

JOHANN VAN WIJK

GEOTECHNICAL MANAGER

PRINCIPAL GEOTECHNICAL ENGINEER



BSc Eng (Mining)
MSc Eng (Mining)
Mine Managers' Certificate of Competency (Coal),
RPEQ, MAusIMM (CP), PrEng MSAIMM, MSANIRE

EXPERTISE

Johann has extensive experience in rock mechanics and geotechnical management systems, mainly associated with underground coal mining. This includes the design, implementation and management of geotechnical aspects related to longwalls, bord and pillar mining, partial pillar extraction and surface coal mining. Johann also has significant experience in the assessment of mining induced subsidence, risk assessment, geotechnical and strata control training, management of technical teams, and strategic leadership. He has published various papers on related topics.

SUMMARY OF EXPERIENCE

Johann has in excess of 20 years experience in the coal mining industry, incorporating roles in mine planning, production and geotechnical engineering. In his role as Group Manager Rock Engineering for a large mining company, Johann was responsible for leading a team tasked with managing the risks associated with falls of ground in surface and underground mines. During this period the team was successful in significantly reducing fall of ground accident and incident rates by devising, implementing and managing strategies to ameliorate risks. He was further responsible for providing strategic leadership for the elimination of fall of ground accidents and incidents across numerous surface and underground mines.

Johann has served as the President of the South African Institute of Rock Engineering (SANIRE), Chairperson of the Coalfields Branch of SANIRE, Chairperson of the Rock Engineering Technical Advisory Committee for the Safety in Mines Research Organisation, Examiner for the Chamber of Mines Rock Mechanics Certificate, and Member of the Technical Reference Group for the Mining Qualifications Authority.

In 2007 Johann commenced a career in consulting. He was promoted to Principal Geotechnical Engineer in 2008, and headed one of three business units for a geotechnical consulting company. Johann joined AMC as Principal Geotechnical Engineer in February 2009 and currently manages AMC's Brisbane Geotechnical group.

Johann's specific technical skills include:

- Longwall evaluation and design
- Slope stability analysis
- Geotechnical risk management
- Gateroad and install road design
- Ground support system design
- Partial pillar extraction design
- Mining subsidence analysis
- Ground support quality control systems
- Monitoring and data analysis
- Bord and pillar design
- Numerical modelling (Map 3D, Phase², Lamodel, Slide, RocFall)