

Appropriate Fecal Sludge Management for Sustainable Decentralized Wastewater Management

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Venue : Webinar via Zoom



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In any decentralized wastewater treatment system such as septic tanks or Johkasou, fecal sludge is also always generated through the process of treating wastewater. This means wastewater management requires fecal sludge management (including the collection, treatment, disposal, reuse, etc. associated with wastewater management), as two sides of the same coin. In addition, wastewater management and fecal sludge management (FSM) cannot be implemented without an appropriate legal framework which can set up a fee collection system, incentives for private companies, a monitoring system, operation and maintenance system, or other measures.

However, it is particularly difficult to install a reasonable tariff mechanism in some countries because of economical reason (for household accounting), or existing habits (in addition to the low willingness to pay for wastewater or FSM). Therefore, is it not one of the most appropriate options to consider wastewater management and FSM as public works projects to be implemented under the responsibility of the central / local governments (administrators), to achieve sustainability?

PROGRAM

Moderator : **Dr. Pierre Flamand**, Manager - international affairs, Japan Sanitation Consortium

Opening Remarks	Mr. Yasuo Yamamoto Director, Office for Promotion of Johkasou, Waste Management Division, Environmental Regeneration and Material Cycles Bureau, MOEJ
Keynote	Mr. Kazushi Hashimoto Adviser, Japan Sanitation Consortium
Session A: Sustainable Decentralized Wastewater Management	
In this session, Ms. Owada will introduce a case study from Japan in which decentralized domestic wastewater treatment systems are sometimes installed as public works projects similarly to sewerage system, and Dr. Fan Bin will share the information on Johkasou projects adopting a PPP (Public Private Partnership) scheme in China.	
A-1	Development of Decentralized Wastewater Treatment Facilities as Public Works ~ Case Study from Japan ~ Ms. Rio Owada , Section Chief, Office for Promotion of Johkasou, Waste Management Division, Environmental Regeneration and Material Cycles Bureau, MOEJ
A-2	Applying a PPP Scheme to a Johkasou Installation Project in Changshu City ~ Case study from China ~ Dr. Fan Bin Professor, Vice Director, State Key Laboratory of Environmental Aquatic Chemistry, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, University of Chinese Academy of Sciences
Session B: Sustainable Fecal Sludge Management	
Through case studies from Southeast Asia and India will be reviewed the current situation in a real context of fecal sludge management (FSM) in developing countries, and considered what should be prioritized or what kind of technologies are required to achieve sustainable FSM.	
B-1	Toward the Establishment of Sustainable Faecal Sludge Management ~Lessons Learned from WEPA Partner Countries and Japan~ Dr. Pham Ngoc Bao Deputy Director, Adaptation and Water, Institute for Global Environmental Strategies (IGES)
B-2	Fecal Sludge Management Business Models in India Mr. Krishna C. Rao Advisor Program and Management, WASH Institute

KEY PERSONS



Mr. Kazushi Hashimoto
Adviser, Japan Sanitation Consortium (JSC)

Mr. Kazushi Hashimoto, a graduate of Faculty of Law, Tokyo University, joined the Overseas Economic Cooperation Fund (OECF), an implementing body of Japan's official development assistance. Mr. Hashimoto used to be in charge of Japan's ODA Loan operation, as Director General of OECF, then JBIC, now JICA. After retiring JICA in 2009, he joined Yachiyo Engineering Company and also took the position of the Councilor, Japan Water Forum, the Advisor to Japan Sanitation Consortium (JSC) and the Consultant to Asian Development Bank Institute (ADBI). Recently, Mr. Hashimoto is active for advocating institutional framework for better sanitation management.



Dr. Fan Bin
Professor, Vice Director, State Key Laboratory of Environmental Aquatic Chemistry, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, University of Chinese Academy of Sciences

Fan bin, Dr.-Ing., Professor, Research center for Eco-environmental Sciences, Chinese Academy of Sciences/ University of the Chinese Academy of Sciences, focuses his research interests on rural environmental sanitation. In 2009-2015, With cooperation of Changshu municipal government and CRRC, he directed and promoted the establishment of Changshu model, prefectural management as a whole for the rural wastewater treatment, which was then widely applied in the country by the Ministry of Housing and Urban-Rural development. Now he is devoting in resources-oriented sanitation and have advanced several engineering solutions of modern home-farm cycle sanitation. In 2005-2007, He served as a special researcher of the Japan Society for the Promotion of Science (JSPS) at the National Institute of Environmental Studies (NIES) of Japan. He won the award of the 6th GCE of the Bill-Melinda Gates Foundation in 2011. He has served as a toilet revolution adviser of the Ministry of Agriculture and Rural Areas of China since 2019.



Dr. Pham Ngoc Bao
Deputy Director, Adaptation and Water, Institute for Global Environmental Strategies (IGES)

Dr. Pham Ngoc Bao obtained his Ph.D Degree from The University of Tokyo in Japan in the field of Environmental Engineering and Management. He has more than 15 years of professional experience in conducting, managing and leading international policy-oriented research and capacity building projects in Asia, especially related to water supply & sanitation, decentralized wastewater treatment & management, septage management in Southeast Asia, resource conservation and recycling, and marine plastics pollution.

Dr. Bao is currently serving as Deputy Director at IGES, leading a number of international initiatives/projects funded by various international development partners and donor agencies such as JICA, UNEP, UNESCO, and World Bank



Mr. Krishna C. Rao
Advisor Program and Management, Water Sanitation and Hygiene (WASH) Institute, India

Krishna Chaitanya Rao is a trained development expert with an academic background in international development and non-profit management and bachelors in chemical engineering. Krishna has more than 20 years of experience working in developing countries in Asia, Africa and Latin America. Since last 10 years, Krishna is assisting governments, donors, NGOs and private sector in sanitation provision such as fecal sludge management (FSM) and solid and liquid waste management incorporating reuse. Krishna has developed various business models for agro & domestic waste and tested them for feasibility in multiple cities in developing countries. Krishna has worked with national and state governments in South Asia and select African countries to improve sanitation and setting up of fecal sludge treatment plants. Krishna has been part of teams to develop national policies and guidelines on sanitation and promoting reuse.



Dr. Pierre Flamand
Manager - international affairs, Japan Sanitation Consortium (JSC)

Pierre is the Manager of International Affairs at the Japan Sanitation Consortium (JSC), the Asia-Pacific Water Forum's Knowledge Hub for sanitation. He has over 15 years of experience in sanitation, with particular focus on fecal sludge management. Since joining JSC in 2009, he has been involved in sanitation projects in Viet Nam, Malaysia and Bhutan. He is the co-author of 'Sanitation and Sustainable Development in Japan' (2016). Since 2015, he has been involved in several Working Groups of ISO/TC 224 as an expert representing Japan for the creation of standards on on-site domestic wastewater systems and stormwater management in urban areas. He has in-depth knowledge on how the country has solved the severe sanitation issues in the 1960s, including the role played by the government in the enactment of policies, guidelines, and legal instruments for wastewater management.

Pierre holds a doctoral degree in regional development studies and is also a visiting researcher at Toyo University in Japan.

SECRETARIAT CONTACT

Japan Education Center of Environmental Sanitation (JECES) is a secretariat of this Workshop. If you have any questions in advance, please contact Secretariat (shirakawa@jeces.or.jp) via email.



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