

Queensland Tailings Group Master Class



Master Classes Programme	Day 1 – Tuesday, 28 October 2025 Understanding Failure Modes and Instrumentation	Day 2 – Wednesday, 29 October 2025 Trigger Levels, TARP, and Emergency Response
08:30 – 10:30	Session 1: Understanding Tailings Dam Failure Modes	Session 6: Developing Effective Trigger Levels for Monitoring and Risk Management
10:30 – 10:45	Morning Break	Morning Break
10:45 – 12:00	Session 2: Workshop – Identifying Failure Modes in a Hypothetical Dam	Session 7: TARP Exercise – Developing a Trigger Action Response Plan
12:00 – 12:30	Session 3: Discussion and Q&A on Failure Modes	Q&A Session
12:30 – 13:30	Lunch Break	Lunch Break
13:30 – 15:30	Session 4: Selecting and Applying Instrumentation for Failure Mode Monitoring	Session 8: Emergency Response Plan – Framework and Development
15:30 – 15:45	Afternoon Break	Afternoon Break
15:45 – 17:30	Session 5: Workshop – Choosing the Right Instruments Based on Failure Modes– Study cases, plots of real data, and interpretation– Q&A session	Session 09: Emergency Response Plan – Applied Exercise and Discussion

Thu & Wed, 28 & 29 October 2025
8:30 – 5:30 PM
GHD Brisbane Office – 145 Ann St, Brisbane City QLD 4000
Pricing: \$200 per day or \$350 for both days

Boost your dam safety knowledge with two focused sessions: Failure Modes & Instrumentation (**Day 1**) and Trigger Levels, TARP & Emergency Response (**Day 2**). Ideal for engineers, risk managers, and technical professionals, this programme offers practical insights and tools to strengthen your decision-making and emergency preparedness.

QTG 2025 Sponsors



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Presenters



Edgar Salas

Technical Director, Geotechnical Engineer

Edgar is a Geotechnical Engineer with 15 years of international experience, currently serving as a GHD Associate and the Engineer of Record (EoR) for Cadia. His career has spanned diverse geographies, including South Africa, Chile, Papua New Guinea, Venezuela, the UK, and Australia, where he has established himself as a subject matter expert in the design, evaluation, and management of complex tailings dams. Beyond his project work, Edgar is actively involved in industry-leading initiatives. He is a member of ICOLD Committee L, contributing to the development of a new bulletin on tailings dam surveillance, and serves as a technical advisor for the ANCOLD Tailings Advisory Group, supporting best practices in tailings management across Australia. His expertise and contributions to the field position him at the forefront of advancing safe and sustainable tailings management practices globally.



Leandro Santos

Senior Geotechnical Engineer

Leandro is a Geotechnical Engineer with 16 years of experience in tailings dams, water dams, and hydropower projects, covering all stages from conceptual design to detailed engineering and construction oversight. Currently serving as Engineer of Record (EoR) for an Extreme Consequence Category Tailings Storage Facility in Papua New Guinea, he has worked extensively across South and Central America, Australia, and Papua New Guinea. His expertise includes embankments, slope stability, seepage and settlement analysis, geosynthetics, instrumentation, dam safety reviews, and tailings dam decommissioning. With a strong technical background and hands-on experience, Leandro brings valuable insights into geotechnical design and dam engineering.



Malcolm Barker

Senior Technical Director

Malcolm has 45 years of civil engineering experience in the design, construction and safety of dams, hydropower projects, canals and tailings dams. He has participated in many dam projects in Australia, Canada, Zimbabwe, South Africa, Malaysia, Papua New Guinea and China. He has been involved in the design and construction of Embankment, Rockfill, RCC and concrete dams and HEP projects as well as Tailings dam planning and design for upstream and downstream construction. Malcolm has also served in different capacities in the Australian National Committee on Large Dams (ANCOLD) and he was one of the members revising the 2003 Risk Assessment Guidelines



Olle Wennstrom

Technical Director Crisis & Emergency Management

Olle has a broad international and Australian experience in the areas of Crisis and Emergency Management, from front-end operational level, through Senior Management and Executives levels in multinational companies and organisations, to Government/Cabinet Minister levels. With more than 35 years' experience as a Senior Fire Officer, in Fire & Rescue Operations with a specialty in Command & Control of large-scale operations, in Fire Department, Major Emergency Management for onshore and offshore operations and forestry, he has a holistic risk-based approach to Crisis and Emergency Management. He has designed and implemented crisis and emergency management systems for global companies and worked for NATO's civilian branch, the EADRCC as Head of Evaluation. He has provided a number of companies with GISTM compliant emergency preparedness.