

KEYNOTE SPEAKERS



Mr. Amir Hamzah
Chief Executive Officer
Tenaga Nasional Berhad



Datu Sharbini Suhaili
Chief Executive Officer
Sarawak Energy Berhad



Mr. Tony Bennett
Co-Chair, ICOLD 2019
Director, Dam Safety and Public Safety
Ontario Power Generation (OPG)



Prof. Pierre Y. Julien
Professor
Department of Civil Engineering
Colorado State University



Dato' Ir. Hj. Abdullah Bin Isnin
Director General
Department of Irrigation and
Drainage Malaysia



Mr. Michael F. Rogers
President, International Commission
on Large Dams (ICOLD/CIGB)
Stantec, Global Dams Practice Leader



Dr. Dong Hoon Shin
Director General
Infrastructure Safety Research Centre
K-water Institute



Mr. Devendra Kumar Sharma
President, Committee for International
Commission on Large Dams, India (INCOLD)

IMPORTANT DATES

15 August 2019 - Full Paper Submission | 30 September 2019 - Camera Ready
30 August 2019 - Paper Acceptance Notification | 15 October 2019 - Early Bird Registration

Accepted articles will be published in SCOPUS/ISI Indexed journal/proceeding.

Website
<http://icdsme2019.mycold.mncold.org.my/>
For further information
secretariat@mncold.org.my

TECHNICAL VISIT & CULTURAL TOUR

Mengkuang Dam

- Largest dam in Penang and was opened in 1985.
- Located in Seberang Perai Tengah, Bukit Mertajam and approximately 28 km from Butterworth.
- Has an area of 3.9km square and accommodate the water reservoir of 23.6 billion liters at present.



Ahning Dam

- It was built in 1985 and was completed in 1989 by the Public Works Department.
- It has a storage capacity of 275 million cubic meters and covered an area of 12 sq. km.
- The main purpose of the dam was to supply water for domestic and industrial uses.



Temengor Dam

- The uppermost project of the Sungai Perak cascade dam and was constructed from 1974-1978.
- The power station has 4 Francis type turbine of 87 MW installed capacity and the average annual energy generation of 900GWh.
- Temengor power station is the fourth largest TNB hydroelectric generation facility with installed capacity of 348 MW, only fourth to the Pergau Dam (600 MW), Kenyir Dam (400 MW) and Ulu Jelai Power Station (372 MW).
- Since 1987, Temengor has been unmanned and is remotely operated via a SCADA system at the Bersia Group Control Centre.



International Conference on Dam Safety Management and Engineering (ICDSME2019)

Resilient Dams for Safe Communities

19 - 21 NOVEMBER 2019
TOP KOMTAR, PENANG, MALAYSIA

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INTRODUCTION

The Malaysian National Committee on Large Dam (MYCOLD) together with Tenaga Nasional Berhad, Department of Irrigation and Drainage and Universiti Tenaga Nasional will be the main organizer for first international conference on Dam Safety Management and Engineering (ICDSME).

MYCOLD is a non-governmental organisation and the ICOLD representative for Malaysia which provides a forum for the exchange of knowledge and the experience in dam engineering. MYCOLD leads the profession and encourage advances in the planning, design, construction, operation, and maintenance of large dams and their associated civil works, by collecting and disseminating relevant information and by studying related technical questions to ensure dams are built and operated safely, efficiently, economically and are environmentally sustainable and socially equitable.

The ICDSME aims to meet this challenge by inviting and bring together dam professionals and experts in the various inter-related disciplines from around the world to discuss, reflect and share technology and experience in addressing dam safety issues and strategies to address them. The ICDSME will be held in November 2019 at Penang, Malaysia and expected 500 presenters and participants from all over the world will attend the conference.

CONFERENCE OBJECTIVES

1. To bring together dam professionals and experts around the world to discuss, reflect and share their experience in addressing dam safety issues.
2. To enhance understanding of complex issues in dam safety
3. To expose local professional, scientists, researchers, NGO's to state-of-the-art in dam safety
4. To gather professionals for exchanging ideas and experiences, keep abreast with current techniques and new innovative developments in dam safety.
5. To enhance networking with related international bodies and showcase Malaysia's R&D outputs in dam safety.

ORGANISING COMMITTEE

Advisor : Chief Executive Officer, Tenaga Nasional Berhad
Director General, Department of Irrigation and Drainage Malaysia

Chairman : Datin Prof. Ir. Dr. Lariyah Mohd Sidek

Co Chairman : Dato' Ir Mohd Azmi Ismail

Deputy Chairman : Tn Hj. Mohd Khanil Taib
Tn Hj. Mat Supri Kasa

Secretary : Ir Hidayah Basri

Co Secretary : Pn Azwin Zailti Abdul Razad
Aminah Shakirah Jaafar

REGISTRATION FEES

	Early Bird	Normal
MYCOLD Member	RM1650	RM1800
Non-MYCOLD Member	RM1850	RM2000
Foreign participant	RM2050	RM2200
Student	RM1050	RM1200
Accompanying person	RM1350	RM1500
Technical Tour	TBA	TBA

ABOUT PENANG

Penang is a state in northwest Malaysia comprising mainland Seberang Perai and Penang Island. On the island, the state capital of George Town is home to landmarks such as colonial Fort Cornwallis, the ornate Chinese clan house Khoo Kongsi and the Kapitan Keling Mosque, all testaments to centuries of foreign influence. To the west, a funicular ascends Penang Hill, with its trails, flower gardens and panoramic views.

CONFERENCE THEMES

International Best Practices in Dam Safety

- Legislation and regulatory framework
- Technical rules, guidelines and best practices
- Portfolio management
- Integrated flood risk management risk governance
- Human resources and capacity building
- Technological needs
- Integration of policies, people and processes
- Management and Governance

Sustainable Dam and Reservoir Management

- Water resources management challenges
- Water quality and ecology
- Optimization of reservoir operation and integrated reservoir management
- Assessment and management of reservoir sedimentation
- Social and environmental impact assessment and management

Dam Health Monitoring, Data Acquisition and Processing

- Hydro-meteorological and seismic systems
- Geotechnical, structural, hydro-mechanical and communication systems
- Real-time performance monitoring and analysis of data Instrumentation for earthquake hazard assessment
- Surveillance and monitoring by latest technologies (Satellite, terrestrial radar, laser based technologies)
- Recent advances in dam health investigations
- Acquisition, effective analysis and usability of monitoring data
- Data processing: Design, construction and operation
- Dam safety intelligence

Operation, Maintenance and Emergency Management

- Operating rules
- Maintenance procedures
- Cost benefit analysis of O&M
- Resources and capacity building for O&M
- Disaster and emergency management (prevention, preparedness, response and recovery)
- Cost-benefit analysis of emergency management
- Resources and capacity building for emergency management
- Integration of operation, maintenance and emergency management

Safety Reviews and Risk Assessment

- Comprehensive dam safety reviews
- Dam safety standards
- Uncertainty, complexity and ambiguity
- Risk-informed assessments
- Risk tolerability guidelines
- Human-induced risk assessment
- Incidents and accidents case histories
- Disaster case histories

Major Rehabilitations and Other Risk Reduction Investments

- Foundation treatments
- Structural Rehabilitation design
- Refurbishment of gates
- Dam rehabilitation and construction management
- Re-instrumentation, enhanced monitoring and overall surveillance
- Other dam safety investments
- Investments outside the dam: upstream and downstream planning
- Risk communication
- Dam decommissioning