

JAPAN NANO 2007
5th International Symposium on Nanotechnology
"Nanotechnology, Progress for Five Years and Expectation to The Future"

Venue: Tokyo Big Sight, Conference Tower (Tokyo)

February 20th 2007, Reception Hall A, B

13:15- 【Opening Session】

<Opening Remarks 1 >

Mr. Toshiaki Endo (Senior Vice Minister of Education, Culture, Sports, Science and Technology)

<Opening Remarks 2 >

Prof. Teruo Kishi (Chairperson of the Organizing Committee of JAPAN NANO 2007 / National Institute for Materials Science/ Nanotechnology Researchers Network Center of Japan)

<Opening Remarks 3 >

Prof. Tomoji Kawai (Chairperson of the Executive Committee of "nano tech 2007" / Osaka University, Japan)

<Plenary Session

13:30 Prof. Akira Fujishima (Kanagawa Academy of Science and Technology, Japan)
"Important Factors for Creative Research are Sense, Atmosphere, and Plus
- In the Case of TiO₂ Photocatalysis"

14:20 Dr. Kazunobu Tanaka (Japan Science and Technology Agency / National Institute of Advanced Industrial Science and Technology, Japan)
"Global Overview of National Nanotechnology Initiatives : Five-year Progress and Expectation"

15:10-15:30 Break /休 憩

15:30 Dr. Junko Nakanishi (National Institute of Advanced Industrial Science and Technology, Japan)
"Our Research Activities on Risk Assessment and Risk Management of Nanotechnology "

16:25-17:45 【Oral Presentation】

(One minute each /各 1 分)

Preview of the poster session

February 20th 2007, Conference Room 605, 606

17:50-19:50 【Poster Session】

(Conference Room 605, 606 on the 6th floor)

Presentation by the young scientists on their achievements in the projects which funded by national government

【Nano Physics · Metrology, IT Device】

【Nano Materials · Process】

【Nano Bio】

For inquiry of the name of the authors of the poster titles:

<http://www.nanonet.go.jp/english/event/index.html>

17:50-19:50 【Reception】

(Conference Room 607, 608 on the 6th floor)

Poster Session and reception: Held in parallel.

February 21st 2007, Reception Hall A , B

10:00-12:00 **Session 1:**

Nanobiotechnology and Its Medical Applications

10:00 **Dr. Hideki Kambara** (Hitachi, Ltd., Japan)

“Progress and Prospect of DNA Analysis Technologies”

10:40 **Prof. Andreas Engel** (University of Basel, Switzerland)

“Probing Membrane Proteins by AFM and SECM”

11:20 **Dr. Hidezo Mori** (National Cardiovascular Center Research Institute, Japan)

“Cardiovascular Regenerative Medicine and Nanotechnology”

12:00-13:00

Lunch

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| 13:00-15:00 Session 2: Innovation from Nanomaterials to Nanodevices | |
| 13:00 | Dr. Kazuhiro Hono (National Institute for Materials Science, Japan) "Nanostructured Metallic Materials - Designing Materials by Visualization of Atoms" |
| 13:40 | Prof. Tsu-Wei Chou (University of Delaware, USA) "Electro-mechanical Behavior of Carbon Nanotube-based Sensors and Composites" |
| 14:20 | Prof. Masashi Kawasaki (Tohoku University, Japan) "Oxide Block Builder as Designer Device Components" |
| 15:00-15:30 | Break |
| 15:30-17:30 Session 3: Novel Information Communication Technology Pioneered by Nanodevices | |
| 15:30 | Dr. Andrew Shields (Toshiba Research Europe Ltd. , UK) "Quantum Photonics for Novel Applications in IT" |
| 16:10 | Prof. Susumu Komiyama (The University of Tokyo, Japan) "New Terahertz Microscopy Developed by Nano Devices" |
| 16:50 | Prof. Seigo Tarucha (The University of Tokyo, Japan) "Science and Technology of Solid State Quantum Information Devices" |
| 17:30-17:40 | Closing Remarks Prof. Kenichi Iga (Organizing Committee of JAPAN NANO 2007 / Japan Society for the Promotion of Science) |