



ICDSME2025
PRE-WORKSHOP

DAM INSTRUMENTATION AND ANALYSIS

Will be held on

4 November 2025

8.00 am - 6.00 pm

Pullman Hotel, Sarawak



Workshop Fee

Malaysian Delegate:

- MyCOLD Member: RM 850
- Non MyCOLD Member: RM 950

International Delegate: RM 1,200

Workshop Description

Learn how to keep dams safe through effective monitoring and inspections. This course covers:

- ✓ Setting up monitoring systems
- ✓ Checking and understanding data
- ✓ Acting on unusual findings
- ✓ Regular inspections & reporting

Gain the skills to detect problems early and ensure dam safety.

ORGANIZED BY



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Our Social Media:     

Our Website: www.icdsme2025@mycold.com.my

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SPEAKER'S BIOGRAPHY



Ts. Mohd Hafiz bin Rosni
Senior Engineer,
TNB Power Generation Sdn. Bhd
(TNB Genco)

Ts. Mohd Hafiz bin Rosni is a civil engineer with over 13 years of experience at Tenaga Nasional Berhad (TNB) and holds a Bachelor's Degree in Civil Engineering (Concrete Structures) from UiTM. Currently serving as Senior Engineer in Dam Surveillance & Hydrology at TNB Power Generation Sdn. Bhd., he specializes in dam monitoring, instrumentation data analysis, deformation surveys, and bathymetric assessments. A Certified Dam Inspector (MYCOLD) and RIDM specialist, he has contributed to national dam safety initiatives including the NRECC "Flying Squad" for high-risk dam inspections. He is also active in MYCOLD as Vice President II of the Young Professional Forum (YPF-MYCOLD) and has authored technical papers presented at international conferences while serving as a trainer in dam safety programs.



Ir. Engku Ahmad Khalil Azhar bin Engku Mohamed
Assistant Director,
Design and Dam Division, Department Irrigation
and Drainage (DID)

Ir. Engku Ahmad Khalil Azhar Engku Mohamed is a Professional Engineer with the Department of Irrigation and Drainage (DID) Malaysia, where he has served since 2009. A civil engineering graduate from the University of Malaya and a registered Professional Engineer with the Board of Engineers Malaysia, he specializes in dam engineering, safety monitoring, and risk management. As a Certified Dam Safety Inspector and trainer, he has contributed to national capacity building by guiding engineers and dam operators in safety programs. His work focuses on strengthening dam safety through effective monitoring, instrumentation, and emergency preparedness, supporting DID's mission to safeguard Malaysia's critical water infrastructure.



Ir. Ts. Hafizul Fahmi bin Roslan
Senior Engineer,
TNB Power Generation Sdn. Bhd
(TNB Genco)

Ir. Ts. Hafizul Fahmi Bin Roslan is a Professional Engineer and Professional Technologist with over 12 years of experience in the power industry. He is a Senior Engineer at TNB Power Generation Sdn. Bhd. (GenCo), focusing on dam safety through surveillance, monitoring, and data analysis for hydropower dams. He has worked on major projects such as the Prai Power Plant and serves on PETRA's national "Flying Squad" for high-risk dam inspections. He is also an active member of BEM, IEM, MBOT, and MYCOLD.



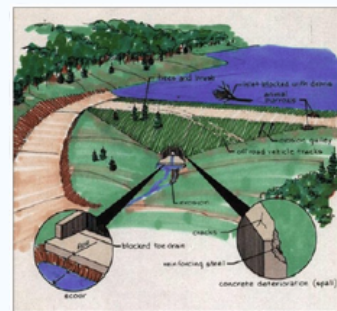
Dr. Ferdaus bin Ahmad
Director,
Jabatan Mineral dan Geosains (JMG),
Terengganu

Dr. Ferdaus bin Ahmad, Director of the Department of Mineral and Geoscience Malaysia (Terengganu), is a Professional Geologist with over 30 years of experience in engineering geology, slope stability, and hazard assessment. He has played key roles in national projects such as the Slope Hazard and Risk Mapping (PBRC) and Malaysia's Dam Safety Management Guidelines (MyDAMS). A Certified Dam Safety Inspector, he has inspected more than 65 large dams nationwide. He is also active as a journal editor, reviewer, lecturer, and speaker in national and international forums on dam safety and disaster risk reduction.

AGENDA

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| 8:00 am | Registration & Breakfast |
| 8:45 am | Introduction and Types of Dam Instrumentation <ul style="list-style-type: none"> • Importance of Dam Instrumentation • Types of Instruments • Application & Benefits |
| 10:45 am | Data Collection Methods, Monitoring Systems, Digitalization, and Future Trends (Upgrading & Rehabilitation) <ul style="list-style-type: none"> • Data Collection & Monitoring • Digital Transformation • Future Trends |
| 12:45 pm | Break & Lunch |
| 2:00 pm | Dam Instrumentation Data Analysis, Case Studies, and Challenges <ul style="list-style-type: none"> • Data Acquisition & Analysis • Future Challenges • Practical Applications |
| 4:00 pm | Geological Considerations in Dam Instrumentation & Monitoring <ul style="list-style-type: none"> • Geological Role in seismic activity • Instrumentation Integration • Case Applications • Expert Insights |
| 6:00 pm | End of Workshop |

*Free flow coffee & refreshments provided



WHO COULD BENEFIT FROM THIS COURSE?

- ✓ Government Agencies/Local Authorities
- ✓ C&S Consultant Engineers
- ✓ Design Engineers
- ✓ Site Supervisors
- ✓ Dam Owners
- ✓ Dam Operators
- ✓ Dam Safety Inspector



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