

FNCA OPEN SEMINAR PROGRAM
 “APPLICATION OF RADIATION PROCESSING FOR SUSTAINABLE DEVELOPMENT”
 MALAYSIAN NUCLEAR AGENCY, BANGI
 29 OCTOBER 2013

TIME	AGENDA
09:00 – 09:30	Registration
9:30 – 10:15	Welcoming Remarks Chairperson: Dr. Muhd Noor MUHD YUNUS, DDG, Malaysian Nuclear Agency (FNCA Coordinator of Malaysia)
	Ms. Moe AOKI (Ministry of Education, Culture, Sports, Science and Technology (MEXT))
	Dr. Sueo MACHI (FNCA Coordinator of Japan)
	Opening Address Dato’ Dr. Muhamad Lebai Juri, DG, Malaysian Nuclear Agency
	Group photography
10:15 – 10:45	Coffee break/Poster Session
10:45 – 11:15	World trends of industrial application of radiation processing for sustainable development and relevant FNCA activities Dr. Sueo MACHI (FNCA Coordinator of Japan, Fellow, JAEA)
11:15 – 11:45	Research and development on application of radiation processing in Malaysia Dr. Zulkafli Ghazali, Malaysian Nuclear Agency (Nuclear Malaysia)
11:45 – 12:15	Success stories of radiation processing application in Vietnam Dr. NGUYEN Quoc Hien (VINATOM)
12:15 – 12:45	Growing industrial application of radiation processing for industry in China Dr. Wu Guozhong, Shanghai Institute of Applied Physics
12:45 – 14:00	Lunch break
14:00 – 14:30	Research and development of radiation processing for industrial application in Japan Dr. Masao TAMADA (JAEA)
14:30 – 15:00	Current status and future plan of industrial application of radiation processing in Indonesia Ms. Tita Puspita Sari
15:00 – 15:30	Commercialization and Sustainable Development of Sago Hydrogel Eddie Lim/Dr. Kamaruddin Hashim, Rumbia Bio-Tech Sdn. Bhd.
15:30 – 17:00	Round Table Discussion: “Future Prospect and Challenges of Radiation Processing Application for Sustainable Development” Chair: Dr. Muhd Noor MUHD YUNUS, DDG, Nuclear Malaysia

	<p>Panel Members: Speakers of the above lectures</p> <p>Points of discussion</p> <ol style="list-style-type: none"> 1. Obstacles and challenges of the promotion of industrial application of radiation processing 2. How to use advantages of radiation processing for industrial applications 3. Promising areas of radiation processing application 4. How to strengthen linkage of research institutes and potential end-users of radiation processing 5. Challenges of radiation source technology in terms of cost and safety
	<p>Closing Open Seminar and Coffee Break</p>

FNCA WORKSHOP PROGRAM
 RADIATION PROCESSING OF NATURAL POLYMER
 MALAYSIAN NUCLEAR AGENCY, BANGI
 30 OCTOBER – 1 NOVEMBER 2013

Day 2: Wednesday 30 October 2013	
Opening Session	
08:45 – 09:30	Welcome Speech Ms.Moe AOKI(MEXT, Japan) Dr. Sueo MACHI, FNCA Coordinator of Japan
	Opening Speech Dr. Muhd Noor MUHD YUNUS, DDG, Nuclear Malaysia
	Agenda Confirmation, Self-introductions of participants Group Photo
Session 1 Overview of FNCA Chaired by: Dr. Phiriyatorn SUWANMALA(Thailand)	
09:30 – 10:00	FNCA Achievement and Ministerial Meeting in 2012-13 Dr. Sueo MACHI (FNCA Coordinator of Japan)
10:00 – 10:30	Achievement and Challenges of Project on Radiation Processing of Natural Polymers in 2012-13 Dr. Masao TAMADA (JAEA)
10:30 – 10:45	Coffee break
Session 2 Country Report on Production and Field Test of Plant Growth Promoter (PGP) or Elicitor Produced by Radiation Processing (Presentation 10min + Q/A 5min) Chaired by: NGUYEN Quoc Hien(Vietnam)	
10:45 – 11:00	Country Report: Bangladesh
11:00 – 11:15	Country Report: China
11:15 – 11:30	Country Report: Indonesia
11:30 – 11:45	Country Report: Japan
11:45 – 12:00	Country Report: Malaysia
12:00 – 12:15	Country Report: Mongolia
12:15 – 12:30	Country Report: Philippines
12:30 – 13:45	Lunch break
Session 2 Country Report on Production and Field Test of Plant Growth Promoter (PGP) or Elicitor Produced by Radiation Processing(Cont.) (Presentation 10min + Q/A 5min) Chaired by:Dr. Masao TAMADA(Japan)	
13:45- 14:00	Country Report: Thailand
14:00 – 14:15	Country Report: Vietnam
14:15 – 14:30	Country Report: Myanmar (IAEA/RCA)
14:30 – 14:45	Country Report: Pakistan (IAEA/RCA)
14:45 – 15:00	Coffee break
Session 3 Review of Performance Field Test Results of PGP Chaired by: Dr.TSENDDAVAA Amartaivan(Mongolia)	
15:00 – 15:40	Lead speech: 1. Dr. Kamaruddin BIN HASHIM (Nuclear Malaysia)

	2. Dr. NGUYEN Quoc Hien (VINATOM)
15:40 – 16:40	Discussion points: (1) Guide line of production process of PGP (2) Development and field test of PGP in each country in terms of plant yields and disease resistance for different plants (3) Work plan of the field test in 2013 to 2015
Session 4 Preparation of guideline PGP application for different crops including rice and chili Chaired by: Dr.WU Guozhong(China)	
16:40 – 17:00	Lead speech: Dr. Naotsugu NAGASAWA (JAEA)
17:00 - 17:30	Progress of each country for specific crops
Day 3: Thursday 31 October 2013	
Session 5 Strategy for Commercial Application of PGP and Plan for 2013-2015 Chaired by: Dr.Lucille V.ABAD(Philippines)	
09:00 – 09:20	Lead speech: Dr. Kamaruddin BIN HASHIM (Nuclear Malaysia) Note: Project work plan of 2013-15 should be proposed by the lead speakers for discussion
09:20 – 10:45	Discussion points: (1) Challenges and tasks for commercial application such as collaboration with agriculture sector (2) Enhancement of demonstration field tests in cooperation with agriculture experts (3) Collaboration with FNCA bio-fertilizer group (4) Obstacles for research and development (5) Project work plan of R/D on PGP in 2013-15
10:45 – 11:00	Coffee Break
Session 6 Country Report on Production and Application of Hydrogel Super Water Absorbent by Radiation Cross-linking and Grafting of Natural Polymers (Presentation 10min + Q/A 5min) Chaired by: Dr. TSENDDAVAA Amartaivan(Mongolia)	
11:00 – 11:15	Country Report: Bangladesh
11:15 – 11:30	Country Report: China
11:30 – 11:45	Country Report: Indonesia
11:45 – 12:00	Country Report: Japan
12:00 – 12:15	Country Report: Malaysia
12:15 – 13:45	Lunch Break
Session 6 Country Report on Production and Application of Hydrogel Super Water Absorbent by Radiation Cross-linking and Grafting of Natural Polymers (Cont.) (Presentation 10min + Q/A 5min) Chaired by: Dr. TSENDDAVAA Amartaivan(Mongolia)	
13:45 – 14:00	Country Report: Mongolia
14:00 – 14:15	Country Report: Philippines
14:15 – 14:30	Country Report: Thailand
14:30 – 14:45	Country Report: Vietnam
14:45 – 15:00	Country Report: Myanmar(IAEA/RCA)
15:00 – 15:15	Country Report: Pakistan(IAEA/RCA)

15:15 – 15:30	Coffee break
Session 7 Results of Field Tests and Strategy for Commercial Application of SWA, and Work Plan in 2013-15 Chaired by: Ms. Salma SULTANA(Bangladesh)	
15:30 – 16:10	Lead Speech: Ms. Tita Puspita Sari (BATAN) Dr. Phiriyatorn SUWANMALA(TINT) Note: Work plan of 2013-15 should be proposed by the lead speakers for discussion
16:10 – 17:30	Discussion: Points of discussion: (1) Guide line of producing SWA by crosslinking and grafting (2) Enhancement of commercial application of SWA in collaboration with agriculture sector (3) Crop yields increase in drought area by using SWA (4) Challenges and tasks approaching commercial application (5) Project work plans in 2013 and 2015
Day 4: Friday, 1 November 2013	
Session 8 Coordination of the FNCA Project with RCA/IAEA Project on Radiation Processing Chaired by: Ms. Tita PUSPITASARI(Indonesia)	
09:00 – 09:30	Lead speech on new RCA project on radiation processing: Dr. Kamaruddin BIN HASHIM
09:30 – 10:30	Discussion on new RCA project on radiation processing, possible ways and means of cooperation
10:30 – 10:50	Coffee Break
Session 9 Conclusion and Summary Report Chaired by: Dr.Kamaruddin BIN HASHIM	
10:50 – 11:45	Discussion and agreement on the conclusion and summary report
11:45 – 12:15	Closing Speeches Dr. Muhd Noor MUHD YUNUS, DDG, Nuclear Malaysia Ms.Moe AOKI(MEXT, Japan) Dr. Sueo MACHI, FNCA Coordinator of Japan
12:15 – 14:00	Lunch
14:00 – 17:00	Technical Visit: Facility Visit of Nuclear Malaysia