

## **Xstrata Copper intro for Deep and High Stress Mining Seminar**

Xstrata Copper's north Queensland operations form part of Xstrata Copper's international operations. Headquartered in Brisbane, Australia, with regional offices in Chile, Peru, Argentina and Canada, Xstrata Copper is one of the commodity business units within the major global diversified mining group Xstrata plc.

Xstrata Copper's North Queensland Division is headquartered in Mount Isa and comprises of the Mount Isa Mines copper mining and processing operations, Ernest Henry Mining, and the Townsville copper refinery and port operations.

Mount Isa Mines operates two separate mining and processing streams, copper and zinc-lead-silver at Mount Isa. Together the company's mines form one of the largest underground mining operations in the world. Mount Isa Mines has an annual production capacity of 190,000 tonnes of copper in concentrate from the underground mines. Through its vision to create a secure future for Mount Isa, Xstrata had invested more than AUD\$115 million in new projects in north Queensland since 2004. The development of the Northern 3500 underground copper orebody has provided an additional high grade mining zone in the Enterprise underground copper mine. The Enterprise mine is the most recently developed copper ore source at Mount Isa and is Australia's deepest mine, with an internal shaft which reaches a depth of 1,900 metres. Ore from the Enterprise mine has an average grade of 3.7 per cent copper.

Ernest Henry Mine is a large open pit, copper-gold mining operation near Cloncurry. Approximately 11 million tonnes of ore per annum is mined at this operation. Xstrata Copper is undertaking an AUD\$14 million deep diamond core drilling pre-feasibility study. This study will investigate the viability of extending Ernest Henry, when the open-pit operations come to completion, into an underground mining operation.

The Townsville copper refinery is one of the world's leading electrolytic copper refineries producing copper cathode from copper anode produced at the Mount Isa smelter. The refinery uses Xstrata's ISA PROCESS technology. The port operations export copper

cathodes and mineral concentrates from Mount Isa Mines and Ernest Henry Mine as well as concentrates from mining operations in the NW Minerals Province of Queensland.