



AUSTRALIAN INSTITUTE OF MINE SURVEYORS
EMERALD INTERACTIVE DAY

EMERALD TOWN HALL
WEDNESDAY 12 JULY 2023



Wednesday 12 JULY

9:00 AM	Registration & Coffee
9.30 AM	Welcome & Overview
9:35 AM	Workshop One
10:05 AM	Workshop Two
10:35 AM	<i>Morning Tea</i>
11:15 AM	Workshop Three
11:45 AM	Workshop Four
12:15 PM	Workshop Five
12:45 PM	<i>Lunch</i>
1:30 PM	Workshop Six
2:00 PM	Workshop Seven
2:30 PM	Daily Overview / Thank you
2.45 PM	Afternoon BBQ + Drinks

Emerald Town Hall

Egerton St, Emerald

2023 Sponsors



CPD POINTS - 2.0 Mine Survey & 1.5 Survey Practice

Points to be confirmed



Walk through the latest improvements in Lidar technology, looking more in depth at the Leica BLK2GO handheld laser scanner, the ExynAero autonomous 3D mapping UAV and the new auto-classification of point clouds in Cyclone 3DR.

Discover how the Grand SLAM algorithm from Leica improves the trajectory computation live during capture with the BLK2GO.

Understand how the Exyn technology is achieving the highest documented level of aerial autonomy, level 4A.

Learn a few tricks on how to best extract features from your scan data in Cyclone 3DR, the all-in-one deliverable solution.



GeoCue Australia will attend the Emerald Interactive Day during July of 2023. These annual Aims interactive days, normally held at Moranbah, are great opportunities to catch up and talk about tech. We wouldn't think about missing this day.

As you may be aware we also have a second business which is called Geo Drone Solutions, here we market our non GeoCue TrueView products such as McBathy, CHC Navigation, UgCS and TDOT Green beam LiDAR. Our primary focus, as you can perhaps tell, is drones and the clever payloads that they can carry. Our intention is to display and discuss a select group of items from our offering which are most relevant to the mining industry and guests of the event. These products up for discussion will include the below.

The GeoCue offering centres around LiDAR and specifically Drone LiDAR. This includes hardware and software to help facilitate collecting and processing vital data. These products include TrueView LiDAR and LP360 Drone software.

We will discuss our McBathy RC boat, this is a locally built, tested and supported bathy system. This flexible and comprehensive platform comes in a variety of offerings to suite different requirements and budgets.

Further to our Bathymetry offering and your options, we will also discuss our UGCS Drone based Echo sounder system. This innovative option, having the Echo Sounder carried by a DJI M300RTK Drone, is gaining popularity and in many instances offers the ideal opportunity to collect data where an RC boat will not suffice.

We will also display and discuss our CHC Navigation GNSS systems, the new range of Antennas, i73 to i93+, are both very well featured and priced. Our focus at the event will be to connect with you and through feedback gained, learn as much as we can about your business needs and how we can best meet these needs into the future.



Maptek will demonstrate the latest software and hardware technologies for open pit updates, stockpile volumetrics, inter-ramp compliance and stability monitoring. Learn the best tools and workflows for creating efficient processes that allow you to take mine survey, design conformance and stability monitoring data and integrate it into your operational mine planning and production schedules.

- Maptek Laser Scanners - new features and workflows, including infield registration
- Maptek Drive - pointers for getting the best results from mobile scanning
- PointStudio updates - new Photogrammetry add-on and other enhancements
- Sentry monitoring system - sneak preview of upcoming ultra long range hardware
- GeoSpatial Manager - online systems for managing survey surfaces across your operation
- Workflows and automation tools - tips on how to set up and run for standardising processes



Pointerra3D provides a common data environment for the mining, transport, utilities, and engineering sectors. This enables informed decision-making through advanced data visualisation and analytics, providing meaningful insights from dataset such as point clouds acquired from laser scanning.

Pointerra will provide a short workshop discussing how organisations are using laser scanned point cloud data to form a common data environment for GPS denied environments and combining this with controlled terrestrial data to enhance decision making and safety across an asset or operation.

Position Partners will showcase how their cutting-edge solutions in Laser Scanning, RPAS, structural and environmental monitoring improve operational safety and efficiency on your mine site. Attendees will discover how the new Trinity Pro platform and the NavVis VLX 3 are used on mine sites and how these technologies are integrated with environmental monitoring.

The Trinity Pro takes RPAS capability to the next level with 90min flight times allowing coverage of 500-600ha all on a single battery. It incorporates an enhanced terrain-following system, which significantly improves safety during flight operations. Trinity Pro also features an automated wind simulation for crash avoidance in bad weather and a linear approach for landing. Downfacing LiDAR provides highly accurate ground avoidance and landing control to enhance overall safety. CASA Regulatory update will be provided on the new RPAS orientated "BVLOS OCTA" exam (Beyond Visual Line of Sight) and how this applies to all underground and above ground mine operations.

A mining case study will demonstrate how the NavVis VLX 3 Wearable Laser Scanner has been used to capture Plant & Infrastructure in industrial environments.

Exploring the NavVis VLX3's capabilities for capturing large amounts of data safely under difficult conditions in both indoor and outdoor environments. With its advanced laser scanning technology, the VLX enables rapid 3D mapping and modelling of various environments. This technology allows for comprehensive and detailed digitisation of physical assets, facilitating asset management, maintenance and safety processes.

Position Partners will also share a case study highlighting structural and environmental monitoring solutions including dust and vibration.

These solutions are important for industries such as mining, construction and infrastructure, where monitoring environmental factors is crucial for compliance and safety.

Advances in structural monitoring solutions will be provided.



Jason Spall will be providing a Demonstration on the "Yabby" Water Level & Water Quality Sensors for Dams, Tanks, Lakes, Ground Water and Pump Automation.

He will also provide an update on our variety of Automated Monitoring Solutions that are now available to measure data where it was previously believed too cost prohibitive or difficult to implement.



UPG will be presenting Trimble's latest range of Survey & Geospatial products for the mining world, showcasing our RTK GNSS kits, Supervisor kits, Scanning, UAV, Monitoring & Augmented Reality solutions.

- See how combining a conventional 1" Total Station with a 26khz laser scanner can benefit your mine survey workflows with the Trimble SX12.
- Step into the world of Augmented Reality with the Trimble SiteVision and Trimble Access AR viewer, allowing visualisation of 3D designs & data in real world environments. Come & check out how this game changing & accessible AR technology can benefit a whole host of mining applications.
- The latest & greatest Trimble RTK GNSS equipment will be on display, come & see the TSC5, TSC7, TDC600 and all the new features in Trimble Access 2023.
- We are offering free 30-day trials of Trimble's RTX satellite-based correction source, allowing centimetre-level RTK accuracy without a base station or internet access, as well as seamless infill corrections if traditional RTK connections are lost. We all know downtime is costly & even the best connected mine sites can have black spots, Trimble RTX can solve this!

Come chat to Dan Hughes & Brent Dawson who will be representing UPG on the day, we'll see you then!

