

Mineral quantifiers line expanded to include heavy-duty slurry applications

Minerals processing solutions company Blue Cube's range of MQi in-line mineral quantifiers has now been expanded by the addition of a heavy-duty fine slurry model.

Based on the same design for the dry mineral in-line scanners, the slurry model optical scanner head is specifically configured to withstand the corrosive and abrasive conditions prevalent in slurry applications. All surfaces in contact with the slurry are made of either stainless steel or abrasion-resistant alumina or nylon.

The flow pattern through the scanner is directed in such a way that the tendency of slurries to segregate is fully mitigated. Installation is an easy process as the scanner head is mounted in a 1-m, or longer, pipe section with flanges or couplings that fit directly to that of the pipeline where it is being installed. Installation is, therefore, a simple process of removing a

single pipe length and inserting a replacement, prefitted with the optical scanner, in its place during a routing shutdown.

The slurry scanner makes use of the same spectrometer and data processing components of the company's older scanner models. Also, the data links to the facilities of the supplier remain available to facilitate remote calibration.

The new scanner model will find ready application in the determination of mineral composition in mill product transfer systems to the next process stage, various positions in different process streams in flotation circuits, thickener product to a next-stage filter or reactor and various process streams in spiral gravity separators. By making the mineral composition information available to operators and to the plant control system in a user-friendly format on a minute-by-minute basis, plant performance is improved.

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that stands vertically in front of the viewer, with a single high-definition projector, a computer, surround audio equipment and a user interface.

The development of the AVIE and iDOME theatres was initiated by the director of iCinema, professor **Jeffrey Shaw**, an Australian research council federation fellow.

iCinema offers the opportunity to create interactive immersive cinema experiences for audiences that will change the way audiences view and relate to cinema.

"Interactive cinema is a form of cinema that integrates all forms of media in an intelligent narrative landscape, allowing the audience to interact with and become part of the cinematic experience," says iCinema's chairperson and Queen Elizabeth II fellow, Dr **Dennis Del Favero**.

"It plunges audiences into an immersive reality, where there are no barriers between the virtual and the physical, and where narrative is created spontaneously and cooperatively," Del Favero says.

"As artists, we search for enhanced modalities of communication and experience, and our achievements are of universal value. The interdisciplinary team at iCinema embodies a fusion of creative, scientific and technical skills," Shaw comments.

Shaw says that Coal Services is being visionary in adopting iCinema's technologies to enhance the effectiveness of mine safety training.

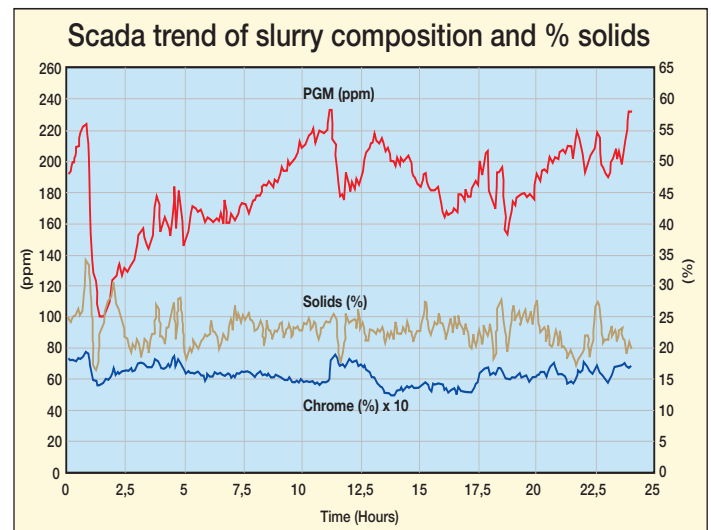
"AVIE and iDOME are Australian innovations. Coal Services has recognised their unique capabilities and are setting a precedent that other industrial sectors can follow," Shaw concludes.

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SCANNING THE SLURRY

The scanner determines mineral composition in different types of slurry applications



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