



Press Release

ZEISS Launches MinSCAN Mine-site Automated Mineralogy Solution at SME Annual Conference & Expo (ACE) 2016

Visit Booth 411 to see instruments ideal for wide range of mining applications

ZEISS announces it will be launching the MinSCAN mine-site automated mineralogy solution at SME Annual Conference & Expo (ACE) 2016, which takes place February 21-24, 2016, at the Phoenix Convention Center, in Phoenix, Arizona. Also on display at Booth # 411 will be ZEISS Axio Imager.A2m polarization microscope and ZEISS Primotech polarization microscope.

The ruggedized and portable MinSCAN mine-site automated mineralogy system on display is designed for use by mine-site personnel to perform mineral processing plant troubleshooting and daily plant monitoring. The system is designed as an integral part of a mine-site operational mineralogy program spanning sampling, sample preparation, data analysis and interpretation within a 48 hour timeframe. This solution enables a paradigm shift in the management of the performance of mineral processing circuits, enabling operational mineralogy programs to identify and correct such issues as overgrinding, undergrinding, excess sliming, and non-optimal leaching thermodynamics. The system can also help rectify variability in mineralogy causing variable recovery, dilution of concentrate due to flotation of gangue particles, and under-optimized mineral processing circuit parameters.

Data developed by the MinSCAN mine-site automated mineralogy system can also be used to identify long term process improvement opportunities and benchmark the plant's performance against its average performance, enabling the separation of ore variability from circuit variability on target element recovery.

Visitors to the booth can also see ZEISS Axio Imager.A2m microscope for advanced process development studies and in depth ore characterization use cases. Combining reflected and transmitted light polarization, ZEISS Axio Imager.A2m meets the toughest materials analysis challenges. With its intuitive operating concept and flexible interfaces for external communication and network connections, ZEISS Axio Imager 2 features a modular concept ensuring that the durable and robust system can cope with any future requirements. Its innovative design offers maximum stability and vibration-free work, optional automated functions for enhanced operating comfort, exceptional ergonomics for stress-free use and ZEISS' world class optics. The ZEISS Axio Imager.A2m model on display features a manual stand and a light manager that ensures defined conditions and reproducible results at all times.

Also on show is the ZEISS Primotech, a compact and portable polarized light microscope used to perform QA/QC analysis of prepared polished blocks ahead of automated mineralogy as part of the operational mineralogy workflow. For process development, feasibility and exploration, Primotech is designed for use on thick, opaque mining samples and is ideal for examining thin to thick metallographic samples to analyze grains, and for multiphase analysis.

**Press contact**

Microscopy

Maya Everett, Ph.D.

Phone +1 914 681-7782

Email: maya.everett@zeiss.com

www.zeiss.com/press

About ZEISS

ZEISS is an internationally leading technology enterprise operating in the optics and optoelectronics industries. ZEISS develops and distributes lithography optics, measuring technology, microscopes, medical technology, eyeglass lenses, camera and cine lenses, binoculars and planetarium technology. With its solutions, the company constantly advances the world of optics and helps shape technological progress. The company is divided up into the six business groups Industrial Metrology, Microscopy, Medical Technology, Vision Care, Consumer Optics and Semiconductor Manufacturing Technology. ZEISS is represented in over 40 countries – with around 30 production sites, over 50 sales and service locations and about 25 research and development facilities. In fiscal year 2013/14 the company generated revenue approximating 4.3 billion euros with just under 25,000 employees. Founded in 1846 in Jena, the company is headquartered in Oberkochen, Germany. Carl Zeiss AG is the strategic management holding company that manages the ZEISS Group. The company is wholly owned by the Carl Zeiss Stiftung (Carl Zeiss Foundation).

Further information at www.zeiss.com

Microscopy

The Microscopy business group is the world's only one-stop manufacturer of light, X-ray and electron microscope systems. The portfolio includes solutions and services both for life sciences and materials research and for industry, education and clinical practice. The business group is headquartered in Jena. Additional production and development sites are located in Oberkochen, Göttingen and Munich in Germany, as well as in Cambridge in the UK, and in Peabody, MA and Pleasanton, CA in the USA. The business group employs a total of over 3,000 people. It generated revenue of 656 million euros in fiscal year 2013/14.