

**Program of 2003 Joint Workshop
on FNCA Biofertilizer Project
and JSPS-NRCT/DOST/LIPI/VCC Multilateral Cooperative
Research Program in the Field of Biotechnology, Development of
Biomanure Based on the Symbiotic System**

October 20-24, 2003
Hanoi And Ho-Chi-Minh City, Vietnam

Date: October 20-24, 2003
Venue: **Hanoi:** Sofitel Plaza Hanoi Hotel (October 20-21)
Ho Chi Minh City: Rex Hotel (October 23-24)
Sponsored By: **Vietnam:** VAEC
Ministry of Science, Technology and Environment (MOSTE)
FNCA and JSPS:
Ministry of Education, Culture, Sports, Science and Technology, Japan (MEXT)
Local Organizer: **FNCA (Hanoi):**
Vietnam Atomic Energy Commission (VAEC),
Vietnam Agricultural Science Institute (VASI)
JSPS (Ho Chi Minh City): Cantho University
Secretariat: **FNCA:** Japan Atomic Industrial Forum Inc. (JAIF)
JSPS: ICBiotech, Osaka University
Working Language: English

October 20 (Monday)
in Hanoi

<Opening Session>

Chair Person: Dr. Pham Van Toan

8:30- 9:00 Registration

9:00- 9:10 Opening and Welcome Address

Dr. Vo Van Thuan

Director of the Institute For Nuclear Science and Technology (INST), VAEC

9:10-9:40 Remarks and Introduction of FNCA Activities

Dr. Sueo Machi, JAIF

FNCA Coordinator of Japan

9:40-10:10 Remarks and Introduction of JSPS Cooperative Multilateral Projects Activities

Prof. Dr. Yoshikatsu Murooka, Osaka University

10:10-10:40	Special Lecture “Past IAEA Work on the Use of Nuclear Techniques to Enhance Biological Nitrogen Fixation in Grain Legumes” Mr. Gudni Hardarson, IAEA
11:00-12:00	Lunch
12:30-17:30	Technical Visit: The Hop Thinh Commune; Tam Duong District; Vinh Phuc Province

October 21 (Tuesday)
in Hanoi

<Session 1>

Chair Persons: Mr. Kab-Yeul Jang and Dr. Khairuddin Bin Abdul Rahim

8:00- 8:10	Opening and Welcome Address Dr. Pham Van Toan, VASI
8:10- 8:20	Remarks Dr. Sueo Machi, JAIF
8:20-8:40	Presentation of Country Report of China “Country Report of China at 2003 FNCA Workshop on Biofertilizers” Dr. Pan Jiarong, CAAS
8:40-9:00	Presentation of Country Report of Indonesia “Plant Growth And Yield In Maize (<i>Zea Mays</i> L.) Inoculated With <i>Azospirillum</i> Mixed Inoculants” Ms. Soertini Gandanegara, BATAN
9:00-9:20	Presentation of Country Report of Japan “Introduction of the Rhizobium Supplier and Field Experiments in Japan” Prof. Dr. Takuji Ohyama. Niigata University
9:20-10:00	Break
10:00-10:20	<i>Chair Persons: Ms. Soertini Gandanegara and Dr. Jiarong Pan</i> Presentation of Country Report of Korea “Research on Indigenous Phosphate-solubilizing Microorganisms as Inoculants in Korea” Mr. Kab-Yeul Jang, RDA
10:20-10:40	Presentation of Country Report of the Malaysia "Development of Free-living Nitrogen Fixers and other Plant Growth Promoting Rhizomorphs as Biofertilizers for Rice and Horticultural Crops in Malaysia" Dr. Khairuddin Bin Abdul Rahim, MINT

- 10:40-11:00 Presentation of Country Report of the Philippines**
 "A Synopsis of the Vital Role of Biotechnology to the Development and Sustainability of Philippine Agriculture"
 Mr. Richard M. Balog, PNRI
- 11:00-11:20 Presentation of Country Report of Thailand**
 "The Application of AM Mycorrhiza Fungi on Leguminous Plant Production in Thailand"
 Dr. Omsub Nopamornbodi, DOA
- 11:20-11:40 Presentation of Country Report of Vietnam**
 Study of multistrain preparation as functional biofertilizer for agricultural, industrial crops and forestry tries.
 Dr. Pham Van Toan, VASI
- 11:40-13:00 Lunch**
- <Session 2>**
Chair Persons: Dr. Omsub Nopamornbodi and Mr. Richard Miston Balog
- 13:10-13:20 Invited Lecture (1)**
 "Phosphorus Solubilizing Capacity of Phosphatbacterin for Coffee Trees (Studied by ³²P Technique)"
 Dr. Dang Duc Nhan,
 Institute for Nuclear Science and Technology (INST), VAEC
- 13:20-13:40 Invited Lecture (2)**
 "Study of Multistrain Preparation as Functional Biofertilizer for Agricultural, Industrial Crops and Forestry Tries"
 Dr. Pham Van Toan, VASI
- 13:40-14:00 Break**
- <Session 3>**
Chair Person: Yoshikatsu Murooka
- 14:00-14:20 Oral Presentations (1)**
 Assoc. Prof. Dr. Nazalan Najimudin, Universiti Sains Malaysia
- 14:20-14:40 Oral Presentations (2)**
 Prof. Dr. Kiwamu Minamisawa, Tohoku University
- 14:40-15:00 Oral Presentations (3)**
 Ms. Pilunthana Thapanapongworakul, Chiang Mai University
- Chair Person: Nazalan Najimudin*
- 15:00-15:20 Oral Presentations (4)**
 Prof. Dr. Mikiko Abe, Kagoshima University
- 15:20-15:40 Oral Presentations (5)**
 Prof. Dr. Nantakorn Boonkerd
 Suranaree University of Technology

15:40-16:00	Oral Presentations (6) Assoc. Prof. Dr. Takashi Ozawa, Osaka Prefecture University
16:00-16:20	Oral Presentations (7) Assoc. Prof. Dr. Zulkifli H. Shamsuddin Universiti Putra Malaysia
16:20-16:30	Break
16:30-18:00	Discussion
19:00	Reception

October 22 (Wednesday)
in Hanoi

8:30 – 10:00	Discussion (<i>Parallel Session: FNCA group and JSPS Group</i>)
11:00-12:00	Lunch
12: 30	Leave Hotel and Move from Hanoi to Ho chi Minh City
	15:00 Departure from Hanoi (VN225)
	17:00 Arrival at Ho Chi Minh City

October 23 (Thursday)
in Ho-Chi-Minh City

	<i>Chair Person: Nantakorn Boonkerd</i>
9:00- 9:20	Oral Presentations (8) Ms. Harmastini Sukiman, Indonesian Institute of Sciences, LIPI
9:20- 9:40	Oral Presentations (9) Ms. Evelyn F. Delfin, University of the Philippines
9:40-10:00	Oral Presentations (10) Assoc. Prof. Dr. Bayani M. Espiritu, University of the Philippines
	<i>Chair Person: Mikiko Abe</i>
10:00-10:20	Oral Presentations (11) Prof. Dr. Takuji Ohyama, Niigata University
10:20-10:40	Oral Presentations (12) Prof. Dr. Shigeyuki Tajima, Kagawa University
10:40-11:00	Oral Presentations (13) Prof. Dr. Takashi Yamada, Hiroshima University
	<i>Chair Person: Shigeyuki Tajima</i>
11:00-11:20	Oral Presentations (14) Prof. Dr. Keishi Senoo, University of Tokyo

11:20-11:40	Oral Presentations (15) Assist. Prof. Dr. Bunichi Ezaki, Okayama University
11:40-12:00	Oral Presentations (16) Assist. Prof. Dr. Makoto Hayashi, Osaka university
12:00-13:30	Lunch
	<i>Chair Person: Zulkifli H. Shamsuddin</i>
13:30-13:50	Oral Presentations (17) Assist. Prof. Dr. Ampan Bhromsiri, Chiang Mai University
13:50-14:10	Oral Presentations (18) Ms. Kartini Kramadibrata, Indonesian Institute of Sciences, LIPI
14:10-14:30	Oral Presentations (19) Dr. Nguyen Huu Hiep, Cantho University
<Session 4>	
14:30-14:50	Special Lecture (1) "Global analysis of gene expression of Mesorhizobium loti MAFF303099" Prof. Dr. Tadashi Yokoyama Tokyo University of Agriculture and Technology Mesorhizobium loti research consortium in Japan
14:50-15:10	Special Lecture (2) "Legume SNF Research in the Semi Arid Tropics: Achievements, Status and Future Prospects" Prof. Rachid Serraj, ICRISAT
15:10-15:30	Break
<Session 5>	
	<i>Chair Persons: Dr. Takuji Ohshima (FNCA) and JSPS</i>
15:30-17:00	Discussion on Collaboration between FNCA and JSPS Cooperative Multilateral Projects

October 24 (Friday)
in Ho-Chi-Minh City

<Session 6>	
9:00-11:00	<FNCA> General Discussion: Review of 2003 and Work Plan for 2004
<i>Parallel Session</i>	<JSPS> General Discussion
11:00-11:20	Break

