



# Summary of “Green and Bio Nanotechnology for Innovative Materials System” Workshop



30 January, 2016  
Miraikan, Tokyo, Japan



# Overview



- **Co-organized by JST & e-ASIA JRP Secretariat**
- **Held on January 30th, 2016 at Miraikan, Tokyo, Japan in conjunction with “nano tech 2016 - the15th International Nanotechnology Exhibition & Conference”, one of the world’s largest exhibitions for the research and development market, which was held for three days from January 27 to 29, 2016**
- **Attended by 19 invited speakers from Japan, Thailand, Philippines, Indonesia, Vietnam and Sri Lanka, and audience from Japan, Thailand, and Singapore (Asia Nano Forum secretariat)**



# Objectives



- Publicize the e-ASIA JRP information on the mechanism of call for proposal, evaluation criteria & process, etc. to the researchers with keen interest in collaborating under the e-ASIA JRP.
- Explore potential future collaborative research area under the field of “Material (Nanotechnology)” with an idea of implementing a call for proposals reflecting the results of this workshop in the future
- Develop international research networks for future prospective research collaboration under the e-ASIA JRP



# Agenda



- **The workshop was:**
  - **Coordinated by Dr. Kazushi Miki, one of the PIs of the e-ASIA JRP projects, and Dr. Hideomi Koinuma, one of the PIs of the SATREPS projects;**
  - **Consisted of two sequential technical sessions targeting “Bio Nanotechnology” and “Green Nanotechnology”**
- **e-ASIA JRP Secretariat Presented on e-ASIA JRP**



# Results



- In the Bio Nanotechnology session, the following topics were proposed as a commonly interested target topic:
  - Drug Delivery,
  - Nano medicine,
  - Nano-biosensor (possible with Green Nano),  
diagnostics
  - Nanotechnology in energy, agriculture,  
water,
  - Polymer



# Results



- In the Green Nanotechnology session, the following topics were introduced as a commonly interesting target topic:
  - Metal Oxide,
  - Organic Pollutants Degradation,
  - Thermoelectrics, and
  - Photocatalysts

and...



# Results



- The Green Nanotechnology session was concluded with the proposal that potential collaboration areas under this session theme will be:
  - Green materials technology for environmental purification
    - > *Japan, Thailand, the Philippines and Vietnam*
  - Green energy technology: advanced organic / inorganic solar cells
    - > *Japan, Indonesia, Thailand and Vietnam*
  - Green energy technology: thermoelectric and energy harvesting
    - > *Japan, Sri Lanka, Thailand and the Philippines*



# Photo of the Workshop







# Photos of the Workshop





# Reference



TIME	Saturday 30 <sup>th</sup> January 2016
08:30 – 09:00	<b>REGISTRATION @ MIRAikan 7th Floor</b>
09:00 – 09:10	<b>Opening Remarks</b> <i>Mr. Sotaro Ito, Deputy Executive Director, JST</i>
09:10 – 09:20	<b>Introduction of the e-Asia Joint Research Program:</b> <i>Ms. Eriko Kishida, Program Secretariat, e-ASIA JRP</i>
09:20 – 09:30	<b>Photo Session</b>
<b>Bio Nanotechnology Session</b>	<b>Chair: Prof. Nobuhiro Nishiyama (Tokyo Tech) &amp; Dr. Mitsuhiro (NIMS)</b>
09:30 – 10:00	<b>Keynote Lecture 1</b> <b>“Development of Nanotechnology in Thailand and the Role of Nanotechnology Center (NANOTECH)”</b> <i>Prof. Sirirung Songsivilai, Executive Director, National Nanotech (NANOTECH), NSTDA, Thailand</i>

[http://www.jst.go.jp/sicp/agenda\\_easia\\_ws2016.pdf](http://www.jst.go.jp/sicp/agenda_easia_ws2016.pdf)



**Thank you very much  
for your attention**