



TOKYO UNIVERSITY OF AGRICULTURE

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Training Workshop Report
on
ATTACHMENT PROGRAM ON WEEVILS OF QUARANTINE IMPORTANCE WITH
SPECIAL EMPHASIS ON STORED PRODUCT INSECT PESTS

by

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Background Information

The ASEAN Plant Health Cooperation Network (APHCN) – ASEANET Project “Taxonomic capacity building to support market access for agricultural trade in the ASEAN region”, funded by the Japan ASEAN Integration Fund (JAIF) has implemented several activities related to capacity building activities for the ASEAN Plant Quarantine and plant protection officers. This training work shop was planned for capacity building on the identification of weevils of quarantine importance.

Some of weevils have plant quarantine importance and such weevils are known as very destructive and serious stored product insect pests in ASEAN countries. Their invasion will cost a lot for appropriate implement for control actions. In Japan, in particular, we experienced in eradication operation of invaded pests and pathogens such as the oriental fruit fly from the Okinawa island by male annihilation technology. Also we are under struggle to delete cyst nematodes in Hokkaido and others in Japan. In this regards, Japanese experience and technology can give enough information to plant quarantine officers and scientists in ASEAN countries. This will be also benefit of Japan in importation of agricultural commodities from ASEAN countries in safe and stable mode.

With this back-ground, this training workshop funded by JAF as a project on “Taxonomic Capacity Building to Support Market Access for Agricultural Trade in the ASEAN Region” is what we need most and also very significant for all of ASEAN countries and Japan.

Objectives

1. To have an overview on agriculture, plant quarantine and plant protection system in Japan by lectures.
2. To understand the functions and operations of each division of the plant quarantine system of Japan including domestic and international quarantines, Pest Risk Analysis, etc.
3. To visit the research center and other plant protection/quarantine related facilities in Japan
4. To access advanced technology in weevil diagnostics and to transfer skills and knowledge of Japanese experts to counterparts in ASEAN countries so as to increase capacity, experience, and knowledge of the participants in the diagnostics of pests and taxonomic identification.
5. to strengthen the diagnostic capacity by providing participants with practical understanding of the concept of weevils, their identification and current management practices, and

6. to tap these selected and trained participants who would undergo more intensive technical training and subsequently serve as potential ASEAN resource persons on the identification of weevils using their gained expertise to the benefit of all ASEAN member states and the ASEAN Diagnostic Network.

Participants

Total 3 officers from ASEAN NPPOs as shown below and one coordinator Dr. S. Soetikno from ASEANET participated.

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Duration

7th November to 19th December 2018

Contents of the program

The program was conducted as follows;

Nov 7 (Wed) Arrival in Tokyo

Nov 8 (Thurs) Briefing and orientation at NODAI by Dr. Natsuaki.

Nov 9 (Fri) Visit to Kagaku Miraikan Museum, Tokyo

Nov 10 (Sat) Visit to Tama Insect Collection Museum, Tokyo.

Nov 11 (Sun) Holiday

Nov 12 (Mon) Move to Yokohama, Introduction and lecture on Plant Protection Research Centre and plant protection in Japan by Dr. Yukio Yokoi Mr. Ren Iwaisumi and Ms. Kaori Iwasawa, Yokohama-Plant Protection Research Center.

Nov 13 (Tue) Morphological characters and lab work on weevils by Mr. Masami Masumoto

Nov 15 (Thurs) ditto by Mr. Yuichi Higo
Nov 16 (Fri) ditto by Mr. Yuichi Higo
Nov 17 (Sat) Holiday
Nov 18 (Sun) Move to Kobe by Shinkansen train.
Nov 19 (Mon) Orientation, Lecture on stored beetles by Mr. Tatsuo Matsuda
Nov 20 (Tue) Visit to Kamigumi Co., LTD and Showa Company with Mr. Tatsuo Matsuda
Nov 21 (Wed) Lecture on identification on stored beetles by Mr. Tatsuo Matsuda
Nov 22 (Thurs) ditto by Mr. Tatsuo Matsuda
Nov 23 (Fri) Move back to Tokyo
Nov 24 (Sat) Visit to Medicinal Plant Garden and Museum of Human Parasites in Meguro with Dr. Natsuaki
Nov 25 (Sun) Holyday
Nov 26 (Mon) Move to Tsukuba and visit NARO
Nov 27 (Tue) Visit Post-entry Quarantine Centre of MAFF and visit Botanical Garden with Ms. Kaori Iwasawa
Nov 28 (Wed) Visit Food Research Institute (NARO) with Ms. Kaori Iwasawa and lecture by Dr. Akihiro Miyanoshita
Nov 29 (Thurs) Visit Nissan Chemical Industries, LTD.
Nov 30 (Fri) Visit ANA-Food Company with Dr. Natsuaki
Dec 1 (Sat) Tokyo NODAI-Setagaya
Dec 2 (Sun) Travel to NODAI Atsugi campus
Dec 3 (Mon) Introduction of entomology laboratory and its facilities by Dr. Kojima
Dec 4 (Tue) Weevils systematic and classification – Laboratory-work by Dr. Kojima
Dec 5 (Wed) Visit to Fuji Flavor company with Dr. Ishikawa
Dec 6 (Thurs) Weevils systematic and classification – Laboratory-work supervised by Dr. Kojima
Dec 7 (Fri) Weevils systematic and classification – Laboratory-work supervised by Dr. Kojima
Dec 8 (Sat) Holiday
Dec 9 (Sun) Holiday
Dec 10 (Mon) Sorting and observation of other insect taxa by Dr. Kojima
Dec 11 (Tue) ditto by Dr. Kojima
Dec 12 (Wed) Visit to Kanagawa Prefecture Museum of Natural History guided by Dr. Kojima

Dec 13 (Thurs) Preparation for presentations by participants
Dec 14 (Fri) Presentations by participants on study at Atsugi campus supervised by Dr. Kojima
Dec 15 (Sat) Travel back to Tokyo. Preparation of final presentation and report writing.
Dec 16 (Sun) Holiday
Dec 17 (Mon) Final presentation and the farewell party.
Dec 18 (Tue) Wrap up with Dr. Natsuaki and Dr. Tsuji, and visit to Food and Agriculture Museum and The Research Institute of Evolutionary Biology of Tokyo University of Agriculture guided by Dr. Akira Imaki.
Dec 19 (Wed) Departure

Outcomes

I highly evaluated the excellent ability and sincere attitude of all trainees. I can proudly report here that they performed satisfactory as they were expected.

- 1) By lectures and visits during this training workshop, the trainees could learn more advanced knowledge and information on plant protection and fruit weevil management which is significant to all ASEAN countries.
- 2) By training at plant quarantine research station and related facilities in Yokohama, Kobe, and Tsukuba, the trainees fully understood the latest information and identification techniques.
- 3) The trainees understood more about plant quarantine system in Japan as well as ASEAN countries by exchange of information among the participants.
- 4) The trainees learnt agriculture and life science education and research policy of Tokyo NODAI and also Japanese culture.
- 5) The trainees learnt related knowledge by the visit to agrochemical company, banana importing company, museums, botanical gardens and others.
- 6) The trainees improved their ability and deepen their knowledge on weevils and plant protection by discussion with resource speakers.

Problems and suggestions

- 1) I tried my best to save the budget by looking for discount ticket, reasonable accommodation others. The fee for supporting people such as tutors is most important in Japan for comfortability of the trainees. As the results, the budget for tutors and other supporting people are optimized with our effort. The important works of tutors should be evaluated in next possible training.
- 2) As for the itinerary, I hope to have Saturday and Sunday as holidays for participants. This is for the health of participants and this is because of

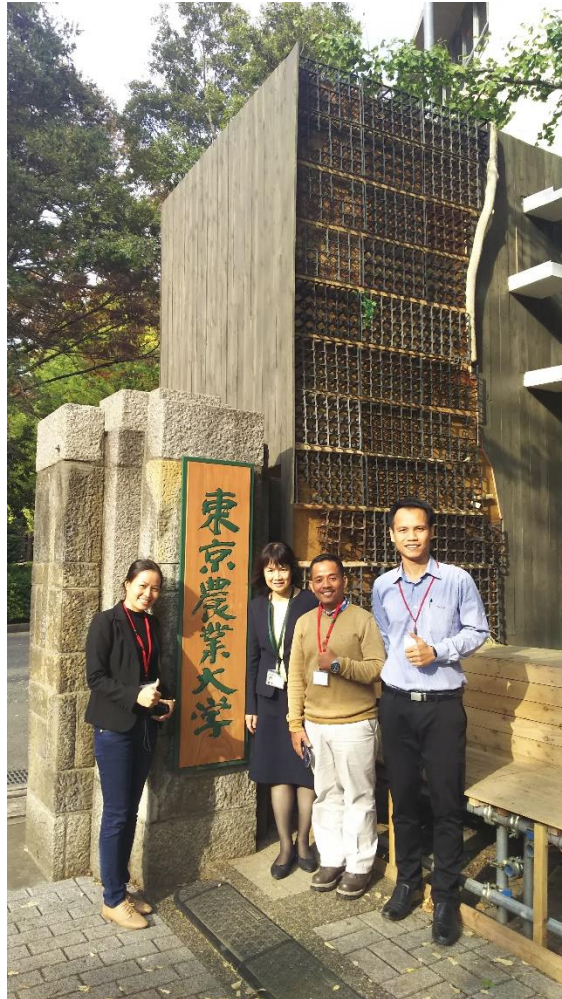
difficulties to find tutors or professionals to support their activities on Saturday, Sunday and also national holidays.

- 3) I would like to strongly suggest to organize similar training programs such as a training program for diagnostics of Begomoviruses, the use of LAMP, and/or diagnostics of new cassava mosaic virus which is emerging in Cambodia and Vietnam only very recently as serious plant health issue. I can suggest we should look for the latest and serious topics in plant quarantine for better trading condition in ASEAN countries. This will be also supported by the set of the international year of plant health (IYPH) by FAO in 2020. Asian Conference of Plant Pathology (ACPP) will be organized in 2020 in Tsukuba, Japan, too. We can involve this JAICF training and workshop with ACPP.
- 4) To maintain the network and communication among participants, I hope we can build mailing list of participants of this time and also the participants of former programs. I lean some of our former trainees are very active at each of the country by facebook or other SNS. I, however, believe we can maintain our network as more scientific and academic way.

Acknowledgement

I thank Japan-ASEAN Integration Fund (JAIF) for their strong and generous financial support to this program in Japan. I am grateful to Ms. Kaori Iwaizumi, Mr. Shigemi Tepperi, and Mr. Yukio Yokoi, MAFF, Japan, for their sincere and wonderful contribution during the visit of our trainees. Many thanks go to Drs. T. Ishikawa and H. Kojima for the wonderful contribution in giving lectures and laboratory sessions together with their graduates students, Dr. Akira Tsuji and Mr. M. Uchiyama, Tokyo NODAI, for their sincere logistics and accounting for this training workshop. In every events including lectures, laboratory sessions, visit to institutions, parties, I found Tokyo NODAI students including Mr. Phanuwat Moonjuntha from Thailand, worked nicely with trainees from ASEAN countries. I believe the time with trainees from ASEAN countries encouraged Tokyo NODAI students to be more international. It was very wonderful to work again with Dr Soetikno S. Sastroutomo (APHCN-ASEANET) and I thank him a lot for bringing me the opportunities to carry out this program.

Photos of the Visit



The first day at Tokyo University of Agriculture at the main entrance with Dr. Natsuaki on Nov.7.



Visit to the science museum, MIRAI-KAN, on Nov. 24 with Tokyo NODAI students.



The visit to Medicinal botanical garden of Hoshi Pharmaceutical University on Nov. 24.



Final presentation by one of the trainees on Dec 17 at Tokyo NODAI



Comments by Dr. Soetikno at the end of the final presentations by 3 trainees.



Three trainees at the SAYONARA party with Dr. Soetikno, Ms. Iwasawa, Mt Shigemi, Mr. Iwaizumi, Dr. Kojima, Dr. Ishikawa, Dr. Tsuji and Tokyo NODAI students who helped trainees as tutors during their Japan visit on Dec. 17.