

DUNCAN CHALMERS

SENIOR LECTURER

(MEA NODE: UNSW SCHOOL OF MINING ENGINEERING)



QUALIFICATIONS

B.E. n Mining Engineering, University of NSW, 1976
 M.E.(Honors) in Mining Engineering, University of Wollongong, 1988
 Graduate Diploma in Education, 1983
 NSW & QLD Certificates of Competency
 Colliery Deputy, 1977
 Colliery Undermanager, 1978
 Colliery Manager, 1983
 Mines Rescue, 1976
 Powderman, 1996
 Explosives TAFE NSW S.A, 1994

EMPLOYMENT

1971 - 72	AIS/ BHP, Corrimal Colliery. Miner
1977 - 79	AIS/BHP Bulli Colliery. Deputy and Shotfirer
1974 - 76	AIS/BHP, Corrimal, Cordeaux, Appin, Tower & Metropolitan Collieries. Mine Trainee
1988 - 98	Illawarra Inst Tech. Wollongong. Head, Mining
1973	KCC, Coalcliff Colliery. Miner
1979 - 81	Metropolitan Colliery. Undermanager
1988,91,97	Relieving Mine Manager
1981 - 87	TAFE, Wollongong. Teacher of Mining
1998 –	UNSW School of Mining Engineering. Senior Lecturer Coordinator Statutory Ventilation Officers' Course/ Graduate Diploma in Mine Ventilation

PROFESSIONAL SOCIETIES

NSW Colliery Managers Association, Member
 Institute of Quarrying Australia, Fellow

TEACHING AREAS

Mine Ventilation
 Explosives
 Mining Methods
 Mine Design
 Mine Management
 Mine Materials Transport

RESEARCH INTERESTS

Permitted Explosives, Mine Management, Safety Management, Mine Ventilation Systems, Blast Design, Environmental Management, Roadway Behaviour, Mine Layout, Quarry design, Quarry management, Risk Management

SELECTED PUBLICATIONS

Chalmers, D R & Moreby, R, 2002. Ventilation Training – Planning Tools, in *Proc. North American Ninth U.S. Mine Ventilation Symp.*, Kingston, Ontario, Canada.
 Chalmers, D 2004. The use of blasting fumes to inertise underground coal mine atmospheres, in *Proc. North American Tenth U.S. Mine Ventilation Symp.*, Anchorage Alaska, USA
 Fowler, C & Chalmers, D R 2006. The application of infra-red 'open path' methane detection and measurement to Australian underground coal mines, in *Proc. North American Eleventh U.S. Mine Ventilation Symp.*, Penn.State Pennsylvania, USA
 Chalmers, D R 2006. Ventilation education and Training, in *Proc. North American Eleventh U.S. Mine Ventilation Symp.*, Penn.State Pennsylvania, USA
 Chalmers, D R, Freak, K & Freeman, A 2004. Permitted Explosives for 21Century – Stage 1 Final Report ACARP

PROFESSIONAL INTEREST AND CONSULTING

Fellow, Institute of Quarrying, Australia
 Consultant to industry in ventilation management and control, blasting systems, permitted explosives, training and crib room talks programs