

JOHN ALBRECHT

PRINCIPAL GEOTECHNICAL ENGINEER

PhD, BEng (Mining) (Hons)
MAusIMM (CP), RPEQ, MIEAust



EXPERTISE

John's expertise is predominantly in underground rock mechanics, particularly in respect of mine design and sequencing in high stress or high displacement mining conditions. John has substantial experience in seismic data analysis and interpretation with his PhD research focused on quantifying the rockburst potential of underground excavations submitted to seismic loads. Other skills include the design, installation and operation of portable and full-scale mine based seismic systems and ground support design for all rock conditions including high stress, bursting and high deformation environments.

He has well-developed stress analysis skills with substantial experience in the use of numerical modelling for underground mine stability assessment including life of mine infrastructure, back analysis of failures and orebody sequence analysis. John is an expert user of a number of advanced numerical modelling software packages, including MAP3D, FLAC3D, 3DEC and ABAQUS.

SUMMARY OF EXPERIENCE

John has fourteen years experience in the mining industry composed of approximately three years in operational roles, eight years consulting, and three years as a Postgraduate Researcher at the University of Western Australia.

He spent three years with Normandy Mining Ltd where he gained practical underground and open pit experience as a drill and blast engineer (open pit), underground operator (time spent on drill rigs, loaders, trucks, installation of mine services and charge up) and ventilation engineer. Work included the design, implementation and review of the drill and blast operations, the coordination and monitoring of contractor operations, slope stability assessment, support design, geotechnical mapping, mine planning and production scheduling. Other underground experience included collecting site data and assisting site personnel with the installation and operation of seismic systems.

Areas of work have included seismic event processing and analysis, seismic system design, rockburst hazard assessment, assessment of excavation stability using empirical and numerical techniques and advanced numerical modelling of excavation stability, extraction sequencing and support design using Map3D, FLAC3D, 3DEC and ABAQUS software.

During his employment with AMC, he has been seconded to a number of mine sites as a site-based Geotechnical Engineer, including regular time spent at Oxiana's Golden Grove operation and BHP's Olympic Dam operation.

John's full resume is available upon request.