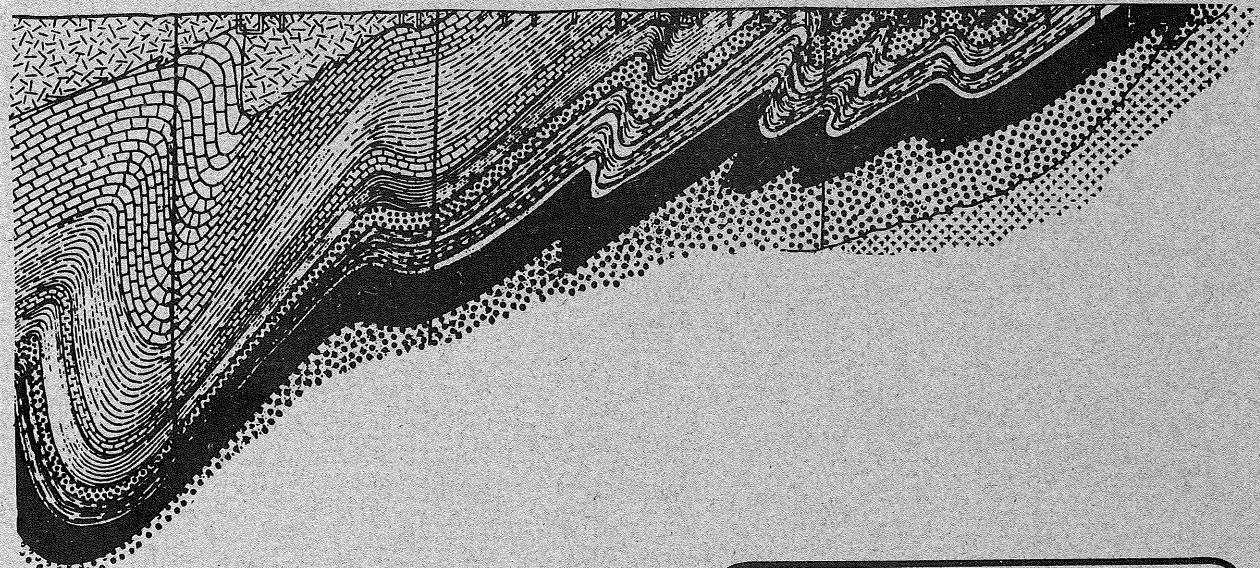




UNIVERSITY OF THE WITWATERSRAND
JOHANNESBURG



ECONOMIC GEOLOGY
RESEARCH UNIT

University of the Witwatersrand
Johannesburg

LIST OF THESES ON GEOLOGICAL AND ALLIED SUBJECTS
SUBMITTED FOR HIGHER DEGREES AT
SOUTH AFRICAN UNIVERSITIES

Compiled by

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INFORMATION CIRCULAR NO. 2

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LIST OF THESES ON GEOLOGICAL AND ALLIED SUBJECTS
SUBMITTED FOR HIGHER DEGREES AT
SOUTH AFRICAN UNIVERSITIES

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LIST OF THESES ON GEOLOGICAL AND ALLIED SUBJECTS

SUBMITTED FOR HIGHER DEGREES AT

SOUTH AFRICAN UNIVERSITIES

Preface

One of the first tasks of the newly-established Economic Geology Research Unit has been an attempt to ascertain precisely what research into economic geology has been undertaken in the past in South Africa and neighbouring territories. In that no geological research institutions have been operative prior to the founding of this Research Unit, it followed that the bulk of research could be anticipated to be represented by investigations carried out for higher degrees at South African universities. Doctoral dissertations and Masters' theses thus appeared to offer the most rewarding record of research into geological and allied topics.

Because many other branches of geology are frequently of importance in the solution of problems dealing with mineralisation, it was decided to compile a list of all theses dealing with geology and related subjects and not to restrict this list to works concerned essentially with economic geology only. Consequently, the list which follows represents a complete survey of all theses and dissertations which are housed in the libraries of the various universities in South Africa.

It must be pointed out that some of the theses mentioned were not submitted for higher degrees in geology or geophysics, but represent the results of research work carried out in the branches of mining engineering, metallurgy and geography. However, such theses contain important descriptions of significant geological features and they have contributed materially to the furtherance of geological knowledge in Southern Africa. It has therefore been decided to include these theses and dissertations in the present list.

A certain amount of confusion exists concerning the dates attached to the theses. In many instances the year in which the work was submitted is not the same as the year in which the degree was conferred. Thus, it may be found that, in a limited number of cases, the date appearing on the title page of the thesis may not be the same as the date shown in this list, the latter date being that recorded in the card-index files of the various libraries.

Certain statistical tables have been included in the list. These are essentially studies of the extent to which research has been carried out in the various branches of geology and in different localities. Other tables show the increase in the amount of geological research in South Africa over the years and the parts which the various universities have played in promoting this progress. It is felt that such tables might be of assistance in assessing the present status of geological research in the Union.

A partial list of theses and dissertations dealing with the geology of Southern Africa and submitted to overseas universities is also appended. These works have not been included in the compilation of the statistical tables. It must be stressed that this list can, in no way, be regarded as exhaustive and it would be appreciated if readers, knowing of further theses and dissertations referring to Southern, Central and East Africa and lodged with universities outside the Union, would provide the Research Unit with details of such works so that its records can be made more authoritative.

The same request applies with respect to theses lodged with South African universities. It is quite possible that certain titles might be missing from this list, particularly those submitted prior to 1930. The universities do not have any official record of such works and hence omissions can be rectified only by the authors of missing titles or their colleagues informing the Research Unit. Such information would be most welcome.

Year	Total			Total			
	No. of Master's Degrees	No. of Doctor's Degrees	No. of Higher Degrees	Year	No. of Master's Degrees	No. of Doctor's Degrees	No. of Higher Degrees
1919	-	1	1	1940	10	5	15
1920	3	-	3	1941	10	5	15
1921	1	1	2	1942	4	5	9
1922	-	1	1	1943	5	4	9
1923	1	-	1	1944	5	2	7
1924	1	-	1	1945	6	1	7
1925	2	-	2	1946	5	5	10
1926	1	1	2	1947	4	3	7
1927	2	3	5	1948	8	4	12
1928	2	-	2	1949	15	5	20
1929	5	1	6	1950	7	2	9
1930	1	-	1	1951	12	3	15
1931	2	1	3	1952	8	5	13
1932	4	1	5	1953	16	4	20
1933	4	-	4	1954	8	1	9
1934	2	3	5	1955	9	4	13
1935	2	2	4	1956	6	4	10
1936	2	2	4	1957	11	7	18
1937	2	1	3	1958	8	7	15
1938	5	2	7	1959	15	7	22
1939	4	2	6	Total	218	105	323

Masters Doctors Total

Average number of higher degrees conferred per year -- period 1919 - 1929 :	1	1	2
Average number of higher degrees conferred per year -- period 1930 - 1939 :	3	1	4
Average number of higher degrees conferred per year -- period 1940 - 1945 :	6	4	10
Average number of higher degrees conferred per year -- period 1946 - 1950 :	8	4	12
Average number of higher degrees conferred per year -- period 1951 - 1959 :	10	5	15
Overall average number of higher degrees conferred per year -- 1919 - 1959:	5	3	8

TABLE 1 : Frequency of Separate Master's and Doctor's Theses

Accepted According to Year in which Thesis Submitted.

University:	No. of Master's Degrees:	Percent- age of Master's Degrees:	No. of Doctor's Degrees:	Percent- age of Doctor's Degrees:	Total Number of Doctor's Degrees:	Total Number of Higher Degrees:	Percent- age of Higher Degrees:
Pretoria	59	27	20	18	79	24	
Cape Town	39	18	25	24	64	20	
Stellenbosch	34	16	21	21	55	17	
Witwatersrand	40	18	15	15	55	17	
South Africa	8	4	18	18	26	8	
Natal	19	9	3	2	22	7	
Rhodes	12	5	3	2	15	5	
Orange Free State	4	2	0	0	4	1	
Potchefstroom	3	1	0	0	3	1	
TOTAL	218	100%	105	100%	323	100%	

Total Number of
Master's Degrees awarded: 218 = 68% of all higher degrees
awarded

Total Number of
Doctor's Degrees awarded: 105 = 32% of all higher degrees
awarded

Total Number of
Higher Degrees awarded : 323 = 100% of all higher degrees
awarded

TABLE 2 : Frequency of Separate Master's and Doctor's Degrees
Awarded According to Individual Universities
Conferring such Higher Degrees

(Percentages Calculated with Respect to Total Number
of Master's or Doctor's Degrees Conferred by all
Universities)

Territory in which Work Described in Thesis was Carried out : -	No. of Theses:	Percentage of All Theses:
Transvaal	109	33
Cape Province	81	25
Southern Africa (as a regional unit)	45	14
Natal	22	7
Orange Free State	12	4
Southern Rhodesia	11	3
South West Africa	10	3
Northern Rhodesia	8	2
Kenya	4	1
Swaziland	4	1
Uganda	4	1
Mauritius	2)
Nigeria	2)
Tanganyika	2)
Bechuanaland Protectorate	1)
Belgian Congo	1)--- 6
Ghana	1)
Lebanon	1)
New Zealand	1)
Sweden	1)
United States of America	1)
 TOTAL	320	100 %

TABLE 3 : Frequency of Combined Master's and Doctor's Theses
Submitted According to Territories to which Theses
Refer

(Percentages Calculated with Respect to Total Number
of All Theses Submitted to All Universities)

Branch of Geology:	Number of Theses Dealing with Particular Branch of Geology :								Percent- age of Total:		
	CT	Na	OF	Po	Pr	Rh	SA	St	Wi	Total	
Regional Geology	20	17	4	3	17	6	5	10	7	86	27
Igneous Petrology	22	-	-	-	35	2	5	13	5	85	27
Economic Geology	7	1	-	-	15	4	5	16	31	79	24
Stratigraphy, Lithology, Sedimentology	3	-	-	-	3	1	2	3	2	14	5
Geomorphology	1	1	-	-	1	-	3	5	2	13	4
Sedimentary Petrology	3	1	-	-	4	-	-	3	-	11	3
Groundwater Geology	-	1	-	-	3	-	3	1	2	10	3
Geophysics, Geophysical Exploration	3	-	-	-	1	-	1	1	2	8	2
Paleontology	2	1	-	-	-	-	1	-	4	8	2
Structural Geology	1	-	-	-	-	-	-	3	-	4	1
Pedology	-	-	-	-	2	1	-	-	-	3	1
Engineering Geology	2	-	-	-	-	-	-	-	-	2	1
Total Number of Theses	64	22	4	3	79	15	26	55	55	323	100 %

Key to Abbreviations:

CT = Cape Town

Na = Natal

OF = Orange Free

Po = Potchefstroom

State

Rh = Rhodes

Pr = Pretoria

SA = South Africa

St = Stellenbosch

Wi = Witwatersrand

TABLE 4 : Frequency of Combined Master's and Doctor's Theses
Submitted According to Individual Universities and
to Branch of Geology with Which Theses are
Primarily Concerned

Geological Formation Described :	Number of Theses:	Percentage of All Theses:
Karoo and Post-Karoo Formations	67	22
Bushveld Igneous Complex and Equivalents	41	14
Transvaal System and Equivalents	29	10
Dominion Reef, Witwatersrand and Ventersdorp Systems	27	9
Other Pre-Karoo Formations	110	35
General Geological and Allied Topics	29	10
Total	303	100 %

TABLE 5 : Frequency of Combined Masters' and Doctors' Theses Submitted According to All Universities and to Geological Formation Forming Primary Topic of Thesis

(Percentages Calculated with Respect to Number of Theses Submitted to All Universities and Dealing with Territories in Southern Africa only)

Economic Geology Theses : Types of Deposits Described	Number of Theses	Percentage of All Theses
Precious Metals	33	43
Precious Stones	0	0
Base Metals	29	36
Non-Metallic Minerals	13	16
Fuels	4	5
Totals :	79	100 %

TABLE 6 : Frequency of Combined Masters' and Doctors'
Economic Geology Theses Submitted According to
All Universities and to Types of Deposits Described

(Percentages Calculated with Respect to Number of
Theses Submitted to All Universities and Dealing
with Topics of Economic Geology Only)

LIST OF ALL THESES ARRANGED ALPHABETICALLY ACCORDING TO
AUTHOR:

ACKERMANN P. B.

Geology of the Raap Kraal District of the
Cape Peninsula

M.Sc. - Cape Town

- 1938

AMDURER S.S.

The Engineering Geology of the Cape Flats
Ph.D. - Cape Town

- 1956

AMM F. L.

The Pre-Cape Rocks of the Uitenhage Division
M.Sc. - Rhodes

- 1932

AMM F. L.

The Geology of the Country Round Bulawayo
D.Sc. - South Africa

- 1940

ANDREW J. L.

On Some Composite Dykes of the Southern
Transvaal

M.Sc. - Witwatersrand

- 1923

ARNETT O. J. L.

The Geology of the Groenberg District, Natal
M.Sc. - Natal

- 1955

BAARDT J. J.

A Stratigraphic Study of the Sediments of the
Upper Witwatersrand Formation as Disclosed in
the Venterspost-Libanon Mining Area
M.Sc. - Witwatersrand

- 1947

BAHNEMANN K. P.

The Ores of the 'J-Lines' Sanyati Copper Mine,
Southern Rhodesia

M.Sc. - Pretoria

- 1957

BARNARD E.

Die Konsentrasie en Spektrochemiese Bepaling
van die Elemente Au, Ru, Ir, Ag, Pt, Pd, Rh
en Os in Gesteentes en Ertse
M.Sc. - Stellenbosch

- 1956

BARNARD K. J.

The Geology of the Bourke's Luck Mine,
Eastern Transvaal

M.Sc. - Witwatersrand

- 1956

BASKIND R.

A Comparative Investigation into the
Structure of the Chromites of the Bushveld
Igneous Complex and Their Utilisation
Ph.D. - Rhodes

- 1947

BERNING J.

The Upper Zone of the Bushveld Complex,
West of Potgietersrust

M.Sc. - Pretoria

- 1941

BERRY H. J.

Die Geologie van die Driehoek Caledon-rivier,
Jammersbergspruit en Basutoland-Grens, om die
Dorp Wepener

M.Sc. - Orange Free State - 1952

BIRKENSTOCK J. F.

Stratigraphy of the Cretaceous System in the
Vicinity of False Bay, Zululand

M.Sc. - Pretoria - 1941

BISSCHOFF A. A.

Die Stollingsgesteente-Kompleks op Roodekraal
37, Potchefstroom-distrik

M.Sc. - Potchefstroom - 1950

BLIGNAUT J. J. G.

Clays derived from the Lower Dwyka Shales
Occurring in the Vicinity of Grahamstown

M.Sc. - Rhodes - 1929

BOARDMAN L. G.

The Geology of the Manganese and Iron
Deposits North of Postmasburg, C.P.

D.Sc. - Pretoria - 1940

BOND G. W.

The Nature and Chemical Composition of the
Underground Waters of the More Important
Geological Horizons in the Union of South
Africa with Special Reference to Adaptability
for Power Production and Industry

D.Sc. - South Africa - 1943

BOOCOCK C.

The Structural Features and Inclusions of
the Cape Peninsula Granite

M.Sc. - Cape Town - 1949

BORCHERS R.

A Petrological Study of Boulders in the
Dwyka Tillite in the Neighbourhood of
Matjesfontein

M.Sc. - Cape Town - 1931

BORCHERS R.

The Odendaalsrus-Virginia Goldfield and
Its Relation to the Witwatersrand

D.Sc. - South Africa - 1950

BOSAZZA V. L.

Raw Material for the Manufacture of Silica
and Alumina Refractories

M.Sc. - Witwatersrand - 1938

BOSAZZA V. L.

The Petrography and Petrology of South
African Clays

D.Sc. - Natal - 1946

<u>BOSHOFF J. C.</u>			
The Upper Zone of the Bushveld Complex North- West of Pretoria	M.Sc. - Pretoria		- 1939
<u>BOSHOFF J. C.</u>			
The Upper Zone of the Bushveld Igneous Complex at Tauteshoogte	D.Sc. - Pretoria		- 1941
<u>BOSHOFF J. C.</u>			
Stratigraphy of the Cretaceous System in the Nduma Area of Northern Zululand	M.Sc. - Pretoria		- 1946
<u>BOSHOFF T. L.</u>			
'n Streekstudie van die Tapgebied van die Olifantsrivier Noord van die $25\frac{1}{2}$ Breedtelyn	D.Sc. - Pretoria		- 1958
<u>BOTHA B. J. V.</u>			
Die Stormbergserieen die Intrusiewe Gesteentes Noord van Elliot, Kaapprovinse	M.Sc. - Pretoria		- 1953
<u>BOUMAN O. C.</u>			
The Dolerite Intrusions of the Wellington- Moorreesburg Area	M.Sc. - Stellenbosch		- 1949
<u>BOUWER R. F. de J.</u>			
The Carbonate Member of the Palabora Igneous Complex	Ph.D. - Cape Town		- 1957
<u>BRAIN C. K.</u>			
The Geology of the Transvaal Apeman-bearing Cave Deposits	Ph.D. - Cape Town		- 1956
<u>BRANDT J. W.</u>			
Die Geologie van 'n Gebied in Noord-Oos- Transvaal met Spesiale Verwysing na die Verspreiding en Petrografie van die Rots- soorte van die Palabora-Stollingskompleks	D.Sc. - Stellenbosch		- 1948
<u>BRANDT R. T.</u>			
The Geology of Certain Igneous Intrusive Rocks in the Far East Rand, Transvaal, South Africa	M.Sc. - Witwatersrand		- 1950
<u>BRIDGES R. J.</u>			
On a Suite of Igneous Rocks near Kidete, Tanganyika, and Associated Development of Copper Ore	D.Sc. - South Africa		- 1936
<u>BRINK W. C.</u>			
The Geology, Structure and Petrology of the Nuwerus Area, Cape Province	D.Sc. - Stellenbosch		- 1945

BRINK W. C. J.

Die Petrologie van die Hibridiese Gesteentes
van Tweefontein 385, Distrik Vredefort, O.V.S.
en die Geologie van die Omgewing

M. Sc. - Potchefstroom

- 1956

BROUXHON G. H. H.

The Geology of the N.E. Quadrangle of the
Square Degree of Mitwaba (Belgian Congo)

M.Sc. - Rhodes

- 1958

BRUMMER J. J.

The Geology of the Roan Antelope Copper
Mine

M.Sc. - Witwatersrand

- 1951

BRUYNZEEL D.

A Petrographic Study of the Waterfall Gorge
Profile at Insizwa

M.Sc. - Stellenbosch

- 1957

BURGER A. J.

The Suitability of Monazites for Age
Determination

Ph.D. - Cape Town

- 1959

BUSHELL L. A.

The Sampling of South African Coal

Ph.D. - South Africa

- 1938

CAMERON-SWAN F. C. M.

The Geology of Kirstenbosch

M.Sc. - Cape Town

- 1935

CHERRY D. W.

The Geology of the Umgeni Dam and Surrounding
Country : Valley of a Thousand Hills, Natal

M.Sc. - Natal

- 1946

CHURCHER C. S.

The Hyracoidea of the Australopithecine
Beds of South Africa

M.Sc. - Natal

- 1954

CILLIERS J. J. le R.

The Geology of the Fountains Valley Area,
South of Pretoria

M.Sc. - Pretoria

- 1953

CLOETE D. R.

Die Dolerietvoorkomste van die Noordelike
Pilansberg

M.Sc. - Pretoria

- 1957

CLUVER A. F.

On the Tectonic History and Some Related
Sedimentational Aspects of the Witwatersrand
and Ventersdorp Systems in the Far East Rand
During Upper-Witwatersrand Pre-Transvaal
System Time

D.Sc. - Stellenbosch

- 1951

<u>COETZEE C. B.</u>	Traverse Along the New Mountain Road from Vredehoek to Beyond Devils Peak	M.Sc. - Cape Town	- 1937
<u>COETZEE C. B.</u>	The Petrology of the Goodhouse-Pella Area, Namaqualand, South Africa	Ph.D. - Cape Town	- 1941
<u>COETZEE G. L.</u>	The Copper, Cobalt and Nickel Content of Some South African Pyrites	M.Sc. - Witwatersrand	- 1955
<u>CONRADIE W. F. and RABIE L.P.</u>	A Petrographic Investigation of the Heavy Residues Associated With the Alluvial Cassiterite from Kuilsriver, Cape Province	M.Sc. - Stellenbosch	- 1944
<u>COOKE H. B. S.</u>	Contributions to the Geology and Palaeontology of the Quaternary Period in Southern Africa	M.Sc. - Witwatersrand	- 1940
<u>COOKE H. B. S.</u>	Contributions to Palaeontology in Southern Africa	D.Sc. - Witwatersrand	- 1946
<u>CORNELISSEN A. K.</u>	The Noumas Orbicular Diorite and Surrounding Rocks	M.Sc. - Cape Town	- 1940
<u>COULTER J.</u>	The Occurrence and Exploitation of Lignite in the Lebanon	M.Sc. - Witwatersrand	- 1944
<u>COUTTS J. R. H.</u>	Studies on the Physical Properties of Natal Soils	D.Sc. - South Africa	- 1946
<u>CURRIE J. O.</u>	The Mode of Occurrence of Platinum Metals in, and their Extraction from, Sulphide Platinum Ore of the Transvaal	M.Sc. - Witwatersrand	- 1940
<u>DAVIES D. N.</u>	The Development and Mineralisation of the Ventersdorp Contact Reef Series at Venterspost	M.Sc. - Witwatersrand	- 1949
<u>DAVIS G. R.</u>	The Origin of the Roan Ahtelope Copper Deposit: A Contribution to the Epigenetic-Syngenetic Controversy	Ph.D. - Rhodes	- 1949

<u>DE BRUYN P. L.</u>	A New Occurrence of Nickeliferous Ore in the Bushveld Complex	M.Sc. - Stellenbosch	- 1943
<u>DE GRAAFF G.</u>	A Preliminary Investigation of the Mammalian Microfauna in the Pleistocene Deposits of Caves in the Transvaal System	M.Sc. - Witwatersrand	- 1958
<u>DE JAGER F. S. J.</u>	The Malmesbury Succession East of the Robertson Granite	M.Sc. - Stellenbosch	- 1943
<u>DE JAGER F. S. J.</u>	Morphological Reconstruction of the Kimberley-Elsburg Series, with Special Reference to the Kimberley Group of Sediments in the East Rand Basin	D.Sc. - Stellenbosch	- 1952
<u>DE KOCK W. P.</u>	Geology of the Western Rehoboth	D.Sc. - Stellenbosch	- 1927
<u>DE SWARDT A. M. J. and MURRAY L. J.</u>	The Petrography of the Karroo Dolerite Sill and Dyke at Paardekop, District Volksrust	M.Sc. - Stellenbosch	- 1942
<u>DE SWARDT A. M. J.</u>	The Geology of the Ife-Ilesha Area, South-Western Nigeria	D.Sc. - Stellenbosch	- 1949
<u>DE VILLIERS J.</u>	The Geology of the Baviaans Kloof and the Surrounding Country	D.Sc. - Stellenbosch	- 1942
<u>DE VILLIERS J. E.</u>	A Study of Some of the Rarer Minerals Occurring in the Union of South Africa	Ph.D. - South Africa	- 1942
<u>DE VILLIERS J. E.</u>	The Mineralogy of the South African Manganese Ores	D.Sc. - Stellenbosch	- 1946
<u>DE VILLIERS P. R.</u>	Die Klipdrif-Sieniet van die Franspoortlinie en die Optiese en Kristallografiese Eienskappe van Twee Senecio Alkaloiede	M.Sc. - Pretoria	- 1952
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<u>SNYMAN C. P.</u>	'n Koepelstruktuur en die Metamorfose van die Sisteem Transvaal Suid van Marble Hall, Transvaal	M.Sc. - Pretoria	- 1957
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<u>TRUSWELL J. F.</u>	A Contribution to the Study of Older Granites in the Nigerian Pre-Cambrian with Special Reference to the Tegina Granite	Ph.D. - Cape Town	- 1959
<u>TRUTER F. C.</u>	Geology of the Heuningberg	M.Sc. - Cape Town	- 1928
<u>TRUTER F. C.</u>	The Geology and Petrography of M'Kushi- Lunsemfwa Area, Northern Rhodesia	Ph.D. - Cape Town	- 1935
<u>URIE J.</u>	The Geology of the Bomvu Ridge Iron Deposits, North-Western Swaziland	M.Sc. - Witwatersrand	- 1958
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