

SCHOOL OF ENGINEERING

MEngSc/ME Thesis

Year	Author	Title
1966	VOLKER, R.E.	Flow Through Idealised Particle Arrays
1968	STANLEY, L.O.	Failure Criteria for Rock Models under Controlled Triaxial Stress Conditions
1970	FORD, D.S.	Characteristics of the Plane Strain Behaviour of a Compacted Soil
1970	DICKSON, R.J.	Application of the Finite Element Method to the Analysis of Linear Seepage through Porous Slopes
1970	HAIGH, G.F.	Stress and Strain Characteristics of Prehardened Portland Cement Mortar
1971	HAMMETT, Ross David	Theoretical and Numerical Aspects of Rock Fracture
1972	ABEL, David John	Design and Performance of a Small Library's Circulation System Controlled by an On-Line Timesharing Computer
1972	BYRNE, Robert John	A Nonlinear Numerical Model of a Discontinuous Rock Mass
1972	PHILP, Maurice George	Joint Slopes – A Numerical Investigation
1973	CANTATORE, Walter Peter	The Numerical Solution of the Steady Interface in a Coastal Confined Aquifer
1974	POMEROY, Alan Bruce	Water Quality Simulation in a Tropical River System
1975	TAMRONGTANAKITCHAKARN, Jierasak	Solutions for Time-Dependant Sea Water intrusion in a coastal confined aquifer.
1975	GUVANASEN, Varuttamadhira	Sensitivity Analysis and Calibration of Numerical Groundwater Models.
1975	SAN, Kyaw	Heightening of Paluma Dam
1976	CHASE, K.J.	Decomposed Granitic Base Course Materials for Road Construction in Coastal North Queensland
1977	HOLLAND, Harry	Predication of Failure Mechanisms for a clastic slope
1977	JAMES, Maurice Keith	University Library Management and the Journal Selection Problem
1977	JONES, Peter Vincent	An Investigation into the use of Finite Element Solution Methods for Analysing Pipe Networks
1977	LEONARDI, Frank	An Analysis of Wet Season Moisture Movements in Tropical Pavements
1977	MCGRATH, Stephen Keith	An Analysis of the Suitability of Lisp as a Data Processing Language, using the 1976 Institution of Engineers, Australia Annual Conference Data
1977	THURLOW, David Ian	The Strengthening of Dispersion Hardened Aluminium Alloys Containing Titanium Dioxide and Stainless Steel.
1977	YUSOFF, Mustapha Bin	Transient and Steady-State Considerations of Solar Air Heaters
1978	MILLS, Alistair Boswell	Allocation of the Water Resources of the Burdekin Basin
1978	MITCHELL, George Marshallsey	Wave and Current Loading on Rigid Cylindrical Piles
1980	POWER, Neil Anthony	An Investigation of the Factors Affecting Urban Water Consumption in Northern Australia
1981	HADGRAFT, Roger George	Optimisation of Surface and Groundwater Utilisation in the Burdekin River Basin
1982	COLMAN, Errol John	Analysis and Synthesis of Natural Wave Trains in Deep Water
1982	LEE, M.F.	A Review of Stope Performance and Ground Behaviour Associated with the MICAF Mining Method, Mount Isa Mines, Australia
1982	MELLOY, Christopher Paul	Pillar Recovery in the 1100 Orebody – A Case Study of the 511 Pillar Design
1982	SIBLEY, John Walter	A Review of Foundation Designs for Collinsville – Ross No. 1 275 kV Transmission Line with Special Reference to Lateral Loads

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1982	ROY, Robert James	Total Force and Moment Measurement on Wind Tunnel Models of Low Rise Buildings
1983	BOHANNA, Hamish	A Review of Rockbolting Practice in the Modified MICAF, Mount Isa Mines
1983	FAURE, Michael	Geomechanics of the 1100 Orebody Mount Isa
1983	GRANT, J.R.	Investigation into Transducer-Ground Coupling Techniques for Surface Blast Vibration Measurement
1983	VIDLER, Patrick Francis	Numerical Modelling of Mass Transport in Well-Mixed Estuaries
1983	O'REGAN, Gregory James	Engineering Assessment of a Sedimentary Rock Mass Using Seismic Techniques
1983	GONANO, David	Application of a Finite Element Model to the Analysis of Timber Framed Ceiling Diaphragms
1984	KELLY, Michael Shaun	Practical In-Seam Drainage at Appin Colliery
1984	WARNER, Kenneth Rowland	Sub-Surface Drainage of Landslide-Prone Slopes by Means of Horizontal Boreholes.
1985	BEST, Ross James	Evaluation of Fluctuating Wind Loads using Wind Tunnel Pressure Measurements
1985	HANLEY, Peter Leslie	A Comparison of Two Strategies for Reducing Urban Water Consumption in Townsville
1985	VINCENT, Millist	A Generalised Discrete Event Simulation Model of a Multipurpose Port
1985	SMITH, Terence Reginald	A Study of De-Stressing a Longhole Stopping Area using Finite Difference Mathematical Modelling
1985	MATHEWS, Roger Esmond	Fracture Plane Control using Linear Shaped Charges
1985	LAWRENCE, William J.C.	Non-Linear Numerical Modelling of Select Geomechanical Problems at Mount Isa Mines, Australia
1986	TARRANT, G.C.	The Application of Geostatistics to RQD and Bedding Break Frequency in Core at Hilton Mine, Mount Isa, Queensland
1986	RENEWICK, Maxwell Thomas	Design of a Flexible Fill Mat and Mining System for the Large Scale Underhand Extraction of Narrow, Steeply Dipping Orebodies
1986	MALKIN, William George	A Description of Atlantis. A Training Model for Disaster Relief Management
1986	GRICE, Anthony Graham	Ground Support Review at Mount Isa Mines Limited
1986	CROSTHWAITE, Caroline Anne	Acid-Ageing of Lignocellulosics to improve ruminant Disgestibility – Application to Bagasse, Wheat and Rice Straw, Spear Grass Hay, Oat and Rice Hulls and Newsprint
1987	SEVILLE, Richard Phillip	A Case History: Investigation and Design of the Extension to the Pharlap Open Cut Gold Mine Meekatharra, Western Australia.
1987	LITTLE, Trevor Neil	Lochiel Trial Pit – Substantiation and Conceptual Design
1987	LEITCH, Campbell John	A Preliminary Three Dimensional Analysis of Diaphragm Stresses in a Simple House Structure under Lateral Wind Load
1987	HATFIELD, Alfred Paul Winslow	An Investigation into the Retention Integrity of Aplin's Weir and Black School Weir Ross River Townsville
1987	ARMSTRONG, Kenneth John	Rock Stress Measurements at the Burdekin Falls Dam Site
1988	SERATE, Elijah B.	Coastal Wind Field Data Analysis
1988	SOEDIBJO, Bambang Santoso	Interrelationship Between River Run-Off and Fluorescent Bands in Coral
1988	TANGJAITRONG, Supichai	Application of Remote Sensing to the Management of a Tidal Wetland
1988	MAT, Hassan Bin	The Greenhouse Effect and its Impact on Coastal Zone Management
1988	FORURIA, Jose	A Simulation Model for Management of Water Quality in a Water Supply Reservoir
1988	DAN, Phuong Dung	Nocturnal Cooling of Water Flowing over an Inclined Surface.
1989	HAUSTORFER, Ivan John	Predication of Vertical and Lateral Movements of Embankments Located on Compressible Foundations with Particular Reference to Spill Through Bridge Abutments.
1989	CREES, Mark Randall	Computer Simulation and Economic Evaluation of a Solar Powered Cascaded Hybrid Air-Conditioning System.

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1990	STANGER, Alan Burns	Rock Mass Discontinuities and the Pre-Mining Stress Field at the Renison Mine
1990	RAUERT, Neil Stephen	A Muckpile Oversize Investigation in 13 Stope at the Pasminco Zinc Mine, Broken Hill
1990	WOODWARD, Richard Charles	Geotechnical Aspects of the Burrinjuck Dam Flood Security Upgrading
1990	COLWELL, Mark Gerard	An Investigation into the effect of Blasthole Firing Sequence on Muckpile Displacement
1990	GREENSILL, Barrie Neil	An Investigation of Short Bored Piers Subjected to Combined Uplift and Lateral Loads
1990	MITT, Peter Sulev	A Review and Analysis of Open Stope Fialure within the N42C Orebody, Foaster Complex, Kambalda
1990	O'BRYAN, Peter Robin	A Case History: Investigation of Slope Failure and Development of future Mining Strategies South Wall, East Pit, Mt Whaleback Open Pit Newman, Western Australia
1991	SELVARAJAH, Sellathurai	Seepage through Masonry Cracks
1991	LOGAN, Andrew Samuel	Stress Analysis of Hilton Initial Mining Block 1990-1995
1991	CARTER, Michael Ian Edward	Mass Action Programs for Accident Reduction with Applications to North Queensland
1991	RYAN, Ian Allan	The Development of a Tobacco Curing Energy Model and Some Applications
1991	MCKEAN, Stephen Barry	Instrumented Rotary Drilling and Heavy Dynamic Probing as Predictive Tools for the Construction Performance of Piles in Coralline/Carbonate Materials
1992	BLOXHAM, Craig Douglas	Pressure Relief of Low Rise Industrial Buildings in Strong Winds from Roof Ventilators
1992	NGUYEN, Nghiep Van	Horiztonal Round Buoyant Jet Entering a Cross Current in Shallow Water
1992	HILLS, Peter Bernard	Geomechanics of the Prince Lyell Mine area and development of a geotechnically based mine design philosophy for mining at depth
1992	DAWSON, Ian Alexander	Investigation of Glass Fin Behaviour in Two-Sided Structural Glazing
1992	LAWLOR, Michael David	A Case Study of the Interactive Design of Mine Openings using Applied Rock Engineering – Telfer Underground Project Western Australia
1993	DUGAN, Kevin	Numerical Modelling as an Aid in Slope Stability Analyses
1993	FOTAKIS, Dion Michael	A Comparison of Monitored Stress Changes with values Calculated by a Two Dimensional Numerical Model
1993	URQUHART, Keith	Computer Modelling of Fault Behaviour in Cut and Fill Mining Hilton Mine
1993	COPE, Brendan Leslie	15 Sub Stope Crown Pillar Extraction Long Shaft Kambalda Nickel Mines
1994	BIKAUNIEKS, Paul John	A Modelling approach to Larval Dispersal and Reef Fish Recruitment
1994	GILL, Matthew Damian	A Technical Evaluation of Explosive/Rock Interaction in an Underground Mine
1995	THOMPSON, Mark	Case Study: Rail Cutting Instability Ormiston, Queensland
1995	GUTHRIE, Brian Stephen	Management of the Augmentation and Development of the Water Supply Network of the City of Townsville over a 20 year Period
1996	RWENYAGIRA, Venant E.K.	Management of Wastewater Overflows and Treatment Plant Bypass Systems
1996	MOLONEY, Benjamin Luke John	Oil Spill Containment Using Booms
1996	GABRIEL, Bashir	Behaviour and Strength of Plate-End and Cone-End Pressure Vessels
1997	WAQAINABETE, Ifereimi Yagona	Cyclone Risk Assessment for Townsville and Thuringowa Housing Stock: A Pilot Study
1998	DAVIS, Ryan Edward	Geotechnical Characterisation of Soft Clays in Tropical North Queensland
1998	LOVISA, Noel Wilhelmus	Domestic Energy Management System
1999	ARNOLD, Mark Andrew	Artificial Neural Networks applied to the Prediction of Settlements of Shallow Foundations in Granular Soils
1999	CHAN, Franklin	Comparison of Daily and Monthly Effective Rainfall Models

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2000	HURTADO GONZALEZ, Carols Eduardo	Morphology and Filtration studies of Sugar Cane Wax
2001	PATERSON, Chris	An Evaluation of the Effectiveness of Environmental Management Systems, with particular reference to the methodologies adopted at the Port of Townsville from 1991 - 1996
2001	ROBSON, Anthony	Design of Mechatronic Device for Medical Research - VRIST
2001	BLACKBURN, Craig	JCU METSAT II – High Resolution Satellite Imagery
2004	LOWE, Rodney	Development of a Novel Rotationally Moulded Solar Hot Water System – Embargoed until 2009
2004	PENNISI, Steve	Development of a more energy efficient Roberts evaporator based on CFD modeling
2005	BIRD, James C	Modelling Sub-Reef Thermodynamics to Predict Coral Bleaching: A Case Study at Scott Reef, WA
2005	RACKEMANN, Darryn	Evaluation of circulation and heat transfer in calandria tubes of crystallisation vacuum pans
2005	ALBITRES, William Villareal	An Experimental Investigation into the Effect of Interface Friction on Bagasse Compaction between Grooved Steel Patens.
2006	PAGE, Rayner	Ground Detection Sensor for Cane Harvester Base-Cutter Height Control