Queensland Tailings Group
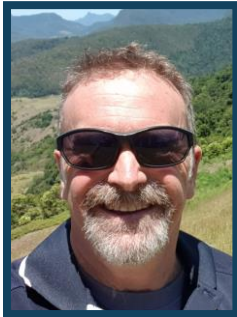
TSF Monitoring System Workshop
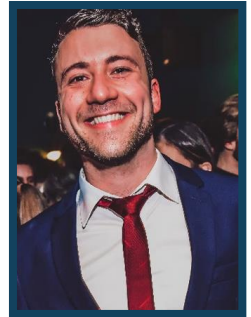
Simon Pitt
Hexagon Mine Monitoring

Eric Audige
SIXENSE OCEANIA

Chris Marcellus
Bentley Systems

James Ternes
Geomotion

David Williams
The University of Queensland

Theo Gerritsen
Rio Tinto

Lachie Campbell
GEOBOTICA

Date: 29 August 2024

Time: 4:00 – 8:00 pm

Venue: Four Points by Sheraton Brisbane

99 Mary Street Brisbane QLD 4000

Register Here

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Eric Audige is an engineer and business manager with 30 years of experience in monitoring. Throughout his career he has driven the development and international applications of new monitoring solutions in a wide range of domains, including the environment, Defence & security, nuclear energy, civil construction and mining. This cross-cultural experience has enhanced his passion for innovation and highlighted the potential of cross-sectorial approach.
In 2013, Eric established the Oceania division of Soldata, which has since evolved into Sixense. Over the past decade, the company has implemented and operated comprehensive real-time monitoring solutions in notable tunnelling projects and mining operations.

Christopher Marcellus is a Senior Application Engineer, Solution Engineering, Bentley Systems. He has been in the Infrastructure IoT industry for over 7 years, specializing in geotechnical instrumentation and telemetry system design and implementation on mines, dams, bridges, and other civil structures across the globe. As a Senior Application Engineer for Bentley's Solution Engineering Team, Chris works closely with users on projects using IoT for structural health monitoring, load testing, slope stability and more and showcasing the benefits of implementing that monitoring data into a Digital Twin environment.

James Ternes is the Technical Manager at Geomotion Australia, where he oversees advanced geotechnical and structural health monitoring projects. Leveraging geotechnical, civil and electrical engineering experience alongside experience with multiple data management systems, he is critical in the delivery of precise and reliable data to stakeholders on projects across Australia. James leads the charge in integrating innovative technologies and ensuring technical excellence across the company.

Simon Pitt is a mechanical engineer with over 20 years in the Radar monitoring industry. As one of the pioneers deploying and training customers on radar monitoring technology throughout the globe; significant experience in geotechnical operational risk management for open pit slopes, waste dumps and tailing storage facilities. This mining experience has been gained in all climatic conditions from high rainfall tropical rainforest to arctic environments in copper, gold, diamond, iron ore, nickel and base metals. This has been further augmented in the provision of civil landslide and rockfall monitoring solutions. Recent technical exposure across various geodetic monitoring technologies such as tiltmeters, GNSS and TPS; has completed the portfolio of monitoring technologies suitable for mining.

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Lachie Campbell is the CEO at Geobotica. He has spent 15 years in the geotechnical monitoring instrumentation industry. He was the Vice President of GroundProbe before founding Geobotica in 2021. He's published 14 patents, and many papers, including a publication in the journal Nature for a machine learning approach to forecasting the time of slope collapse.

Professor David Williams initiated and directs the Geotechnical Engineering Centre at The University of Queensland in Brisbane, Australia, and also manages the industry-funded Large Open Pit Project. He has over 40 years of teaching, research and consulting experience. He is internationally recognised for his expertise and experience in mine waste management and mine closure, in particular the design, construction, operation, closure and rehabilitation of tailings dams and waste rock dumps, including the design of covers, on which he has delivered a number of invited Keynote Lectures. He was on the Expert Panel investigating the technical causes of the fatal Brumadinho tailings dam failure in Brazil in 2019 and serves on a number of Independent Technical Reviews Boards for Tailings Facilities in Australia and internationally. He is a committee member of the Queensland Tailings Group.

Theo Gerritsen is the Principal Tailings Engineer for Rio Tinto Copper. Theo and his team, oversee the tailings related Risk for the Rio Tinto Copper Group, by supporting the assets with governance, risk assessment(s), implementation of the GISTM and review and support on general design activities. His experience includes all engineering aspects of tailings design for brownfield and greenfield sites, with experience gained across multiple commodities and geographies . Theo is active in the tailings community and partakes in the Queensland Tailings Group as a committee member, sits on the organising committee for the Mine Waste and Tailings conference for AuImm, the CDA/USSD EOR working group and the ICOLD Instrumentation Bulletin working group. The last three years Theo has been part of the BHP/Rio Tinto consortium studying tailings dewatering opportunities and trials. Prior to joining Rio Tinto in 2021 he was the Stantec global tailings lead. He holds a Master's degree from Delft University and resides in Brisbane.

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3:45-4:15 pm	**Welcome Drinks and Networking**
4:15-4:45 pm	**Chris Marcellus**
4:45-5:15 pm	**Eric Audige**
5:15-5:45 pm	**James Ternes**
5:45-6:15 pm	**Lachie Campbell**
6.15-6:45 pm	**Simon Pitt**
6:45-7:45 pm	**Panel Discussion** **Theo Gerritsen & David Williams**
7:45-8:15pm	**Q&A, Drinks and Networking**

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