

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Masakazu Aono
<b>Affiliation</b>	National Institute for Materials Science
<b>Title of the Accomplishment</b>	Studies of the Structure and Electronic State of Solid Surfaces and the Creation and Property Measurement of Nanostructures
<b>Fellow Recipients</b>	Yoshinobu Aoyagi
<b>Affiliation</b>	Tokyo Institute of Technology
<b>Title of the Accomplishment</b>	Study on Nano Material Processing Using Beam and Crystal Growth Technology
<b>Fellow Recipients</b>	Shojiro Asai
<b>Affiliation</b>	Rigaku Corporation
<b>Title of the Accomplishment</b>	Pioneering Research and Development in Semiconductor Devices and Processes
<b>Fellow Recipients</b>	Makoto Azuma
<b>Affiliation</b>	Toshiba Corporation
<b>Title of the Accomplishment</b>	Development of High Power Gate Turn-Off (GTO) Thyristors
<b>Fellow Recipients</b>	Yasuhiko Arakawa
<b>Affiliation</b>	The University of Tokyo
<b>Title of the Accomplishment</b>	Pioneering Work on Concept and Realization of Quantum Dot Photonic Devices
<b>Fellow Recipients</b>	Sumio Iijima
<b>Affiliation</b>	Meijo University / National Institute of Advanced Industrial Science and Technology (AIST)
<b>Title of the Accomplishment</b>	Development of High Resolution Electron Microscopy and Discovery of Carbon Nanotubes
<b>Fellow Recipients</b>	Kenichi Iga
<b>Affiliation</b>	Japan Society for the Promotion of Science
<b>Title of the Accomplishment</b>	Pioneering Research on Parallel Microoptics Mainly Based on Surface Emitting Lasers

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Tatsuo Izawa
<b>Affiliation</b>	NTT Electronics Corporation
<b>Title of the Accomplishment</b>	Development of Optical Fibers and Planar Lightwave Circuits for Telecommunication

<b>Fellow Recipients</b>	Yukihiro Ishii
<b>Affiliation</b>	Tokyo University of Science
<b>Title of the Accomplishment</b>	Research on Frequency-Controlled Laser-Diode Interferometry and Holographic Optical Information Processing

<b>Fellow Recipients</b>	Junzo Ishikawa
<b>Affiliation</b>	Kyoto University
<b>Title of the Accomplishment</b>	Study on Ion Beam Application and Vacuum Nanoelectronics

<b>Fellow Recipients</b>	Masakazu Ichikawa
<b>Affiliation</b>	The University of Tokyo
<b>Title of the Accomplishment</b>	Development of Surface Microscopy and Its Application to Semiconductor Nanotechnology

<b>Fellow Recipients</b>	Hiroshi Iwai
<b>Affiliation</b>	Tokyo Institute of Technology
<b>Title of the Accomplishment</b>	Contribution to the Miniaturization of Si Integrated Circuit Devices

<b>Fellow Recipients</b>	Koichi Iwata
<b>Affiliation</b>	Technology Research Institute of Osaka Prefecture
<b>Title of the Accomplishment</b>	Researches on Mechanical and Nondestructive Measurements by Optical Means

<b>Fellow Recipients</b>	Osamu Ueda
<b>Affiliation</b>	Kanazawa Institute of Technology
<b>Title of the Accomplishment</b>	Study on the Investigation of Degradation Mechanisms in III-V Compound Semiconductor Optical Devices

<b>Fellow Recipients</b>	Kenichi Ueda
<b>Affiliation</b>	The University of Electro-Communications
<b>Title of the Accomplishment</b>	Development of High Power Ceramic Laser and Fiber Laser

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Masayoshi Esashi
<b>Affiliation</b>	Tohoku University
<b>Title of the Accomplishment</b>	Study of Micro Electro Mechanical Systems Based on Semiconductor Microfabrication

<b>Fellow Recipients</b>	Motoichi Ohtsu
<b>Affiliation</b>	The University of Tokyo
<b>Title of the Accomplishment</b>	Pioneering Research on Nanophotonics

<b>Fellow Recipients</b>	Iwao Ohdomari
<b>Affiliation</b>	Waseda University
<b>Title of the Accomplishment</b>	Studies on Single Ion Implantation and Control of Semiconductor Surfaces and Interfaces

<b>Fellow Recipients</b>	Hideo Ohno
<b>Affiliation</b>	Tohoku University
<b>Title of the Accomplishment</b>	Semiconductor and Related Spintronics

<b>Fellow Recipients</b>	Tsugunori Okumura
<b>Affiliation</b>	Tokyo Metropolitan University
<b>Title of the Accomplishment</b>	Development of Electrical Characterization Techniques for Point Defects and Interfacial Imperfections in Semiconductors

<b>Fellow Recipients</b>	Mototsugu Ogura
<b>Affiliation</b>	Matsushita Electric
<b>Title of the Accomplishment</b>	Research and Development and Industrial Application of Advanced Semiconductor Process Technology

<b>Fellow Recipients</b>	Shunri Oda
<b>Affiliation</b>	Tokyo Institute of Technology
<b>Title of the Accomplishment</b>	Silicon Nanocrystal Devices

<b>Fellow Recipients</b>	Minoru Obara
<b>Affiliation</b>	Keio University
<b>Title of the Accomplishment</b>	Development of High-Power Lasers and Their Applications

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Akinobu Kasami
<b>Affiliation</b>	Toshiba Corporation
<b>Title of the Accomplishment</b>	The Development of III-Phosphide Visible LED's and Red Visible Laser Diodes

<b>Fellow Recipients</b>	Yoshifumi Katayama
<b>Affiliation</b>	University of Tsukuba
<b>Title of the Accomplishment</b>	Fundamental Study of Semiconductor Heterostructures; Fabrication, Structural and Electronic Properties and Device Application

<b>Fellow Recipients</b>	Chioko Kaneta
<b>Affiliation</b>	Fujitsu Laboratories Ltd.
<b>Title of the Accomplishment</b>	Expansion and Propagation of Atomic Scale Simulation in Applied Science

<b>Fellow Recipients</b>	Takeshi Kamiya
<b>Affiliation</b>	National Institute of Information and Communications Technology
<b>Title of the Accomplishment</b>	Studies on Semiconductor Optical and Quantum Electronics

<b>Fellow Recipients</b>	Masao Kawachi
<b>Affiliation</b>	NTT Electronics Corporation
<b>Title of the Accomplishment</b>	Pioneering Research and Development of Planar Lightwave Circuits and Related Devices

<b>Fellow Recipients</b>	Satoshi Kawata
<b>Affiliation</b>	Osaka University / Riken
<b>Title of the Accomplishment</b>	Near-Field Nano-Photonics

<b>Fellow Recipients</b>	Takashi Kurokawa
<b>Affiliation</b>	Tokyo University of Agriculture and Technology
<b>Title of the Accomplishment</b>	Optical Functional Devices and Their Applications

<b>Fellow Recipients</b>	Yukinori Kuroki
<b>Affiliation</b>	Kyushu University
<b>Title of the Accomplishment</b>	Study on Non-Volatile Semiconductor Memories and Development of LSI Manufacturing Technologies

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Kazuo Kuroda
<b>Affiliation</b>	The University of Tokyo
<b>Title of the Accomplishment</b>	Contribution to the Research on Nonlinear Optics, Photorefractive Materials, and Their Applications
<b>Fellow Recipients</b>	Takanori Koshikawa
<b>Affiliation</b>	Osaka Electro-Communication University
<b>Title of the Accomplishment</b>	Solid Surface Investigation by Using Low Energy and Photo-Emission Electron Microscopy
<b>Fellow Recipients</b>	Nobuyoshi Koshida
<b>Affiliation</b>	Tokyo University of Agriculture and Technology
<b>Title of the Accomplishment</b>	Study on Optoelectronic Functions and Device Applications of Quantum-Sized Silicon
<b>Fellow Recipients</b>	Kohroh Kobayashi
<b>Affiliation</b>	Tokyo Institute of Technology
<b>Title of the Accomplishment</b>	Research and Development and Commercialization of Semiconductor Lasers for High-Capacity Optical Communications
<b>Fellow Recipients</b>	Masanori Komuro
<b>Affiliation</b>	NEDO
<b>Title of the Accomplishment</b>	Research on Micro-Fabrication Technology Using Charged Particles and Its Application to Electron Devices
<b>Fellow Recipients</b>	Mitsumasa Koyanagi
<b>Affiliation</b>	Tohoku University
<b>Title of the Accomplishment</b>	Study of High Density, High Performance Three-Dimensional Semiconductor Memories and Nano-Scale Devices
<b>Fellow Recipients</b>	Shigeaki Zaima
<b>Affiliation</b>	Nagoya University
<b>Title of the Accomplishment</b>	Scientific Study on Silicon ULSI Processes

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Takatomo Sasaki
<b>Affiliation</b>	Osaka University
<b>Title of the Accomplishment</b>	Development of New Functional Crystals and Its Industrial Application
<b>Fellow Recipients</b>	Katsuaki Sato
<b>Affiliation</b>	Tokyo University of Agriculture and Technology
<b>Title of the Accomplishment</b>	Crystals Science and Technology of Ternary and Multinary Compounds and Pioneering Works in the Spintronics Field
<b>Fellow Recipients</b>	Nobuhiko Sawaki
<b>Affiliation</b>	Nagoya University
<b>Title of the Accomplishment</b>	Study of Electro-Optical Properties in Compound Semiconductor Heterostructures
<b>Fellow Recipients</b>	Yasuhiro Shiraki
<b>Affiliation</b>	Tokyo City University
<b>Title of the Accomplishment</b>	Basic and Application Study of Molecular Beam Epitaxy (MBE) Technology
<b>Fellow Recipients</b>	Hideo Sugai
<b>Affiliation</b>	Chubu University
<b>Title of the Accomplishment</b>	Gas Phase/Surface Processes in Reactive Plasma and Development of Novel Plasma Source
<b>Fellow Recipients</b>	Hideo Sunami
<b>Affiliation</b>	Emeritus Professor of Hiroshima University
<b>Title of the Accomplishment</b>	Contributions in the Invention of the Trench Capacitor DRAM Cell and the Development of Integrated Circuit Technologies
<b>Fellow Recipients</b>	Kunio Takayanagi
<b>Affiliation</b>	Tokyo Institute of Technology
<b>Title of the Accomplishment</b>	Pioneering Development of UHV-Electron Microscopy for Studies of Surfaces and Nano-Materials Phases

# 1st JSAP Fellow (2007)



<b>Fellow Recipients</b>	Hideo Takezoe
<b>Affiliation</b>	Tokyo Institute of Technology
<b>Title of the Accomplishment</b>	Studies on Science and Application of Liquid Crystal Physics

<b>Fellow Recipients</b>	Eiji Takeda
<b>Affiliation</b>	Hitachi, Ltd.
<b>Title of the Accomplishment</b>	Innovation on the Scaled VLSI Devices and Its' Application to Industries

<b>Fellow Recipients</b>	Mitsuo Takeda
<b>Affiliation</b>	The University of Electro-Communications
<b>Title of the Accomplishment</b>	Invention of the Fourier Transform Method for Fringe Analysis and Its Application to Optical Metrology

<b>Fellow Recipients</b>	Michio Tajima
<b>Affiliation</b>	Japan Aerospace Exploration Agency
<b>Title of the Accomplishment</b>	Innovation and Standardization of Optical Crystal Characterization Techniques

<b>Fellow Recipients</b>	Kunihide Tachibana
<b>Affiliation</b>	Kyoto University
<b>Title of the Accomplishment</b>	Spectroscopic Diagnostics of Reactive Plasmas and Development of New Field of Microplasmas

<b>Fellow Recipients</b>	Kazunobu Tanaka
<b>Affiliation</b>	Japan Science and Technology Agency
<b>Title of the Accomplishment</b>	Materials Science of Amorphous and Nano-Crystalline Semiconductors

<b>Fellow Recipients</b>	Kenji Taniguchi
<b>Affiliation</b>	Osaka University
<b>Title of the Accomplishment</b>	Contributions to the Development of MOS-IC Process and Device Technologies

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Sakae Tanemura
<b>Affiliation</b>	Japan Fine Ceramics Centre
<b>Title of the Accomplishment</b>	R&D on Ceramics Thin Films and Nano-Structured Ceramics, and Their Industrial Applications

<b>Fellow Recipients</b>	Yoshinori Chikaura
<b>Affiliation</b>	Kyushu Institute of Technology
<b>Title of the Accomplishment</b>	Instrumental Research on Synchrotron X-Radiation Imaging for Functional Materials

<b>Fellow Recipients</b>	Naoki Chinone
<b>Affiliation</b>	Aichi University of Technology
<b>Title of the Accomplishment</b>	Advanced Research and Commercialization of Semiconductor Lasers

<b>Fellow Recipients</b>	Tetsuo Tsutsui
<b>Affiliation</b>	Kyushu University
<b>Title of the Accomplishment</b>	Research and Development in Organic Electroluminescent Materials and Devices

<b>Fellow Recipients</b>	Yoshikazu Toyama
<b>Affiliation</b>	Japan Women's University
<b>Title of the Accomplishment</b>	Research and Development of Semiconductor Devices for Communication Use and Contribution to Promoting Equal Participation of Men and Women in Science and Engineering

<b>Fellow Recipients</b>	Akira Tonomura
<b>Affiliation</b>	Hitachi, Ltd.
<b>Title of the Accomplishment</b>	Investigation of Local Electromagnetic Characteristics of Advanced Materials by Electron Phase Microscopy

<b>Fellow Recipients</b>	Hisao Nakashima
<b>Affiliation</b>	Osaka University
<b>Title of the Accomplishment</b>	Study of Semiconductor Crystal Growth, Physics, Processes and Devices



# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Tatau Nishinaga
<b>Affiliation</b>	Toyohashi University of Technology
<b>Title of the Accomplishment</b>	Studies of Crystal Growth Mechanism and Development of Dislocation Free Growth Technology

<b>Fellow Recipients</b>	Susumu Noda
<b>Affiliation</b>	Kyoto University
<b>Title of the Accomplishment</b>	Pioneering Works on Photonic Crystals

<b>Fellow Recipients</b>	Hideki Hasegawa
<b>Affiliation</b>	Professor Emeritus of Hokkaido University
<b>Title of the Accomplishment</b>	Control of Surfaces and Interfaces of Compound Semiconductors and Its Device Application

<b>Fellow Recipients</b>	Masataka Hirose
<b>Affiliation</b>	National Institute of Advanced Industrial Science and Technology
<b>Title of the Accomplishment</b>	Pioneering Work on Semiconductor Materials/Processes and Development of Integrated Device Technology

<b>Fellow Recipients</b>	Takashi Fukui
<b>Affiliation</b>	Hokkaido University
<b>Title of the Accomplishment</b>	Study on Semiconductor Quantum Nanostructures by Metalorganic Vapor Phase Epitaxy

<b>Fellow Recipients</b>	Yasuhiro Horiike
<b>Affiliation</b>	National Institute for Materials Science
<b>Title of the Accomplishment</b>	Study on Development of Advanced Fabrication Technology and Its Application to New Functional Devices

<b>Fellow Recipients</b>	Yoshiji Horikoshi
<b>Affiliation</b>	Waseda University
<b>Title of the Accomplishment</b>	Development of New Epitaxial Growth Methods for High Quality Semiconductor Thin Films

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Toshiaki Makabe
<b>Affiliation</b>	Keio University
<b>Title of the Accomplishment</b>	Pioneering Contributions to Modeling and Design of Low Temperature Plasma Processes

<b>Fellow Recipients</b>	Junji Matsui
<b>Affiliation</b>	Hyogo Science and Technology Association
<b>Title of the Accomplishment</b>	Research of Highly Precise Crystal Characterization Technology by X-Ray and Synchrotron Radiation

<b>Fellow Recipients</b>	Hiroyuki Matsunami
<b>Affiliation</b>	Japan Science and Technology Agency
<b>Title of the Accomplishment</b>	Pioneering Research on Precise Control of Physical Properties of Semiconductor SiC and Its Application to Power Devices

<b>Fellow Recipients</b>	Koichi Mizushima
<b>Affiliation</b>	Toshiba Research Consulting Corporation
<b>Title of the Accomplishment</b>	Research and Development of Transition Metal Oxides

<b>Fellow Recipients</b>	Takashi Mimura
<b>Affiliation</b>	Fujitsu Laboratories Ltd.
<b>Title of the Accomplishment</b>	Invention and Demonstration of the High Electron Mobility Transistor (HEMT)

<b>Fellow Recipients</b>	Masanobu Miyao
<b>Affiliation</b>	Kyushu University
<b>Title of the Accomplishment</b>	Pioneering Research of Si-Based Heterostructure Technologies for Novel Devices

<b>Fellow Recipients</b>	Terunobu Miyazaki
<b>Affiliation</b>	Tohoku University
<b>Title of the Accomplishment</b>	Finding a Large Tunnel Magnetoresistance Effect at Room Temperature and Its Application for Spin-Electronics

# 1st ISAP Fellow (2007)



<b>Fellow Recipients</b>	Mamoru Mohri
<b>Affiliation</b>	Japan Science and Technology Agency
<b>Title of the Accomplishment</b>	As a Scientist and Astronaut, for Increasing Public and Educational Awareness of Space Utilization

<b>Fellow Recipients</b>	Seizo Morita
<b>Affiliation</b>	Osaka University
<b>Title of the Accomplishment</b>	Chemical Identification, Atom Manipulation and Assembly of Nanostructure from Multi Atom Species by Using Atomic Force Microscopy

<b>Fellow Recipients</b>	Yukio Yasuda
<b>Affiliation</b>	Kochi University of Technology
<b>Title of the Accomplishment</b>	Research of Thin Films and Solid State Surfaces and Interfaces for Semiconductor Integrated Circuits

<b>Fellow Recipients</b>	Toyohiko Yatagai
<b>Affiliation</b>	Utsunomiya University
<b>Title of the Accomplishment</b>	Optical Measurement, Optical Information Processing, Biological Imaging and Related Researches in Applied Optics

<b>Fellow Recipients</b>	Minoru Yamada
<b>Affiliation</b>	Kanazawa University
<b>Title of the Accomplishment</b>	Research on Establishment of Operating Theory and Improvement of Operating Characteristics in Semiconductor Lasers

<b>Fellow Recipients</b>	Yoshihisa Yamamoto
<b>Affiliation</b>	National Institute of Informatics / Stanford University
<b>Title of the Accomplishment</b>	Research on Quantum Optics and Quantum Information Science

<b>Fellow Recipients</b>	Naoki Yokoyama
<b>Affiliation</b>	Fujitsu Laboratories Ltd.
<b>Title of the Accomplishment</b>	Contributions to the Development of Compound Semiconductor Devices and Leadership in Nanotechnology R&D

# 1st JSAP Fellow (2007)



<b>Fellow Recipients</b>	Jiro Yoshida
<b>Affiliation</b>	Toshiba Corporation
<b>Title of the Accomplishment</b>	Studies on Current Transport Mechanism in High Temperature Superconductor Josephson Junctions and Their Applications

<b>Fellow Recipients</b>	Roy Lang
<b>Affiliation</b>	Tokyo University of Agriculture and Technology
<b>Title of the Accomplishment</b>	Research on Device Physics for Semiconductor Lasers and Their Applications

<b>Fellow Recipients</b>	Hisatsune Watanabe
<b>Affiliation</b>	Semiconductor Leading Edge Technologies, Inc.
<b>Title of the Accomplishment</b>	Research and Development of Advanced Semiconductor Materials and Devices

<b>Fellow Recipients</b>	Miyoko O. Watanabe
<b>Affiliation</b>	Toshiba Corporation
<b>Title of the Accomplishment</b>	Research on Surfaces and Interfaces of Semiconductors

<b>Fellow Recipients</b>	Yukio Watanabe
<b>Affiliation</b>	Professor-Emeritus of Kyushu University
<b>Title of the Accomplishment</b>	Studies on Clarification of Particle Growth Kinetics in Reactive Plasmas and Its Applications