

**International Expert Consultation on Wastewater Irrigation
Consumer health risk assessment, on-farm and off-farm options for health
risk mitigation, and participatory wastewater governance
in low-income countries**

Program

Monday, 06.10.2008

08:00-09:00	Registration
09:00-09:10	Welcome (Akica Bahri, IWMI)
09:10-09:25	Self-introductions of participants
09:25-09:45	Objectives of the consultation (P. Drechsel)
09:45-10:20	Group photograph and Coffee break

Session 1 Risk Assessments

Chairs: Jeff LeJeune (morning), Blanca Jimenez (afternoon); Challenges recording: R. Abaidoo

10:20-10:25	Setting the scene
10:25-10:50	Risk analysis and epidemiology: the basis of the 2006 WHO guidelines (D. Mara)
10:50-11:15	Effective microbial health risk assessments for wastewater irrigation: balancing pragmatism and precision (A. Hamilton)
11:15-11:40	Dose response curve for helminth eggs applied to wastewater irrigation and sludge application (B. Jimenez)
11:40-12:20	<i>Discussion of key lessons and research challenges</i>
12:30-14:00	Lunch
14:00-14:25	Risk assessment in Vietnam (A. Dalgaarts & J. Ensink)
14:25-14:50	Assessing food safety in produce production and processing at the US-Mexico border (C. Moe)
14:50-15:15	Risks assessment of faecal sludge use in Ghana (R. Seidu & T.A. Stenstroem)
15:15-15:50	<i>Discussion of key lessons and research challenges</i>
15:50-16:20	Coffee Break
16:20-16:45	Qualitative health risk assessment for farmers and its potential use for consumers – experiences from Jordan (S. Dalahmeh)
16:45-17:10	From QMRA to municipal decision support: Looking beyond food safety (P. van der Steen & P. Drechsel)
17:10-17:45	<i>Discussion of key lessons and research challenges</i>

Tuesday, 07.10.2008

Session 2: Risk mitigation (multiple barriers for low-cost health risk reduction)

Chair: Modeste Kinane; Challenges recording: T.A. Stenstroem

08:00-08:05	Setting the scene
08:05-08:25	What is a tolerable risk? Implications for wastewater treatment (D. Mara)
08:25-08:45	Testing multiple risk barriers on- and off-farm in Ghana (B. Keraita & P. Amoah)
08:45-09:05	Experiences with multi-barriers at Nouakchott, Mauritania (G. Cisse & B. Kone)
09:05-09:25	Testing multiple barriers in Dakar, Senegal (S. Niang)
09:25-10:00	<i>Discussion of key lessons and research challenges</i>
10:00-10:25	Coffee Break
10:25-10:45	Exploring health risk barriers in Hyderabad, India (P. Amerasinghe & F. Ruiz)
10:45-11:05	Planned/unplanned wastewater treatment in Hyderabad and Faisalabad (J. Ensink)
11:05-11:25	Pathogen reduction in natural treatment systems (K. Nelson)
11:25-11:45	Enhanced natural treatment systems and on-farm options (D. Kone)
11:45-12:30	<i>Discussion of key lessons and research challenges</i>
12:30-14:00	Lunch

Session 3: Participatory Wastewater Governance: Refocusing 'treatment' to 'safe reuse'

Chair: Akica Bahri; Challenges recording: M. Redwood

14:00-14:05	Setting the scene
14:05-14:30	Wastewater Governance: A Challenge for Environmental Engineers (F. Huibers, M. Redwood, L. Raschid-Sally)
14:30-14:55	Perceptions of wastewater compared: Users and institutions for beneficial water reuse (C. Scott)
14:55-15:30	<i>Discussion of key lessons and research challenges</i>
15:30-16:00	Coffee Break
15:50-16:20	Evaluating and designing sanitation infrastructure for multiple services (A. Murray)
16:20-16:45	Engineered wastewater for reuse - Durban experience (C. Buckley)
16:45-17:10	<i>Discussion of key lessons and research challenges</i>
17:10-17:40	Introduction to Field Trip (P. Drechsel)

Wednesday, 08.10.2008

Field Trip in Accra: Challenges of sanitation and wastewater irrigation

8:15 – 17:30	Urban sanitation challenges and wastewater irrigated urban agriculture in Accra
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Thursday, 09.10.2008

Session 4: From Research to Intervention to Impact (Opportunities in and for Ghana)

Chair: Mark Redwood; Challenges recording: Liqa Raschid-Sally

08:00-08:15	Setting the scene: A roadmap towards impact (P. Drechsel)
08:15-08:35	Projected health impact and cost-effectiveness (R. Seidu, P. Drechsel)
08:35-09:00	Targeting Behavior Change (H. Karg, P. Drechsel, P. Amoah)
09:00-09:20	Willingness to pay for safer vegetables (M. Kinane)
09:20-10:00	<i>Discussion of key lessons and R&D challenges</i>
10:00-10:30	Coffee Break
10:30-10:50	Analyzing health impact (P. Amerasinghe and R. Seidu)
10:50-11:10	Options for economic impact assessments (M. Tiongco and C. Narrod)
11:10-11:30	<i>Discussion of key lessons and challenges</i>
11:30-11:50	Invitation to collaborate in the "Ghana International Environmental Health Research and Training Platform" to address jointly identified research & implementation challenges (R. Abaidoo, C. Moe, F. Konradsen, P. Drechsel)
11:50-12:30	<i>Discussion on the Platform and planned Earthscan book</i>
12:30-14:00	Lunch

Session 5: Drafting of joint research ideas for follow up and consensus on identified challenges

Chair: Chris Scott

14:00-16:00	Working groups (Coffee available)
16:00-17:00	Group results, wrap up and Consensus drafting
17:00-17:15	Closure