

AUSTRALIAN INSTITUTE OF
MINE SURVEYORS

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MUDGEE REGIONAL SEMINAR

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MUDGEE GOLF CLUB
MARCH 22 - 23, 2019

Interactive Session Information Mudgee

All delegates will be placed into small groups and rotate through each of the Sponsors below:

CR Kennedy

Use of Total Stations in an Underground Environment

The amount of data collected nowadays far supersedes what surveyors have previously collected. The key is effectiveness and data management. Knowing how to utilise the features of a modern total station and benefitting from it so we can specialise in the tasks we perform.

AAM

AAM will be presenting a case study on TSF (Tailings Storage Facility) management.

AAM has been surveying and monitoring tailings storage facilities for many years. With the advancement of survey technologies, we have developed methodologies that incorporates a holistic approach to TSF management. AAM will discuss a case study and present a “where to” for the continual evolution of survey support to TSF management.

Applied Resolution Technologies

Applied Resolution Technologies has supplied intrinsically safe lasers to Australian underground coal mines for over 25 years. Our well-known IECEx Certified underground alignment lasers will be on display at the Mudgee seminar.

ART will also be discussing laser safety training with a new professional laser safety package especially focusing on underground mining and intrinsically safe processes and issues.

ART is always developing new products. At Mudgee we will demonstrate the first pre-certified demonstrations of our new Intrinsically Safe laser distance measurement systems. We welcome participants to view our new systems with an opportunity to provide valuable input and feedback prior to final Certification.

Carlson

Carlson is pleased to present our range of hardware and software products for the Mining industry. Our suite includes underground and open pit solutions for geology, mine planning and design, machine control and surveying.

Carlson have an emphasis on delivering products that users need, alongside a competitive pricing strategy and a focus on customer service including continual feedback.

We trust that AIMS delegates will find our solutions of interest and we look forward to meeting you in Mudgee.

Aerometrex

Aerometrex is an Australian owned and operated digital aerial photography and mapping specialist providing high resolution spatial data products and services based on the latest aerial mapping technologies available for LiDAR and Aerial Orthophotography.

Airborne LiDAR

LiDAR sensors are long-range airborne laser scanners which make use of a powerful laser source, multiple-time-around (MTA) processing and digital full waveform analysis.

This combination allows the operation at varying flight altitudes and is therefore ideally suited for the aerial survey of complex terrain. Accurate three-dimensional views of the ground surface are created by classifying vegetation, man-made and other above ground features as 'non-ground' during the filtering/editing process. A true representation of the bare earth surface is depicted once non-ground points are removed from the view.

Aerial Orthophotography

Orthophoto is widely used in GIS, it is the most effective product to obtain precise georeferenced information in a 2D and 3D environment. In a fully digital workflow, the production of orthophotos is faster. The increasing demand of higher resolution imagery requires solutions for faster distribution, smarter and innovative viewing capability as well as cost-effective data storage and management.

Position Partners

UAV Survey & Mapping - Technology Update

Position Partners will be demonstrating the latest UAV Systems for Survey & Mapping.

The latest fixed wing drone that takes off and lands vertically. How to cover large areas in a single flight and have the advantage of VTOL as well as PPK.

The new Phantom 4 RTK – How it works and the three modes of operation.

The new Sony camera with the KlauPPK precision positioning system.

Airborne LiDAR, new systems launched.

Position Partners will also have on display the latest on wireless near-real time instrumentation for tailings dam, geotechnical and fixed plant deformation monitoring. The long range, Teledyne Polaris, capable of producing high-end imagery will also be on display.

UPG

Trimble SX10 with new TSC7 data recorder.

Demonstrate the SX10 system with our new TSC7 data recorder, doing some basic scanning and total station work.

- Infield operation of the equipment
- Benefits of the system
- Various data capture option
- Using unit as conventional robotic instrument

Demonstrate the data gathered by the SX10, processing and producing a deliverable.

- Showing data captured
- Reducing data to workable size
- Producing volumes and surfaces
- Creating reports of data
- Creating data on plans, drawings etc

GeoSight

New Mini Mine-i

- 2.5" diameter
- Infrared (night vision)
- Standard 100m cable
- No rods for vertical holes

