate in pressure vessel steel of nuclear power reactor studied by positron annihilation and 3D atom probe			
	USA	Los Angeles	2004 10 11 – 2004 10 15	

Nuclear Materials Science

SHIKAMA Tatsuo	Prof.
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Oral	2nd European Workshop on Optical Fiber Sensors			
	Optical fast neutron and gamma-ray detection system utilizing radioluminescence			
	Spain	Santander	2004 6 9 – 2004 6 11	

Invited	International Conference on Cybernetics and Information Technologies, Systems and Applications			
	Optical Radiation Detection Systems Utilizing Radioluminescence Materials and Optical Fibers			
	USA	Orlando	2004 7 21 – 2004 7 25	

Poster	20th IAEA Fusion Conference			
	Development of Optical Diagnostic System for Burning Plasma Machine			
	Poltogar	Vilamoura	2004 11 1 –	2004 11 6

Keynote	ISTC-Japan			
	Japanese Irradiation Technologies			
	Japan	Oarai	2004 11 17 –	2004 11 17

NAGATA Shinji Assoc. Prof.

Poster	14th International Conference on Ion-Beam Modification of Materials			
	Hydrogen uptake in noble gas implanted W			
	USA	Monterey	2004 9 5 –	2004 9 11

TSUCHIYA Bun Res. Assoc.

Poster	15th Int. Conf. on Defects in Insulating Materials			
	Optical Absorption of Yb-doped SrCeO ₃ by Electron Irradiation			
	Latvia	Liga	2004 7 11 –	2004 7 16

Poster	6th Int. Conf. on Excitonic Processes and Condensed Matter			
	Electron Induced Luminescence of SrCe _{0.95} Yb _{0.05} O _{3-d}			
	Poland	Kracow	2004 7 6 –	2004 7 9

Poster	14th Int. Conf. on Ion Beam Modification of Materials			
	Effects of Ion Beam Modification on Absorption and Transport of Hydrogen in Perovskite-Type Oxide Ceramics			
	USA	Monterey	2004 9 6 –	2004 9 10

Poster	16th Int. Conf. on Technology of Fusion Energy			
	Radiation Damage of Proton Conductive Ceramics Under 14 MeV Fast Neutron Irradiation			
	USA	Madison	2004 9 14 –	2004 9 16

TOH Kentaro Res. Assoc.

Poster	Second European Workshop on Optical Fiber Sensor			
	Heat-treatment effect of fused silica optical fiber for improvement of radiation-resistance			
	Spain	Santander	2004 6 9 –	2004 6 11

Symp. or Workshop	UCSB/IMR Joint Workshop			
	Development of optical materials for nuclear applications			
	Japan	Sendai	2004 9 7 –	

Nuclear Materials Engineering

MATSUI Hideki

Prof.

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| Oral | 2nd International Conference on Multiscale Materials Modeling
In situ Observation of Dislocation Interaction with Small Obstacles Virtually Invisible to Conventional TEM
USA | Los Angeles | 2004 10 11 – 2004 10 15 |
| Invited | 23rd Symposium on Fusion Technology
Present Status and Prospects for the IFMIF Project
Italy | Venice | 2004 9 20 – 2004 9 24 |
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Physics of Electronic Materials

YAO Takafumi

Prof.

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|---------|--|------------|-------------------------|
| Invited | International Workshop on ZnO
Heteroepitaxy of ZnO on various substrates
USA | Maui | 2004 5 16 – 2004 05 20 |
| Invited | 2004 Spring Meeting of European Materials Research Society
High-energy XPS studies of III-V nitrides
France | Strasbourg | 2004 5 23 – 2004 05 29 |
| Keynote | The 5th International Conference on Thin Film Physics and Applications
Nitrides and Oxides as new classes of semiconductors
China | Shanghang | 2004 5 30 – 2004 06 3 |
| Invited | Tohoku University-Cambridge University Forum
Oxides and Nitrides as New Classes of Semiconductors
UK | Cambridge | 2004 6 9 – 2004 06 13 |
| Invited | 2004 International Symposium on Crystal Growth and Devices
Control of Crystal polarity of ZnO and GaN by Interface Engineering
Korea | Seoul | 2004 11 11 – 2004 11 13 |
| Invited | 2004 Fall Meeting of Materials Research Society
Polarity Control of ZnO epilayers and their applications
USA | Boston | 2004 11 29 – 2004 12 03 |
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Oral	2004 International Symposium on Low-Dimensional Semiconductors and Devices Formation and evolution of strain-induced self-assembled dots Mexico Cancun 2004 12 12 – 2004 12 17
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Invited	2nd AFOSR International Workshop on InN XPS studies of the band structure of InN USA Kona 2005 1 9 – 2005 1 13
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CHO Meoung-Whan Assoc. Prof.

Poster	22nd North American Conference on Molecular Beam Epitaxy CrN buffer layer study for GaN growth using Molecular beam epitaxy Canada Banff 2004 10 10 – 2004 10 14
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HANADA Takashi Res. Assoc.

Oral	The Fifth International Conference on Low Dimensional Structures and Devices (LDSD2004) Formation and evolution of strain-induced self-assembled dots Mexico Cancun 2004 12 12 – 2004 12 17
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MAKINO Hisao Res. Assoc.

invited	International Symposium on Compound Semiconductors High-energy photoemission studies of transition metal ion doped III-V nitrides Korea Seoul 2004 9 12 – 2004 9 16
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BUCKMASTER Ryan PhD student

Poster	International Symposium on Compound Semiconductors Fabrication of Self-Assembled Nanodots at Arbitrary Locations by Spatially Controlled Implant Source Growth Korea Seoul 2004 9 12 – 2004 9 16
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Poster	The Fifth International Conference on Low Dimensional Structures and Devices GaN nanocrystal fabrication by implant source growth Mexico Cancun 2004 12 12 – 2004 12 17
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VASHAEI Zahra PhD student

Poster International Symposium on Compound Semiconductors
Structure Properties and Phase Evolution of $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ Layers Grown on
c-sapphire by P-MBE
Korea Seoul 2004 9 12 – 2004 9 16

LEE Wook-Hyun PhD student

Oral International Symposium on Compound Semiconductors
CrN buffer layer study for GaN growth using molecular beam epitaxy(MBE)
Korea Seoul 2004 9 12 – 2004 9 16

KIM Jung-Jin PhD student

Poster XIV International Conference on Vacuum Ultraviolet Radiation Physics
Electronic structure of the $\text{Ga}_{1-x}\text{Cr}_x\text{N}$ studied by high-energy photoemission
spectroscopy
Australia Cairns 2004 7 19 – 2004 7 23

Poster 22nd North American Conference on Molecular Beam Epitaxy
Structure and magnetic properties of Cr-doped GaN
Canada Banff 2004 10 10 – 2004 10 14

OH Dong-Cheol PhD student

poster The 3rd International Workshop on ZnO and Related Materials
Electrical characterization of Au/ZnO:N Schottky contacts and ZnO/GaN
heterostructures
Japan Sendai 2004 10 5 – 2004 10 8

Poster 22nd North American Conference on Molecular Beam Epitaxy
Electrical characterization of the heterostructure of ZnO/GaN grown by
molecular-beam epitaxy
Canada Banff 2004 10 10 – 2004 10 14

GOTO Hiroki

PhD student

Poster	International Symposium on Compound Semiconductors
	Growth and Characterization of HVPE GaN on Al ₂ O ₃ with CrN buffer
	Korea Seoul 2004 9 12 – 2004 9 16

MORI

PhD student

Poster	22nd North American Conference on Molecular Beam Epitaxy
	GaNA(001) surface phases under growing condition
	Canada Banff 2004 10 10 – 2004 10 14

BABA Takeshi

PhD student

Poster	International Symposium on Compound Semiconductors
	Observation of optical Fano resonance by measuring PL spectrum of ZnS : Mn/SiO ₂ 1D photonic crystal
	Korea Seoul 2004 9 12 – 2004 9 16

MINEGISHI Tsutomu

PhD student

Poster	The 3rd International Workshop on ZnO and Related Materials
	Correlation of the crystal structure of MgO buffer with the crystal polarity of ZnO overgrown layers
	Japan Sendai 2004 10 5 – 2004 10 8

Poster	22nd North American Conference on Molecular Beam Epitaxy
	Selective growth of Zn- and O-polar ZnO layers by plasma-assisted molecular beam epitaxy
	Canada Banff 2004 10 10 – 2004 10 14

SUZUKI Hideyuki

PhD student

Poster	International Symposium on Compound Semiconductors
	The effect of surface treatment on Zinc Oxide
	Korea Seoul 2004 9 12 – 2004 9 16

Chemical Physics of Non-Crystalline Materials

MATSUBARA Eiichiro Prof.

Invited	TMS 2005 Characteristic Local Structure of Bulk Metallic Glasses			
	USA	San Francisco	2005 2 13 –	2005 2 17

Kouichi Hayashi Assoc. Prof.

Oral	The 8th international Conference on Surface X-ray and Neutron Scattering X-ray waveguide phenomenon in organic thin films			
	Germany	Badhoffnes	2004 6 28 –	2004 7 2

Poster	4th International Conference on Synchrotron Radiation in Materials Science X-Ray Fluorescence Holography in Dilute System			
	France	Grenoble	2004 8 23 –	2004 8 25

Superstructured Thin Film Chemistry

KAWASAKI Masashi Prof.

Invited	Zinc Oxide Workshop Recent advances in ZnO epitaxy			
	USA	Hawaii	2004 5 17 –	2004 5 20

Invited	THE 3RD INTERNATIONAL CONFERENCE ON PHYSICS AND APPLICATIONS OF SPIN RELATED PHENOMENA IN SEMICONDUCTORS Ferromagnetic Oxide Semiconductors			
	USA	Santa Barbara	2004 7 21 –	2004 7 23

Invited	Agenda for the First UCSB/IMR Joint Workshop Oxide Electronics:A New Stone Age			
	Japan	Sendai	2004 9 7 –	2004 9 7

Invited	Japan-US Workshop on Combinatorial Material Science and Technology Spatial and temporal modulation of the temperature in thin film growth:a successful approach for realizing p-type ZnO			
	Japan	Okinawa	2004 12 8 –	2004 12 10

Invited	32nd Conference on the Physics and Chemistry of Semiconductor Interfaces(PCSI32) Current status and future challenges of oxide semiconductor technology			
	USA	Montana	2005 1 23 –	2005 1 27

Invited	Japan–USA Workshop on Combinatorial Materials Combinatorial Exploration of Oxide Semiconductors USA Dallas 2005 3 5 – 2005 3 7
Invited	International conference of the Creative Scientific Research program on “ Collaboratory on Electron Correlations –Toward a New Research Network between Physics and Chemistry–” Atomically Engineered Interface of Transition metal Oxides Japan Awaji 2005 3 11 – 2005 3 15

FUKUMURA Tomoteru Lecturer

Poster	The Third Japan–U.S. Workshop on Combinatorial Materials Science Multiply transition–metal–doped TiO ₂ epitaxial thin film library Japan Okinawa 2004 12 8 – 2004 12 10
Poster	International Symposium on Frontier in Materials Design, Synthesis and Measurements Room temperature ferromagnetic oxide semiconductor: Co–doped TiO ₂ Japan Awaji 2005 3 11 – 2005 3 15

OHTOMO Akira Res. Assoc.

Invited	2004 MRS Spring Meeting Combinatorial integrations of oxide field effect transistors USA San Francisco 2004 4 12 – 2004 4 16
Invited	Zinc Oxide Workshop ZnO field effect devices USA Wailea 2004 5 16 – 2004 5 20
Poster	The 3rd Japan–U.S. Workshop on Combinatorial Materials Science Combinatorial studies of field effect transistors based on wide–gap oxide semiconductors Japan Okinawa 2004 12 8 – 2004 12 10
Poster	International Symposium on Frontier in Materials Design, Synthesis and Measurements (Creative Scientific Research on Collaboratory on Electron Correlations ? Towards a New Research Network between Physics and Chemistry) Electronic structures in perovskite titanate heterointerfaces Japan Awaji 2005 3 11 – 2005 3 15
Invited	APS March Meeting 2005 Artificial charge–modulation in atomic–scale perovskite titanate superlattices USA Los Angeles 2005 3 21 – 2005 3 25

Oral	The 3rd International Workshop on ZnO and Related Materials A ZnO lateral superlattice: one dimensional grain boundary array in ZnO epitaxial layer	Japan	Sendai	2004 10 5 – 2004 10 8
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YAMADA Yasuhiro PhD student

Poster	The 3rd International Conference on Physics and Applications of Spin Related Phenomena in Semiconductors Bandgap engineered insulating $\text{Ti}_{1-x}\text{Zr}_x\text{O}_2$ epitaxial thin films	USA	Santa Barbara	2004 7 21 – 2004 7 23
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NISHII Junya PhD student

Poster	Japan-US Workshop on Combinatorial Material Science and Technology High-throughput Synthesis and Characterization of $\text{Mg}_{1-x}\text{Ca}_x\text{O}$ Film as a Lattice and Valence-matched Gate Dielectric for ZnO Based Field Effect Transistors	Japan	Okinawa	2004 12 8 – 2004 12 10
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Oral	32nd Conference on the Physics and Chemistry of Semiconductor Interfaces(PCSI32) ZnO field effect transistors	USA	Montana	2005 1 23 – 2005 1 27
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OHKUBO Atsushi PhD student

Poster	Japan-US Workshop on Combinatorial Material Science and Technology Optical Absorption Spectra of Interface Engineered $\text{SrTiO}_3/\text{LaAlO}_3$ Superlattices	Japan	Okinawa	2004 12 8 – 2004 12 10
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TSUKAZAKI Atsushi PhD student

Invited	Zinc Oxide Workshop Layer-by-layer growth of nitrogen doped ZnO single crystalline films	USA	Hawaii	2004 5 17 – 2004 5 20
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Oral	11th Workshop on Oxide electronics Electroluminescent from ZnO p-i-n homojunction	Japan	Hakone	2004 10 3 – 2004 10 5
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Oral	The 3rd International Workshop on ZnO and Related Materials A homostructural ZnO p-i-n light emitting diode	Japan	Sendai	2004 10 5 – 2004 10 8
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Poster	The 3rd International Workshop on ZnO and Related Materials High electron mobility in ZnO thin films	Japan	Sendai	2004 10 5 – 2004 10 8
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FUJII Takeshi PhD student

Poster	11th Workshop on Oxide electronics Pulsed-voltage induced resistance switching at SrRuO ₃ /Nb-doped SrTiO ₃ interface	Japan	Hakone	2004 10 3 – 2004 10 5
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SUZUKI Takao PhD student

Oral	The 3rd International Workshop on ZnO and Related Materials Single-crystalline ZnO field effect transistors: A high-mobility channel fabricated in lattice-matched ZnO/ScAlMgO ₄ heterointerface	Japan	Sendai	2004 10 5 – 2004 10 8
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Non-Equilibrium Materials

INOUE Akihisa Prof.

Invited	Tohoku University –Cambridge University Forum Developments of New Metallic Materials by Using the Stabilization of Supercooled Liquid	UK	Cambridge	2004 6 10 – 2004 6 13
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Oral	The 7th International Conference on Nanostructured Materials (NANO2004) Soft Magnetic Properties of Fe–M–B (M=Transition and Rare Earth Metals) Nanostructure Alloys and their Applications	Japan	Sendai	2004 6 22 – 2004 6 24
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Invited	The third Advanced Science Institute on New Frontiers of Functional Materials Stabilization of Supercooled Metallic Liquid and Bulk Glassy Alloys	Japan	Miyagizao	2004 7 26 – 2004 7 28
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Keynote	The Fifth Pacific Rim International Conference on Advanced Materials and Processing (PRICM5) Mechanical and Magnetic Properties of Fe- and Co-Based Bulk Glassy Alloys	China	Beijing	2004 11 5 – 2004 11 7
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Invited	49th Conference on Magnetism and Magnetic Materials (MMM2004) Nanocrystalline Fe–Pt–B Base Hard Magnets with High Coercive Force Obtained from Amorphous Precursor	USA	Florida	2004 11 8 – 2004 11 11
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Keynote	2004 International Symposium on Nano Science and Technology		
	Fabrication and Functional Characteristics of Fe- and Co-Based Bulk Glassy Alloys		
	Taiwan	Taiwan	2004 11 20 – 2004 11 23

TAKEUCHI Akira	Assoc. Prof.
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Invited	85th work shop on amorphous –nano materials 147 committee		
	Development of Metallic Glassy by Thermal Dynamics		
	Japan	Tokyo	2004 6 7 –

Oral	11th International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials (SMANAM 2004)		
	Development of Metallic Glasses by Semi-Empirical Calculation Method		
	Japan	Sendai	2004 8 21 – 2004 8 25

HASEGAWA Masashi	Assoc. Prof.
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Oral	11th International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials (SMANAM 2004)		
	Electronic structure of compounds related to Zr-Ni-Al glassy alloys		
	Japan	Sendai	2004 8 – 2004 8

LOUZGUINE Dmitri	Res. Assoc.
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Oral	The 1st Symposium on Advanced Metallic Materials, Posco Center, Seoul, Korea		
	Nanoscale icosahedral phase formation in Cu-Zr-Ti-NM (NM-noble metals) bulk glassy alloys		
	Korea	Seoul	2004 4 7 – 2004 4 8

Oral	11th International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials (SMANAM 2004)		
	Non-equilibrium arc-melted binary Ti-Fe bulk alloys with ultra-high strength and enhanced ductility		
	Japan	Sendai	2004 8 22 – 2004 8 26

KATO Hidemi	Res. Assoc.
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Poster	12th International Conference on Liquid and Amorphous Metals (LAM12)		
	Softening and heating behaviors during the nonlinear viscous flow and their influence on glassy phase of Zr-based bulk metallic glasses		
	France	Mets	2004 7 14 – 2004 7 16

Oral	11th International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials		
	Influence of Pd Content and Hydrostatic Pressure during Casting on Structure and Strength of Zr-Al-Ni-Cu-Pd rods		
	Japan	Sendai	2004 8 22 – 2004 8 26

Magnetic Materials

TAKANASHI Koki Prof.

Invited	The 3rd International Workshop on Surface, Interface, and Thin Film Physics		
	Spin dependent single electron tunneling in self-assembled magnetic nanoparticles		
	China	Shanghai	2004 5 27 – 2004 5 30

Invited	Tohoku-Cambridge Forum, Workshop I, Advances in Materials Science		
	Spin dependent single electron tunneling in self-assembled magnetic nanoparticles		
	UK	Cambridge	2004 6 11 –

Invited	ECI "L ₁ Ordered Intermetallic and Related Phases for Permanent Magnet and Recording Applications"		
	Nanostructure and high coercivity in sputtered FePt thin films		
	USA	Copper	2004 8 15 – 2004 8 20

Invited	Joint European Magnetic Symposia		
	Nanostructure and magnetic properties in highly coercive FePt films		
	Germany	Dresden	2004 9 5 – 2004 9 10

Invited	The Magnetism Society of Japan, The First Asia Forum "Ordered Magnetic Alloys"		
	Nanostructure and magnetic properties in highly coercive FePt films		
	Japan	Okinawa	2004 9 22 –

MITANI Seiji Assoc. Prof.

Invited	7th Oxford-Kobe Materials Seminar: Spintronic Materials and Technology		
	Spin dependent single electron tunneling and spin accumulation in self-assembled nanoparticles		
	Japan	Kobe	2004 9 1 – 2004 9 4

Res. Assoc.

HIMA Toshiyuki Res. Assoc.

Oral	18th International Workshop on High Performance Magnets and their Applications		
	Achievement of high coercivity for FePt particulate films magnetized at low applied field		
	France	Annevy	2004 8 30 – 2004 9 2

Res. Assoc.

Crystal Chemistry

Prof.

Oral	International Conference on Crystal Growth XIV	
	The effect of an external electric field on the growth of incongruent-melting material	
	France	Grenoble 2004 8 9 – 2004 8 13

HUANG Xinming

Assoc. Prof.

Invited	The 14th inter. conf. Cryst. Growth Heavily Doped Silicon Crystals: Neck-less Growth and Robust Wafers	France	Grenoble	2004 8 9 – 2004 8 13
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Poster	The 14th inter. conf. Cryst. Growth Robust Si wafer	France	Grenoble	2004 8 9 – 2004 8 13
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KOU Shinji

Res. Assoc.

Poster	1st IEEE International Conference on Group IV Photonics Fabrication of p-i-n Si _{0.5} Ge _{0.5} photodetectors on SiGe-on-Insulator Substrates	Hong Kong	Hong Kong	2004 9 29 – 2004 10 1
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Oral	International Conference on Crystal Growth XIV Growth of Functional Structures on SiGe-on-Insulator Substrate with high Ge Content	France	Grenoble	2004 8 9 – 2004 8 13
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Poster	Third International Workshop on New Group IV Semiconductors Fabrication of p-i-n SiGe photodetectors on SiGe-on-Insulator Substrates	Japan	Sendai	2004 10 12 – 2004 10 13
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TSUNEKAWA Shin

Res. Assoc.

Poster	Rare Earths '04 Nano-Science of Cerium Oxides from the Experiments and First-Principles Calculations	Japan	Nara	2004 11 7 – 2004 11 12
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High-Temperature Materials Science

ORIMO Shin-ichi

Assoc. Prof.

Invited	International Union of Pure and Applied Physics, Workshop on Energy Hydrogen Storage for Energy Applications	Japan	Ueno	2004 5 13 –
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Oral	15th World Hydrogen Energy Conference (WHEC) Materials Designing of Li-based Complex Hydrides for Hydrogen Storage	Japan	Yokohama	2004 6 27 – 2004 7 2
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Oral	2004 International Energy Agency, Task 17–Semiannual Workshop Development of nanostructured Li-based composite hydrides Norway Oeystese 2004 7 6 – 2004 7 9
Poster	11th International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials Structural and hydriding properties of the Mg–Ni–H system with nano-and/or amorphous structures Japan Sendai 2004 8 22 – 2004 8 26
Poster	The International Symposium on Metal Hydrogen Systems, Fundamentals and Applications–MH2004 Dehydriding and rehydriding reactions of LiBH_4 Poland Cracow 2004 9 5 – 2004 9 10
Invited	ASM–International Conference, Materials Challenges for Hydrogen Storage Advanced hydrogen storage properties of Li-based complex hydrides USA Columbus 2004 10 18 – 2004 10 20
Invited	The Fifth Pacific Rim International Conference on Advanced Materials and Processing Lithium-based Complex Hydrides for Solid-State Hydrogen Storage China Beijing 2004 11 2 – 2004 11 5

NAKAMORI Yuko Res. Assoc.

Oral	The International Symposium on Metal Hydrogen Systems, Fundamentals and Applications–MH2004 Hydrogen storage properties of Li–Mg–N systems Poland Cracow 2004 9 5 – 2004 9 10
Poster	The International Symposium on Metal Hydrogen Systems, Fundamentals and Applications–MH2004 First principles study on lithium borohydride LiBH_4 Poland Cracow 2004 9 5 – 2004 9 10
Keynote	ASM Materials Solutions Conference, 13th International Symposium on Processing and Fabrication of Advanced Materials Complex Hydrides for Solid-State Hydrogen Storage Singapore Singapore 2004 12 6 – 2004 12 8
Oral	2004 International Energy Agency, Task 17–Semiannual Workshop, Development of nanostructured Li-based composite hydrides Solid and Liquid State Hydrogen Storage Materials USA Hiltonhead 2005 2 13 – 2005 2 17

Multi-Functional Materials Science

GOTO Takashi

Prof.

Keynote	The 2nd International Conference on Technological Advances of Thin Films & Surface Coatings (Thin Films 2004) Thermal barrier coatings deposited by laser CVD Singapore Singapore 2004 7 13 – 2004 7 17
Invited	International Symposium in Honor of Professor Katsutoshi Komeya ; Synthesis, Processing and Applications of Advanced Ceramics High-speed oxide coatings by laser CVD for engineering applications Japan Kobuchizawa 2004 9 5 – 2004 9 7
Invited	Fifth International Conference on High Temperature Ceramic Matrix Composites (HTCMC-5) Preparation of YSZ coatings by laser CVD at extremely high deposition rate USA Seattle 2004 9 12 – 2004 9 16
Invited	EnCera 04 (The 3rd International Symposium on the Science of Engineering Ceramics) Laser chemical vapor deposition for thick oxide coatings Japan Osaka 2004 10 31 – 2004 11 3
Invited	The 5th Pacific Rim International Conference on Advanced Materials and Processing (PRICM-5) Laser CVD process for high speed deposition of YSZ films China Beijing 2004 11 2 – 2004 11 5
Invited	Second Japan-Australia Workshop on Advanced Materials Application of laser CVD for thermal barrier coatings Australia Sydney 2004 12 5 – 2004 12 7
Invited	International Symposium for Interface Oral Health Science Surface coating technology for biomaterials: Morphology and nano-structure control Japan Sendai 2005 2 2 – 2005 2 3

TU Rong

Res. Assoc.

Oral	The 5th Pacific Rim International Conference on Advanced Materials and Processing (PRICM-5) Preparation of rutile and anatase TiO ₂ films by MOCVD China Beijing 2004 11 2 – 2004 11 5
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KIMURA Teiichi

Res. Assoc.

Oral	The 2nd International Conference on Technological Advances of Thin Films & Surface Coatings (Thin Films 2004) Ir-YSZ Nano-composite Electrodes for Oxygen Sensors Singapore Singapore 2004 7 13 – 2004 7 17
Oral	The 2nd International Conference on Technological Advances of Thin Films & Surface Coatings (Thin Films 2004) Thermal Conductivities of Ytria-stabilized Zirconia Films Measured by a Laser-heating Singapore Singapore 2004 7 13 – 2004 7 17
Oral	11th International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials Preparation of noble metal (Ru, Ir)-carbon nano-composites by MOCVD as catalytic electrode for oxygen sensors Japan Sendai 2004 8 22 – 2004 8 26
Poster	2nd International Workshop for Advanced Ceramics Nano-structures of YSZ films prepared by laser chemical vapor deposition Japan Nagahama 2004 11 5 – 2004 11 6
Oral	The 43rd Symposium on Basic Science of Ceramics, World Young Ceramist Meeting Preparation of Y_2O_3 films by laser chemical vapor deposition Japan Chiba 2005 1 20 – 2005 1 21

LI Wen jun

Post Doctoral Researcher

Oral	The 43rd Symposium on Basic Science of Ceramics, World Young Ceramist Meeting Preparation of TiC-TiB ₂ -SiC system composites by melt-solidification process Japan Chiba 2005 1 20 – 2005 1 21
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ITO Akihiko

PhD student

Oral	The 5th Pacific Rim International Conference on Advanced Materials and Processing (PRICM-5) Electrical conductivity of SrRuO ₃ thin films prepared by laser ablation China Beijing 2004 11 2 – 2004 11 5
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Deformation Processing

HANADA Shuji

Prof.

Oral	ASM Material & Processes for Medical Devices Conference Development of Beta Titanium Alloys with Low Young's Modulus USA St.Paul 2004 8 25 – 2004 8 27
Oral	SMST-Europe2004 Elastic deformation behavior of Ti-Nb-Sn thin wires and sheets Germany Baden-Baden 2004 10 3 – 2004 10 7
Oral	PM2004 Mechanical properties of porous titanium compacts synthesized by powder sintering Austria Vienna 2004 11 17 – 2004 11 21
Poster	AUSTCERAM2004 Fabrication of pure Al/Mg-Li alloy clad plate and its mechanical properties Australia Melbourne 2004 11 29 – 2004 12 1

MASAHASHI Naoya

Assoc. Prof.

Invited	International Conference on New Frontiers of Process Science and Engineering in Advanced Materials Fabrications and Corrosion resistance of Iron-Aluminum Alloy/High Carbon Steel Composites prepared by Clad Rolling Japan Kyoto 2004 11 24 – 2004 11 26
Invited	The 13th International Symposium on Processing and Fabrication of Advanced Material on ASM Material's Solution Conference Fracture Behavior and Microstructural Changes of Niobium by Hydrogenation Singapore Singapore 2004 11 29 – 2004 12 3

Radiochemistry of Metals

SHIOKAWA Yoshinobu

Prof.

Oral	34iems Journees des Actinides Uranium Redox Flow Battery Germany Heidelberg 2004 4 17 – 2004 4 20
Oral	5th International Conference on f-elements Preparation of Electropositive metals by Hydrometallurgy Slovakia Herlany 2004 5 25 – 2004 5 28

Invited	International Conference Rare Earths '04 in Nara Uranium Redox Flow Battery	Japan	Nara	2004 11 7 – 2004 11 12
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YAMAMURA Tomoo Res. Assoc.

Oral	The first COE-INS international symposium, INES-1 "Innovative nuclear energy systems for sustainable development of the world" An extreme disposition method for radioactive organic wastes in nuclear power plants using supercritical water with RuO ₂ catalyst	Japan	Tokyo	2004 10 31 – 2004 11 4
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Poster	International Conference Rare Earth in Nara Crystal Structure and Magnetic States of U ₂ TSi ₃ (T=Fe,Pt,Ir)	Japan	Nara	2004 11 7 – 2004 11 12
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HOMMA Yoshiya Res. Assoc.

Poster	International Conference of Strong Correlated System (SCES2004) Magnetic Ordering in Ternary Germanide Nd ₂ CuGe ₈	Germany	Karlsruhe	2004 7 26 – 2004 7 30
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LI Dexin Res. Assoc.

Poster	International Conference on Strongly Correlated Electron Systems Specific Heat and AC Susceptibility of UAl ₂	Germany	Karlsruhe	2004 7 26 – 2004 7 30
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Poster	International Conference on Rare Earths'04 in Nara, Japan Microscopic Magnetism of NpFeGa ₅	Japan	Nara	2004 11 7 – 2004 11 12
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A.V.Andreev Visiting Prof.

Invited	Workshop on the New Phenomena in the Exotic Electron Systems Magnetism and magnetoelasticity of uranium intermetallics	Japan	Fukuoka	2004 11 5 – 2004
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Poster	International Conference Rare Earth in Nara Influence of Isoelectronic Substitutions on Magnetism of UCoAl	Japan	Nara	2004 11 7 – 2004 11 12
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Poster	International Conference Rare Earth in Nara Magnetostriction Study of $U_{0.8}Lu_{0.2}Fe_2$ Single Crystal	Japan	Nara	2004 11 7 – 2004 11 12
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SIROZAKI Kenji PhD student

Poster	International Conference Rare Earth in Nara Preparation of Active Materials of Uranium Redox Flow Battery at Discharged and Charged States	Japan	Nara	2004 11 7 – 2004 11 12
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Analytical Science

WAGATSUMA Kazuaki Prof.

Oral	ASIANALYSIS VII Sampling modulation technique in radio-frequency powered glow discharge emission source by pulsed laser ablation	Hong Kong	Hong Kong	2004 7 27 – 2004 7 31
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Oral	The 31st Annual Conference of the Federation of Analytical Chemistry and Spectroscopy Societies Study on applications of dc voltage modulation technique in GD-OES for a thin film analysis	USA	Portland	2004 10 6 – 2004 10 10
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Invited	The 12th Symposium on Laser Spectroscopy Laser-ablation sampling technique in helium radio-frequency glow discharge optical emission spectrometry	Korea	Daejeon	2004 11 4 – 2004 11 5
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Invited	The 10th International Symposium on Advanced Analytical Techniques and Applications Emission characteristics of helium radio-frequency glow discharge plasma associated with Nd:YAG laser irradiation	Korea	Daejeon	2004 11 6 – 2004 11 8
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Oral	European Winter Conference on Plasma Spectrochemistry: Development of helium radio-frequency glow discharge plasma source associated with laser ablation sampling	Hungary	Budapest	2005 1 30 – 2005 2 3
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TAKADA Kunio

Lecturer

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| Oral | 11-th International Conference on Ultra-High Purity Base Metals, UHPM-2004
Effect of removal of major component of determination of ultra-trace elements in high-purity iron and iron-based alloy
USA Gaithersburg 2004 12 6 – 2004 12 9 |
| Oral | 11-th International Conference on Ultra-High Purity Base Metals, UHPM-2004
Trace analysis of ultra-high purity iron ---- Results of RRT on Fe-C, Fe-S and Fe-O alloys
USA Gaithersburg 2004 12 6 – 2004 12 9 |
| Oral | 11-th International Conference on Ultra-High Purity Base Metals, UHPM-2004
Determination of ultra-trace amount of sulfur in ultrahigh-purity iron by high-resolution ICP-MS with sulfide solution
USA Gaithersburg 2004 12 6 – 2004 12 9 |
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MATSUTA Hideyuki

Res. Assoc.

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| Oral | Asian International Symposium on Instrumental Analysis of Various Materials
Emission Intensity Modulation of radio frequency helium glow-discharge emission sources by laser ablation
Japan Sendai 2004 7 23 – 2004 7 25 |
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PARK Hyun Kook

Res. Assoc.

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| Poster | 32nd The Federation of Analytical Chemistry and Spectroscopy Societies
Study on applications of dc voltage modulation technique for a thin film analysis
USA Portland 2004 10 3 – 2004 10 10 |
| Poster | The 10th International Symposium on Advanced Analytical Techniques and Applications
Study on a dc voltage modulation technique in glow discharge optical emission spectrometry(GD-OES) for a thin film analysis
Korea Daejeon 2004 11 5 – 2004 11 8 |
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ASHINO Tetsuya

Res. Assoc.

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| Oral | Asian International Symposium on Instrumental Analysis of Various Materials, AISIA
Determination of Ultra Trace Selenium, Tellurium, Gold and Silver in Several Metal Samples by Electrothermal Atomic Absorption Spectrometry after Reductive Co-precipitation with Palladium
Japan Sendai 2004 7 23 – 2004 7 25 |
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Oral International Conference on Ultra High Purity Metallic Base Metals, UHPM-2004
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