



AUSTRALIAN
INSTITUTE OF
MINE SURVEYORS

AUSTRALIAN INSTITUTE OF MINE SURVEYORS MORANBAH INTERACTIVE DAY

MORANBAH COMMUNITY CENTRE

19 OCTOBER 2022



Wednesday October 19 2022

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|-----------------|-------------------------------------|
| 8:45 AM | Registration & Coffee |
| 9.15 AM | Welcome & Overview |
| 9:25 AM | Workshop One |
| 9:55 AM | Workshop Two |
| 10:25 AM | <i>Morning Tea</i> |
| 11:00 AM | Workshop Three |
| 11:30 AM | Workshop Four |
| 12:00 PM | Workshop Five |
| 12:30 PM | <i>Lunch</i> |
| 1:30 PM | Workshop Six |
| 2:00 PM | Workshop Seven |
| 2:30 PM | Afternoon Tea |
| 3.00 PM | Workshop Eight |
| 3.30 PM | Workshop Nine |
| 4:00 PM | Daily Overview / Thank you / Drinks |
| 4:15 PM | Afternoon BBQ + Drinks |

Moranbah Community Centre

89 Mills Ave, Moranbah QLD 4744

2022 Sponsors



2 Mine Surveying Points 2.5 Survey Practice Points



AAM is a full service Geospatial Provider with solutions to the resources industry including aerial mapping, land and bathymetric survey and hosted GIS applications. The presentation will highlight some of the key people and technologies in AAM that work towards providing these services, including: airborne sensor operation and maintenance, strategic account management, project scheduling and data processing. AAM has also invested in an automated processing solution called LiDARnetics, which is based on cloud infrastructure and was developed to meet the rapid turnaround times requested by our resources clients.



CR Kennedy

Part 1

UAV Mapping solutions and rejuvenation of sites.

This will include different UAV types available and Agricultural spreading systems.

There will be case studies of mapping and variety of Payloads for UAV form RGB Multispectral thermal and Lidar. We will also discuss processing software for the different payloads. On display will be:

Wingtra VTOL Fixed Wing Mapping solution

DJIM300RTK with Alpha air 450 Lidar system

DJI T10 agricultural drone spray and spreading kit

Part 2

Present the dbyd approved equipment for detection and mapping of underground features and services.

On show we will have an australian first release of the new IDS StreamDP 3D gpr, case studies from the vehicle mounted StreamUP as well as high accuracy gps enabled locators like the Vivax vLoc3RTKPro. These systems allow teams to do more with less staff and provide high accuracy maps of underground hazards.

Part 3

We will briefly discuss the new autonomous solutions from Leica: handheld BLK2GO, BLK2FLY UAV, BLKARC module. See the latest monitoring solutions from Riegl and the Syperion Slope Monitoring software. Take a look at some workflows in Cyclone 3DR to improve point cloud processing workflows, like automatic classifications.

On display will be a Riegl VZ, the Leica BLK2GO, and the all-new Leica BLK360

Automated Stockpile Scanning and Volumes

Stockpile volume reconciliation has always fallen onto the survey teams end of month, adding to the long list of tasks to be achieved within a limited amount of time.

There are many technologies available to collect stockpile data which generally revolve around drones and lasers scanners. Both of these systems require the physical presence of a system operator and generally the stoppage of works.

I will be introducing the Carlson Fix1 Volume system that is permanently installed in stockpiling areas, scanning areas on schedule or on demand, providing simple data collection and automated data processing to save survey time and effort.

The demonstration will include run through of the system (IT, Web UI, Data Viewer) and ways to interrogate and manage the data.



GeoCue Australia will again attend the Moranbah Interactive Day and do see this as a great regional event. Our purpose is to meet with you and help with your drone and UAV needs. We'll have on display our various LiDAR, drone, GNSS and Bathymetry systems and look forward to speaking with you about how these can help with your day to day activities.

The GeoCue TrueView LiDAR offering is central to our business and includes hardware and software, all developed, supplied and supported by the GeoCue family. This is a big benefit to you in that you access the same team who developed the system for your training and support - this is a 150 person strong team of experts.

This year we will have various TrueView sensors on display and will look to show you the ease of use and the great output and deliverable options which are processed through the terrific LP360 Drone software.

We will also display and discuss our various CHC Navigation systems and products. Central to this is the P330 Pro VTOL fixed wing drone. Recently approved by CASA, this is a great new system and is used by Aviassist to provide you training for the 8-25kg 'Powered lift' CASA rating. This is a LiDAR capable system. We will also have on display our CHC Navigation GNSS Rover and base station systems. These well constructed and easy to use sensors also include the very capable Land Star 7 Survey software.

We will also display our McBathy RC platform, available in either basis 'Bear' or dual frequency configurations and will also discuss our recently finalised Ping Sidescan Mcbathy system, both platforms are well featured, locally tested, built and supported.

Each year we really enjoy the input and feedback from meeting with you and do try to improve our range and offering based on this. We look forward to seeing you again during 2022 and speaking about our great products and how these can help you and your work.



Many operations find it difficult to manage the volume of survey data, putting pressure on people, time and systems. Maptek Geospatial Manager is a new online service for visualising, analysing and dynamically updating surfaces. Find out how it allows all surfaces for a project to be accessed and dynamically visualised across an organisation. Data is stored centrally in a SQL database, instead of multiple individual files stored in various locations. You'll also learn about the XR3-DC camera-equipped dual window system, which can capture data from both sides simultaneously when scanning from the safety of a moving vehicle, halving the data acquisition time, as well as taking traditional scans



Pointerra is providing the mining sector with a solution that ensures mine operators get the most from their investment into 3D data acquisition and hardware. In doing so putting spatial information at the forefront of enhancing safety, quicker and more informed decision making, automation and innovation. Pointerra will demonstrate some mining analytics and how miners are gaining insights into their underground and open cut mining operations through the Pointerra3D platform

Scanning:

A presentation on the NavVis VLX Mobile/SLAM scanner outlining the technology and how it can be applied to fixed plant asset digitisation. Application examples in mining and oil and gas environments will be presented.



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 the latest generation of Trimble Geospatial Survey Solutions, including:

- Trimble R12i & Trimble’s rugged SPS986 integrated GNSS receivers with Tilt Compensation & cutting edge ProPoint GNSS technology
- Next generation GNSS base station offerings, the Trimble Alloy & Trimble R750.
- Field controllers including TSC5, TDC600, TCU5 & TSC7
- Trimble Access 2022 field software
- SX12 Scanning Total Station

Trimble’s high accuracy augmented reality system, the Trimble SiteVision

