



ICDSME2025
PRE-WORKSHOP

DAM SAFETY REVIEWS

Workshop by



Will be held on

4 November 2025

8.00 am - 5.30 pm

Pullman Hotel, Sarawak



Workshop Description

Learn how to conduct effective dam safety reviews to ensure the reliability and safety of dam infrastructure. This workshop covers:

- ✓ Preparing for a dam safety review as a dam owner
- ✓ Gathering and analyzing critical information and documentation
- ✓ Assessing dam safety, performance, and management systems
- ✓ Developing findings, recommendations, and reports
- ✓ Following up with actions and implementing improvements

Gain the skills to identify risks early, make informed decisions, and strengthen dam safety programs for long-term resilience.

Workshop Fee

Malaysian Delegate:

- MyCOLD Member: RM 1,580
- Non MyCOLD Member: RM 1,680

International Delegate: RM 1,880

ORGANIZED BY



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Our Social Media:     

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

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SPEAKER'S BIOGRAPHY



Clare Raska, P.Eng., FEIC
Independent Consultant
Dam Safety
Canadian Dam Association (CDA)

Clare Raska brings the perspective of twenty years of experience as a senior engineer with British Columbia Hydro, including development of an innovative dam safety management system which has become recognized as leading practice. This included mapping of all processes, clarification of roles and responsibilities, maintenance of emergency plans, and designing a database to track dam safety issues and follow them through prioritization and decision-making to resolution.

Since 1995, Clare has been at the forefront of Canadian Dam Association (CDA) initiatives to develop and promote good guidance for Canadian dam owners, engineering practitioners and regulators in the safe management of dams. This has included a critical role in development and quality assurance of CDA's Dam Safety Guidelines, as well as the Technical Bulletins on Dam Safety Reviews, Emergency Management, and Public Safety Around Dams. She has served on the CDA Board of Directors, including a term as President, and is an active member of the Dam Safety Committee, Professional Development Committee, and International Committees.



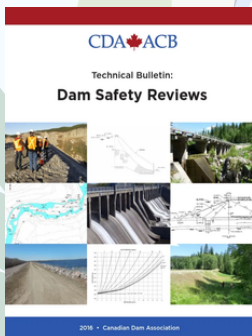
C. Richard Donnelly
Independent Consultant
Dam Safety
Canadian Dam Association (CDA)

Richard is an Independent Consultant specializing in dams, dam safety, risk-informed decision making, underground structures, and waterpower. He has a postgraduate degree in geotechnical/civil engineering and four decades of experience in designing and constructing hydroelectric facilities, dams, underground structures, and rock/overburden excavations. Notably, three of the dams that Richard led the design and construction activities for were honored with awards of excellence from the Association of Canadian Consulting Engineers.

His professional journey has taken him to 17 countries where he spearheaded design studies and served as a Construction Manager for a wide array of heavy civil projects. He has conducted over 400 dam safety and due diligence assessments and has developed dam safety guidelines and regulations for a number of international organizations. His work in dam safety was recognized with six national awards, showcasing his dedication to driving industry innovation. He is also pioneer in Risk-Informed Dam Safety Assessments, having developed specialized tools and techniques applied to numerous projects including a unique risk indexing tool that is being used to prioritize remedial works in India and Nigeria. For the CDA, Richard is serving on two technical committees.

Richard has led significant dam decommissioning studies and dam removal projects, including the first dam decommissioned in Ontario. For this achievement Richard and his team received Ontario's highest award for consulting engineering.

Recognized for his engineering excellence, Richard has been honored with awards such as the Professional Engineers of Ontario's medal for excellence in engineering, the RR Dodokin Award from the Ontario Waterpower Association, the Inge Anderson award from the Canadian Dam Association and a lifetime membership in the Canadian Dam Association. His prolific publication record of over 150 technical papers further solidifies his standing as a thought leader in the field.



AGENDA

8:00 am **Registration & Breakfast**

9:00 am **Introduction and Overview**

Preparation by Dam Owner

- Initiate Dam Safety Review
- Gather Information
- Define Objectives and Scope
- Retain Review Engineer

Exercise 1 – Information Gathering and Scope (in groups)

Work by Dam Safety Review Engineer

- Confirm Scope and Contract
- Review Information & Identify Gaps
- Understand Consequence
- Establish Safety Criteria
- Understand Physical Dam System
- Understand Dam Safety Management System
- Conduct Site Visit and Inspections
- Interview Staff
- Check Documentation and Records
- Confirm Functioning of Critical Equipment
- Evaluate Performance Based on Surveillance
- Analyze Dam Safety

Exercise 2 – Dam Safety Analysis (in groups)

12:30 pm **Break & Lunch**

2:00 pm **Work by Dam Safety Review Engineer**

- Identify Findings and Assess Safety of Dam System
- Recommend Actions and Priorities
- Prepare Dam Safety Review Report

Exercise 3 – Creating Findings (in groups)

Follow-up Action by Dam Owner

- Review and Communicate Findings
- Investigate, Analyze and Assess Options
- Make Decisions and Implement Improvements

Discussion and Wrap-Up

5:30 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



Hotline No. & WhatsApp No.:
016-715 8534 (Pn. Farazuin)
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SPEAKER'S BIOGRAPHY



Tony Bennett, P.Eng., FEIC
Principal, T&L Consulting
Canadian Dam Association (CDA)

Tony Bennett recently retired from the position of Director of Dam and Public Safety for Ontario Power Generation, responsible for the Dam Safety Program covering dam safety, emergency management and public safety around dams, for a portfolio of 66 hydropower stations and 239 dams. During this time, he was involved in numerous dam safety reviews, failure modes analysis, emergency exercises, safety assessments and incident investigations.

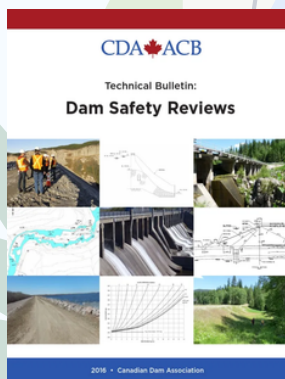
He is Chair of the ICOLD Committee on Public Safety and Emergency Management, and CDA Working Groups on Emergency Management and Public Safety and a member of the CDA's Dam Safety Committee. He is past President of CDA and the Engineering Institute of Canada. He has served on the Province of Ontario's Advisory Panel on Dam Safety, and the CEATI Dam Safety Interest Group amongst other technical organizations.



Margaret Trias, M.A.Sc.
Independent Consultant Hydropower
and Dams
Canadian Dam Association (CDA)

Margaret Trias is a senior consultant with over 25 years of experience in the dams and hydropower, renewables and mining sectors having worked for large Canadian consulting engineering firms in the fields of hydrotechnical engineering, dam safety, emergency management, environmental and social impact assessment and management on projects around the world for many years. She is now an independent consultant and is an accredited lead assessor of the Hydropower Sustainability Standard.

She serves as the coordinator of the Canadian Dam Association's (CDA) International committee and is the Secretary of the ICOLD Committees of the Americas (INCA). Margaret is active on CDA's Finance Committee and Emergency Management Working Group and is the Canadian member of ICOLD Technical Committee G (Environment), as well as a member of the ICOLD Technical Committee ZX5 on Dams & Sustainability.



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