

2-5 Japan –Vietnam Joint Workshop on Environmental Management of River Basins and Solid Wastes

Morihiro Maeda

1. Outline

- Date and Time: 11 November 2012, 8:00 - 17:40
- Venue: Institute of Resources, Environment and Biotechnology-Hue University
- Sponsor: Practical Research and Education of Solid Waste Management based on Partnership between Universities and Governments in Asia and Pacific Countries, granted from the Ministry of Education, Culture, Sports, Science & Technology in Japan
- Cosponsored: Institute of Resources, Environment and Biotechnology – Hue University (IREB), Grant-in-Aid for Scientific Research from Japan Society for the Promotion of Science
- Participants: 67

2. Workshop

2.1 Program

OPENING SESSION			
	8:00 - 8:45	Registration	Delegates
	8:45 - 8:50	Welcome and Program Introduction	Hoang Ngoc Tuong Van, IREB
	8:50 - 8:55	Welcome speech	Takeshi Fujiwara Okayama University
	8:55 – 9:05	Opening Speech	Truong Quy Tung Vice President of Hue University
PRESENTATION SESSION			
Chairs: Hidetaka Chikamori and Le Van Thang			
1	9:05-9:25	Relationships between land use and water quality in the Huong River Basin, Central Vietnam	Morihiro Maeda, Okayama University, Japan
2	9:25-9:45	Application of Principle Component Analysis (PCA) in Assessment Water Quality Data of Huong River – Vietnam	Tran Quang Loc, IREB
3	9:45-10:05	Simulation of Inorganic Nitrogen Loads in the Huong River	Hidetaka Chikamori, Okayama University, Japan

4	10:05-10:25	Status and changes in water quality of Tam Giang - Cau Hai lagoon, Thua Thien Hue Province	Hoang Ngoc Tuong Van, IREB
10:25 - 10:40		Tea break	
Chairs: Morihiko Maeda and Pham Khac Lieu			
5	10:40-11:00	Surface Water Environment At Downstream Of Dong Nai River System In The Context Of Climate Change	Nguyen Ky Phung, Vice-Director, Sub-Institute of Meteorology, Hydrology and Environment of the South Vietnam
6	11:00-11:20	Impacts of Climate Change on Flood Flow and Inundation issue in Nhue – Day river basin, Hanoi city	Tran Ngoc Anh, Hanoi University of Natural Sciences, VNU
7	11:20-11:40	Application of Water Quality Index (WQI) to Assess Changing Tendency of Huong river Water Quality in Space and Time	Tran Dang Bao Thuyen, IREB
8	11:40-12:00	Wastewater treatment with coagulation – case study on wastewater from milking parlor	Hideaki Nagare, Okayama University, Japan
LUNCH BREAK			
Chairs: Md. Azhar Uddin and Tran Ngoc Anh			
9	13:00-13:20	Models of phosphate absorption onto semi-intensive shrimp pond sediment at different pH	Nguyen Van Huy, College of Agriculture and Forestry, Hue University
10	13:20-13:40	Anoxic bacteria reduction of Hg(II) to Hg(0) in wetland sediments	Duong Van Hieu, College of Sciences, Hue University
11	13:40-14:00	Assessment of CO ₂ Emission Reduction in Solid Waste Treatment by Composting Compared to Landfill in Hue City	Tran Ngoc Tuan, College of Sciences, Hue University
12	14:00-14:20	Utilization of Digested Slurry from Biogas Digester as a Fertilizer in Vietnam to Minimize Environmental Pollution-Ammonia Volatilization from Paddy Field Soil	Nakamura M., Institute for Rural Engineering, National Agriculture and Food Research Organization
13	14:20-14:40	Study and propose solutions to minimize	Nguyen Thi Kim Thai,

		landfill area in treatment of solid waste in Vietnam urban areas	Institute of Environmental Science and Engineering, Hanoi University of Civil Engineering
14:40 – 14:50		Tea break	
Chairs: Masato Nakamura and Nguyen Thi Kim Thai			
14	14:50-15:10	Operational efficiency of waste collection alternatives in Danang city	Tran Thi Yen Anh, Okayama University, Japan
15	15:10-15:30	Waste generation and characteristics from business sectors in Hue city	Do Thi Thu Trang, Okayama University, Japan
16	15:30-15:50	Waste recycling by informal sectors in Hue city, Vietnam	Pham Khac Lieu, College of Sciences, Hue University
17	15:50-16:10	Influence of the application of biochar made from rice husks and coconut shells on komatsuna growth and nutrient leaching	Kazuki Miyamoto, Okayama University, Japan
18	16:10-16:30	Application of Biochar from Coconut Shells to Different Soils in Thua Thien Hue Province, Vietnam	Tran Thi Tu, IREB
19	16:30-16:50	Biochar preparation from agricultural residues and their characteristics	Md. Azhar Uddin, Okayama University, Japan
16:50-17:00		Tea break	
	17:00-17:40	Panel Discussion Chairs: Takeshi Fujiwara and Le Van Thang	
CLOSING SESSION			
		Closing Speech	Le Van Thang, IREB

2.2 Summary

Sixty-seven researchers, students, and officers participated in the workshop: 10 from Japan (Prof. Fujiwara, Prof. Chikamori, Assoc. Prof. Azhar, Assoc. Prof. Matsui, Assoc. Prof. Nagare, Assoc. Prof. Maeda, Mr. Miyamoto, Mr. Iwata, and Ms. An from Okayama University; Dr. Nakamura from National Agriculture and Food Research Organization) and 57 from Vietnam (22 researchers including Le Van Thang, Tran Thi Tu, and Truong Van Tuyen from IREB, 10 from Hue University, 3 invited researchers, 3 local government officers, 1 from HEPCO, and 2 from Vietnam TV). This events was broadcasted on Vietnam TV



The workshop was held at Institute of Resources, Environment and Biotechnology-Hue University



Main participants



Opening address by Prof. Fujiwara



Vietnam TV broadcasted our workshop



Dr. Le Van Thang hosted our workshop



Registration



Presentation by Assoc. Prof. Maeda



Presentation by Prof. Chikamori



Presentation by Mr. Miyamoto (Master student)



Presentation by Ms. Van from IREB



Presentation by Mr. Huy from Hue University of
Agriculture and Forestry



Party after the workshop

2.3 Field tour (12 November)

2.3.1 Visit to a livestock farmer near the water supply in Hue

We visited a farmer house for pigs and banana fields. He own 20 pig and 100 chickens, the number of which was smaller because of a rainy season than usual. We interviewed him about fertilizer use, livestock feed, etc.



Pig and chicken livestock farmer



Animal feed was produced by heating leftover
foods collected from restaurants

2.3.2 Visit to a factory of Hue Foods in Hue

We visited a Japanese sake brewing company in Hue. We obtained the information from the company about sales and marketing for Sake and Shochu, raw materials and water resource, and wastewater treatment and waste management.



Interviews on sales management on Sake and Shochu in Vietnam



Tap water was treated with ion exchange resins to provide water for cleaning.



Wastewater treatment by anaerobic digestion and activated sludge