33 C.—3.

When the examiners are satisfied with these preliminaries they will set the candidate a thesis on some mining subject, which must be completed in three months. This done, the candidate is put through a viva voce examination in geology, including paleontology, mining geology, mining surveying and geodesy, machinery and electro-technology, chemical technology and blowpipe analysis, general principles of mining law, mine-management, political economy and finance, mining statistics, and the translation into German of a French or English paper on mining.

The preparation of the drawings and theses required in the German mining course itself possesses a high educational value, as thereby many minute but essential details are brought under the notice of the student by personal observation, which is not always possible in mere lecture demonstration. Besides, in the preparation of a thesis, a student discovers the limitations of his knowledge—itself no mean advantage—and is thus able to repair his deficiencies before commencing the practice of his profession.

PREPARATION OF THESES FOR DIPLOMAS OF OTAGO MINING SCHOOL.

In the regulations relating to the issue of diplomas by the Otago Mining School a certain period of practical work is required in all the divisions; and in the surveying division the requirements of plans, profiles, and geodesy, in conformity with the regulations of 1902, form a thesis perhaps more stringent than the German.

Candidates for diplomas in mining, metallurgy, and geology are not required to produce a thesis, and the experience gained in the prescribed period of practical work is often of doubtful value. On the other hand, the advantages attending the preparation of a thesis on a technical subject are manifestly great, and, in order to keep pace with the progressive policy of the Germans, it will be necessary to require a thesis from candidates for diplomas in mining, metallurgy, and geology.

Conclusion.

I wish, in conclusion, to express my appreciation of the zeal and ability with which Dr. Marshall, Mr. Waters, and Mr. Armstrong (lecturers), and Mr. A. R. Andrew (demonstrator in surveying) carried out their several duties throughout the session of 1903.

EXPENDITURE ON SCHOOLS OF MINES.

The following table shows the expenditure by the Government on schools of mines since their inauguration, exclusive of subsidies paid to the University of Otago towards the School of Mines in connection with that institution:—

Financial Years.		Subsidies towards the Erection of Schools of Mines, and Maintenance.			Chemicals and Apparatus, also Mineralogical Specimens supplied to Schools of Mines.			Scholar- ships.	Salaries of Teachers, and Travelling- expenses, &c.			Total Sum paid by the Depart- ment towards the Schools of Mines.		
		£	s.	d.	£	8.	d.	£	£	g.		£	8.	đ.
1885–86	• • •				36		_		1,223	9		1,260	9	7
1886–87	•••	257	_	6	409	1	4	•••	2,716	9	_	3,383	7	1
1887–88	• • •		15	9	253		. 1	•••	1,714	9	-	2,221	19	4
1888–89	• • •	42	10	0	6	12	9	•••	1,139	4	1	1,188	6	10
1889–90	•••	142	2	0	181			•••	716	3		1,040	0	8
1890-91	••••	217	6	6	54	8	0	•••	620	9	9	892	4	3
1891–92			14	0		• • •		•••	689	5	9	870	19	9
1892–93		312	3	4		• • •		•	670	1	0	982	4	4
1893–94	• • • •	197	0	5				•••	858	19	4	1,055	19	9
1894–95		390	0	0	45	10	10		773	17	8	1,209	8	6
1895–96		820	0	0	*^	•••		50	849	3	0	1,719	3	0
1896–97	• • • •			11			6	100	834	12	8	1,346	6	1
1897–98	• • •	-,	18	6	29	19	9	100	780	19	0	2,000	17	3
1898-99			15	2	32	19	$\frac{7}{2}$	50	729	10	11	1,553	5	8
1899–1900	• • • •	990	3	4	24	3	8	50	52	16	3	1,117	3	3
1900-1901		000	10	11	56	3	4	98	77	7	10	1,098	2	1
1901–1902		-,	12	3	63	5	1	49	69	16	4	1,337	13	8
1902-1903			15	6	134	18	8	158	111	0	0	1,783	14	2
1903–1904	•••	1,575	15	3	88	18	8	92	109	15 	10	1,866	9	9
Totals	·	10,965	14	4	1,477	8	10	747	14,737	11	10	27,927	15	0

The above statement shows the amount expended on the different schools of mines throughout the colony; but, in addition to this, the sum of £10,553 6s. 2d. has to be added, as that has been paid to the School of Mines attached to the University of Otago, £500 being paid last year towards maintaining the school, which makes the total expenditure up to the 31st March last to be £38,481 1s. 2d. This expenditure has extended over a period of nineteen years.