環境省
Ministry of the Environment

MINISTRY OF THE ENVIRONMENT, GOVERNMENT OF JAPAN

14th International Workshop on Decentralized Domestic Wastewater Treatment in Asia

Current Status and Importance of Desludging for Decentralized Domestic Wastewater Treatment System

DATE & TIME

Monday

9 November 2026

13:00 – 17:00 (Japan Standard Time)

VENUE & LANGUAGE

Hybrid — on-site & Zoom Webinar

Japan Education Center of Environmental Sanitation (JECES)

2-23-3 Kikukawa, Sumida-ku, Tokyo 130-0024

English & Japanese simultaneous interpretation

REGISTRATION (FREE)

Scan the code, or open the registration form (Google Forms)

The Webinar link will be sent by e-mail after registration.

THE SANITATION VALUE CHAIN *desludging is the link that keeps the whole chain working*

ODWS Installation & Use → Wastewater Storage & Treatment → Sludge Storage → **DESLUDGING** → Collection & Transport → Treatment, Disposal & Reuse

Installing a Decentralized Domestic Wastewater Treatment System (Referred to as "On-site Domestic Wastewater Systems, ODWS" in ISO; abbreviated as ODWS below) is not enough — only continuous and appropriate operation and maintenance lets a Johkasou or a septic tank deliver its intended performance. Desludging keeps the facility working and links it to sludge collection, transport, treatment and disposal within the Sanitation Value Chain. In many countries sludge is removed only on demand, and often not at the right time. This workshop shares institutional frameworks, current practices, service delivery models and occupational health and safety measures for desludging in Japan and across Asia.

PROGRAMME

Moderator Dr. Pierre Flamand, Manager – International Affairs, Japan Sanitation Consortium (JSC)

13:00	**Opening Remarks** Mr. Masashi Taketani, Director, Johkasou Promotion Office, Ministry of the Environment, Japan
13:05	**Keynote Speech 1 — Desludging Challenges: Practices, Reasons, and Impacts in Asian countries** Dr. Hidenori Harada, Associate Professor, Graduate School of Asian and African Area Studies, Kyoto University
13:25	**Keynote Speech 2 — Johkasou Desludging in Japan** Dr. Takao Okashiro, Director, Okashiro Professional Engineer Office
Presentation Session — Status of Desludging of ODWS in Asian Countries	
13:45	**Septage Management in Malaysia** Mr. Mohd. Roslee Bin Mahyudin, Director, Licensing and Tariff Section, Economic Division, SPAN
14:00	**Desludging in Indonesia: Bridging Service Gaps Towards Sustainable Sanitation** Dr. Dyah Wulandari Putri, Assistant Professor, Faculty of Civil and Environmental Engineering, Institut Teknologi Bandung (ITB)
14:15	**Q & A | 14:30 Break**
14:45	**Desludging of On-site Domestic Wastewater Treatment Facilities in China** Dr. Min Yang, Professor, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
15:00	**Desludging in Thailand: Current Status, Service Chain, and Challenges for Decentralized Wastewater Treatment** Ms. Aunchalee Tannil, Senior Professional Environmentalist, Department of Climate Change and Environment (DCCE)
15:15	**Desludging Practices in Urban Areas in India** Dr. Snehalatha Mekala, Associate Professor, Administrative Staff College of India
15:30	**Q & A | 15:45 Break**

Panel Discussion 16:05 – 16:55

Panelists : The two keynote speakers, the five presenters from overseas and Mr. Shuichiro Nakayama, MOEJ (8 panelists)

Moderators : Dr. Mari Asami, Wako Branch for Drinking Water Quality Research, National Institute for Environmental Studies | Dr. Pierre Flamand, JSC

Themes : How can occupational health and safety risks for desludging workers be reduced? • How should the appropriate timing and frequency of desludging be determined? • What challenges emerge from the status of desludging in each country?

16:55	**Closing Remarks** Mr. Shuichiro Nakayama, Section Chief, Johkasou Promotion Office, Ministry of the Environment, Japan

SPEAKERS & MODERATORS

Dr. Hidenori Harada KEYNOTE SPEAKER 1

Associate Professor, Graduate School of Asian and African Area Studies, Kyoto University, Japan

Hidenori Harada is an Associate Professor at the Graduate School of Asian and African Area Studies, Kyoto University, where he also earned his master's and doctoral degrees in global environmental studies. Specialising in field-based water, sanitation and hygiene (WASH) research, his core topics include fecal sludge management, participatory action research, pathogen exposure, greenhouse gas emissions from onsite sanitation, resource-oriented sanitation and material flow analysis. He contributes globally as a member of the WHO/UNICEF JMP and UN-Water GLAAS strategic advisory groups, serves on the management committee of the IWA Specialized Group on Resources Oriented Sanitation, and acts as an expert for the ISO/TC 224 National Task Force for Sewerage.

Dr. Takao Okashiro KEYNOTE SPEAKER 2

Director, Okashiro Professional Engineer Office, Japan

Dr. Okashiro is the Director of the Okashiro Professional Engineer Office. He serves as a director and adviser to Johkasou-related organizations and as technical adviser to Johkasou service companies, providing staff training and on-site technical guidance, and has published numerous papers, particularly on the troubleshooting of on-site domestic wastewater treatment systems. In sludge management he developed and promoted the Johkasou sludge thickening vehicle, which reduces sludge volume and improves the efficiency of collection and transport; he also established a sludge composting facility and brought sludge carbonization equipment into practical use. His work thus spans the whole desludging chain, from collection and transport through to treatment and reuse.

Mr. Mohd Roslee Bin Mahyudin MALAYSIA

Director, Licensing and Tariff Section, Economic Division, National Water Services Commission (SPAN)

Mohd Roslee serves as Director of the Licensing and Tariff Section, Economic Division, at the National Water Services Commission (SPAN), Malaysia. In 14 years with SPAN he has worked on the development of standards, technical specifications and guidelines for water and sewerage systems, on performance assessment and business plan review of water supply and sewerage service operators, and on the review of water and sewerage tariffs for Peninsular Malaysia and the Federal Territory of Labuan. He holds a Bachelor of Environmental Technology (Hons) from Universiti Sains Malaysia, and previously worked at Indah Water Konsortium and as an environmental consultant. He spoke at the 5th and 6th Workshops in this series.

Dr. Dyah Wulandari Putri INDONESIA

Assistant Professor, Faculty of Civil and Environmental Engineering, Institut Teknologi Bandung (ITB)

Dr. Dyah Wulandari Putri is an Assistant Professor in the Water and Wastewater Engineering Research Group, Faculty of Civil and Environmental Engineering, Institut Teknologi Bandung (ITB), Indonesia, and heads the Study Program of Environmental Engineering Infrastructure and the Master's Program of Water Supply and Sanitation Infrastructure Management. With more than 10 years of experience in research, teaching and consultancy, she specialises in sanitation systems, domestic wastewater treatment, faecal sludge management and treatment, domestic water reuse and resource recovery, particularly in urban, river and coastal, and emergency settings.

Dr. Min Yang CHINA

Professor, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

Dr. Min Yang is Professor at the Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, and Director of the National Engineering Research Center of Industrial Wastewater Detoxication and Resource Recovery. A recipient of the National Science Fund for Distinguished Young Scholars, he has dedicated his career to water quality risk identification and control, achieving technological breakthroughs in the identification and management of odour-causing compounds in drinking water and in the environmental transmission of bacterial resistance. His work has supported the development and revision of national, industry and international standards, and has been recognised by the National Science and Technology Progress Award and the TWAS Regional Award for Science Diplomacy.

Ms. Aunchalee Tannil THAILAND

Senior Professional Environmentalist, Department of Climate Change and Environment (DCCE)

Ms. Aunchalee Tannil is a Senior Professional Environmentalist and mitigation researcher at Thailand's Department of Climate Change and Environment (DCCE), with experience in environmental management, climate change mitigation, greenhouse gas measurement and environmental monitoring. Her work focuses on practical approaches to sustainable sanitation and sludge management, including assessment of environmental impacts, greenhouse gas emissions, resource recovery and opportunities for low-carbon treatment systems. She has expertise in laboratory-based environmental monitoring, MRV systems, QA/QC and international standards including ISO/IEC 17025 and ISO 14064, and her research interests include sludge-to-resource pathways, circular economy approaches and life-cycle assessment.

Dr. Snehalatha Mekala INDIA

Associate Professor, Administrative Staff College of India (ASCI)

Dr. Snehalatha Mekala is an Associate Professor at the Administrative Staff College of India (ASCI), with over 24 years of experience in WASH research and policy. She leads ASCI's Inclusive Sanitation portfolio, covering faecal sludge and septage management (FSSM), decentralized sewage treatment plants and treated wastewater reuse. She has driven City Wide Inclusive Sanitation implementation across Andhra Pradesh and Telangana, anchoring monitoring frameworks, gender and social inclusion, and sanitation worker safety, and has hosted international trainings for civil servants from Nepal, Bangladesh and Cambodia. She develops policy briefs and guidelines for state and national governments, and has published over 30 journal articles and papers.

Dr. Mari Asami PANEL MODERATOR

Head, Wako Branch for Drinking Water Quality Research, National Institute for Environmental Studies, Japan

Dr. Mari Asami is Head of the Wako Branch for Drinking Water Quality Research at the National Institute for Environmental Studies. She completed her master's degree at the Graduate School of Engineering, the University of Tokyo, in 1993 and holds a Doctor of Engineering. She served as a deputy director at the Ministry of Health, Labour and Welfare and, while working at the National Institute of Public Health, as a visiting professor at RECWET, the University of Tokyo. She has been a member of the WHO Working Group on Chemical Substances for the Guidelines for Drinking-water Quality and helped translate the WHO Sanitation Safety Planning guidelines. Her research has covered Johkasou, toilets, and water supply and sanitation in small villages.

Dr. Pierre Flamand MODERATOR

Manager – International Affairs, Japan Sanitation Consortium (JSC), Japan

Dr. Pierre Flamand is the Manager of International Affairs at the Japan Sanitation Consortium (JSC). He has over 20 years of experience in sanitation, with a 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 co-author of Sanitation and Sustainable Development in Japan (ADB 2016) and Accountability Mechanisms for Inclusive City-Level Public Services in Asia (ADBI 2023). Since 2015 he has taken part in several ISO/TC 224 Working Groups as an expert representing Japan. He holds a doctoral degree in regional development studies and is a visiting researcher at Toyo University.

SECRETARIAT

Japan Education Center of Environmental Sanitation (JECES) serves as the secretariat of this Workshop. For any question in advance, please contact the Secretariat at shirakawa@jeces.or.jp.