



ECONOMIC GEOLOGY
RESEARCH UNIT

University of the Witwatersrand
Johannesburg

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BIBLIOGRAPHY OF THESES IN THE
GEOLOGICAL SCIENCES SUBMITTED TO
UNIVERSITIES IN SOUTH AFRICA

1987 - 1993

C.R. ANHAEUSSER

— • INFORMATION CIRCULAR No. 270

UNIVERSITY OF THE WITWATERSRAND
JOHANNESBURG

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SUBMITTED TO UNIVERSITIES IN SOUTH AFRICA

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Compiled by

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November, 1993

**BIBLIOGRAPHY OF THESES IN THE GEOLOGICAL SCIENCES
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PREFACE

This, the fourth edition of a bibliography of theses in the geological sciences submitted to South African universities follows three previous editions published by the Economic Geology Research Unit in November, 1960, March, 1972 and April, 1987, respectively. The first and second editions were compiled by D.A. Pretorius and appeared as Information Circulars Nos. 2 and 67. A listing of theses lodged in 14 universities in southern Africa, covering the period 1972 to 1986 inclusive, was compiled by C.R. Anhaeusser and appeared as Information Circular No. 195.

Since the third edition, where 14 universities were listed, one (the University of Zimbabwe) has not been included as it was decided to restrict the entries to South African universities alone.

The accuracy of the bibliography rests with the various Geological Departments that responded to a request for a full listing of theses submitted to their respective departments. As with past experiences in compiling these bibliographies, library and departmental records at many universities are not in a form that can be readily utilized and many errors and omissions were encountered. Discrepancies, omissions and errors in previous editions that were brought to the attention of the compiler have, wherever possible, been attended to and appear as Errata at the end of this publication. Should any other errors or omissions be noted in this compilation they should be directed to the compiler.

As with earlier editions, discrepancies have been noted between the dates on the title pages of theses and the dates shown in the library and departmental records of the various universities. This has come about mainly through the fact that the theses might be submitted in one year, but the candidates might only graduate in the following year. Wherever possible the date on the title page is listed in the present compilation, but the reader should be aware that discrepancies (usually one year either way) may be encountered in the dates of some theses.

The following abbreviations have been used in the listings with respect to the full names and addresses of the geology departments of the universities to which the theses were submitted for higher degrees:

Cape Town	-	University of Cape Town, Private Bag, Rondebosch 7700
Dbn - Westville	-	University of Durban-Westville, Private Bag X54001, Durban 4000
Natal (Dbn)	-	University of Natal, P.O. Box 375, Pietermaritzburg 3200.
O.F.S.	-	University of the Orange Free State, P.O. Box 339, Bloemfontein 9300
Port Elizabeth	-	University of Port Elizabeth, P.O. Box 1600, Port Elizabeth 6000

Potchefstroom	-	Potchefstroom University for Christian Higher Education, Private Bag X6001, Potchefstroom 2520
Pretoria	-	University of Pretoria, Hillcrest, Pretoria 0083
R.A.U.	-	Rand Afrikaans University, P.O. Box 524, Johannesburg 2000
Rhodes	-	Rhodes University, P.O. Box 94, Grahamstown 6140
Stellenbosch	-	University of Stellenbosch, Private Bag X5018, Stellenbosch 7600
Western Cape	-	University of the Western Cape, Private Bag X17, Bellville 7535
Witwatersrand	-	University of the Witwatersrand, Private Bag 3, Wits 2050, Johannesburg.

The compiler would like to thank the following persons at the various South African universities for having assisted by supplying the information used to prepare this bibliography: Prof. A. le Roex (Cape Town), Prof. M.R. Cooper (Durban-Westville), Prof. A.H. Wilson (Natal - Pmb), Prof. N.J. Visser (O.F.S.), Prof. I.C. Rust and Shelagh Matthews (Port Elizabeth), Dr. J.J. Mayer (Potchefstroom), Prof. S.A. de Waal and Prof. E.B. Förtsch (Pretoria), Prof. C. Roering and Prof. J.M. Barton, Jnr (R.A.U.), Prof. R. Jacob and Mrs. S. Brooks (Rhodes), Prof. A. Rozendaal (Stellenbosch), Prof. J.M. van Bever Donker (Western Cape) and Profs. T.S. McCarthy and B. Corner, as well as Judy Wilmot (Witwatersrand).

Finally, very special thanks are extended to Mrs. Janet Long who assisted the compiler by committing the lists supplied by the universities to the computer data base and for her patience and efficiency in helping to prepare this bibliography for publication.

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**BIBLIOGRAPHY OF THESES IN THE GEOLOGICAL SCIENCES
SUBMITTED TO UNIVERSITIES IN SOUTHERN AFRICA
1987 - 1993**

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THESES ARRANGED ALPHABETICALLY ACCORDING TO AUTHOR

- AGENBACHT, A.L.D.** - 'n Geologiese ondersoek van die T'oubep Suite, suidwes van Kakamas, NW-Kaapland.
M.Sc. - O.F.S.
- ANDERSEN, N.J.B.** - A structural analysis of the Vaalputs waste disposal site and environs, Bushmanland, South Africa.
M.Sc. - Pretoria
- ANTOINE, L.A.G.** - Processing and interpretation of near-earth satellite magnetic data.
Ph.D. - Witwatersrand
- ARMITAGE, G.J. (1992)** - The petrogenesis of potholes in the UG2 Chromitite Layer, Crocodile River Mine, Western Bushveld Complex.
M.Sc. - Natal (Pmb)
- ARMSTRONG, R.A. (1978)** - A geological and geochemical appraisal of the Rooi Rand dyke swarm, Lebombo.
M.Sc. - Natal (Dbn)
- ARMSTRONG, R.A. (1987)** - Geochronological studies on Archaean and Proterozoic formations of the foreland of the Namaqua front and possible correlates on the Kaapvaal Craton.
Ph.D. - Witwatersrand
- BAARS, F.J. (1990)** - Evidence for partial melting in the Garies-Platbakkies supracrustal gneiss belt, central Namaqualand.
M.Sc. - Cape Town
- BADENHORST, F.P. (1992)** - Lithostratigraphy, facies changes and regional correlation of part of the Damara Sequence.
M.Sc. - Port Elizabeth
- BADENHORST, J.C. (1991)** - The Precambrian iron-formations in the Limpopo Belt as represented by the magnetite quartzite deposits at Moonlight, Koedoesrand area, northern Transvaal.
M.Sc. - Rhodes
- BAILEY, A.C. (1991)** - The stratigraphy and sedimentology of the upper Johannesburg and Turffontein Subgroups in the southwestern portion of the Welkom Goldfield.
M.Sc. - Witwatersrand

- BARCLAY, J.** (1988) - Anthracite in South Africa with special reference to its origin.
Ph.D. - Pretoria
- BARKER, W.H.** (1991) - Geophysical studies of the Limpopo Belt.
M.Sc. - Witwatersrand
- BARNARD, H.S.** (1988) - Die ingenieursgeologiese inset tot kanaalkonstruksie.
M.Sc. - Pretoria
- BARNARD, J.M.** (1987) - Die verband tussen die petrografiese en chemiese eienskappe van Suid-Afrikaanse steenkool.
M.Sc. Pretoria
- BARNARDT, C.A.** (1987) - The application of ultrasonic nebulization to ICP-AES analysis of metallurgical and geological samples.
M.Sc. - Stellenbosch
- BARR, J.M.** (1988) - Isotope character of barite and ore genesis in central Bushmanland.
M.Sc. - Witwatersrand
- BEATTIE, M.** (1991) - Alteration and gold mineralisation in the Roodepoort Goldfield, Pietersburg granite-greenstone terrane.
M.Sc. - R.A.U.
- BERLENBACH, J.W.** (1993) - The mechanics of bedding-parallel faulting associated with the Ventersdorp contact reef on the Kloof Gold Mine.
Ph.D. - R.A.U.
- BERLINER, N.** (1992) - A comparison of bedrock depths derived from a gravity survey versus drilling, in a dolomite environment.
M.Sc. - Pretoria
- BLAMEY, N.J.F.** (1992) - The geology and evaluation of the 'A'-Reef at No. 3 Shaft, Western Holdings Mine, Welkom Goldfield.
M.Sc. - Rhodes
- BLEEKER, N.A.** (1990) - Investigation of possible volcanogenic mineralisation in the Ventersdorp Supergroup of the northern Cape Province.
M.Sc. - O.F.S.

- BLOM, M.P. (1988)** - Selected magnetic and gravity anomalies in the eastern Transvaal and their possible relation to the Rustenburg Layered Suite.
M.Sc. - Pretoria
- BOER, R.H. (1989)** - The petrogenesis of the glimmerite occurrences in the Koperberg Suite, Namaqualand.
M.Sc. - O.F.S.
- BOHLENDER, F.H. (1993)** - Igneous and metamorphic charnockitic rocks in the Southern Marginal Zone of the Limpopo Belt with special emphasis on the Matok enderbitic-granitic suite.
Ph.D. - R.A.U.
- BOOTH, P.W.K. (1990)** - Pan-African imprint on the Early to Mid-Proterozoic Richtersveld and Bushmanland Subprovince near Eksteenfontein, Namaqualand, Republic of South Africa.
Ph.D. - Cape Town
- BORG, G. (1987)** - Controls on stratabound copper mineralization at Klein Aub Mine and similar deposits within the Kalahari copperbelts of South West Africa/Namibia and Botswana.
M.Sc. - Witwatersrand
- BOSCH, G.L. (1990)** - The mineralogy and chemistry of pulverised fuel ash produced by three South African coal-burning power stations.
M.Sc. - Cape Town
- BOSCH, P.J.A. (1992)** - Die geologie van die Wolkberg Groep tussen die Abel Erasmuspas en Graskop, Oos-Transvaal.
M.Sc. - Pretoria
- BOTES, Z.A. (1987)** - A petrographic, mineralogical and geochemical study of a late shear zone in the Fafa granite, Natal.
M.Sc. - Natal (Dbn)
- BOTHA, G.A. (1992)** - The geology and palaeopedology of Late Quaternary colluvial sediments in northern Natal.
Ph.D. - Natal (Pmb)
- BOTHA, M.J. (1987)** - Petrology and geochemistry of the Lower Group Chromitites and host rocks on the farm Zandspruit 168 JP, western Bushveld Complex.
M.Sc. - Rhodes

- BOTHA, P.A. (1990)** - 'n Mineralogiese benadering tot die optimisering van sintergehalte.
Ph.D. - Pretoria
- BRAWN, D.R. (1989)** - A maximum entropy approach to underconstraint and inconsistency in the seismic source inverse problem; finding and interpreting seismic source moments.
Ph.D. - Witwatersrand
- BRENNAN, M.B. (1992)** - The genesis of ilmenite-rich heavy mineral deposits in the Bothaville/Delmas area, and an economic analysis of titanium, with particular reference to the Dwarsfontein deposit, Delmas district.
M.Sc. - Rhodes
- BRINK, M.C. (1987)** - Tektoniese en stratigrafiese ontwikkeling van die Witwatersrand Supergroep en verwante gesteentes in die gebied noord en oos van Klerksdorp.
Ph.D. - R.A.U.
- BRISTOW, D.M. (1989)** - The petrology and geochemistry of the lower critical zone, Winterveld Chrome Mine, eastern Transvaal, Bushveld Complex, with particular reference to the disruptive pegmatoids.
Ph.D. - Natal (Pmb)
- BRISTOW, J.W. (1977)** - Geology and geochemistry of the southern Lebombo.
M.Sc. - Natal (Dbn)
- BRYNARD, H.J. (1988)** - A petrological and geochemical study regarding the suitability of the Vaalputs radioactive waste disposal facility.
Ph.D. - Pretoria
- BUCK, P.J. (1988)** - Sedimentology and micropalaeontology of gravity cores from the N.E. Atlantic continental slope, south west of Ireland.
M.Sc. - Cape Town
- BULLEN, W.D. (1991)** - Gold mineralization in an Archaean granite-greenstone remnant west of Melmoth, Natal: ore genesis and implications for exploration.
M.Sc. - Rhodes

- BURKINSHAW, J.R.** - A study of the airflow on the windward slope of a transverse dune in the Alexandria coastal dunefield.
M.Sc. - Port Elizabeth
- BUTTRICK, D.B.** (1992) - Characterisation and appropriate development of sites on dolomite.
Ph.D. - Pretoria
- CALLAGHAN, C.C.** - The geology of the Waterberg Group in the southern portion of the Waterberg Basin.
M.Sc. - Pretoria
- CHAMPION, A.T.** (1971) - The mineralogy and related geology of the Albert silver mine, Bronkhorstspruit.
M.Sc. - Natal (Dbn)
- CHARLESWORTH, E.G.** - Tectonics and metamorphism of the northern margin of the Namaqua-Natal Belt, near Eshowe, Natal.
Ph.D. - Natal (Dbn)
- CHRISTEAENS, L.J.** - Proterozoic sedimentology and geochemistry of the Sishen area - law of facies approach and hypopycnal flow modelling.
Ph.D. - O.F.S.
- CHRISTIE, A.D.M.** - Stratigraphy and sedimentology of the Molteno formation in the Elliot-Indwe area, Cape Province.
M.Sc. - Natal (Dbn)
- CHRISTIE, A.D.M.** - Sedimentary models for coal formation in the Klip River Coalfield.
Ph.D. - Natal (Dbn)
- CILLIERS, B.** (1990) - 'n Petrogenetiese studie van 'n gedeelte van die Namakwalandse metamorfe kompleks langs die Oranjerivier, tussen die Ramandsdrif- en Homrivier, Warmbaddistrik suidelike S.W.A./Namibia.
M.Sc. - O.F.S.
- CILLIERS, F.H.** (1986) - Isotope characteristivs of the Areachap Group in the Boksputs area, NW Cape.
M.Sc. - O.F.S.
- CLAASSEN, R.** (1991) - Microbiological oxidation of sulphide minerals from Agnes, New Consort and Sheba gold mines.
M.Sc. - Pretoria

- CLENDENIN, C.W.** - Tectonic influence on the evolution of the early Proterozoic Transvaal sea, southern Africa.
Ph.D. - Witwatersrand
(1989)
- COETSEE, Van der Ahee** - Ekwivalensie in tydbestek EM-sonderings vir 'n vertikale magnetiese dipoolbron.
M.Sc. - Pretoria
(1987)
- COETZEE, D.S. (1993)** - Syn-tectonic quartz vein formation in relationship to metamorphism, fluid inclusions and thrust tectonism on the northern margin of the Witwatersrand Basin.
Ph.D. - R.A.U.
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- COGHO, V.E. (1988)** - Development of a groundwater data base for southern Africa, with special reference to its use in regional and local geohydrological studies.
Ph.D. - O.F.S.
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- COLE, R.S.J. (1991)** - Design of a seismic data acquisition system and automatic triggering software.
M.Sc. - Witwatersrand
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- COLGAN, E.A. (1992)** - Petrogenesis of the Eshowe melilitites.
M.Sc. - Cape Town
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- COLLISTON, W.P.** - A stratigraphic and structural investigation of part of the Namaqua mobile belt between Dabenoris and Steyerkraal, South Africa.
Ph.D. - O.F.S.
(1990)
- CONNELL, S.H. (1988)** - Internal fields in diamond and related materials.
Ph.D. - Witwatersrand
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- COOPER, J.A.G. (1987)** - Sedimentation in the Mgeni estuary, Natal, South Africa.
M.Sc. - Natal (Dbn)
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- COOPER, J.A.G. (1992)** - Sedimentary models and geomorphological classification of river-mouths on a sub-tropical, wave-dominated coast, Natal, South Africa.
Ph.D. - Natal (Dbn)
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- COOPER, M.R. (1974)** - A revision of the lower cretaceous (Upper Valanginian) Cephalopoda from the Uitenhage formation of South Africa.
M.Sc. - Natal (Dbn)
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- CORBETT, I.** (1989) - The sedimentology of the diamondiferous deflation deposits within the Sperrgebiet, Namibia.
Ph.D. - Cape Town
- COXON, B.D.** (1993) - Laterisation and secondary gold distribution with particular reference to Western Australia.
M.Sc. - Rhodes
- DANEEL, G.J.** (1987) - The structural control of gold mineralization in the Moodies Hills which surround the Agnes Gold Mine, Barberton Greenstone Belt.
M.Sc. - Natal (Dbn)
- DANIELS, L.R.M.** (1991) - Diamonds and related minerals from the Dokolwayo kimberlite, Kingdom of Swaziland.
Ph.D. - Cape Town
- DEANE, J.G.** (1993) - The controls on "contact type" Cu-Pb (Ag) mineralization within the Tsumeb Subgroup of the Otavi Valley Syncline, northern Namibia.
M.Sc. - Cape Town
- DE BEER, C.H.** (1989) - Structure of the Cape Fold Belt in the Ceres syntaxis.
M.Sc. - Stellenbosch
- DE BRUIN, D.** (1991) - The megacryst suite from the Schuller kimberlite, South Africa.
Ph.D. - Cape Town
- DE KLERK, I.D.** (1991) - The nature and origin of gold mineralisation in the Tugela Valley: Natal structural and metamorphic province.
M.Sc. - Rhodes
- DE KLERK, W.J.** (1992) - Petrogenesis of the upper Critical Zone in the western Bushveld Complex with emphasis on the UG1 Footwall and Bastard Units.
Ph.D. - Rhodes
- DE KOCK, G.S.** (1989) - 'n Geotektoniese studie van die Damara-orogeen in 'n gebied suidoos van Karibib, SWA.
Ph.D. - O.F.S.
- DE KOCK, N.J.** (1987) - Die verandering van die wandgesteentes in die omgewing van die ertsliggame van Rosh Pinah.
M.Sc. - Pretoria

- DELL, R.W. (1983)** - Major fault systems in the mining area of Western Holdings Limited Gold Mine (Holdings D. Division) in the Orange Free State goldfields.
M.Sc. - Natal (Dbn)
- DIPPENAAR, A.T. (1988)** - The development of microcomputer software for the processing and interpretation of shallow reflection seismic data.
M.Sc. - Pretoria
- DIXON, R.D. (1988)** - Sugilite and associated metamorphic silicate minerals from Wessels Mine Kalahari Manganese Field.
M.Sc. - Cape Town
- DOMONEY, R.N. (1987)** - Stress and strain variation across shear zones in the Areachap Group, northwest Cape Province, South Africa.
M.Sc. - Western Cape
- DRENNAN, G.R. (1988)** - The nature of the Archaean basement in the hinterland to the Welkom Goldfield.
M.Sc. - Witwatersrand
- DU PLESSIS, C.P. (1991)** - Tectonics along the Thabazimbi-Murchison lineament.
Ph.D. - Witwatersrand
- DU TOIT, J.S. (1987)** - Die toepassing van eksplorasiefase geologiese inligting op mynboubeplanning in die noordelike Secunda-steenkoolveld.
M.Sc. - R.A.U.
- DURRHEIM, R.J. (1989)** - A seismic investigation of the Kaapvaal Craton.
Ph.D. - Witwatersrand
- DU TOIT, P. (1980)** - Geology of the Nanda area, Natal.
M.Sc. - Natal (Dbn)
- DWYER, G.B. (1993)** - The geology of the Welkom Goldfield with special reference to the "A", "B" and Beatrix Reefs.
M.Sc. - Rhodes
- EGLINGTON, B.M. (1987)** - Field geochemical and isotope studies of selected areas of Proterozoic crust in south-central Natal.
Ph.D. - Natal (Dbn)

- ELSENBROEK, J.H.** (1991) - Die struktuur en petrologie van die alkaligraniet in die Vredefortkoepel noorwes van Parys.
M.Sc. - Potchefstroom
- ELSMERE, D.** (1987) - The characteristics of fluid inclusions in the metamorphites and mineralized rocks of the Bokspuits region, Upington.
M.Sc. - O.F.S.
- EVANS, M.J.** (1984) - Precambrian geology west of Scottburgh, Natal.
M.Sc. - Natal (Dbn)
- FARROW, D.J.** (1988) - An improved chemical method for whole-rock Pb separations and its application to the petrogenesis of the Rooiberg felsite.
M.Sc. - Pretoria
- FAURE, K.** (1989) - A stable isotope study of the Kaap Valley tonalite, Barberton Mountain Land, South Africa.
M.Sc. - Cape Town
- FERRAZ, M.F.F.** (1989) - The nature of the Archaean basement in the provenance areas of the East Rand and Evander goldfields.
M.Sc. - Witwatersrand
- FIELD, M.** (1987) - The petrology and geochemistry of the upper critical zone of the Bushveld Complex at the Amandebult Section of Rustenburg Platinum Mines Limited, northwestern Transvaal, South Africa.
M.Sc. - Rhodes.
- FRANCIS, T.E.** (1984) - Engineering geology of the lower Umgeni valley, Durban.
M.Sc. - Natal (Dbn)
- FRANCIS, T.** (1987) - The relationship between the formation and engineering properties of soil catenas, with reference to planning.
Ph.D. - Natal (Dbn)
- FRANEY, N.J.** (1987) - A geological model of shear zone gold deposits in the Pietersburg greenstone belt, SA.
M.Sc. - Rhodes
- FREWIN, J.** (1987) - Palaeogene ostracods from the South African continental shelf.
M.Sc. - Cape Town

- GAPARA, C.S.** (1993) - A review of the deposition of iron-formation and genesis of the related iron ore deposits as a guide to exploration for Precambrian iron ore deposits in southern Africa.
M.Sc. - Rhodes
- GENIS, J.H.** (1990) - The sedimentology and depositional environment of the Beatrix Reef, Witwatersrand Supergroup.
M.Sc. - Witwatersrand
- GIDLOW, P.M.** (1993) - Rock property estimation using A V O analysis.
M.Sc. - Witwatersrand
- GRANTHAM, G.H.** (1992) - Geological evolution of western H.U. Sverdrupfjella, Dronning Maud Land, Antarctica.
Ph.D. - Natal (Pmb)
- GREYLING, E.H.** (1993) - The Mzamba Formation (Cretaceous) of the Transkei - stratigraphy, sedimentology and palaeontology.
M.Sc. - Dbn - Westville
- GOLDBACH, O.D.** (1989) - The use of seismogram waveforms to characterize the fracture zone around a mine excavation.
M.Sc. - Witwatersrand
- GREEFF, G.J.** (1991) - The geohydrology of a typical catchment in the Cape Supergroup, Bree River Valley.
Ph.D. - Stellenbosch
- GREEFF, S.C.** (1988) - 'n Petrografiese ondersoek van kooks berei uit steenkoolmengsels veral met verwysing na Soutpansberg-steenkool.
M.Sc. - Pretoria
- GROBBLER, N.G.** (1987) - Sedimentary environments of Mdloti uMgabba and Lovu Lagoons, Natal, South Africa.
M.Sc. - Natal (Dbn)
- GUY, J.E.** (1975) - The geology of an area to the northwest of Mandini, Swaziland.
M.Sc. - Natal (Dbn)
- HAGELSKAMP, H.H.B.** (1987) - The influence of depositional environment and dolerite intrusions on the quality of coal - a study of the Twistdraai Mine area near Secunda, southeastern Transvaal.
D.Sc. Pretoria

- HAMILTON, C.C.** (1989) - The petrography, phase chemistry and petrology of South-West Indian Ridge basalts dredged between 16 and 26 degrees east.
M.Sc. - Cape Town
- HARLEY, M.** (1993) - The geology of the Sabie-Pilgrim's Rest Goldfield, with special reference to Elandshoogte Mine.
Ph.D. - Witwatersrand
- HARMER, R.E.** (1980) - Pre-Cape geology of the Tugela Valley north of Kranskop, Natal.
M.Sc. - Natal (Dbn)
- HARMER, R.E.** (1992) - The geochemistry of Spitskop and related alkaline intrusions.
Ph.D. - Cape Town
- HARNEY, D.M.W.** (1991) - Mineralogy of the lower part of the upper zone, eastern Bushveld Complex: implications for ore-forming processes.
Ph.D. - Pretoria
- HARRIS, P.D.** (1992) - The evolution and structural setting of pegmatites at the New Consort Gold Mines, Barberton.
M.Sc. - Witwatersrand
- HARRIS, R.W.** (1992) - A structural analysis of the Hartbees River Thrust Belt, with special emphasis on the nature and origin of the change in structural patterns between the Bushmanland and Gordonia Subprovinces.
Ph.D. - Cape Town
- HARRISS, D.R.H.** (1985) - An investigation of the engineering geology of five new railway tunnels between Vryheid and Richards Bay, Natal.
M.Sc. - Natal (Dbn)
- HARTOPP, P.G.** (1973) - Air photo interpretation applied to the concept of soil engineering: land pattern/facet mapping within the Beaufort Series, Karoo system.
M.Sc. - Natal (Dbn)
- HATFIELD, R.A.** (1990) - The geology and structure of the Pongola Sequence east of Piet Retief, southeastern Transvaal.
M.Sc. - Natal (Pmb)

- HATTINGH, J.** (1992) - Dispersal of sediments in the gravel-bearing braided Swartkops River, Uitenhage.
M.Sc. - Port Elizabeth
- HAVENGA, A.T.** (1992) - Petrologiese en geochemiese aspekte van die Oranjekom Kompleks langs die oostelike rand van die Namakwalandse Mobiele Gordel.
M.Sc. - O.F.S.
- HENDEY, Q.B.** (1973) - The late Cenozoic carnivora of the southwestern Cape Province.
Ph.D. - Natal (Dbn)
- HENNING, L.T.** (1992) - The palaeotopography of the Ventersdorp Contact Reef at the Western Deep Levels South Gold Mine, Carletonville, R.S.A.
M.Sc. - Potchefstroom
- HENRY, G.** (1992) - The sedimentary evolution of the Damara sequence in the lower Khan River Valley, Namibia.
Ph.D. - Witwatersrand
- HICKS, J.A.** (1988) - Gahnite and its formation in the context of regional metamorphism and mineralization in the Namaqualand Metamorphic Complex.
M.Sc. - Cape Town
- HILL, S.J.** (1989) - A study of the diamonds and xenoliths from the Star kimberlite, Orange Free State, South Africa.
M.Sc. - Cape Town
- HOAL, B.G.** (1989) - Proterozoic crustal evolution of the Awasib mountain terrain, southern Namibia.
Ph.D. - Cape Town
- HODGKINSON, G.K.** (1990) - Palaeomagnetic studies in Western Dronning Maud Land, Antarctica.
M.Sc. - Witwatersrand
- HOFMAN, D.** (1993) - Mineral chemistry and genesis of the Lower Ore Body, Broken Hill Deposit, Aggeneys.
M.Sc. - Cape Town
- HOLDSWORTH, R.** (1992) - The petrology, mineralogy and geochemistry of the upper West Rand Group in the Klerksdorp area.
M.Sc. - Witwatersrand

- HOLLEY, K.G.G.** (1987) - Investigation of seismicity and induced seismicity for a proposed large dam in the Republic of Transkei.
M.Sc. - Natal (Dbn)
- HOLLAND, M.J.** (1990) - A palaeoenvironmental analysis of the Turffontein Subgroup (Witwatersrand Supergroup) around the Vredefort Dome.
M.Sc. - Witwatersrand
- HOPS, J.J.** (1989) - Some aspects of the geochemistry of high-temperature peridotites and megacrysts from the Jagersfontein kimberlite pipe, South Africa.
Ph.D. - Cape Town
- HORN, G.F.J.** (1987) - Die genese van bauxiet in Natal.
M.Sc. - R.A.U.
- HUGHES, M.J.** (1987) - The Tsumeb ore body, Namibia, and related dolostone-hosted base metal ore deposits of Central Africa.
Ph.D. - Witwatersrand
- HUIZINGA, M.A.J.** (1988) - A study of volatile-melt inclusions in Olivines from some kimberlites.
Ph.D. - Natal (Dbn)
- HUMPHREYS, H.C.** (1991) - The tectonothermal evolution of the eastern Namaqua Province deduced from the petrology and reaction history of metapelites.
Ph.D. - Cape Town
- ILLENBERGER, W.K.** (1992) - Sediment dynamics of the Sundays estuary environment.
Ph.D. - Port Elizabeth
- JAABACK, K.M.** (1992) - A two-dimensional hydrodynamic model for the St. Lucia Estuary Mouth.
M.Sc. - Natal (Dbn)
- JACKSON, C.** (1992) - A microstructural kinematic study of selected shear zones in the Hartbees River thrust belt, northeastern Namaqua tectonic province.
M.Sc. - Rhodes

- JACOBS, R. (1989) - Die geologie van Ermelomyne en die invloed daarvan op praktiese mynprobleme.
M.Sc. - Pretoria
- JAKOB, W-R.O. (1987) - The geochemistry and radiochemistry of the uranium occurrence on the farm Kaffirsfontein 328, Beaufort West district.
D.Sc. Pretoria
- JANSEN VAN VUUREN, M.C. (1989) - The chemical properties and derived sedimentation patterns of the coal seams in the Witbank-Highveld area.
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M.Sc. - Stellenbosch
- JORDAAN, M.J. (1990) - Basin analysis of the Beaufort Group in the western part of the Karoo Basin.
Ph.D. - O.F.S.
- JOUBERT, A. (1990) - Die kwaterne fontein- en verwante lakustriene afsettings by Florisbad, OVS.
M.Sc. - O.F.S.
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- KILLICK, A.M. (1993) - Pseudotachylites of the West Rand Goldfield, Witwatersrand Basin, South Africa.
Ph.D. - R.A.U.
- KING, C.H.M. (1990) - The geology of the Tsumeb carbonate sequence and associated lead-zinc occurrences on the farm Olifantsfontein, Otavi Mountainland, Namibia.
M.Sc. - R.A.U.

- KIRKLEY, M.B.** (1987) - Aspects of the geochemistry of kimberlite carbonates.
Ph.D. - Cape Town
- KISTERS, A.F.M.** (1993) - Structural relationships of economic ore-bearers in
the Okiep Copper District, Namaqualand, N.W. Cape.
Ph.D. - Witwatersrand
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Damaran convergent continental margin, Khomas
Hochland, Central Namibia.
Ph.D. - Witwatersrand
- KUYPER, J.L.** (1980) - Geology of an area southeast of Nagle Dam, Natal.
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Zululand, South Africa.
M.Sc. - Natal (Dbn)
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komatiites.
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- LATORRE-MUZZIO, G.** - The influence of geological, genetic and
(1993) - economic factors on the ore reserve estimation of
Kwaggashoek East iron ore deposit.
M.Sc. - Rhodes
- LATORRE-MUZZIO, J.J.** - Exploration for stratabound copper, lead and zinc
(1992) - deposits in the Damara-Katanga Orogen,
central-southern Africa.
M.Sc. - Rhodes
- LAW, J.D.M.** (1990) - Mineralogy, geochemistry and alteration of
Witwatersrand metasediments in the Welkom area:
implications for mineralization.
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damage of a residential building at an open-strip coal
mine.
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southeast Cape coast as related to sea-level changes.
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- LIPSON, R.D. (1990)** - Lithogeochemistry and origin of metasediments hosting the Broken Hill deposit, Aggeneys, South Africa, and implications for ore genesis.
Ph.D. - Cape Town
- LOGAN, C.T. (1980)** - Aspects of Karoo volcanicity in the Komatipoort area, Lebombo.
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- LUDICK, D.J. (1987)** - Die stratigrafiese en petrogenetiese aspekte van die Areachapgroep in die Upington-omgewing.
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M.Sc. - Cape Town

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Ph.D. - Potchefstroom
- McKENZIE, A.D.** (1992) - Geology and mineralization of the Golden Valley Mine, northern Natal.
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- McQUILLAN, K.B.** (1986) - A computer based system for the evaluation of coalfield data.
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- McSTAY, J.H.** (1992) - Granulite-facies metamorphism partial melting of fluid buffering in the Buffels River area of Namaqualand, South Africa.
Ph.D. - Cape Town

- MEE, D.** (1988) - Bedforms, sedimentary structures and processes in the beach and surf zone of the Sundays River area.
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- MEINTJES, P.G.** (1989) - The evolution of volcanic-sedimentary basins of the Ventersdorp Supergroup near Welkom.
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- MENDONIDIS, P.** (1989) - The tectonic evolution of a portion of the southern granulite zone of the Natal Mobile Belt, between Southbroom and Glenmore, Natal.
Ph.D. - Natal (Pmb)
- MILNER, S.C.** (1988) - The geology and geochemistry of the Etendeka formation quartz latites, Namibia.
Ph.D. - Cape Town
- MINNAAR, C.L.J.** (1989) - Sedimentologie van die Supergroep Witwatersrand in die Vredefortgebied.
M.Sc. - O.F.S.
- MITCHELL, A.A.** (1988) - The petrology, mineralogy and geochemistry of the Main Zone of the Bushveld Complex at Rustenburg Platinum Mines, Union Section.
Ph.D. - Rhodes
- MISIEWICZ, J.** (1988) - The geology and metallogeny of the Otavi Mountain Land, Namibia with special reference to the Berg Aukas Pb-Zn-V deposit, and model of ore genesis.
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M.Sc. - Pretoria

- MULLER, M.R. (1990) - Lithospheric structure for the Kaapvaal Craton and its margins from the analysis of long-period and broad-band teleseismic P-waves.
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- MURPHY, P.W. (1991) - The petrology, geochemistry and classification of the Bein Venue massive sulphide deposit, Barberton mountain land.
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M.Sc. - Witwatersrand
- MYERS, R.E. (1990) - The geology of the Godwan Basin, eastern Transvaal.
Ph.D. - Witwatersrand
- NAUDÉ, J.F. (1993) - Diagenetiese betekenis van karbonaatkonkresies in die Karoo Opeenvolging, Suid-Afrika.
M.Sc. - R.A.U.
- NEETHLING, D.C. (1971) - South African earth science exploration of western Queen Maud Land, Antarctica.
Ph.D. - Natal (Dbn)
- NICHOLS, R.L. (1991) - The Springfontein prospect: a case study of a Tertiary age epithermal hot spring deposit in the eastern Cape.
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- NIENABER ROBERTS, C.J. (1987) - A mineralogical and petrographical investigation of the upper zone of the Bushveld Complex, northwest of Potgietersrus.
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M.Sc. - Pretoria

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M.Sc. - Pretoria
- O'DONOVAN, A.G. (1992) - Facies mapping of the Vaal Reef Placer as an aid to remnant pillar extraction and stope width optimisation.
M.Sc. - Rhodes
- ORR, C.M. (1973) - A study of fracture formation in a rock model.
M.Sc. - Natal (Dbn)
- OTTER, M.L. (1989) - Diamonds and their mineral inclusions from the Sloan diatremes of the Colorado-Wyoming State line Kimberlite District, North America.
Ph.D. - Cape Town
- PAIGE-GREEN, P. (1976) - The geotechnical properties of Dwyka Tillite in the Durban area.
M.Sc. - Natal (Dbn)
- PAIGE-GREEN, P. (1989) - The influence of geotechnical properties on the performance of gravel wearing course materials.
Ph.D. - Pretoria
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M.Sc. - Rhodes

- PIETERSEN, K.J.** (1992) - Richard Bay Zircon.
M.Sc. - Natal (Dbn)
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- POTGIETER, G.J.** (1992) - Tektonisme langs die noordoostelike rand van die Bosveldkompleks, Suid-Afrika.
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- POTGIETER, J.E.** (1987) - Anorogenic alkaline ring-type complexes of the Damaraland Province, Namibia and their economic potential.
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- PRETORIUS, H.P.J.** (1990) - A preliminary study of surface and groundwater quality in the Orange Free State Goldfields.
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M.Sc. - O.F.S.
- PRETORIUS, S.J.** (1987) - Die geologie in die omgweving van Swartwater en die westelike deel van die distrik Messina in die sentrale sone van die Limpopo-gordel.
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- PRICE, G.V.** (1989) - Site specific engineering geological rock mass characterization for tunnelling.
Ph.D. - Pretoria
- RAMLUCKAN, V.J.** (1993) - The petrology and geochemistry of the Karoo Sequence basaltic rocks in the Natal Drakensberg at Sani Pass.
M.Sc. - Dbn - Westville

- RAMSAY, P.J. (1991)** - Sedimentology, coral reef zonation, and late Pleistocene coastline models of the Sodwana Bay continental shelf, northern Zululand.
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- RANKINE, G.M. (1987)** - Gold metallogeny of Australia.
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- REICHHARDT, F.J. (1989)** - A petrological investigation of the transition from the lower to the upper critical zone in the central sector of the eastern Bushveld Complex.
Ph.D. - Pretoria
- RES, M. (1993)** - Petrology and geochemistry of the Hekpoort Andesite Formation between Frederikstad and Fochville.
M.Sc. - Potchefstroom
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- ROBERTS, D.L. (1981)** - Stratigraphy and sedimentology of the Natal Group in the Durban area.
M.Sc. - Natal (Dbn)

- ROBERTS, D.L. (1987)** - Depositional framework and controls on peat accumulation in the Vryheid formation of northern Natal (Utrecht and Newcastle areas).
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- ROBERTS, K. (1992)** - The marginal rocks of the Rustenburg Layered Suite of the Bushveld Complex northwest of Pretoria.
Ph.D. - Pretoria
- ROBERTS, N.J. (1972)** - The geology of an area to the northeast of Inanda, Natal.
M.Sc. - Natal (Dbn)
- ROBERTS, P.J. (1992)** - The geology and geochemistry of selected Pb-Zn deposits in the Chuniespoort/Ghaap Group of the Transvaal Sequence, South Africa.
M.Sc. - Witwatersrand
- ROBINSON, D.N. (1971)** - The geology of an area northeast of Mapumulo, Natal.
M.Sc. - Natal (Dbn)
- RODEL, J.E. (1993)** - The petrography and geochemistry of the Stolzburg and Rozentuin layered ultramafic complexes, Barberton Mountain Land, eastern Transvaal.
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Ph.D. - Pretoria
- SCHULZE-HULBE, A. 1978) - A study of the structure and metamorphism of the rocks of the Tugela Group exposed in the Mambula Mbongowane area, Natal.
M.Sc. - Natal (Dbn)
- SCHÜRMANN, L.W. (1991) - The geochemistry and petrology of the upper critical zone in the Boshoek section of the western Bushveld Complex.
M.Sc. - Pretoria
- SCOGINGS, A.J. (1991) - Alkaline intrusives from the Tugela Terrane, Natal metamorphic Province.
Ph.D. - Dbn - Westville

- SCOTT, W.D.** (1987) - A lithostratigraphic and metamorphic profile across the Kaapvaal-Namaqua boundary, northwest Cape Province.
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- SWANEPOEL, J.J.P.** - Die stratigrafie en sedimentologie van die Almannryggengroep in die Borgmassivet, Wes Koningin Maudland, Antarktika.
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Ph.D. - Rhodes
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- THOMAS, M.A.** (1990) - A facies analysis of the main conglomerate formation on East Rand Proprietary Mines Limited.
M.Sc. - Witwatersrand
- THOMAS, M.A.** (1991) - Engineering geological aspects of damage to infrastructure during the 1987/88 floods.
M.Sc. - Pretoria
- TINNEY, C.B.** (1992) - The surface geology of the Lavino Chrome Mine on the farm Grootboom 336KT, E. Transvaal.
M.Sc. - Rhodes

- TREDOUX, M.** (1990) - The platinum-group elements: nuclear methods for their analysis and their behaviour in terrestrial rocks and meteorites.
Ph.D. - Witwatersrand
- TREGONING, T.D.** (1987) - The tectono-metallogenesis during the Irumide and Pan-African events in S.W.A./Namibia.
M.Sc. - Rhodes
- TURNER, A.M.** (1992) - Zinc-lead mineralization at Pering Mine in the Griqualand west sub-basin - an isotopic study.
M.Sc. - Natal (Dbn)
- TYLER, R.** (1989) - Cyclic sedimentation and gold mineralization in the Malmani Dolomite Subgroup, Pilgrim's Rest-Sabie area, eastern Transvaal.
M.Sc. - Witwatersrand
- VAN ASWEGEN, G.** (1988) - The evolution of the Proterozoic gneisses and other metamorphites between Springbok and Vioolsdrif, South Africa.
Ph.D. - O.F.S.
- VAN COLLER, S.W.** (1989) - Die Witpoortjieverskuiwing.
M.Sc. - R.A.U.
- VAN DALSEN, M.C.** (1992) - A comparison of dip move-out algorithms - a South African case history.
M.Sc. - Pretoria
- VAN DER MERWE, S.W.** (1986) - The structural development of part of the Namaqua mobile belt in an area between Springbok and Vioolsdrif.
Ph.D. - O.F.S.
- VAN DER NEUT, M.** (1990) - Afsettingstoestande van die Pretoria Groep gesteentes in die Pretoria-Bronkhorstspruit-Delmas gebied.
M.Sc. - Pretoria
- VAN DER SPUY, D.** (1991) - The chemical characterization of authigenic carbonates from the Witbank No.2 Coal Seam: environmental and diagenetic implications.
M.Sc. - Cape Town

- VAN DER WALT, J.J.** - Evaluation of time-domain electromagnetic technique for groundwater exploration in the Kalahari.
(1991) M.Sc. - Pretoria
- VAN DER WESTHUIZEN, A.** (1992) The Bellsbank kimberlites, with special reference to a suite of purple garnet megacrysts from the Bobbejaan Mine.
M.Sc. - O.F.S.
- VAN HEERDEN, L.** - The geochemistry, mineralogy and igneous petrology of some fracture zone basalts from the southern mid-Atlantic ridge.
(1987) M.Sc. - Cape Town
- VAN ROOY, J.L.** (1991) - The durability characteristics and testing of Drakensberg basalt.
Ph.D. - Pretoria
- VAN SCHALKWYK, J.F.** - Metamorphism of ultramafic rocks during the Limpopo orogeny: evidence for the timing and significance of CO₂-rich fluids.
(1991) Ph.D. - R.A.U.
- VENNEMANN, T.W.** - A study of some rocks from the South Marginal Zone of the Limpopo Belt.
(1989) Ph.D. - Cape Town
- VENTER, J.L.** (1989) - 'n Sedimentologiese studie van die Dwyka-formasie en geassosieerde gesteentes noord van Loeriesfontein.
M.Sc. - O.F.S.
- VERBEEK, J.A.** (1991) - The geology and geochemistry of the Archaean granitoid-supracrustal terrane southeast of Piet Retief, Transvaal.
Ph.D. - Natal (Pmb)
- VERRYN, S.M.C.** (1989) - Geochemical and petrographical investigation of the Waaikraal gold deposit, northwest of Brits, Transvaal.
M.Sc. - Pretoria
- VERSFELD, J.A.** (1988) - The geology of the Nondweni greenstone belt, Natal.
Ph.D. - Natal (Pmb)

- VESELINOVIC, M.** - Genetic models for epithermal gold deposits and applications to exploration.
(1992) M.Sc. - Rhodes
- VILJOEN, K.S.** (1988) - Petrology of the Sutherland commonage melilitite intrusives.
M.Sc. - Cape Town
- VON VEH, M.W.** (1988) - The stratigraphy and structural evolution of the Late Proterozoic Gariep Belt in the Sendelingsdrif-Annisfontein area, northwestern Cape Province.
Ph.D. - Cape Town
- WAGENER, J.H.F.** - Geology of the Prieska copper-zinc deposit, north-western Cape.
(1985) M.Sc. - Natal (Dbn)
- WALLMACH, T.** (1988) - The petrogenesis of high grade contact metamorphic mineral assemblages in calc-silicate xenoliths, eastern Bushveld Complex, South Africa.
D.Sc. - Pretoria
- WALRAVEN, F.C.** (1990) - The geology and alteration-mineralisation of the Gamigab tin prospect, Damaraland, Namibia.
M.Sc. - Rhodes
- WATERS, F.G.** (1987) - A geochemical study of metasomatised peridotite and marid nodules from the Kimberley pipes, South Africa.
Ph.D. - Cape Town
- WEBBER, S.J.** (1990) - Quantitative modelling of mining induced seismicity.
M.Sc. - Witwatersrand
- WEDER, E.E.W.** (1990) - The significance of gravity and seismic reflection techniques in deriving a new structural model for the area south of the Central Rand gold fields.
Ph.D. - Pretoria
- WHITECROSS, S.J.** - The geology of Gravelotte Emerald Mine, North Eastern Transvaal.
(1992) M.Sc. - Natal (Dbn)
- WHITFIELD, D.K.** - The genesis and controls of gold mineralization south of Rehoboth, Namibia.
(1991) M.Sc. - Rhodes

- WIEGMANS, F.E. (1990) -** Evaluation of frequency-domain electromagnetic methods in groundwater exploration.
M.Sc. - Pretoria
- WILSHER, W.A. (1987) -** A structural interpretation of the Witwatersrand Basin through the application of automated depth algorithms to both gravity and aeromagnetic data.
M.Sc. - Witwatersrand
- WILSON, M.G.C. (1990) -** A preliminary appraisal of the mineral potential of Venda based on a reconnaissance geochemical soil sampling survey and literature review.
M.Sc. - Rhodes
- WIPPLINGER, P.E. (1991) -** The molybdenum potential of the sandstone-hosted uranium occurrences in the Beaufort Group of the southern Karoo.
M.Sc. - Pretoria
- WOODBORNE, M.W. (1987) -** The geology of the diamondiferous inner shelf off Namaqualand between Stompneus Bay and White Point just north of the Buffels River.
M.Sc. - Cape Town
- WRIGHT, C.I. (1991) -** The sedimentary dynamics of St. Lucia estuary mouth Zululand, S. Africa.
M.Sc. - Natal (Dbn)
- ZAWADA, P.K. (1987) -** The stratigraphy and sedimentation of the Ecca and Beaufort Groups in the Fauresmith and Jagersfontein districts.
M.Sc. - Witwatersrand

THESES ARRANGED ALPHABETICALLY ACCORDING TO UNIVERSITY

UNIVERSITY OF CAPE TOWN

- 1987 Ph.D. - M.B. Kirkley
Aspects of the geochemistry of kimberlite carbonates.
- Ph.D. - F.G. Waters
A geochemical study of metasomatised peridotite and marid nodules from the Kimberley pipes, South Africa.
- M.Sc. - J. Frewin
Palaeogene ostracods from the South African continental shelf.

- 1987 M.Sc. - N.M. Steven
(contd) Tungsten mineralization at the Otjua Prospect: a geological and geochemical investigation.
- M.Sc. - A. Terhorst
The seafloor environment off Simon's Town in False Bay, revealed by side-scan sonar, bottom sampling, diver observations and underwater photography.
- M.Sc. - L. van Heerden
The geochemistry, mineralogy and igneous petrology of some fracture zone basalts from the southern mid-Atlantic ridge.
- M.Sc. - M.W. Woodborne
The geology of the diamondiferous inner shelf off Namaqualand between Stompneus Bay and White Point just north of the Buffels River.
- 1988 Ph.D. - S.C. Milner
The geology and geochemistry of the Etendeka Formation quartz latites, Namibia.
- Ph.D. - R.J. Sweeney
Geochemistry of the Sabie River Basalt Formation in the Central Lebombo, Karoo Igneous Province.
- Ph.D. - M.W. von Veh
The stratigraphy and structural evolution of the Late Proterozoic Gariep Belt in the Sendelingsdrif-Annisfontein area, northwestern Cape Province.
- M.Sc. - P.J. Buck
Sedimentology and micropalaeontology of gravity cores from the N.E. Atlantic continental slope, south west of Ireland.
- M.Sc. - R.D. Dixon
Sugilite and associated metamorphic silicate minerals from Wessels Mine Kalahari Manganese Field.
- M.Sc. - J.A. Hicks
Gahnite and its formation in the context of regional metamorphism and mineralization in the Namaqualand Metamorphic Complex.
- M.Sc. - A.G. Thamm
Contributions to the geology of the Table Mountain Group.

- 1988 M.Sc. - K.S. Viljoen
(contd) Petrology of the Sutherland commonage melilitite intrusives.
- 1989 Ph.D. - I. Corbett
The sedimentology of the diamondiferous deflation deposits within the Sperrgebiet, Namibia.
- Ph.D. - B.G. Hoal
Proterozoic crustal evolution of the Awasib mountain terrain, southern Namibia.
- Ph.D. - J.J. Hops
Some aspects of the geochemistry of high-temperature peridotites and megacrysts from the Jagersfontein kimberlite pipe, South Africa.
- Ph.D. - M.L. Otter
Diamonds and their mineral inclusions from the Sloan diatremes of the Colorado-Wyoming State Line Kimberlite District, North America.
- Ph.D. - R.M.H. Smith
Fluvial facies, vertebrate taphonomy and palaeosols of the Teekloof Formation (Permian) near Beaufort West, Cape Province, South Africa.
- Ph.D. - T.W. Vennemann
A study of some rocks from the South Marginal Zone of the Limpopo Belt.
- M.Sc. - K. Faure
A stable isotope study of the Kaap Valley tonalite, Barberton Mountain Land, South Africa.
- M.Sc. - C.C. Hamilton
The petrography, phase chemistry and petrology of South-West Indian Ridge basalts dredged between 16 and 26 degrees east.
- M.Sc. - S.J. Hill
A study of the diamonds and xenoliths from the Star kimberlite, Orange Free State, South Africa.
- 1990 Ph.D. - P.W.K. Booth
Pan-African imprint on the Early to Mid-Proterozoic Richtersveld and Bushmanland Subprovinces near Eksteenfontein, Namaqualand, Republic of South Africa.

- 1990 Ph.D. - (contd) R.D. Lipson
Lithogeochemistry and origin of metasediments hosting the Broken Hill deposit, Aggeneys, South Africa, and implications for ore genesis.
- M.Sc. - F.J. Baars
Evidence for partial melting in the Garies-Platbakkies supracrustal gneiss belt, central Namaqualand.
- M.Sc. - G.L. Bosch
The mineralogy and chemistry of pulverised fuel ash produced by three South African coal-burning power stations.
- M.Sc. - J.A. Malan
The stratigraphy and sedimentology of the Bredasdorp Group, southern Cape Province, South Africa.
- M.Sc. - P.R. Siegfried
Aspects of the geology of the Mountain Ore Body, Rosh Pinah Mine, Namibia.
- 1991 Ph.D. - L.R.M. Daniels
Diamonds and related minerals from the Dokolwayo kimberlite, Kingdom of Swaziland.
- Ph.D. - D. de Bruin
The megacryst suite from the Schuller kimberlite, South Africa.
- M.Sc. - H.C. Humphreys
The tectonothermal evolution of the eastern Namaqua Province deduced from the petrology and reaction history of metapelites.
- M.Sc. - D. van der Spuy
The chemical characterization of authigenic carbonates from the Witbank No. 2 Coal Seam: environmental and diagenetic implications.
- 1992 Ph.D. - R.E. Harmer
The geochemistry of Spitskop and related alkaline intrusions.
- Ph.D. - R.W. Harris
A structural analysis of the Hartbees River Thrust Belt, with special emphasis on the nature and origin of the change in structural patterns between the Bushmanland and Gordonia Subprovinces.
- Ph.D. - J.H. McStay
Granulite-facies metamorphism partial melting of fluid buffering in the Buffels River area of Namaqualand, South Africa.

- 1992 Ph.D. - N.M. Steven
(contd) A study of epigenetic mineralization in the Central Zone of the Damara Orogen, Namibia, with special reference to gold, tungsten, tin and rare earth elements.
- M.Sc. - E.A. Colgan
Petrogenesis of the Eshowe melilitites.
- M.Sc. - M.K. Ridley
Gradient ion chromatographic determination of rare earth elements in coal and fly ash.
- 1993 M.Sc. - J.G. Deane
The controls on "contact-type" Cu-Pb (Ag) mineralization within the Tsumeb Subgroup of the Otavi Valley Syncline, northern Namibia.
- M.Sc. - D. Hofman
Mineral chemistry and genesis of the Lower Ore Body, Broken Hill Deposit, Aggeneys.

UNIVERSITY OF DURBAN-WESTVILLE

- 1991 Ph.D. - A.J. Scogings
Alkaline intrusives from the Tugela Terrane, Natal Metamorphic Province.
- 1993 M.Sc. - E.H. Greyling
The Mzamba Formation (Cretaceous) of the Transkei - stratigraphy, sedimentology and palaeontology.
- M.Sc. - V.J. Ramluckan
The petrology and geochemistry of the Karoo Sequence basaltic rocks in the Natal Drakensberg at Sani Pass.

UNIVERSITY OF NATAL -DURBAN

- 1987 Ph.D. - B.M. Eglington
Field geochemical and isotope studies of selected areas of Proterozoic crust in south-central Natal.

- 1987 Ph.D. -
(contd) T. Francis
The relationship between the formation and engineering properties of soil catenas, with reference to planning.
- Ph.D. - D.L. Roberts
Depositional framework and controls on peat accumulation in the Vryheid formation of northern Natal (Utrecht and Newcastle areas).
- M.Sc. - J.A.G. Cooper
Sedimentation in the Mgeni estuary, Natal, South Africa.
- M.Sc. - G.J. Daneel
The structural control of gold mineralization in the Moodies Hills which surround the Agnes Gold Mine, Barberton Greenstone Belt.
- M.Sc. - K.G.G. Holley
Investigation of seismicity and induced seismicity for a proposed large dam in the Republic of Transkei.
- M.Sc. - J.R. de R. Roberts
The effect of dolerite dykes on coal dams of the Klip River Coalfield, north Natal.
- 1988 Ph.D. - A.D.M. Christie
Sedimentary models for coal formation in the Klip River Coalfield.
- Ph.D. - M.A.J. Huizinga
A study of volatile-melt inclusions in olivines from some kimberlites.
- Ph.D. - A.M. Smith
The sedimentology of the Vryheid and Pietermaritzburg formations in an area east of Vryheid, N. Natal, Republic of South Africa.
- 1991 M.Sc. - P.W. Murphy
The petrology, geochemistry and classification of the Bein Venue massive sulphide deposit, Barberton Mountain Land.
- M.Sc. - C.I. Wright
The sediment dynamics of St. Lucia estuary mouth, Zululand, South Africa.
- 1992 Ph.D. - J.A.G. Cooper
Sedimentary models and geomorphological classification of river mouths on a subtropical, wave-dominated coast, Natal, South Africa.

- 1992 Ph.D. - P.J. Ramsay
(contd) Sedimentology, coral reef zonation and late Pleistocene coastline models of the Sodwana Bay continental shelf, northern Zululand.
- Ph.D. - S.A. Schütte
Ongeluk volcanism in relation to the Kalahari manganese deposits.
- M.Sc. - K.M. Jaaback
A two-dimensional hydrodynamic model for the St. Lucia estuary mouth.
- M.Sc. - K.J. Poetersen
Richards Bay zircon.
- M.Sc. - A.M. Turner
Zinc-lead mineralization at Pering Mine in the Griqualand West sub-basin - an isotopic study.
- M.Sc. - S.J. Whitecross
The geology of Gravelotte Emerald Mine, northeastern Transvaal.

UNIVERSITY OF NATAL - PIETERMARITZBURG

- 1987 Ph.D. - R.G. Smith
Geochemistry and structure of the Archaean granitoid-supracrustal terrane, southeastern Transvaal and northern Natal.
- M.Sc. - V.A. Preston
The geology and geochemistry of the Mpongoza inlier, northern Natal.
- 1988 Ph.D. - J.A. Versfeld
The geology of the Nondweni greenstone belt, Natal.
- M.Sc. - D.W.W. Sleigh
The geology of the Archaean terrane in the Piet Retief district, Transvaal.
- 1989 Ph.D. - D.M. Bristow
The petrology and geochemistry of the lower critical zone, Winterveld Chrome Mine, eastern Transvaal, Bushveld Complex, with particular reference to the disruptive pegmatoids.
- Ph.D. - P. Mendonidis
The tectonic evolution of a portion of the southern granulite zone of the Natal Mobile Belt, between Southbrook and Glenmore, Natal.

- 1990 M.Sc. - R.A. Hatfield
The geology and structure of the Pongola Sequence east of Piet Retief, southeastern Transvaal.
- 1991 Ph.D. - J.A. Verbeek
The geology and geochemistry of the Archaean granitoid-supracrustal terrane, southeast of Piet Retief, Transvaal.
- 1992 Ph.D. - G.A. Botha
The geology and palaeopedology of Late Quaternary colluvial sediments in northern Natal.
- Ph.D. - G.H. Grantham
Geological evolution of western H.U. Sverdrupfjella, Dronning Maud Land, Antarctica.
- M.Sc. - G.J. Armitage
The petrogenesis of potholes in the UG2 Chromitite Layer, Crocodile River Mine, Western Bushveld Complex.
- M.Sc. - A.D. McKenzie
Geology and mineralization of the Golden Valley Mine, northern Natal.

UNIVERSITY OF THE ORANGE FREE STATE

- 1987 M.Sc. - D. Elsmere
The characteristics of fluid inclusions in the metamorphites and mineralized rocks of the Bokspuits region, Upington.
- M.Sc. - D.J. Ludick
Die stratigrafiese en petrogenetiese aspekte van die Areachapgroep in die Upington-omgewing.
- M.Sc. - J.J. Pretorius
Die kontakverwantskappe van die graniete, gneisse, metavulkaniese gesteentes en metasedimente van die Pella-Pofadderomgewing.
- 1988 Ph.D. - V.E. Cogho
Development of a groundwater data base for southern Africa, with special reference to its use in regional and local geohydrological studies.
- Ph.D. - M. Levin
A geohydrological appraisal of the Vaalputs radioactive waste disposal facility in Namaqualand, S.A.

- 1988 Ph.D. - G. van Aswegen
(contd) The evolution of the Proterozoic gneisses and other metamorphites between Springbok and Vioolsdrif, South Africa.
- 1989 Ph.D. - L.J. Christeaens
Proterozoic sedimentology and geochemistry of the Sishen area - law of facies approach and hypopycnal flow modelling.
- Ph.D. - G.S. de Kock
'n Geotektoniese studie van die Damara-orogen in 'n gebied suidoos van Karibib, S.W.A.
- M.Sc. - A.L.D. Agenbach
'n Geologiese ondersoek van die T'oubep Suite, suidwes van Kakamas, NW-Kaapland.
- M.Sc. - R.H. Boer
The petrogenesis of the glimmerite occurrences in the Koperberg Suite, Namaqualand.
- M.Sc. - P.G. Meintjes
The evolution of volcanic-sedimentary basins of the Ventersdorp Supergroup near Welkom.
- M.Sc. - C.L.J. Minnaar
Sedimentologie van die Supergroep Witwatersrand in die Vredefortgebied.
- M.Sc. - J.L. Venter
'n Sedimentologiese studie van die Dwyka-formasie en geassosieerde gesteentes noord van Loeriesfontein.
- 1990 Ph.D. - W.P. Colliston
A stratigraphic and structural investigation of part of the Namaqua mobile belt between Dabenoris and Steyerkraal, South Africa.
- Ph.D. - M.J. Jordaan
Basin analysis of the Beaufort Group in the western part of the Karoo Basin.
- M.Sc. - N.A. Bleeker
Investigation of possible volcanogenic mineralisation in the Ventersdorp Supergroup of the northern Cape Province.

- 1990 M.Sc. - B. Cilliers
(contd) 'n Petrogenetiese studie van 'n gedeelte van die Namakwalandse metamorfe kompleks langs die Oranjerivier, tussen die Ramansdrif en Homrivier, Warmbaddistrik suidelike S.W.A./Namibia.
- M.Sc. - A. Joubert
Die kwaterne fontein- en verwante lakustriene afsettings by Florisbad, O.V.S.
- M.Sc. - H.P.J. Pretorius
A preliminary study of surface and groundwater quality in the Orange Free State Goldfields.
- M.Sc. - W.S. Seimons
Geohydrological characteristics of the Otjiwarongo Marble Aquifer, Namibia.
- M.Sc. - J.M.A. Steenkamp
The source material of the Big Pebble Marker and Rosedale Reefs in the Welkom Goldfield.
- 1992 M.Sc. - A.T. Havenga
Petrologiese en geochemiese aspekte van die Oranjekom Kompleks langs die oostelike rand van die Namakwalandse Mobiele Gordel.
- M.Sc. - N. Keyser
The geology and geochemistry of the Ventersdorp Supergroup in the area between Vryburg, Ottosdal and Mafikeng.
- M.Sc. - A. van der Westhuizen
The Bellsbank kimberlites, with special reference to a suite of purple garnet megacrysts from the Bobbejaan Mine.

UNIVERSITY OF PORT ELIZABETH

- 1987 M.Sc. - L.B. Siebrits
Die sedimentologie van die formasie Carnarvon in die omgewing van Carnarvon.
- M.Sc. - W.J. Smuts
The sedimentology of the Alexandria Formation.
- M.Sc. - D.A. Stear
The topographic evolution of the Cenozoic landsurface between Port Elizabeth and Alexandria.

- 1988 Ph.D. - B.S. Rubidge
A palaeontological and palaeoenvironmental synthesis of the Permian Ecca-Beaufort contact in the southern Karoo between Prince Albert and Rietbron, Cape Province, South Africa.
- M.Sc. - D. Mee
Bedforms, sedimentary structures and processes in the beach and surf zone of the Sundays River area.
- 1990 M.Sc. - J.R. Burkinshaw
A study of the airflow on the windward slope of a transverse dune in the Alexandria coastal dunefield.
- M.Sc. - C.C. Nolte
The structure and tectono-stratigraphy of the Gamtoos Pre-Cape between Tweewaters and Classen Point, eastern Cape Province, R.S.A.
- 1992 Ph.D. - W.K. Illenberger
Sediment dynamics of the Sundays estuary environment.
- M.Sc. - F.P. Badenhorst
Lithostratigraphy, facies changes and regional correlation of part of the Damara Sequence.
- M.Sc. - J. Hattingh
Dispersal of sediments in the gravel-bearing braided Swartkops River, Uitenhage.
- 1993 Ph.D. - J.S.V. Reddering
Sedimentary facies, sequences and depositional environments of the Mesozoic Robberg Formation in its type area, South Africa.

POTCHEFSTROOM UNIVERSITY FOR CHRISTIAN HIGHER EDUCATION

- 1987 M.Sc. - A.E. Saad
A petrological study of the Rhenosterkop tin deposit.
- 1990 Ph.D. - R.P. Schouwstra
Mineralogical and geochemical investigation of the Zwartkoppie type ore, Sheba Gold Mine.
- Ph.D. - G. Smits
Geochemical history of the sedimentary rocks of the Witwatersrand as reflected in the mineralogy of the heavy-mineral assemblage of the uranium-bearing reefs of the Central Rand Group.

- 1991 M.Sc. - J.H. Elsenbroek
Die struktuur en petrologie van die alkaligraniet in die Vredefortkoepel noordwes van Parys.
- 1992 Ph.D. - J.J. Mayer
Aspects of sedimentological, structural and stratigraphic investigations of the collar strata of the Vredefort Structure: contributions towards an understanding of the pre-history and origin of the structure.
- M.Sc. - L.T. Henning
The palaeotopography of the Ventersdorp Contact Reef at the Western Deep Levels South Gold Mine, Carletonville, R.S.A.
- 1993 M.Sc. - M. Res
Petrology and geochemistry of the Hekpoort Andesite Formation between Frederikstad and Fochville.

UNIVERSITY OF PRETORIA

- 1987 D.Sc. - H.H.B. Hagelskamp
The influence of depositional environment and dolerite intrusions on the quality of coal - a study of the Twistdraai Mine area near Secunda, southeastern Transvaal.
- D.Sc. - W-R.O. Jakob
The geochemistry and radiochemistry of the uranium occurrence on the farm Kaffirsfontein 328, Beaufort West district.
- Ph.D. - E.H. Stettler
Theoretical basis of an induction borehole logging technique in the frequency and time domain.
- M.Sc. - J.M. Barnard
Die verband tussen die petrografiese en chemiese eienskappe van Suid-Afrikaanse steenkool.
- M.Sc. - C.C. Callaghan
The geology of the Waterberg Group in the southern portion of the Waterberg Basin.
- M.Sc. - Van der Ahee Coetsee
Ekwivalensie in tydbestek EM-sonderings vir 'n vertikale magnetiese dipoolbron.

- 1987 M.Sc. - N.J. de Kock
(contd) Die verandering van die wandgesteentes in die omgewing van die ertsliggame van Rosh Pinah.
- M.Sc. - C.J. Nienaber Roberts
A mineralogical and petrographical investigation of the upper zone of the Bushveld Complex, northwest of Potgietersrus.
- M.Sc. - R.J. Richards
A geological investigation of upper Transvaal Sequence rocks in the northern portion of the Rooiberg Fragment.
- M.Sc. - J.J. Simonis
Toepassing van die sleutelblokbeginsel vir stabiliteitsontleding van tonnels in genate rots.
- 1988 Ph.D. - J. Barclay
Anthracite in South Africa with special reference to its origin.
- Ph.D. - H.J. Brynard
A petrological and geochemical study regarding the suitability of the Vaalputs radioactive waste disposal facility.
- Ph.D. - C.H. Saayman
An interpretation procedure for thermogravimetric analysis on South African coals.
- D.Sc. - T. Wallmach
The petrogenesis of high grade contact metamorphic mineral assemblages in calc-silicate xenoliths, eastern Bushveld Complex, South Africa.
- M.Sc. - H.S. Barnard
Die ingenieursgeologiese inset tot kanaalkonstruksie.
- M.Sc. - M.P. Blom
Selected magnetic and gravity anomalies in the eastern Transvaal and their possible relation to the Rustenburg Layered Suite.
- M.Sc. - A.T. Dippenaar
The development of microcomputer software for the processing and interpretation of shallow reflection seismic data.
- M.Sc. - D.J. Farrow
An improved chemical method for whole-rock Pb separations and its application to the petrogenesis of the Rooiberg felsite.

- 1988 M.Sc. - S.C. Greeff
(contd) 'n Petrografiese ondersoek van kooks berei uit steenkoolmengsels veral met verwysing na Soutpansberg-stenkool.
- M.Sc. - N. Nixon
An investigation of a palaeomagnetic polarity reversal in the eastern Bushveld Complex.
- M.Sc. - J.C. Slee
Removal of the host rock response from time domain electromagnetic data by transforming to, and filtering in the frequency domain.
- 1989 Ph.D. - P. Paige-Green
The influence of geotechnical properties on the performance of gravel wearing course materials.
- Ph.D. - G.V. Price
Site specific engineering geological rock mass characterization for tunnelling.
- Ph.D. - F.J. Reichhardt
A petrological investigation of the transition from the lower to the upper critical zone in the central sector of the eastern Bushveld Complex.
- M.Sc. - R. Jacobs
Die geologie van Ermelomyne en die invloed daarvan op praktiese mynprobleme.
- M.Sc. - M.C. Jansen van Vuuren
The chemical properties and derived sedimentation patterns of the coal seams in the Witbank-Highveld area.
- M.Sc. - S.M.C. Verryn
Geochemical and petrographical investigation of the Waaikraal gold deposit, northwest of Brits, Transvaal.
- 1990 Ph.D. - P.A. Botha
'n Mineralogiese benadering tot die optimisering van sintergehalte.
- Ph.D. - U.M. Schreiber
A palaeoenvironmental study of the Pretoria Group in the eastern Transvaal.
- Ph.D. - E.E.W. Weder
The significance of gravity and seismic reflection techniques in deriving a new structural model for the area south of the Central Rand gold

- 1990
(contd)
- M.Sc. - fields.
- M.Sc. - D. Moolman
'n Termiese ondersoek na die omsetting van ammonium-diuranaat in uraandioksied.
- M.Sc. - B. Muller
An evaluation of the application of the high resolution seismic method on coalfields in South Africa.
- M.Sc. - S. Pitsiou
The effect of discontinuities on the erodibility of rock in unlined spillways of dams.
- M.Sc. - E. Raubenheimer
A geological appraisal of the De Hoek, Thyspunt and Tony's Bay areas in the Eastern Cape as potential nuclear power station sites.
- M.Sc. - W.L. Schöning
Verspreiding van sinkgate en versakkings in die dolomietgebiede suid van Pretoria.
- M.Sc. - M. van der Neut
Afsettingstoestande van die Pretoria Groep gesteentes in die Pretoria-Bronkhorstspruit-Delmas gebied.
- M.Sc. - F.E. Wiegmans
Evaluation of frequency-domain electromagnetic methods in groundwater exploration.
- 1991 Ph.D. - D.M.W. Harney
Mineralogy of the lower part of the upper zone, eastern Bushveld Complex: implications for ore-forming processes.
- Ph.D. - C.J.U. Swart
Grouting practices for the evaluation and improvement of dolomitic sites on the Far West Rand, South Africa.
- Ph.D. - J.L. van Rooy
The durability characteristics and testing of Drakensberg basalt.
- M.Sc. - R. Claassen
Microbiological oxidation of sulphide minerals from Agnes, New Consort and Sheba gold mines.

- 1991 M.Sc. - L.W. Schürmann
(contd) The geochemistry and petrology of the upper critical zone in the Boshoek section of the western Bushveld Complex.
- M.Sc. - G.B. Snow
Shear zone hosted gold mineralization in the Moodies Group at Sheba Gold Mine, Barberton greenstone belt.
- M.Sc. - M.A. Thomas
Engineering geological aspects of damage to infrastructure during the 1987/88 floods.
- M.Sc. - J.J. van der Walt
Evaluation of time-domain electromagnetic technique for groundwater exploration in the Kalahari.
- M.Sc. - P.E. Wipplinger
The molybdenum potential of the sandstone-hosted uranium occurrences in the Beaufort Group of the southern Karoo.
- 1992 Ph.D. - D.B. Buttrick
Characterisation and appropriate development of sites on dolomite.
- Ph.D. - G.J. Potgieter
Tektonisme langs die noordoostelike rand van die Bosveldkompleks, Suid-Afrika.
- Ph.D. - K. Roberts
The marginal rocks of the Rustenburg Layered Suite of the Bushveld Complex northwest of Pretoria.
- M.Sc. - N.J.B. Andersen
A structural analysis of the Vaalputs waste disposal site and environs, Bushmanland, South Africa.
- M.Sc. - N. Berliner
A comparison of bedrock depths derived from a gravity survey versus drilling, in a dolomite environment.
- M.Sc. - P.J.A. Bosch
Die geologie van die Wolkberg Groep tussen die Abel Erasmuspas en Graskop, Oos-Transvaal.
- M.Sc. - A.T.R. Odgers
Processing and interpretation of the Bushveld seismic survey P1-86.

- 1992 M.Sc. - N.D. Pauls
(contd) The palaeomagnetism of the northern limb of the Bushveld Complex.
- M.Sc. - M.C. van Dalsen
A comparison of dip move-out algorithms - a South African case history.

RAND AFRIKAANS UNIVERSITY

- 1987 Ph.D. - M.C. Brink
Tektoniese en stratigrafiese ontwikkeling van die Witwatersrand Supergroep en verwante gesteentes in die gebied noord en oos van Klerksdorp.
- M.Sc. - J.S. du Toit
Die toepassing van eksplorasiefase geologiese inligting op mynboubeplanning in die noordelike Secundasteenkoolveld.
- M.Sc. - G.F.J. Horn
Die genese van bauxiet in Natal.
- M.Sc. - S.J. Pretorius
Die geologie in die omgewing van Swartwater en die westelike deel van die distrik Messina in die sentrale sone van die Limpopo-gordel.
- M.Sc. - E.H. Siepker
Genetiese stratigrafie en sedimentologie van die Opeenvolging Karoo in die westelike en noordelike deel van die Waterberg-steenkoolveld.
- 1989 M.Sc. - S.W. van Coller
Die Witpoortjieverskuiwing.
- 1990 M.Sc. - C.H.M. King
The geology of the Tsumeb carbonate sequence and associated lead-zinc occurrences on the farm Olifantsfontein, Otavi Mountainland, Namibia.
- M.Sc. - P.A. Pitts
Aspects of shear strain in the East Rand Basin.

- 1991 Ph.D. - J.F. van Schalkwyk
(contd) Metamorphism of ultramafic rocks during the Limpopo orogeny:
evidence for the timing and significance of CO₂-rich fluids.
- M.Sc. - M. Beattie
Alteration and gold mineralisation in the Roodepoort Goldfield,
Pietersburg granite-greenstone terrane.
- M.Sc. - D.J. Muntingh
Die sedimentologie en stratigrafie van die Ecca-
Beaufortoorgang in die noord-oostelike gedeelte van die
hoof Karrookom.
- M.Sc. - G. Stevens
Vapour-absent melting in metapelite during the 2700 Ma Limpopo
metamorphic event in South Africa: further evidence of the
granite-granulite link.
- 1993 Ph.D. - F.H. Bohlender
Igneous and metamorphic charnockitic rocks in the Southern
Marginal Zone of the Limpopo Belt with special emphasis on the
Matok enderbitic-granitic suite.
- Ph.D. - D.S. Coetzee
Syntectonic quartz vein formation in relationship to metamorphism,
fluid inclusions and thrust tectonism on the northern margin of the
Witwatersrand Basin.
- Ph.D. - A.M. Killick
Pseudotachylites of the West Rand Goldfield, Witwatersrand Basin,
South Africa.
- M.Sc. - J.F. Naude
Diagenetiese betekenis van karbonaatkonkresies in die Karoo
Opeenvolging, Suid-Afrika.
- M.Sc. - M. Ruygrok
The tectono-metamorphic evolution of a portion of the Rhenoster-
koppies greenstone belt in relation to the Limpopo Orogeny,
South Africa.

RHODES UNIVERSITY

- 1987 M.Sc. - M.J. Botha
Petrology and geochemistry of the Lower Group chromitites and host rocks on the farm Zandspruit 168 JP, western Bushveld Complex.
- M.Sc. - M. Field
The petrology and geochemistry of the upper Critical Zone of the Bushveld Complex at the Amandelbult Section of Rustenburg Platinum Mines Limited, northwestern Transvaal, South Africa.
- M.Sc. - N.J. Franey
A geological model of shear zone gold deposits in the Pietersburg greenstone belt, S.A.
- M.Sc. - J.E. Potgieter
Anorogenic alkaline ring-type complexes of the Damaraland Province, Namibia, and their economic potential.
- M.Sc. - G.M. Rankine
Gold metallogeny of Australia.
- M.Sc. - R.H. Smithies
The geology and alteration-mineralization of the Van Rooi's Vley W-Sn deposit, Namaqua Metamorphic Complex, S.A.
- M.Sc. - T.D. Tregoning
The tectono-metallogenesis during the Irumide and Pan-African events in S.W.A./Namibia.
- 1988 Ph.D. - A.A. Mitchell
The petrology, mineralogy and geochemistry of the Main Zone of the Bushveld Complex at Rustenburg Platinum Mines, Union Section.
- M.Sc. - J.Misiewicz
The geology and metallogeny of the Otavi Mountain Land, Namibia with special reference to the Berg Aukas Pb-Zn-V deposit, and model of ore genesis.
- 1990 Ph.D. - R. Swart
The sedimentology of the Zerrissene turbidite system, Damara Orogen, Namibia.
- M.Sc. - F.C. Walraven
The geology and alteration-mineralisation of the Gamigab tin prospect, Damaraland, Namibia.

- 1990 M.Sc. - M.G.C. Wilson
(contd) A preliminary appraisal of the mineral potential of Venda based on a reconnaissance geochemical soil sampling survey and literature review.
- 1991 Ph.D. - R.H. Smithies
The geochemical evolution of three alkaline complexes in the Kuboos-Bremen igneous province, southern Namibia.
- Ph.D. - B. Teigler
Mineralogy, petrology and geochemistry of the upper and lower Critical Zones, northwestern Bushveld Complex.
- M.Sc. - J.C. Badenhorst
The Precambrian iron-formations in the Limpopo Belt as represented by the magnetite quartzite deposits at Moonlight, Koedoesrand area, northern Transvaal.
- M.Sc. - W.D. Bullen
Gold mineralization in an Archaean granite-greenstone remnant west of Melmoth, Natal: ore genesis and implications for exploration.
- M.Sc. - I.D. de Klerk
The nature and origin of gold mineralisation in the Tugela Valley: Natal structural and metamorphic province.
- M.Sc. - F.G. Matheys
The alluvial diamond deposits of the lower Vaal River between Barkly West and the Vaal-Harts confluence in the northern Cape Province, S.A.
- M.Sc. - M. Moroni
The geology, petrology and geochemistry of the mineralization and hydrothermal alteration at Ongeama, Ongombo and Matchless West Extension, Namibia.
- M.Sc. - R.L. Nichols
The Springfontein prospect: a case study of a Tertiary age epithermal hot spring deposit in the eastern Cape.
- M.Sc. - T.E. Nowicki
Mantle xenoliths from the Abrahamskraal kimberlite: a craton-margin geotherm.
- M.Sc. - D.K. Whitfield
The genesis and controls of gold mineralization south of Rehoboth, Namibia.

- 1992 Ph.D. - W.J. de Klerk
Petrogenesis of the upper Critical Zone in the western Bushveld Complex with emphasis on the UG1 Footwall and Bastard Units.
- Ph.D. - W.D. Maier
Geochemical and petrological trends in the UG2-Merensky Unit interval of the upper Critical Zones in the western Bushveld Complex.
- M.Sc. - N.J.F. Blamey
The geology and evaluation of the 'A'-Reef at No. 3 Shaft, Western Holdings Mine, Welkom Goldfield.
- M.Sc. - M.B. Brennan
The genesis of ilmenite-rich heavy mineral deposits in the Bothaville-Delmas area, and an economic analysis of titanium, with particular reference to the Dwarsfontein deposit, Delmas district.
- M.Sc. - C. Jackson
A microstructural kinematic study of selected shear zones in the Hartbees River thrust belt, northeastern Namaqua tectonic province.
- M.Sc. - B.D. Joubert
Small-scale mining in southern Africa.
- M.Sc. - M.L. Lane
Nickel sulphide mineralization associated with Archaean komatiites.
- M.Sc. - J.J. Latorre-Muzzio
Exploration for stratabound copper, lead and zinc deposits in the Damara-Katanga Orogen, central-southern Africa.
- M.Sc. - M.A.L.F. Linklater
The exploration for, and possible genesis of, some Archaean granite/gneiss-hosted gold deposits in the Pietersburg granite-greenstone terrane.
- M.Sc. - M.D. Lynn
The development and distribution of heavy mineral concentrations in alluvial systems.
- M.Sc. - M.A. Noppe
Geological controls for coal exploration and mining.
- M.Sc. - A.G. O'Donovan
Facies mapping of the Vaal Reef Placer as an aid to remnant pillar extraction and stope width optimisation.

- 1992 M.Sc. - F.D.P. Pelly
(contd) Guidelines to the evaluation of selectively mined, open pit gold deposits during the exploration stage of mine creation.
- M.Sc. - A. Riganti
The geology and geochemistry of the northwestern portion of the Usushwana Complex, S.E. Transvaal.
- M.Sc. - F.E.D. Senzani
Pegmatite hosted mineral deposits of central and southern Africa: regional geological settings and preliminary exploration target considerations.
- M.Sc. - C.B. Tinney
The surface geology of the Lavino Chrome Mine on the farm Grootboom 336KT, E. Transvaal.
- M.Sc. - M. Veselinovic
Genetic models for epithermal gold deposits and applications to exploration.
- 1993 M.Sc. - B.D. Coxon
Laterisation and secondary gold distribution with particular reference to Western Australia.
- M.Sc. - G.B. Dwyer
The geology of the Welkom Goldfield with special reference to the "A", "B" and Beatrix Reefs.
- M.Sc. - C.S. Gapara
A review of the deposition of iron-formation and genesis of the related iron ore deposits as a guide to exploration for Precambrian iron ore deposits in southern Africa.
- M.Sc. - P.A. Kerber
Granitic series and their economic geology.
- M.Sc. - G. Latorre-Muzzio
The influence of geological, genetic and economic factors on the ore reserve estimation of Kwaggashoek East iron ore deposit.

UNIVERSITY OF STELLENBOSCH

- 1987 M.Sc. - C.A. Barnardt
The application of ultrasonic nebulization to ICP-AES analysis of metallurgical and geological samples.

- 1987 M.Sc. - (contd) W. Lesch
Mineral composition of powder fly ash (PFA).
- M.Sc. - W.D. Scott
A lithostratigraphic and metamorphic profile across the Kaapvaal-Namaqua boundary, northwest Cape Province.
- 1988 M.Sc. - J.J.P. Swanepoel
Die stratigrafie en sedimentologie van die Almannryggengroep in die Borgmassivet, Wes Koningin Maudland, Antarktika.
- 1989 M.Sc. - C.H. de Beer
Structure of the Cape Fold Belt in the Ceres syntaxis.
- M.Sc. - F.G. le Roux
The lithostratigraphy of Cenozoic deposits along the southeast Cape coast as related to sea-level changes.
- M.Sc. - D.J. Scheepers
The petrology and geochemistry of the Vogelstruisbult Annex Cu-Zn deposit, Prieska district, northwestern Cape.
- 1990 Ph.D. - R. Scheepers
Magmatiese assosiasies en radio-elementgeochemie van geselekteerde Kaapse graniete, met spesiale verwysing na subalkaliiese en leukogranietfases.
- M.Sc. - L.J. Jordaan
The geology and geochemistry of mafic and intermediate igneous rocks associated with the Cape granites.
- 1991 Ph.D. - G.J. Greeff
The geohydrology of a typical catchment in the Cape Supergroup, Breë River Valley.
- 1993 Ph.D. - H.P. Siegfried
The Malmesbury batholith and its relationship to granitic plutons in the Swartland Tectonic Domain.

UNIVERSITY OF THE WESTERN CAPE

- 1987 M.Sc. - R.N. Domoney
Stress and strain variation across shear zones in the Areachap Group, northwest Cape Province, South Africa.

1987 M.Sc. -
(contd) H.G. Swartz
The structural evolution of the Areachap Group west of Kleinbegin,
northwest Cape Province, South Africa.

UNIVERSITY OF THE WITWATERSRAND

1987 Ph.D. - R.A. Armstrong
Geochronological studies on Archaean and Proterozoic formations of
the foreland of the Namaqua front and possible correlates on the
Kaapvaal Craton.

Ph.D. - G. Borg
Controls on stratabound copper mineralization at Klein Aub Mine and
similar deposits within the Kalahari copperbelts of South West Africa/
Namibia and Botswana.

Ph.D. - M.J. Hughes
The Tsumeb ore body, Namibia, and related dolostone-hosted base
metal ore deposits of Central Africa.

M.Sc. - T.R. Marshall
The morphotectonics of the Orange Free State.

M.Sc. - W.A. Wilsher
A structural interpretation of the Witwatersrand Basin through the
application of automated depth algorithms to both gravity and
aeromagnetic data.

M.Sc. - P.K. Zawada
The stratigraphy and sedimentology of the Ecca and Beaufort Groups
in the Fauresmith and Jagersfontein districts.

1988 Ph.D. - S.H. Connell
Internal fields in diamond and related materials.

M.Sc. - J.M. Barr
Isotope character of barite and ore genesis in central
Bushmanland.

M.Sc. - G.R. Drennan
The nature of the Archaean basement in the hinterland to
the Welkom Goldfield.

M.Sc. - J.G. Levitt
Ultrasonic measurement of the elastic properties of fused
quartz at elevated temperatures and pressures.

- 1989 Ph.D. - D.R. Brawn
A maximum entropy approach to underconstraint and inconsistency in the seismic source inverse problem; finding and interpreting seismic source moments.
- Ph.D. - C.W. Clendenin
Tectonic influence on the evolution of the early Proterozoic Transvaal sea, southern Africa.
- Ph.D. - R.J. Durrheim
A seismic investigation of the Kaapvaal Craton.
- M.Sc. - M.F.F. Ferraz
The nature of the Archaean basement in the provenance areas of the East Rand and Evander goldfields.
- M.Sc. - O.D. Goldbach
The use of seismogram waveforms to characterize the fracture zone around a mine excavation.
- M.Sc. - O.J. Maponga
The geology and mineralization of the Epoch nickel deposit, Zimbabwe.
- M.Sc. - R. Tyler
Cyclic sedimentation and gold mineralization in the Malmani Dolomite Subgroup, Pilgrim's Rest-Sabie area, eastern Transvaal.
- 1990 Ph.D. - L.A.G. Antoine
Processing and interpretation of near-earth satellite magnetic data.
- Ph.D. - P.A. Kukla
Tectonics and sedimentation of a late Proterozoic Damaran convergent continental margin, Khomas Hochland, Central Namibia.
- Ph.D. - T.R. Marshall
The nature, origin and evolution of the diamondiferous gravels of the southwestern Transvaal.
- Ph.D. - R.E. Myers
The geology of the Godwan Basin, eastern Transvaal.
- Ph.D. - M. Tredoux
The platinum-group elements: nuclear methods for their analysis and their behaviour in terrestrial rocks and meteorites.

- 1990 M.Sc. - J.H. Genis
(contd) The sedimentology and depositional environment of the Beatrix Reef, Witwatersrand Supergroup.
- M.Sc. - G.K. Hodgkinson
Palaeomagnetic studies in Western Dronning Maud Land, Antarctica.
- M.Sc. - M.J. Holland
A palaeoenvironmental analysis of the Turffontein Subgroup (Witwatersrand Supergroup) around the Vredefort Dome.
- M.Sc. - J.D.M. Law
Mineralogy, geochemistry and alteration of Witwatersrand metasediments in the Welkom area: implications for mineralization.
- M.Sc. - D. McB Martin
Early Proterozoic syndepositional tectonics along the Thabazimbi-Murchison line, west of Thabazimbi.
- M.Sc. - S.J. Martin
A geophysical investigation of the Crocodile River Fragment and associated intrusions.
- M.Sc. - M.R. Muller
Lithospheric structure for the Kaapvaal Craton and its margins from the analysis of long-period and broad-band teleseismic P-waves.
- M.Sc. - W.H.B. Steenkamp
Automatic three-dimensional modelling of gravity and magnetic data in the Witwatersrand Basin.
- M.Sc. - J.M. Myers
The stratigraphy and geochemistry of the Klipriversberg and Platberg groups of the Ventersdorp Supergroup in the Klerksdorp area, western Transvaal.
- M.Sc. - M.A. Thomas
A facies analysis of the main conglomerate formation on East Rand Proprietary Mines Limited.
- M.Sc. - S.J. Webber
Quantitative modelling of mining induced seismicity.
- 1991 Ph.D. - C.P. du Plessis
Tectonics along the Thabazimbi-Murchison lineament.

- 1991 Ph.D. -
(contd) S. Master
 The origin and controls on the distribution of copper and precious metal mineralization at the Mangula and Norah mines, Mhangura, Zimbabwe.
- M.Sc. - A.C. Bailey
 The stratigraphy and sedimentology of the upper Johannesburg and Turffontein Subgroups in the southwestern portion of the Welkom Goldfield.
- M.Sc. - W.H. Barker
 Geophysical studies of the Limpopo Belt.
- M.Sc. - R.S.J. Cole
 Design of a seismic data acquisition system and automatic triggering software.
- 1992 Ph.D. - G. Henry
 The sedimentary evolution of the Damara sequence in the lower Khan River Valley, Namibia.
- Ph.D. - B.K. Sander
 Aspects of the geology and sulphide ore potential of the Mount Ayliff intrusion, Transkei.
- M.Sc. - P.D. Harris
 The evolution and structural setting of pegmatites at the New Consort Gold Mines, Barberton.
- M.Sc. - R. Holdsworth
 The petrology, mineralogy and geochemistry of the upper West Rand Group in the Klerksdorp area.
- M.Sc. - P.L. Linton
 The geochemical stratigraphy of the Klipriviersberg Group along the western margin of the Witwatersrand Basin.
- M.Sc. - P.J. Roberts
 The geology and geochemistry of selected Pb-Zn deposits in the Chuniespoort/Ghaap Group of the Transvaal Sequence, South Africa.
- 1993 Ph.D. - M. Harley
 The geology of the Sabie-Pilgrim's Rest Goldfield, with special reference to Elandshoogte Mine.

- 1993 Ph.D. - A.F.M. Kisters
(contd) Structural relationships of economic ore-bearers in the Okiep copper district, Namaqualand, NW Cape.
- M.Sc. - P.M. Gidlow
Rock property estimation using A V O analysis.
- M.Sc. - C.D. Lear
Ground vibration parameters and induced structural damage of a residential building at an open-strip coal mine.

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ERRATA AND ADDITIONS

Errors and omissions noted in the bibliography of theses which appeared as Information Circular No. 195 of April, 1987 are corrected in the section below. Misunderstandings contributed to the misinterpretation of information on theses submitted to the University of Natal (Durban) and the University of Natal (Pietermaritzburg) for the period 1970-1986. Revised pages reflecting additions and deletions from the previous lists found on pages 47-50 of Information Circular No. 195 are provided.

UNIVERSITY OF NATAL (DURBAN)

- 1971 Ph.D. - D.C. Neethling
South African earth science exploration of Western Queen Maud Land, Antarctica.
- M.Sc. - A.T. Champion
The mineralogy and related geology of the Albert silver mine, Bronkhorstspruit, Transvaal.
- M.Sc. - D.N. Robinson
The geology of an area northeast of Mapumulo, Natal.
- 1972 M.Sc. - G. Lambert
A study of Cretaceous Foraminifera from northern Zululand, South Africa.
- M.Sc. - N.J. Roberts
The geology of an area to the northeast of Inanda, Natal.
- 1973 M.Sc. - P.G. Hartopp
Air photo interpretation applied to the concept of soil engineering: land pattern/facet mapping within the Beaufort Series, Karoo.
- M.Sc. - Q.B. Hendey
The late Cenozoic carnivora of the southwestern Cape Province.
- M.Sc. - C.M. Orr
A study of fracture formation in a rock model.
- 1974 M.Sc. - M.R. Cooper
A revision of the lower Cretaceous (Upper Valanginian) Cephalopoda from the Uitenhage formation of South Africa.
- 1975 M.Sc. - J.E. Guy
The geology of an area to the northwest of Mandini, Zululand.

- 1975 M.Sc. - C.M.H. Jennings
(contd) The hydrogeology of Botswana.
- 1976 M.Sc. - K.B. McQuillan
A computer based system for the evaluation of coalfield data.
- M.Sc. - P. Paige-Green
The geotechnical properties of Dwyka Tillite in the Durban area.
- 1977 M.Sc. - J.W. Bristow
Geology and geochemistry of the southern Lebombo.
- 1978 M.Sc. - R.A. Armstrong
A geological and geochemical appraisal of the Rooi Rand dyke swarm, Lebombo.
- M.Sc. - A. Schulze-Hulbe
A study of the structure and metamorphism of the rocks of the Tugela group exposed in the Mambula Mbongolwane area, Natal.
- 1979 M.Sc. - S.O. Rigotti
The geology of the Tugela Group in the Middledrift area, Natal.
- 1980 M.Sc. - P. du Toit
Geology of the Nanda area, Natal.
- M.Sc. - R.E. Harmer
Pre-Cape geology of the Tugela Valley north of Kranskop, Natal.
- M.Sc. - J.L. Kuyper
Geology of an area southeast of Nagle Dam, Natal.
- M.Sc. - C.T. Logan
Aspects of Karoo volcanicity in the Komatipoort area, Lebombo.
- 1981 Ph.D. - E.G. Charlesworth
Tectonics and metamorphism of the northern margin of the Namaqua-Natal Mobile Belt near Eshowe, Natal.
- Ph.D. - T.J. Smalley
Structure and metamorphism of the Tugela Group within the northern zone of the Natal-Mobile Belt.
- M.Sc. - D.L. Roberts
The stratigraphy and sedimentology of the Natal Group in the Durban area.

- 1981 M.Sc. - A.M. Smith
(contd) Lacustrine stromatolites of the Etosha Pan, South West Africa (Namibia).
- 1982 M.Sc. - B.G. Bulley
Geology of the Tafamasi area, Natal.
- M.Sc. - A.D.M. Christie
Stratigraphy and sedimentology of the Molteno formation in the Elliot-Indwe area, Cape Province.
- M.Sc. - L. Lapinsky
An electron microprobe investigation of some rocks from the Bushveld Complex contact aureole.
- 1983 M.Sc. - R.W. Dell
Major fault systems in the mining area of Western Holdings Limited Gold Mine (Holdings D. Division) in the Orange Free State goldfields.
- 1984 M.Sc. - M.J. Evans
Precambrian geology west of Scottburgh, Natal.
- M.Sc. - T.E. Francis
Engineering geology of the lower Umgeni valley, Durban.
- 1985 M.Sc. - D.R.H. Harriss
An investigation of the engineering geology of five new railway tunnels between Vryheid and Richards Bay, Natal.
- M.Sc. - J.H.F. Wagener
Geology of the Prieska copper-sinc deposit, northwestern Cape.

UNIVERSITY OF NATAL (PIETERMARITZBURG)

- 1974 M.Sc. - A.B. Cadle
A subsurface sedimentological investigation of parts of the Ecca and Beaufort Groups in the north-eastern Karoo Basin.
- M.Sc. - D. Mathew
A statistical and palaeoenvironmental analysis of the Ecca Group.
- 1977 M.Sc. - J.R. Turner
Palaeoenvironmental study of the lower Beaufort in the northeast Karoo Basin.

- 1978 M.Sc. - H.D. Greenshields
A palaeoenvironmental analysis of the Beaufort Group along the Transkei and parts of the Ciskei coast.
- M.Sc. - M.B. Watchorn
Sedimentology of the Mozaan Group in the south-eastern Transvaal and northern Natal.
- 1979 Ph.D. - G.A.D. Zelt
A geotraverse across Namaqualand, South Africa: the petrology, geochemistry and structural relations of a Proterozoic, high-grade metamorphic terrane.
- M.Sc. - S.S. Absolom
A sedimentological analysis of gold distribution in the Kimberley Reef at South Roodepoort Main Reef Areas Limited.
- M.Sc. - B. Cairncross
Depositional framework and control of coal distribution and quality, Van Dyk's Drift area, northern Karoo Basin.
- M.Sc. - O.R. Dix
The geology of the Tugela Rand intrusive suite.
- M.Sc. - P.G. Eriksson
A palaeoenvironmental study of the Clarens Formation in the Natal Drakensberg.
- 1980 Ph.D. - N.V. Armstrong
The geology and geochemistry of the Nsuze Group.
- 1982 M.Sc. - M.C. Brink
The structural geology of the Buffelsfontein Gold Mine.
- 1983 Ph.D. - P.G. Eriksson
A palaeoenvironmental study of the Molteno, Elliot and Clarens formations in the Natal Drakensberg and north-eastern Orange Free State.
- M.Sc. - G.H. Grantham
The tectonic metamorphic and intrusive history of the Natal Mobile Belt between Glenmore and Port Edward, Natal.
- M.Sc. - T.C. Page
Pure and applied sedimentology of the Ecca-Beaufort rocks of the Drakensberg pumped storage scheme.

- 1984 Ph.D. - J.D. Ward
Aspects of the Cenozoic geology in the Kuiseb Valley, central Namib Desert.
- M.Sc. - P.B. Groenewald
The lithostratigraphy and petrogenesis of the Nsuze Group, northwest of Nkandla.
- 1985 M.Sc. - J.L.C. Kilham
The effect of calcretization on selected heavy minerals in kimberlites.
- 1986 Ph.D. - J.R. Krynauw
The petrology and geochemistry of intrusions at selected nunataks in the Ahlmannryggen and Giaeverygggen, Western Dronning Maud Land, Antarctica.

The changes to the above listings also necessitate corrections to the alphabetical lists appearing from page 1 to 41 of Information Circular No. 195. These include:

Add reference:

- p. 2. ARNOTT, F. - Seismicity in the Welkom area, OFS (with special reference to the origin of the 1976-12-8 event).
(1980) M.Sc. - Witwatersrand

- p.5. CADLE, A.B. (1984) - M.Sc. - Natal (Durban) should read Natal (Pmb).

- p.6. CAIRNCROSS, B. (1979) - M.Sc. - Natal (Durban) should read Natal (Pmb).

Add reference:

- p.6. CHETTY, P.(1974) - Digital processing of marine seismic records from the south west Indian Ocean.
M.Sc. - Witwatersrand

Add reference:

- p.7. CORNER, B. (1977) - A geological investigation of the area surrounding Dordabis in South West Africa.
M.Sc. - Witwatersrand

Add reference:

- p.9. DU TOIT, P.(1979) - Geology of the Nanda area, Natal.
M.Sc. - Natal (Durban)

- p.10 ERIKSSON, P.G. (1979) - M.Sc. - Natal (Durban) should read Natal (Pmb).

Add reference:

- p.11 FINK, J.B. (1980) - Inter-facial phenomena between liquid electrolytes and semi-conducting base metal sulphides.
M.Sc. - Witwatersrand

Add reference:

- p.12. FUMERTON, S. (1974) - The felsic intrusives in ERPM Boksburg.
M.Sc. - Witwatersrand

Add reference:

- p.18. KILHAM, J.L.C. (1986) - The effect of calcretization on selected heavy minerals
in kimberlitws.
M.Sc. - Natal (Pmb)

Add reference:

- p.19 KRYNAUW, J.R. (1986) - The petrology and geochemistry of intrusions at
selected nunutaks in the Ahlmannryggen and Giaeeverryggen,
Western Dronning Maud Land, Antarctica.

- p.19. LAMBERT, J.F. (1981) - Should read LAMBERT, J.F. (1962).

- p.23. MATHEWS, D. (1974) - Should read MATHEW, D. (1974).
and M.Sc. - Natal (Durban) should read Natal (Pmb).

Add reference:

- p.24 MORGAN, R.P.E. (1970) - Geomorphology of the Drakensberg massif including
the Basuto Highlands.
M.Sc. - Natal (Dbn_

- p.26. PEBERDY, E. (1985) - Geological effects on seismic elastic wave attenuation
with specific application to the magnitude assessment.
M.Sc. - Witwatersrand.

- p.39 WARD, J.D. (1984) - Aspects of the Cenozoic geology in the Kuiseb Valley,
central Namib Desert.
Ph.D. - Natal (Pmb)

- p.39 WATCHORN, m.b. (1978) - M.Sc. - Natal (Durban) should read Natal (Pmb).

Additional corrections to the listing of theses arranged according to University are included below:

- p.75 Add reference (1974): M.Sc. - P. Chetty
Digital processing of marine seismic records from
the south west Indian Ocean.

- p.75 Add reference (1974): M.Sc. - S. Fumerton
The felsic intrusives in ERPM Boksburg.

- p.76 Add reference (1977): M.Sc. - B. Corner
A geophysical investigation of the area
surrounding Dordabis in South West Africa.

p.77. Add reference (1980): M.Sc. -

F. Arnott
Seismicity in the Welkom area, O.F.S. (with special reference to the origin of the 1976-12-8 event).

p.77 Add reference (1980): M.Sc. -

J.B. Fink
Inter-facial phenomena between liquid electrolytes and semi-conducting base metal sulphides.

p.80 Add reference (1985): M.Sc. -

E. Peberdy
Geological effects on seismic elastic wave attenuation with specific application to the magnitude assessment.

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