



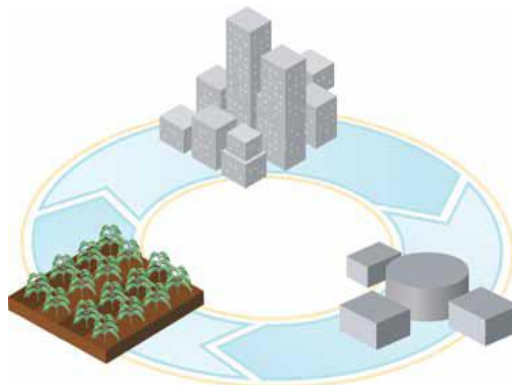
UNITED NATIONS
UNIVERSITY
UNU-INWEH



Safe and Productive Use of Wastewater in Agriculture 5th Regional Workshop, Southeast and Eastern Asia

Bali, Indonesia, 5 - 7 March 2013

PROGRAM



Organized by:



World Health
Organization



UNITED NATIONS
UNIVERSITY
UNU-INWEH





UNITED NATIONS
UNIVERSITY

UNU-INWEH



DAY I Tuesday, March 5, 2013

8:30-9:00 Registration

9:00-10:30 Session 1: Opening

9:00 – 9:20 Welcome and opening statements (Sharad Adhikary; WHO Indonesia, FAO Country Representative for Indonesia; Jens Liebe, UNW-DPC, Director General of Communicable Diseases, Ministry of Health Indonesia)

9:20 – 9:50 Introduction of participants and expectations

9:50 – 10:10 Overview of the Safe Use of Wastewater in Agriculture Project and scope of the 5th Regional Workshop (Jens Liebe, UNW-DPC)

10:10 – 10:30 Safe and productive use of wastewater in agriculture (Javier Mateo-Sagasta, FAO)

10:30 – 11:10 Group Photograph and Coffee/Tea

11:10 – 15:30 Session 2: Country Reports ¹

11:10 – 12:00 **Session 2a:** Country specific reports on the status of wastewater use and capacity needs (Indonesia, Cambodia, Lao PDR; Facilitator: Kate Medicott, WHO)

12:00 – 13:00 **Session 2b:** Country specific reports on the status of wastewater use and capacity needs (Vietnam, Mongolia, China; Facilitator: Jens Liebe, UNW-DPC)

13:00 – 14:00 Lunch

14:00 – 15:00 **Session 2c:** Country specific reports on the status of wastewater use and capacity needs (Timor-Leste, Philippines, Malaysia; Facilitator: Birguy Lamizana, UNEP)

15:00 – 15:30 Coffee/Tea

15:30 – 17:00 Session 3: National Strategies and Institutional Arrangements

15:30 – 16:00 National strategies for the use of poor-quality water resources in agriculture (Avinash Tyagi, ICID)

16:00 – 16:30 Institutional arrangements and collaboration at the national and regional level (Kate Medicott, WHO, on behalf of Manzoor Qadir, UNU-INWEH)

16:30 – 17:00 Discussion

18:30 – 21:30 Evening reception

¹ In sessions 2a, 2b and 2c each country representative is expected to present in 5 slides the following topics: 1- wastewater production and treatment, 2- use and disposal, 3- regulations and institutions, 4- research and development, 5- capacity needs (including knowledge and skills and institutional capacities). Each country will have 15 minutes to present. After each session there will be time for questions/comments and interactive discussion.



UNITED NATIONS
UNIVERSITY
UNU-INWEH



DAY II Wednesday, March 6, 2013

08:30 – 12:00 Session 4: Health, Food Production and Environment: Risk and Risk Mitigation

08:30 – 09:15 **Session 4a:** Three thematic presentations

1. Health risks and mitigation: guidelines for the safe use of wastewater in agriculture (Kate Medicott, WHO)
2. Environmental effects of wastewater use in agriculture and appropriate treatment technology for reuse (Birguy Lamizana, UNEP)
3. Maximizing productivity from wastewater: Irrigation, soil, and crop management strategies (Javier Mateo-Sagasta, FAO)

09:15 – 9:30 **Session 4b:** Indonesia case study – The Citarum Project. Wilfried Purba, Director of Environmental Health, Ministry of Health Indonesia

09:30 – 10:30 **Session 4c:** Roundtable discussions in the following breakout groups²

Group 1: Use of wastewater in agriculture: Health risks mitigation (Facilitators: Kate Medicott, WHO)

Group 2: Environmental effects of wastewater use in agriculture and appropriate treatment technology (Facilitator: Birguy Lamizana, UNEP)

10:30 – 11:00 Coffee/Tea

11:00 – 12:00 **Session 4d:** Presentations of working group results and discussion³ (Facilitator: Avinash Tyagi, ICID)

12:00 – 13:00 Lunch

13:30 – 19:00 Field visit: Location TBC

² In session 4c, countries will share experiences on specific topics and will try to answer: Which experiences do we have? Which success stories do we know? How could we help each other?

³ In session 4d, a representative of each group will present the key highlights from round tables (10 minutes/group) for discussion in plenary



UNITED NATIONS
UNIVERSITY

UNU-INWEH



DAY III Thursday, March 7, 2013

08:30 – 12: 00 **Session 5: Economics and Institutional Arrangements**

08:30 – 08:45 **Session 5a:** Economic aspects

Economic challenges of wastewater treatment and use in agriculture (Javier Mateo-Sagasta, FAO)

08:45 – 09:15 **Session 5b:** Two National Case Studies

- Philippines - Raul Alambam, PhilRice
- China - Zhang Keqiang, Institute of Agro-environmental protection, Chinese Academy of Agricultural Sciences

09:15 – 10:30 **Session 5c:** Roundtable discussions on country specific situations in the following breakout groups⁴

Group 1: Economic aspects and feasibility of wastewater treatment and reuse (Facilitator: Javier Mateo-Sagasta, FAO)

Group 2: Policy and institutional issues related to wastewater management (Facilitator: Avinash Tyagi, ICID)

10:30 – 11:00 **Coffee/Tea**

11:00 – 12:00 **Session 5d:** Presentations of working group results and discussion⁵ (Facilitator: Avinash Tyagi, ICID)

12:00 – 13:30 **Lunch**

13:30 – 15:45 **Session 6: Capacity Needs and National Strategies**

13:30 – 13:45 **Session 6a:** Capacity needs and national strategies (Jens Liebe, UNW-DPC)

13:45 – 15:00 **Session 6b:** Roundtable discussions on country specific situations focusing on priorities for National Strategies and Capacity Development in the following breakout groups⁶

Group 1: Cambodia, Lao PDR, Vietnam (Facilitator: Kate Medicott, WHO)

Group 2: Philippines, Mongolia, China (Facilitator: Javier Mateo-Sagasta, FAO)

Group 3: Indonesia, Timor-Leste, Thailand, Malaysia (Facilitator: Jens Liebe, UNW-DPC)

15:15 – 15:30 **Coffee/Tea**

15:30 – 16:15 **Session 6c:** Presentations of working group results and discussion (Facilitator: Birguy Lamizana, UNEP)

16:15 – 17:00 **Session 7: Wrap-up and Concluding Remarks**

Workshop expectations and beyond (Facilitator: Jens Liebe, UNW-DPC)

Synthesis and concluding remarks (WHO)

⁴ In session 5c, countries will share experiences on specific topics and will try to answer: Which experiences do we have? Which success stories do we know? How could we help each other?

⁵ In session 5d and 6c, a representative of each group will present the key highlights from round tables (10 minutes/group) for discussion in plenary

⁶ In session 6b, countries will refine capacity development requirements as well as discuss institutional arrangements and national strategies for safe use of wastewater.