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23 JUNE 2021 Wednesday 
9.00 am - 11.30 am (Malaysia Time)

8.00 am - 10.30 am (Thailand Time)

10.00 am - 12.30 pm (Japan Time)

Webinar on Sediment Related Issues for Sustainable Reservoir Management

Moderated by:

ASSOC. PROF. DR. SHAMSUDDIN SHAHID

Department of Water and Environmental Engineering, School of
Civil Engineering, Faculty of Engineering, Universiti Teknologi
Malaysia (UTM) Johor



Speakers:



“Sediment Management for
Sustainable Reservoirs:
Experiences from Japan and
Southeast Asia”

**PROF. DR. TETSUYA
SUMI**

Water Resources Research
Centre,
Disaster Prevention Research
Institute,
Kyoto University, Japan.



“ Climate Change and Water
Availability”

**PROF. DR. SOBRI
HARUN**

Department of Water and
Environmental Engineering,
School of Civil Engineering,
Faculty of Engineering,
Universiti Teknologi Malaysia
(UTM) Johor



“Reservoir Sedimentation
Issues: The Issues Faced”

**IR. ENGGU AHMAD
KHALIL AZHAR
ENGGU MOHAMED**

Design and Dam
Division, Department of Irrigation
and Drainage Malaysia (JPS)



“Dealing with Sediment: Effects
on Dams and Hydropower
Generation”

**IR. DR. JANSEN
LUIS ALEXANDER**

Engineering Services, TNB
Power Generation Sdn. Bhd.

For more information, please contact us at:

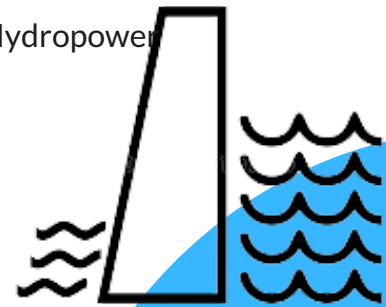
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https://zoom.us/webinar/register/WN_aZuxgUpUQuuYqapcQLn5uA

PROGRAM TENTATIVE

23 JUNE 2021 | WEDNESDAY

9.00-9.10 am	Assoc. Prof. Dr. Shohei Matsuura Welcoming Speech
9.10-9.50 am	Prof. Dr. Tetsuya Sumi Sediment Management for Sustainable Reservoirs: Experiences from Japan and Southeast Asia
9.50-10.10 am	Prof. Dr. Sobri Harun, Climate Change and Water Availability
10.10-10.30 am	Ir. Engku Ahmad Khalil Azhar, Reservoir Sedimentation Issues: The Issues Faced
10.30-10.50 am	Ir. Dr. Jansen Luis Alexander, Dealing with Sediment: Effects on Dams and Hydropower Generation
10.50-11.00 am	Break
11.00-11.30 am	Forum / Panel Discussion



SPEAKER'S EXPERTISE

PROF. DR. TETSUYA SUMI

Asset Management of Dams, Reservoir Sediment Management, Riverbed Management, IWRM in Trans-Boundary River Basins, Flood Control Operation of Dams, Climate Change Impacts on Dam Control

PROF. DR. SOBRI HARUN

Hydrological Modelling, Reservoir Management, Water Resources Management, Flood Forecasting, Climate Change and River Engineering

IR. ENSKU AHMAD KHALIL AZHAR ENSKU MOHAMED

Dam Design, Safety Inspection and Surveillance

IR. DR. JANSEN LUIS ALEXANDER

Dam Surveillance, Integrity and Safety Assessment, Reservoir Sediment Management, Project Management, Contract Management.

INTRODUCTION

True technical facts: Dams have a variety of functions. Thanks to hydroelectricity, they are at the forefront of our renewable energy resources. Their reservoirs allow flood control, support for low water levels, irrigation and the development of recreational facilities. However, among operational problems related to reservoir sedimentation include intake chokage, loss of active and live storage for hydro-power generation, loss of flood storage and possibility of extra pressure on dam structures. From the ecosystem perspective, reservoir sedimentation directly affects the water quality status of the Reservoir and subsequently disturbing the ecosystem it supports.

The nation's dams and reservoirs help ensure the stability of water and energy supplies and flood risk management. However, reservoir storage capacity, essential to meeting these purposes, has been declining as reservoirs fill with clay, silt, sand, gravel, and cobble sediment, in a process known as reservoir sedimentation. Uncontrolled land use in the upstream, such as deforestation, will cause landslides to occur indirectly causing sedimentation in the reservoirs that significantly affect their lifespans. Thus, problems related to sedimentation must be solved to ensure the reservoir remains in operation through its designed lifetime.

In this webinar series, which is organized by MJIIT (MDRM program) in collaboration with IPASA, UTM and JASTIP, sustainable solutions to reservoir sediment management are presented by various dam experts.

AIMS

This webinar highlights and dwells in depth on topics including water quality and sedimentation issues associated with reservoir management and operation. It aims to discuss the issues observed through both research and field experience; mainly to act as a sharing platform by engaging stakeholders in government and academics in order to suggest better and sustainable solutions for reservoir management.

OBJECTIVES

- 1** Sharing of experiences from ASEAN countries including Malaysia and Japan by academic experts & local government on reservoir sedimentation management.
- 2** Discussing the current issues and gaps faced with regards to reservoir sedimentation.
- 3** Suggesting solutions and the way forward through knowledge sharing and transfer between government entities and academic researchers.