

DR PAUL HAGAN

DIRECTOR – UNDERGRADUATE STUDIES

(MEA NODE: UNSW SCHOOL OF MINING ENGINEERING)



QUALIFICATIONS

B.E. in Mining Engineering, University of NSW, 1980
Ph.D in Mining Engineering, University of NSW, 1990
Graduate Dip. of Management (Technology Management), 2000
WA First Class Certificate of Competency as Mine Manager
NSW Certificate Below Ground Mine Production Manager

EMPLOYMENT

1976 – 77 Nebo Colliery (NSW). Underground Operator.
1977 – 78 Kandos Colliery (NSW). Engineering Assistant.
1980 – 82 Union Corporation, RSA. Graduate Mining Engineer.
1983 – 84 UNSW, School of Mining Engineering. Postgraduate Student.
1984 – 86 UNSW, Tutor.
1986 – 91 UNSW, Laboratory Manager.
1991 – 94 CRA Advanced Technical Development. Senior Project Engineer.
1994 – 96 Hamersley Iron Pty Ltd, Mt Tom Price Mine. Manager – Mine Planning.
1996 – 98 Hamersley Iron Pty Ltd, Perth. Principal Consultant – Planning Systems.
1998 – UNSW, School of Mining Engineering. Senior Lecturer.
2001 – UNSW, Director – Undergraduate Studies

PROFESSIONAL SOCIETIES

Australasian Institute of Mining & Metallurgy, Fellow
Australian Tunnelling Society, Member

TEACHING AREAS

Rock Excavation
Mine Planning and Design
Management Systems
Mine Transport and Materials Handling Systems

RESEARCH

Machine cutting of rock
Rockbolting and rock support systems

SELECTED PUBLICATIONS

Mahony, L and Hagan, P C, 2006. Development of a laboratory facility to study the behaviour of reinforced elements subjected to shear, in *Coal 2006, Proc. 7th Underground Coal Operators Conference*, University of Wollongong, pp 245-254 (AusIMM: Illawarra Branch).

Najor, J and Hagan, P C, 2006. Capacity constrained production scheduling in *Proc. XV Intern. Symp. on Mine Planning & Equipment Selection (MPES 2006)*, Torino, Italy, (Balkema).

Williams, E and Hagan, P C, 2006. Observations on the variation in acoustic emissions with changes in rock cutting conditions, in *Coal 2006, Proc. 7th Underground Coal Operators Conference*, University of Wollongong, pp 93-103 (AusIMM: Illawarra).

Hagan, P C, 2004. Variation in the load transfer of fully encapsulated rockbolts, in *Proc. 23rd Intern. Conf. on Ground Control in Mining*, Morgantown, WV, USA, August 2004, pp 242-249 (West Virginia University: Morgantown, USA).

Denny, J M and Hagan, P C, 2004. A study on the effect of changes in fibre type and dosage rate on Fibre Reinforced Shotcrete performance, in *Shotcrete: More Engineering Developments, Proc. of 2nd Intern. Conf. on Eng. Developments in Shotcrete*, Cairns, (Balkema: London).

Hagan, P C, 2003. The effect of resin annulus on anchorage performance of fully encapsulated rockbolts, in *Technology roadmap for rock mechanics: Proc. ISRM 2003 Conference*, pp 447-450 (South Africa Inst. Min. & Metal.: Johannesburg).

Hagan, P C, 2003. A study of the variability in some rockbolt parameters and their potential impact on anchorage performance in coal mines, in *Proc. Conference on Mining Risk Management*, pp 233-239 (AusIMM: Melbourne).

Hagan, P C, 2003. Observations on the differences in load transfer of a fully encapsulated rockbolt, in *Ground Control in Mining: Technology and Practice: Proc. 1st Aust. Ground Control in Mining Conference*, pp 161-166 (UNSW: Sydney).

Hagan, P C, 1992. The cuttability of rock using a high pressure water jet, in *Proc. Western Aust. Conf. on Mining Geomechanics*, pp 399-412 (Curtin University: Kalgoorlie).

PROFESSIONAL INTERESTS AND CONSULTING

Geomechanics: Machine cutting of rock and roof support
Mine planning