

Invited Speakers

- P. M. Ajayan (Rensselaer Polytech.)
Organized carbon nanotube architecture
- M. Aono (NIMS)
Dynamic processes of nanoscale wiring and atomic switching
- A. Briggs (University of Oxford)
Carbon nanomaterials for quantum scale computing
- P. Finnie (NRC, Canada)
Photoluminescence from single walled carbon nanotube
- T. Fukui (Hokkaido University)
GaAs single electron devices and integrated circuits based on selectively grown quantum nanostructure
- C. Gerber (University of Basel)
Nanomechanics : opening new frontiers in bio analyses and diagnostics
- J. R. Heath (California Institute of Technology)
A systems approach to molecular electronics
- K. von Klitzing (Max Planck Institute)
Electronic Properties of Two-Dimensional Electron Systems under Microwave Radiation
- M. Ichikawa (University of Tokyo)
Formation of Si and Ge nanostructures using ultrathin SiO₂ technology
- Y. Kuk (Seoul National University)
One-dimensional wires
- K. Matsumoto (Osaka University)
Application of Carbon Nanotube Single Electron Transistor with Ultra-High Coulomb Energy
- T. Mizutani (Nagoya University)
Fabrication and Characterization of Carbon Nanotube FETs
- K. H. Ploog (Paul Drude Institute)
Interplay of elastic and magnetic properties in MnAs/GaAs heterostructures
- V. Y. Prinz (Russian Academy of Sciences)
Precise semiconductor nanotubes and nanocorru-gated quantum systems
- M. L. Roukes (California Institute of Technology)
Functional nanoelectromechanical systems
- C. Teichert (Montanuniversitaet Leoben)
Self-organization of semiconductor nanostructures in heteroepitaxy and under ion erosion
- R. M. Westervelt (Harvard University)
Imaging coherent electron flow
- R. Wiesendanger (University of Hamburg)
Nano-Scale Studies of Low-Dimensional Systems by Low-Temperature Scanning Tunneling Spectroscopy

Organizing and Program Committee

- T. Ogino (Yokohama Nat. Univ); Co-chair
- K. Ishibashi (RIKEN); Co-chair
- H. Yamaguchi (NTT); Co-chair
- Y. Homma (NTT); Steering chair
- P. M. Ajayan (Rensselaer Polytech.)
- M. Aono (NIMS)
- A. Briggs (Univ of Oxford)
- P. Finnie (NRC, Canada)
- J. R. Heath (Caltech)
- Y. Hirayama (NTT)
- K. von Klitzing (Max Planck Institute)
- K. Matsumoto (Osaka Univ. and AIST)
- K. H. Ploog (Paul Drude Institute)
- V. Y. Prinz (Russian Academy of Sci.)
- K. Shiraishi (Univ. of Tsukuba)
- A. Taguchi (NTT); Treasure
- F. Maeda (NTT); Secretary

Sponsors

- New Energy and Industrial Technology Development Organization
- Japan Science and Technology Corporation
- NTT Basic Research Laboratories

in incorporated with

The Japan Society of Applied Physics

Important deadlines

Abstract dead line :	20 Sep. 2003
Notification of acceptance :	1. Oct. 2003
Accommodation reservation :	20 Oct. 2003
Manuscript submission :	12 Nov. 2003

Conference Web Site

<http://www.brl.ntt.co.jp/event/fsns2003/index.html>

Call for Papers



International Symposium on Functional Semiconductor Nanosystems



Introduction

The International Symposium on Functional Semiconductor Nanosystems (FSNS2003) will be held in Atsugi, Kanagawa Prefecture, Japan, from 12 (Wed.) through 14 (Fri.), 2003. Ultra-small "nanoscale" materials with semiconducting properties have been the focus of much attention for many years. Recently, the field has been advanced significantly through the integration of novel structures, such as nanotubes, nanowires, and molecules, and the introduction of new properties, such as mechanics, elasticity and magnetism, as well as coupled and interconnected structures. These novel "nanosystems" are expected to bring about new functionality that cannot be obtained from conventional structures. The purpose of FSNS2003 is to provide an international forum on the latest progress related to these novel nanostructures.

Scope

The Symposium covers all aspects of fabrication and characterization of semiconductor nanosystems - including growth, processing, and optical, electrical, elastic, structural, and mechanical properties, and applications - and deals with all kinds of semiconductors, carbon nanotubes, and organic materials. Papers are solicited on a wide variety of topics including, but not limited to, the following:

- Quantum Low-dimensional Systems
- Carbon Nanotubes
- Nanostructure Coupling and Interconnection
- Micro- and Nanomechanical Systems
- Nanoprobng
- Novel Material and Structures
- Semiconductor Nanotubes and Nanowires
- Molecular devices
- Self-assembly

Submission of Papers

Submission Deadline: Sep. 20, 2003

All contributed abstracts will be received electronically. The abstract shall be one A4 page for text and figures. The PDF format (Acrobat Reader) or MS-Word files are acceptable. Please make sure that figures are embedded in the document. The templates for abstract submissions are available from the web site. Further details for the submission, please see the conference web site.

Conference Proceedings

The authors of accepted conference papers are invited to submit papers for the conference proceedings, which will be published in a special issue of the Journal "Physica E". All papers will go through the ordinary reviewing process before publication. The deadline of paper submission will be the first day of the conference, 12th of November. Details will be announced at the web site.

Registration

Registration should be done by filling out the registration page on the web site. The registration fees are as follows:

Participants	Students
¥ 10,000	¥ 5,000

The registration fee includes participation in all scientific sessions, the abstract booklet, a copy of proceedings, coffee during breaks, and the welcome reception and conference banquet. Please pay the fee on site.

Financial support

Financial support will be given to a limited number of students. Students who need the support should indicate this in the comment field of the registration page.

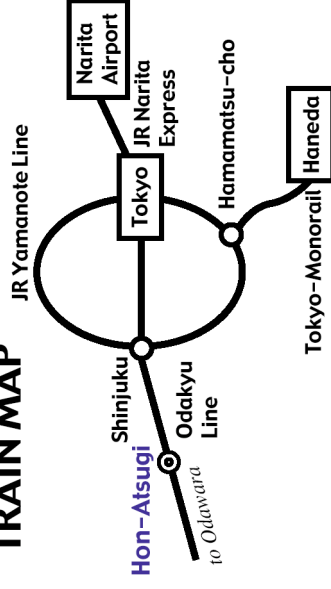
Official language

The official conference language is English. No simultaneous translation is provided

Travel information

Atsugi City is situated in the center of Kanagawa Prefecture, 46 km south-west of Tokyo and 32 km from Yokohama.

TRAIN MAP



Accommodations can be made at hotels near Hon-Atsugi Station, Odakyu Line. Shuttle buses between the hotels and the symposium site will be arranged by the conference. Public bus service is also available from the station. More detailed information will be given at the conference web site.

Contact person and information:

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