



## International Cooperation on Nanotechnology, MOST, Taiwan

Taiwan has been actively promoting the research and development of nanoscience and nanotechnology, as well as participating in nanotechnology-related international collaboration and events for more than a decade. The two phases of the National Nanotechnology Program, totally 12 years of endeavor, has achieved the goals to encourage and improve the research and development of nanoscience and nanotechnology. Though the National Program is formally over, nevertheless, Taiwan still continues to push for Nanotechnology after the build-up of the infrastructure and outstanding research teams on nanotechnology by the National Program. It is time for each entity to grow out of its own niches for a more innovative future. Releasing the comfort of the entitled national resources – more like the shackle of a magic ring, might be an effective spur, as well as a necessary risk, to kick start a new development deeply rooted in Taiwan, if nanotechnology will be, as promised, to change the civilization of mankind.

Nanotech in Tokyo has always been a great gateway for Taiwan to interact with international nanotechnology development community. It has fostered the opportunity to all parties involved striving for creativity that will have strong impact to the future development. We appreciate very much the continuing support from the Ministry of Science and Technology so that the Taiwan Pavilion will be able to serve the community. We also appreciate greatly the helping hand from Nanotech host in linking up with many networking events in the past. We do hope the Taiwan Pavilion will continue its presence at Nanotech in Tokyo in the future.

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## Taiwan Pavilion

There are 5 areas at Taiwan Pavilion:

1. Biomedicine
2. Electronics & Optoelectronics
3. Energy & Environment
4. Evaluation, Measurement & Instruments
5. Nano Materials & Applications

### Biomedicine

Taipei Harvest Regenerative Technology Ltd. Co.

- Repair of Critical Sized Defect of Eardrum
- Bone Repair

Instant NanoBiosensors Co., Ltd.

- Fiber Optic Particle Plasmon Resonance

### Electronics & Optoelectronics

Datawise Technology Company

- Manufacturing-Applicable Silicon Customized Nano-Stamp

### Energy & Environment

RiteDia Corp.

- A Graphene Lithium Ion Battery with Double Volume Capacity
- Graphene Oxide Nanosheets as Effective Friction Modifier for Oil Lubricant

STRONG NANO TECH.CO.,LTD.

- Nano gold catalyst additives (Diesel fuel additives, Gasoline additive, Engine oil additives)

### Evaluation, Measurement & Instruments

OME Technology Co., Ltd.

- Nano-meter positioning system

National Chung Hsing University (Prof. Gou-Jen Wang)

- A novel non-enzymatic glucose biosensor with self-assembled gold nanoparticles on a micro hemisphere array

Nanovie Co., Ltd.

- Automatic Tip Making for STM, Probe Stations or Nanomachines
- Compact Scanning Tunneling Microscopy/Spectroscopy for Research

Protrustech Co., Ltd.

- Multi-Functional Micro Raman system
- Micro Raman system

Just Nanotech Co.,Ltd.

- New Generation Bead Mills for Nano Grinding & Dispersing

- Functional nano dispersions and application

Center for Micro/Nano Science and Technology, National Cheng Kung University

- Development and Commercialization of Intelligent In-line E-Beam Inspection System

### Nano Materials & Applications

Niching Industrial Corporation

- Nano Porous Material

Tripod Technology Corporation

- Tripod Technology Corporation's Colloidal Gold and Colloidal Silver with conjugate complexes in the application of cosmetics raw material development

National Taiwan University of Science and Technology (Prof. Jinn P. Chu)

- Nano-Metallic Glass Coating Applied to High Value-Added Products

Luxor Thermal LTD.

- Advanced Coating Applications for High Electrical Conductivity in Smart Textile Industry

Department of Physics, National Sun Yat-sen University (Prof. Ikai Lo)

- Cold light LED mad of III-Nitride Microdisks

Taiwan textile research institute/UC Bacon Company Limited

- The mass production technology of graphene and its related products.

Taiwan Energy Saving Film Company

- Nano Ceramic Laminated Glass, Insulating Energy Saving Glass

Creative-Shades Industrial Co., Ltd.

- Nano Energy Saving Film

AKALI Technology Co., Ltd.

- Hydrophobic Self Clean Nano Coating for Building Materials

ACME ELECTRONICS CORPORATION

- Extra Fine Silicon Carbide Powder

Cinn Nano Technology Co, Ltd.

- Certification Specifications of Nano Mineral Far Infrared Textiles