

1913.  
NEW ZEALAND.

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EDUCATION:  
HIGHER EDUCATION.

In Continuation of E.-7, 1912.

*Presented to both Houses of the General Assembly by Command of His Excellency.*

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# I. EXTRACT FROM THE THIRTY-SIXTH ANNUAL REPORT OF THE MINISTER OF EDUCATION.

## HIGHER EDUCATION.

### NEW ZEALAND UNIVERSITY AND AFFILIATED COLLEGES.

The New Zealand University, the body which has general control of higher education in New Zealand, was founded by the New Zealand University Acts of 1870, 1874, and 1875. In 1876 the University was recognized by Royal charter as entitled to grant the degrees of Bachelor and Master in Arts, and Bachelor and Doctor in Law, Medicine, and Music. The Amendment Act, of 1883, and the supplementary charter issued in December of the same year, added the degrees of Bachelor and Doctor of Science. Moreover in 1904, the University Degrees Act gave the University authority to confer degrees of Doctor of Literature, Master of Laws, Surgery, and Science, and Bachelor, Master, and Doctor of Veterinary Science, Dental Surgery, Mechanical, Electrical, Civil, Mining, and Metallurgical Engineering, Naval Architecture, Agriculture, Public Health, and Commerce. For these latter no further charter has been given, so that nominally they must be considered as having currency only in New Zealand.

The affairs of the University of New Zealand are controlled by a Senate, which, under the New Zealand University Amendment Act, 1902, consists of twenty-four members or Fellows—four elected by the Governor in Council; eight by the governing bodies of the four affiliated institutions, two by each; four, one each, by the Professorial Boards; and eight, two each, by the four District Courts of Convocation, consisting of the graduates belonging to the several University districts. The revenue of the University is derived chiefly from a statutory Government grant of £3,000 per annum, from examination and diploma fees, and from interest on money invested.

The University is an examining, not a teaching, body, and four teaching institutions are affiliated to it—the Auckland University College, Victoria College, Canterbury College, and Otago University. Of these four institutions the two first mentioned—Auckland University College and Victoria College—each receive an annual statutory grant of £4,000, supplemented during each of the last three years by grants of £1,200 and £1,500 respectively, while the two others—Canterbury College and Otago University—are endowed with reserves of land. The affairs of these University colleges, including the appointments of professors and lecturers, are entirely in the hands of their various Councils.

Each of the four affiliated University colleges specializes in certain directions, and to further this purpose Government makes to each an annual grant of £2,000. Otago University has attached to it Medical and Dental Schools and a School of Mining and Metallurgical Engineering; Canterbury College has a School of Engineering (mechanical, electrical, and civil); the grant to Auckland University College is allocated for mining and commerce; while the grant to Victoria College is intended to enable it to specialize in law and science.

While the University colleges thus perform the actual teaching-work, the University exercises most important functions in regulating the scope of the degree examinations, in appointing examiners, in awarding scholarships, in conferring degrees, and in many other directions. At the outset it was the policy of the University Senate to appoint outside examiners for most of its degree examinations; generally speaking, this is still its policy, with the result that the University colleges, having their programme of work strictly defined by the statutes of the University, and having the work of their students examined in England and elsewhere, possess very little freedom in extending or modifying their curriculum.

### OTHER PROFESSIONAL INSTITUTIONS.

In addition to the four University colleges there are several institutions which, though not actually affiliated to the New Zealand University, are equally entitled to be considered professional in their scope and character.

The Canterbury Agricultural College is recognized as a School of Agriculture, and matriculated students of the College may, after a two years' course, followed by a further course of one year at a University college, qualify for the Degree of Bachelor of Agriculture upon passing the prescribed examination.

In several respects the four training colleges at Auckland, Wellington, Christchurch, and Dunedin—may be considered professional schools. Although not

affiliated with the New Zealand University, they are in several ways directly associated with the University colleges: matriculation is the entrance examination for both; the Principal of the training college is usually lecturer on education at the University college; attendance at some at least of the University college courses is compulsory for trainees; and a member of the Professorial Board of the University college is a member of the Board of Advice of the training college.

#### NEW ZEALAND UNIVERSITY.

The following figures are extracted from the Annual Report of the University to His Excellency the Governor:—

	1911.	1912.
Total number of candidates at all examinations, &c.	3,346	3,496
Number of degrees conferred	163	189
Of whom the number gaining honours was	42	35
Number passing Matriculation Examination	512	515
Total number of graduates so far admitted	1,524	1,661

The following table shows the principal items of income and expenditure of the University of New Zealand for the years 1911 and 1912:—

	<i>Income.</i>		<i>Expenditure.</i>	
	1911. £	1912. £	1911. £	1912. £
Balances—				
General Account	3,841	4,288	2,071	2,099
Scholarship Account	24,290	25,440	6,046	6,593
	28,131	29,728	1,086	1,058
Statutory grant	3,000	3,000	Expenses of Senate meetings	585
Fees	7,506	8,903	Miscellaneous	771
Interest	1,177	1,208	Balances	29,728
Miscellaneous	473	258		
	<u>£40,287</u>	<u>£43,097</u>	<u>£40,287</u>	<u>£43,097</u>

In the above statement no account has been taken of special scholarships and prize funds. The balance at the end of the year, £31,725, consists of a balance on the Scholarships Account of £26,049, and a balance on the General Account of £5,676. The amount in hand for general purposes was therefore £5,676, the only liability of importance against which is an amount of £1,971 due to English examiners for the degree examinations of November, 1912. The net balance on the General Account has therefore increased from £2,536 in 1911 to £3,705, a net increase of £1,169.

#### DEGREES CONFERRED AND SCHOLARSHIPS AWARDED.

At its annual meeting in January of the present year the Senate conferred degrees and awarded scholarships as set out in the table below. For the sake of clearness no notice has been taken of similar degrees awarded on the results of a single examination—as, for instance, Master and Honours, or the double degree of Bachelor of Medicine and Surgery.

TABLE M.—DEGREES CONFERRED BY THE NEW ZEALAND UNIVERSITY AT THE BEGINNING OF 1913.

Degrees.	Auckland University College.			Victoria College.			Canterbury College.			Otago University.			Total.			
	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.	
Doctor of Science	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Doctor of Medicine	..	..	..	..	..	..	..	..	..	2	..	2	..	..	2	
Honours in Arts	..	2	2	4	8	1	9	2	2	4	7	4	11	19	9	28
Honours in Science	..	1	..	1	..	1	..	..	..	5	..	5	6	1	7	
Honours in Laws	..	..	..	2	..	2	..	..	..	..	..	..	2	..	2	
Master of Arts	..	1	..	1	..	1	..	1	..	1	..	..	2	1	3	
Master of Laws	..	..	..	1	..	1	..	..	..	..	..	..	1	..	1	
Master of Science	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bachelor of Arts	..	9	8	17	15	14	29	13	..	13	16	7	23	53	29	82
Science	..	3	..	3	..	..	..	4	..	4	2	1	3	9	1	10
Engineering (civil)	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	1
" (metallurgical)	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	1
Medicine and Surgery	..	..	..	..	..	..	..	..	..	8	..	8	8	..	8	
Dental Surgery	..	..	..	..	..	..	..	..	..	2	..	2	2	..	2	
Laws	..	5	..	5	19	1	20	4	..	4	2	..	2	30	1	31
Commerce	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	1
Music	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	1
Agriculture	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	1
Senior University Scholarships	..	1	..	1	4	2	6	3	..	3	2	..	2	10	2	12
John Tinline Scholarships	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	1
	22	10	32	51	19	70	30	3	33	47	12	59	150	44	194	

Out of 2,228 students on the books of the University colleges there were thus 181 who rose from the status of undergraduates to that of graduates—a percentage of 8·1, as against 8·4 for 1911.

Two degrees of Doctor were awarded in medicine. The degree in Agriculture was the first conferred, and there have not yet been any Doctors of Music or Bachelors of Veterinary Science.

#### AFFILIATED COLLEGES.

Reference to Table MA will show that there were 2,114 students actually in attendance at the four University colleges, an increase of 338 over the number for the previous year. Of these, 89 were graduates, 1,341 were undergraduates, and 684 were unmatriculated students. In addition to the matriculated students mentioned above, there were 114 students attached to the various University colleges, but exempt from lectures—that is, they were prevented by distance or by the necessity of earning their living from attending lectures at the college, but were allowed to keep terms, except in certain science and professional subjects, by passing the annual college examination.

TABLE MA.—STUDENTS ON THE BOOKS OF THE AFFILIATED INSTITUTIONS.

Number of Students, 1912.	Auckland University College.	Victoria College.	Canterbury College.	Otago University.	Totals.	Totals for 1911.
<b>I. Attending lectures (whether terms were kept or not)—</b>						
<b>(1.) Matriculated students—</b>						
<b>(a.) Graduates—</b>						
Men .. .. .	16	21	5	18	60	51
Women .. .. .	4	15	3	7	29	23
Total graduates attending lectures..	20	36	8	25	89	74
<b>(b.) Undergraduates—</b>						
Men .. .. .	225	247	166	272	910	816
Women .. .. .	83	123	122	103	431	429
Total undergraduates attending lectures	308	370	288	375	1,341	1,245
<b>(c.) All matriculated students (a) and (b)—</b>						
Men .. .. .	241	268	171	290	970	867
Women .. .. .	87	138	125	110	460	452
Total matriculated students attending lectures	328	406	296	400	1,430	1,319
<b>(2.) Non-matriculated students—</b>						
Men .. .. .	250	114	37	82	483	261
Women .. .. .	114	27	29	31	201	19
Total non-matriculated students attending lectures	364	141	66	113	684	45
<b>(3.) All students attending lectures (1) and (2)—</b>						
Men .. .. .	491	382	208	372	1,453	1,128
Women .. .. .	201	165	154	141	661	648
Total all students attending lectures	692	547	362	513	2,114	1,776
<b>II. Exempt students not attending lectures, not included above—</b>						
Men .. .. .	10	48	9	21	88	84
Women .. .. .	1	18	2	5	26	40
Total exempt students .. .. .	11	66	11	26	114	124
<b>III. Total all students I and II—</b>						
Men .. .. .	501	430	217	393	1,541	1,212
Women .. .. .	202	183	156	146	687	688
Grand total all students .. .. .	703	613	373	539	2,228	1,900

Table MB shows the degree courses taken during the year 1912 by students attending lectures at the various University colleges, including the professional schools attached thereto.

TABLE MB.—COURSES TAKEN BY STUDENTS ATTENDING LECTURES AT UNIVERSITY COLLEGES IN 1912

Course.	Men.	Women.	Total.
Arts (as for B.A., M.A., &c.)	345	273	618
Science (as for B.Sc., M.Sc.)	59	10	69
Law (as for LL.B.)	236	...	236
Commerce (as for B.Com.)	54	...	54
Music (as for B.Mus.)	...	3	3
Medicine (as for M.B., &c.)	117	10	127
Dentistry (as for B.D.S.)	10	1	11
Engineering (Civil, Mechanical, or Electrical)	24	...	24
Mining Engineering	14	...	14
Home Science	...	30	30
Agriculture (exclusive of students at Lincoln Agricultural College during 1912)	1	...	1
<b>Totals</b>	<b>860</b>	<b>327</b>	<b>1,187</b>

The total staff of the four University colleges consists of 46 professors and 50 lecturers.

The following table shows the staff of the several institutions:—

PROFESSORS AND LECTURERS (1912).

	Professors.	Lecturers, Demonstrators, and Assistants.
Auckland University College	7	10
Victoria University College	10	11
Canterbury University College	9	14
Otago University	20*	15†
<b>Total</b>	<b>46</b>	<b>50</b>

\* Also one Emeritus Professor.  
Clinical Medicine and Clinical Surgery.

† Also the honorary staff of the Dunedin Hospital act as lecturers on

FINANCES OF THE AFFILIATED INSTITUTIONS IN 1912.

The detailed statements of accounts of the New Zealand University, the four affiliated institutions, and the Canterbury Agricultural College, Lincoln, will be found in the appendix. The following summary gives a general view of the finances of the University colleges. No notice has been taken of special trust accounts and of non-university institutions under the control of a College Council, such as (for instance) the Museum, Public Library, or School of Art, controlled by the Board of Governors of Canterbury College, or the Museum connected with Otago University.

TABLE MC.—SUMMARY OF ACCOUNTS.  
Receipts—(exclusive of Special Trusts).

University College.	From Government.												Total.														
	Statutory.			Special and other Payments.			Buildings.			Total from Government.				Income from Endowments and Interest.			Fees.			Donations, &c.			Miscellaneous.				
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.		
Auckland	4,000	0	0	3,412	12	8	..	..	..	7,412	12	8	581	3	5	3,253	16	0	650	0	0	234	1	8	12,133	13	9
Victoria (to 31st March, 1913)	4,000	0	0	4,315	10	3	..	..	..	8,315	10	3	74	2	3	2,162	2	9	165	5	0	11	19	5	10,728	19	8
Canterbury	..	..	..	2,515	3	8	..	..	..	2,515	3	8	12,426	19	2	3,113	2	10	..	..	..	703	2	7	18,758	8	3
Otago (to 31st March, 1913)	..	..	..	5,432	16	0	986	9	2	6,419	5	2	*8,314	1	4	6,477	10	5	6,408	8	11	120	18	6	27,740	4	4
Total of four University Colleges	8,000	0	0	15,676	2	7	986	9	2	24,662	11	9	21,396	6	2	15,008	12	0	7,223	13	11	1,070	2	2	69,361	6	0
Canterbury Agricultural College	..	..	..	..	..	..	..	..	..	..	..	..	3,628	17	10	1,760	0	0	7	14	6	5,814	2	0	11,210	14	4

\* Including £1,800 paid (annually) by the Presbyterian Church Board.

Expenditure—(exclusive of Special Trusts).

University College.	Expenditure—(exclusive of Special Trusts).												Total.																				
	Administration.			Salaries.			Sites, Buildings, Equipment and Apparatus.			Material and Renewals.				Expenses on Endowments.			Interest.			Libraries.			Scholarships.			Miscellaneous.							
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.					
Auckland	1,194	7	3	6,158	11	8	3,500	0	0	336	1	10	103	8	4	89	17	0	1	5	0	115	17	9	77	10	0	*3,432	13	2	15,009	12	0
Victoria (to 31st March, 1913)	1,212	8	3	8,664	12	9	477	3	6	342	12	7	150	16	4	..	..	..	310	14	2	..	..	..	..	..	..	56	10	10	11,214	18	5
Canterbury	1,606	13	3	11,274	10	5	1,248	16	2	942	8	0	309	3	5	698	14	5	375	2	2	81	10	2	345	15	2	405	12	11	17,288	6	1
Otago (to 31st March, 1913)	959	1	9	15,318	7	6	5,034	3	1	574	13	7	616	15	10	142	6	5	500	0	0	264	16	4	..	..	..	42,738	6	11	26,148	11	5
Total of four University Colleges	4,972	10	6	41,416	2	4	10,260	2	9	2,195	16	0	1,180	3	11	930	17	10	876	7	2	772	18	5	423	5	2	6,633	3	10	69,661	7	11
Canterbury Agricultural College	197	16	9	1,819	14	8	2,016	16	11	..	..	..	1,670	3	1	2	7	6	..	..	..	55	1	3	40	0	0	5,629	9	9	11,431	9	11

\* Including £3,255 16s. students' fees paid to professors and lecturers.

† Including £2,000 paid in reduction of debentures.

### SCHOLARSHIPS, BURSARIES, ETC.

University scholarships may be divided into three broad classes: (1) Entrance scholarships, (2) scholarships awarded during the degree course, (3) post-graduate scholarships.

(1.) University entrance scholarships are awarded annually on the results of the University Junior Scholarship Examination, and are as follows: Junior University, Senior National, and Taranaki Scholarships, in addition to some thirty or forty local and privately endowed scholarships awarded on the results of the same examination. Queen's Scholarships (Victoria College) are not now awarded, and the terms of the last holders have expired. In addition to the above, all those who gained "credit" at the same examinations are entitled to hold bursaries which meet the cost of college fees up to £20 per annum.

(2.) Scholarships awarded during the degree course are the Senior University, Tinline, and Sir George Grey. The two first are tenable by candidates sitting for their final examination for B.A. or B.Sc., and may therefore be regarded in a sense as post-graduate.

(3.) The chief scholarships awarded at the end of the University course are the Rhodes Scholarship, the 1851 Exhibition Scholarship, the Medical Travelling Scholarship, and the Research Scholarships. The three first are all travelling scholarships—that is, they are tenable abroad. The Research Scholarships are each of the value of £100 per annum, with laboratory fees and expenses. They are offered annually by the Government, one to each of the affiliated institutions, to promote research-work likely to be of benefit to New Zealand industries.

So far ten Rhodes Scholarships have been granted, four to students of Auckland University College, four to students of Otago University, and two to students of Victoria College. The last scholarship awarded (1913) was to Frederick F. Miles, of Otago University. In the appendix will be found a summary account of the careers of various New Zealand Rhodes scholars after arriving at Oxford University.

So far (1913) nine Research Scholarships have been awarded, and of these two were in active operation in 1912. The subjects of research undertaken have been in each case closely connected with some New Zealand industry, or with some industry which, though not yet undertaken in this Dominion, may at an early date be an industry of importance in New Zealand. Even if the discoveries made in the course of the research have no immediate commercial value, yet the training of a body of students in the application of scientific methods to the national industries cannot fail to be of great ultimate benefit to the Dominion.

An important step was made in May, 1912, in the direction of extending the system of granting University bursaries. Bursaries may be awarded on the recommendation of the University of New Zealand to matriculated students who have been resident in the Dominion for a full year, provided they fall within one of the five following classes:—

- (1.) They must have obtained "credit" at the University Junior Scholarship or the Senior National Scholarship;
- (2.) *Or* they must have within one year and six months immediately preceding gained a higher leaving certificate;
- (3.) *Or* they must, within the same period, have completed their terms of service as probationers or pupil-teachers to the satisfaction of the Education Board of their district, and must declare their intention of entering a recognized training college on completion of the tenure of their bursary;
- (4.) *Or* they must have completed a course of training at one of the four training colleges;
- (5.) *Or* they must have gained a teachers' C or higher certificate.

Such bursaries are not tenable with any entrance scholarship the value of which exceeds £20 per annum. They are tenable for three years at any University college or school of agriculture recognized by the University, and entitle the holders to exemption from payment of University and College fees up to £20 per annum.

In other respects, bursaries are held subject to the same conditions as Senior National Scholarships, with the exception that in the case of bursars it is not insisted that the scholar should devote his whole time to academic study.

With the view of extending the sphere of usefulness of the special courses in home science and domestic arts recently inaugurated by the Council of the Otago University, regulations providing for the award of bursaries were issued in November, 1912, under the regulations for manual and technical instruction. These bursaries may be awarded on the recommendation of the Council to students who have been resident in the Dominion for not less than twelve months. Applicants must have—

- (1.) Passed the Matriculation Examination or some other examination approved for the purpose ; or
- (2.) Obtained at least a partial pass in the examination for the Class D Teachers' Certificate ; or
- (3.) Gained a higher leaving certificate or, in the case of pupil-teachers or probationers, a lower leaving certificate.

Applicants are required to make a declaration that they will on completion of their course engage in teaching for not less than three years.

The term of a bursary is two years, but may be extended for one year longer. A bursar under these regulations receives £20 per annum, together with the fees for the course for the degree or the diploma in home science and domestic arts, and, if obliged to live away from home, an allowance of £30 per annum. The bursaries are not tenable by holders of any other bursaries or of any scholarship of the value of £20 and upwards.

So far (1913) bursaries to the number of thirteen have been awarded. Five bursars are taking the course for the degree, and eight that for the diploma in home science and domestic arts.

Table MD shows the number of scholarships, bursaries, and studentships held at each University college during the year.

TABLE MD.—SCHOLARSHIPS, BURSARIES, EXHIBITIONS, AND STUDENTSHIPS HELD AT THE AFFILIATED INSTITUTIONS IN 1912.\*

Scholarships, &c.	Auckland University College.	Victoria College.	Canterbury College.	Otago University.	Total.
Junior University Scholarships ...	9	3	3	13	28†
Senior National Scholarships ...	6	12	14	24	56
Taranaki Scholarships ...	...	1	...	1	2
Senior University Scholarships ...	3	4	1	8	16
Bursaries ...	13	10	5	10	38
Sir George Grey Scholarships ...	1	1	1	1	4
Other Scholarships and Exhibitions ...	2	2	12	3	19
Training-college Studentships ...	101	96	99	103	399
Totals ...	135	129	135	163	562

\* Exclusive of Rhodes Scholarships and International Exhibition Scholarships (which are tenable out of New Zealand), and exclusive also of the Research Scholarships given by the Government. † Also holders of bursaries: Total bursaries, 66.

#### THE UNIVERSITY ENDOWMENT ACT, 1868.

The income accrued under this Act, and applicable to the purposes of higher education yet to be determined by Parliament, amounted, on the 31st March, 1913, to £302 11s. 8d., received from reserves in Westland.



## II. NEW ZEALAND RHODES SCHOLARS.

### SUMMARY OF THEIR CAREERS AT OXFORD AND SUBSEQUENTLY.

THE following information in connexion with Rhodes Scholars—a summary of their careers at the University of Oxford and subsequently—has been collected by the Education Department.

#### RHODES SCHOLARS.

THOMSON, JAMES A. (1904): Otago University—B.Sc., 1903; Honours in Science (First Class in Geology), 1904; A.O.S.M., 1904. Oxford—B.A. with First-class Honours in Natural Science (Geology), 1906; awarded the Burdett-Coutts Scholarship in Geology, Chemistry, and Zoology (£115 a year for two years), (Oxford, 1906–7); title F.G.S. from 1906; Lecturer in Geology, St. John's College, Oxford, 1907–8. Geologist to 1910 British Antarctic Expedition. M.A., 1912 (Oxford). Palaeontologist, Mines Department, New Zealand, 1911–13. D.Sc., 1912.

ROBERTSON, PHILIP W. (1905): Victoria College—First-class Honours in Chemistry, 1904; M.A., 1905; M.Sc., 1906. Oxford—M.A., Honorary Scholar, Trinity College, 1906. Phys.D. (Honours), Leipzig. Final Honour Schools—First-class Honours in Chemistry, 1907. Professor in Rangoon University, Burmah, 1908–9. Now Lecturer in Imperial College of Technology, London.

FARQUHARSON, ROBERT A. (1906): Otago University—B.Sc., 1905; First-class Honours in Geology, Second-class in Electricity and Magnetism, M.Sc., 1906. Oxford—B.A., 1908. Final Honour Schools—Second-class Honours in Geology, 1908; M.A., 1911. Now Petrographer to Geological Survey, Western Australia.

GILRAY, COLIN M. (1907): Otago University. Final Honour Schools—Second-class Honours in Literae Humaniores, 1909. B.A., Oxford, 1910. Master at Mill Hill Grammar School, two years. Called to Bar of the Middle Temple, London, 1913. Intends practising in New Zealand. Won his "blue" at Oxford as a Rugby footballer, and played twice for Scotland against England.

ZIMAN, SOLOMON N. (1908): Auckland University College—B.Sc., 1907; First-class Honours; Mathematics, Third-class Honours, Heat, 1907; M.Sc., 1908. Oxford—Scholarship (honorary) in Mathematics at Balliol College. Final Honour Schools—First Mathematics, 1909; B.A., 1910. Seventy-first on list for appointments in Home and Indian Civil Service, 1910. Now in Civil Service, India.

MACDOUGALL, ALLAN (1909): Victoria College—B.A., 1907; First-class Honours in English and French, 1907; M.A., 1908; Jacob Joseph Scholarship, 1908. Oxford—Final Honour Schools—First-class English Literature, 1911; B.A., 1911. Now Lecturer in Department of English, Nottingham University College, England.

SISAM, KENNETH (1910): Auckland University College—B.A., 1909; First-class Honours in Latin and English, 1909; M.A., 1910. Now Lecturer in English, Merton College, Oxford.

MARSHALL, ALFRED G. (1911): Auckland University College—B.A., 1909; First-class Honours in Mathematics, 1909; M.A., 1910.

WALLACE, ALAN (1912): Auckland University College—B.A., 1911; First-class Honours in Mathematics, Second-class Honours in Chemistry, 1911; M.A., 1912.

MILES, FREDERICK F. (1913): Otago University—B.A., 1912; First-class Honours in Mathematics, English, and French, 1912; M.A., 1913.

## APPENDIX.

### A. REPORT OF THE UNIVERSITY OF NEW ZEALAND, 1912.

*Visitor.*—His Excellency the Governor.

*Chancellor.*—His Honour Sir Robert Stout, K.C.M.G., Chief Justice.

*Vice-Chancellor.*—Hon. Sir C. C. Bowen, Kt., M.L.C.

*The Senate.*

Appointed by His Excellency the Governor in Council—G. Hogben, Esq., M.A., F.G.S.; F. Fitchett, Esq., M.A., LL.D.; H. A. Gordon, Esq., F.G.S., M.A.I.M.E., A.M.I.C.E.; and W. E. Collins, Esq., M.B., M.R.C.S.Eng.

Appointed by governing bodies of affiliated institutions—J. Shand, Esq., M.A., LL.D.; Rev. W. Hewitson, B.A.; R. J. Scott, Esq., M.I.C.E., M.I.M.E., A.A.I.E.E.; Hon. Sir C. C. Bowen, Kt., M.L.C.; Sir G. M. O'Rorke, Kt., M.A., LL.D.; Hon. J. A. Tole, B.A., LL.B.; His Honour Sir R. Stout, K.C.M.G., Chief Justice; and Rev. W. A. Evans.

Appointed by Professorial Boards—W. B. Benham, Esq., M.A., D.Sc.; C. Chilton, Esq., M.A., D.Sc., M.B., C.M., F.L.S.; F. D. Brown, Esq., M.A., B.Sc.; and J. R. Brown, M.A.

Elected by District Courts of Convocation—Rev. A. Cameron, B.A.; J. M. Brown, Esq., M.A., LL.D.; J. W. Tibbs, Esq., M.A.; Dr. W. C. W. McDowell, B.A., M.D., C.M.; H. F. Von Haast, Esq., M.A., LL.B.; J. Hight, Esq., M.A., Litt. D., F.R.E.S.; P. Marshall, Esq., M.A., D.Sc., F.G.S., F.R.G.S.; and T. A. Hunter, Esq., M.A., M.Sc.

*Registrar.*

Barclay Hector.

*Assistant Registrar.*

Edwin Thomas Norris, M.A.

### ANNUAL REPORT OF THE SENATE.

IN compliance with the 28th clause of the University Act, the Senate makes the following report to His Excellency the Governor of the proceedings of the University since the date of the last report :—

The Senate met at Auckland, pursuant to the provisions of the University Act, in annual session on the 20th January, 1913, and at that session made certain amendments to the University statutes. These amendments have been approved by His Excellency.

The usual examinations were held in April, May, November, and December, 1912, and in January, 1913, in the faculties of arts, science, medicine, law, engineering, commerce and music, and for admission to the legal and accountants' professions. The total number of candidates at these examinations was 3,496.

The Senate also held a special session in April, 1913.

At the annual and special sessions the Senate ordered the following degrees to be conferred by the Chancellor or his deputy, subject to the payment of the necessary fees :—

- The degree of Bachelor of Arts on 82 candidates.
- The degree of Bachelor of Science on 10 candidates.
- The degree of Bachelor of Engineering on 2 candidates.
- The degree of Bachelor of Laws on 31 candidates.
- The degree of Bachelor of Medicine on 8 candidates.
- The degree of Bachelor of Dental Surgery on 2 candidates.
- The degree of Bachelor of Surgery on 8 candidates.
- The degree of Bachelor of Music on 1 candidate.
- The degree of Bachelor of Agriculture on 1 candidate.
- The degree of Bachelor of Commerce on 1 candidate.
- The degree of Master of Arts on 31 candidates.
- The degree of Master of Laws on 3 candidates.
- The degree of Master of Science on 7 candidates.
- The degree of Doctor of Medicine on 2 candidates.

In addition 28 gained Honours in Arts; 7 gained Honours in Science; 12 gained Senior Scholarships; 1 gained the John Tinline Scholarship; 222 passed sections of examinations for various degrees, exclusive of the above-mentioned graduates; 225 passed various examinations for admission to the legal profession; 329 passed various examinations in accountancy; 10 gained Junior University Scholarships; 20 gained Senior National Scholarships. Of the 1,236 candidates for Matriculation, Solicitors' General Knowledge, Medical and Engineering Preliminary, 515 were recorded as having passed—240 having qualified for Matriculation, Solicitors' General Knowledge, and Medical Registration; 147 having qualified for Matriculation and Solicitors' General Knowledge; 76 having qualified for Matriculation only; 13 having qualified for Matriculation, Engineering, and Medical Preliminary and Solicitors' General Knowledge; 25 having qualified for Matriculation and Engineering Preliminary; 3 having qualified for entrance to the Royal Military College of Australia; and 68 gained certificates of proficiency.

The number of graduates of the University admitted up to the 20th May, 1912, is as follows:—

Bachelors of Arts ... ..	582
Bachelors of Arts and Laws ... ..	37
Bachelors of Arts and Master of Laws ... ..	3
Bachelor of Arts and Doctor of Laws ... ..	1
Bachelors of Arts and Medicine... ..	1
Bachelors of Arts, Medicine, and Surgery ... ..	5
Bachelors of Arts and Science ... ..	14
Bachelors of Arts, Science, Medicine, and Surgery... ..	2
Bachelor of Arts and Master of Science ... ..	1
Bachelor of Arts and Doctor of Science ... ..	1
Bachelors of Science ... ..	43
Bachelors of Science, Medicine, and Surgery ... ..	6
Bachelor of Science and Surgery, and Doctor of Medicine ... ..	1
Bachelors of Science in Engineering ... ..	15
Bachelor of Science and Engineering ... ..	1
Bachelors of Engineering ... ..	24
Bachelors of Laws ... ..	128
Bachelor of Medicine ... ..	1
Bachelors of Dental Surgery ... ..	4
Bachelors of Medicine and Surgery ... ..	124
Bachelors of Music ... ..	7
Bachelors of Commerce ... ..	3
Masters of Arts ... ..	481
Masters of Arts and Bachelors of Science ... ..	39
Masters of Science ... ..	24
Masters of Science and Bachelors of Engineering ... ..	4
Masters of Arts and Bachelors of Laws ... ..	37
Masters of Arts and Laws ... ..	2
Masters of Arts and Science ... ..	27
Masters of Arts and Doctors of Science ... ..	5
Masters of Arts and Bachelors of Medicine and Surgery ... ..	2
Masters of Arts and Bachelors of Science, Medicine, and Surgery ... ..	2
Master of Arts and Bachelor of Commerce ... ..	1
Masters of Arts and Doctors of Laws ... ..	3
Masters of Laws ... ..	3
Doctors of Laws ... ..	4
Doctors of Medicine ... ..	16
Doctors of Science ... ..	5
Doctor of Literature ... ..	1
Doctor of Literature and Bachelor of Laws ... ..	1
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	1,661

The accounts of the University for the year 1912, duly audited, are appended to this report.

## ACCOUNTS AND BALANCE-SHEETS, YEAR ENDED THE 31ST DECEMBER, 1912.

### A. CLASSIFIED RECEIPTS.

		GENERAL ACCOUNT.		£	s.	d.
1. Statutory grant .. ..				3,000	0	0
2. Degrees Fees—						
B.A. degree .. ..			66	3	0	
B.Sc. degree .. ..			11	11	0	
B.E. degree .. ..			29	8	0	
LL.B. degree .. ..			147	0	0	
M.B. and Ch.B. degrees .. ..			201	12	0	
B.D.S. degree .. ..			14	14	0	
M.A. degree .. ..			160	13	0	
M.Sc. degree .. ..			18	18	0	
LL.M. degree .. ..			6	6	0	
M.D. degree .. ..			31	10	0	
D.Sc. degree .. ..			15	15	0	
B. Com. degree .. ..			1	1	0	
				704	11	0
Carried forward .. ..				£3,704	11	0

GENERAL ACCOUNT—*continued.*

	£	s.	d.	£	s.	d.
Brought forward .. .. .				3,704	11	0
<b>2. Examination Fees—</b>						
Honours—M.A., M.Sc., and L.L.M. .. .. .	90	5	0			
B.A. .. .. .	657	11	0			
B.Sc. .. .. .	79	16	0			
B.E. .. .. .	61	19	0			
B. Agric. .. .. .	15	15	0			
L.L.B. and L.P. .. .. .	1,186	8	0			
B. Com. and Acct. .. .. .	2,223	12	0			
M.B. and Ch.B. .. .. .	667	0	0			
B.D.S. .. .. .	45	3	0			
Mus. B. .. .. .	18	18	0			
Litt. D. .. .. .	2	13	0			
M.D. .. .. .	15	15	0			
Matriculation .. .. .	2,574	11	0			
Senior Scholarship .. .. .	54	12	0			
Entrance Scholarship .. .. .	162	10	0			
Certificate of Proficiency .. .. .	113	18	0			
Home Science .. .. .	11	11	0			
				7,981	17	0
<b>3. Admission <i>ad eundem</i> .. .. .</b>				18	18	0
<b>4. Certificates—</b>						
Ordinary .. .. .	1	10	0			
Law completed .. .. .	70	7	0			
Proficiency .. .. .	22	5	0			
				94	2	0
<b>5. Medical registration .. .. .</b>				92	8	0
<b>6. Scholarship matriculating .. .. .</b>				11	11	0
<b>7. Miscellaneous—</b>						
General .. .. .	119	10	9			
Refund of duplicate salary payment, English Agent .. .. .	65	0	0			
Account sales .. .. .	73	11	0			
				258	1	9
				£12,161	8	9

## ORDINARY SCHOLARSHIP ACCOUNT.

	£	s.	d.	£	s.	d.
Transfer from General Account .. .. .				1,500	0	0
Interest .. .. .	1,280	12	7			
Less arrears .. .. .	72	10	3			
				1,208	2	4
				£2,708	2	4

## JOHN TINLINE SCHOLARSHIP ACCOUNT.

	£	s.	d.
Interest .. .. .	36	0	0

## SENIOR NATIONAL SCHOLARSHIP ACCOUNT.

	£	s.	d.
Treasury grants .. .. .	3,826	15	6
Taranaki Scholarship .. .. .	180	12	0
	£4,007	7	6

## MACMILLAN-BROWN MEMORIAL PRIZE ACCOUNT.

	£	s.	d.
Interest .. .. .	4	8	0

## BOWEN PRIZE ACCOUNT.

	£	s.	d.
Interest .. .. .	5	5	7

## C. H. H. COOK PRIZE ACCOUNT.

	£	s.	d.
Interest .. .. .	2	11	4

## HABENS PRIZE ACCOUNT.

	£	s.	d.
Interest .. .. .	2	8	1

## SUMMARY OF RECEIPTS, 1912.

	£	s.	d.
General Account .. .. .	12,161	8	9
Ordinary Scholarship Account .. .. .	2,708	2	4
John Tinline Scholarship Account .. .. .	36	0	0
Senior National Scholarship Account .. .. .	4,007	7	6
Macmillan-Brown Memorial Prize Account .. .. .	4	8	0
Bowen Prize Account .. .. .	5	5	7
C. H. H. Cook Prize Account .. .. .	2	11	4
Habens Prize Account .. .. .	2	8	1
	£18,927	11	7

## B. CLASSIFIED PAYMENTS.

## GENERAL ACCOUNT.

		£	s.	d.			£	s.	d.
(a.)	Senate sessions—								
	Expenses of Conference .. ..	258	6	11					
	Expenses of sessions .. ..	499	0	0	(d.)	Examinations— <i>continued.</i>	3,112	3	1
	Expenses of elections .. ..	47	5	8		May—			
(b.)	Office expenses—					Supervision .. ..	18	8	3
	Salaries and wages .. ..	874	10	0		Examiners .. ..	49	1	6
	Clerical assistance .. ..	10	10	0		Printing .. ..	1	1	5
	Rent .. ..	149	13	3		July—			
	Petty Cash Account .. ..	23	1	10		Supervision .. ..	5	4	9
(c.)	Miscellaneous—					Examiners .. ..	113	6	6
	Conferring degrees .. ..	106	8	7		Printing .. ..	7	5	10
	Sundries—					November—			
	Postage .. ..	104	8	2		Supervision .. ..	980	16	6
	Refund of fees .. ..	83	8	0		Examiners .. ..	1,049	17	3
	Expenses of removal .. ..	17	2	1		Printing .. ..	493	13	4
	Office furniture .. ..	25	13	4		December—			
	Conservatorium of Music .. ..	26	7	6		Supervision .. ..	665	2	10
	Miscellaneous .. ..	52	15	0		Examiners .. ..	849	8	3
	Printing calendar .. ..	174	7	11		Printing .. ..	311	7	2
	Printing minutes .. ..	87	13	0		Special—			
	Diplomas .. ..	41	1	9		Examiners .. ..	1	10	6
	General printing and stationery .. ..	97	13	8		Supervision .. ..	5	0	0
(d.)	Examinations—				(e.)	English Agency—			
	January—					Agent's fees .. ..	175	0	0
	Supervision .. ..	5	4	0		Agent's expenses .. ..	167	15	8
	Examiners .. ..	210	4	8		Examiners' fees .. ..	1,266	2	0
	Printing .. ..	29	7	10	(f.)	Transfers to Ordinary Scholarship Account .. ..	1,500	0	0
	April—								
	Supervision .. ..	8	2	3					
	Examiners .. ..	164	14	2					
	Printing .. ..	15	3	6					
	Carried forward .. ..	£3,112	3	1					
							£10,772	4	10

## ORDINARY SCHOLARSHIP ACCOUNT.

		£	s.	d.
Scholarships—				
Junior .. ..		1,173	13	3
Senior .. ..		721	16	0
Medical .. ..		150	7	8
Engineering .. ..		50	2	0
Haydon Prize .. ..		2	0	6
Miscellaneous .. ..		1	0	0
		<u>£2,098</u>	<u>19</u>	<u>5</u>

## JOHN TINLINE SCHOLARSHIP ACCOUNT.

		£	s.	d.
Scholarship .. ..		60	0	0
Commission .. ..		0	14	0
		<u>£60</u>	<u>14</u>	<u>0</u>

## SENIOR NATIONAL SCHOLARSHIP ACCOUNT.

		£	s.	d.
Senior National Scholarships .. ..		2,289	14	0
Fees .. ..		1,538	6	0
Taranaki Scholarships .. ..		180	12	0
		<u>£4,008</u>	<u>12</u>	<u>0</u>

## MACMILLAN-BROWN MEMORIAL PRIZE ACCOUNT.

		£	s.	d.
Prize .. ..		9	9	6

## BOWEN PRIZE ACCOUNT.

		£	s.	d.
Prize .. ..		10	0	0

## C. H. H. COOK PRIZE ACCOUNT.

Nil.

## HABENS PRIZE ACCOUNT.

Nil.

## SUMMARY OF PAYMENTS, 1912.

	£	s.	d.
General Account .. .. .	10,772	4	10
Ordinary Scholarship Account .. .. .	2,098	19	5
John Tinline Scholarship Account .. .. .	60	14	0
Senior National Scholarship Account .. .. .	4,008	12	0
Macmillan-Brown Memorial Prize Account .. .. .	9	9	6
Bowen Prize Account .. .. .	10	0	0
C. H. H. Cook Prize Account .. .. .	Nil		
Habens Prize Account .. .. .	Nil		
	<u>£16,959</u>	<u>19</u>	<u>9</u>

## BALANCE-SHEET.—GENERAL ACCOUNT.

Dr.	£	s.	d.	Cr.	£	s.	d.
Balance from 1911 (including petty cash and stamps) .. .. .	4,287	4	7	Payments, 1912—			
Receipts of 1912—				Senate sessions .. .. .	804	12	7
Statutory grant .. .. .	3,000	0	0	Office and rent .. .. .	1,057	15	1
Degree fees .. .. .	704	11	0	Conferring degrees .. .. .	106	8	7
Examination fees .. .. .	7,981	17	0	Sundries .. .. .	309	14	1
<i>Ad eundem</i> .. .. .	18	18	0	Printing .. .. .	400	16	4
Certificates .. .. .	94	2	0	Cost of examinations .. .. .	4,984	0	6
Medical registration .. .. .	92	8	0	English agency .. .. .	1,608	17	8
Scholarship matriculating .. .. .	11	11	0	Transfers to Scholarship Account .. .. .	1,500	0	0
Miscellaneous .. .. .	258	1	9	Balance in bank .. .. .	3,742	5	8
	<u>£16,448</u>	<u>13</u>	<u>4</u>	Less unrepresented cheques .. .. .	46	9	6
					3,695	16	2
				Plus Imprest English agent .. .. .	1,970	12	4
				Petty cash .. .. .	10	0	0
					<u>£16,448</u>	<u>13</u>	<u>4</u>

## BALANCE-SHEET.—ORDINARY SCHOLARSHIP ACCOUNT (INCLUDING INVESTMENTS).

Dr.	£	s.	d.	Cr.	£	s.	d.
Balance from 1911 .. .. .	25,439	18	7	Payments, 1912—			
Receipts of 1912—				Scholarships .. .. .	2,095	18	11
Transfer from General Account .. .. .	1,500	0	0	Commission .. .. .	1	0	0
Interest .. .. .	1,208	2	4	Haydon Prize .. .. .	2	0	6
	<u>£28,148</u>	<u>0</u>	<u>11</u>	Balance—			
				Cash in bank .. .. .	1,199	1	6
				Loans on mortgage—			
				At 6 per cent. .. .. .	2,200	0	0
				At 5½ per cent. .. .. .	3,950	0	0
				At 5 per cent. .. .. .	7,700	0	0
				At 4½ per cent. .. .. .	10,000	0	0
				Fixed deposits at 4 per cent. .. .. .	1,000	0	0
					<u>£28,148</u>	<u>0</u>	<u>11</u>

## BALANCE-SHEET.—SENIOR NATIONAL SCHOLARSHIP ACCOUNT.

Dr.	£	s.	d.	Cr.	£	s.	d.
Balance from 1911 .. .. .	33	18	3	Payments, 1912—			
Receipts of 1912—				Senior National scholarships .. .. .	2,289	14	0
Treasury grants .. .. .	3,826	15	6	Taranaki Scholarships .. .. .	180	12	0
Taranaki Scholarships .. .. .	180	12	0	Fees .. .. .	1,538	6	0
	<u>£4,041</u>	<u>5</u>	<u>9</u>	Balance in bank .. .. .	32	13	9
					<u>£4,041</u>	<u>5</u>	<u>9</u>

## BALANCE-SHEET.—JOHN TINLINE SCHOLARSHIP ACCOUNT.

Dr.	£	s.	d.	Cr.	£	s.	d.
Balance from 1911 .. .. .	1,715	1	0	Payments, 1912—			
Receipts of 1912—Interest .. .. .	36	0	0	Scholarship .. .. .	60	0	0
	<u>£1,751</u>	<u>1</u>	<u>0</u>	Commission .. .. .	0	14	0
				Balance—			
				Fixed deposit at 4 per cent. .. .. .	150	0	0
				Deposit at call at 3 per cent. .. .. .	300	0	0
				Loan on mortgage at 5 per cent. .. .. .	1,200	0	0
				Cash in bank .. .. .	40	7	0
					<u>£1,751</u>	<u>1</u>	<u>0</u>

## BALANCE-SHEET.—BOWEN PRIZE ACCOUNT.

Dr.	£	s.	d.	Cr.	£	s.	d.
Balance from 1911 .. .. .	135	18	11	Prize .. .. .	10	0	0
Receipts of 1912—Interest .. .. .	5	5	7	Balance—			
	<u>£141</u>	<u>4</u>	<u>6</u>	Fixed deposit at 4 per cent. .. .. .	120	0	0
				Cash in Post Office Savings-bank .. .. .	11	4	6
					<u>£141</u>	<u>4</u>	<u>6</u>

## BALANCE-SHEET.—MACMILLAN-BROWN MEMORIAL PRIZE ACCOUNT.

DR.	£	s.	d.	CR.	£	s.	d.
Balance from 1911 .. .. .	119	1	6	Prize .. .. .	9	9	6
Receipts of 1912—Interest .. .. .	4	8	0	Balance—			
				Fixed deposit at 4 per cent. .. .. .	110	0	0
				Cash in Post Office Savings-bank .. .. .	4	0	0
	<u>£123</u>	<u>9</u>	<u>6</u>		<u>£123</u>	<u>9</u>	<u>6</u>

## BALANCE-SHEET.—C. H. H. COOK PRIZE ACCOUNT.

DR.	£	s.	d.	CR.	£	s.	d.
Balance from 1911 .. .. .	110	0	0	Amount in Post Office Savings-bank .. .. .	112	11	4
Interest, 1912.. .. .	2	11	4				
	<u>£112</u>	<u>11</u>	<u>4</u>		<u>£112</u>	<u>11</u>	<u>4</u>

## BALANCE-SHEET.—HABENS PRIZE ACCOUNT.

DR.	£	s.	d.	CR.	£	s.	d.
Balance from 1911 .. .. .	103	10	0	Amount in Post Office Savings-bank .. .. .	105	18	1
Interest, 1912.. .. .	2	8	1				
	<u>£105</u>	<u>18</u>	<u>1</u>		<u>£105</u>	<u>18</u>	<u>1</u>

## THE ENGLISH AGENT IN ACCOUNT WITH THE UNIVERSITY.

DR.	£	s.	d.	CR.	£	s.	d.
Balance from 1911 .. .. .	1,752	1	0	Payments, 1912—			
Imprest .. .. .	1,750	0	0	Agent's fees .. .. .	175	0	0
Refund of salary paid twice .. .. .	65	0	0	Agent's expenses .. .. .	167	15	8
Refund of sundry payments .. .. .	12	9	0	Examiners' fees (1911) .. .. .	1,266	2	0
				Balance in hands of agent .. .. .	1,970	12	4
	<u>£3,579</u>	<u>10</u>	<u>0</u>		<u>£3,579</u>	<u>10</u>	<u>0</u>

## BALANCE-SHEET ON ALL ACCOUNTS.

DR.	£	s.	d.	£	s.	d.	CR.	£	s.	d.
Balance from 1911 .. .. .	30,193	13	4				Payments, 1912—			
Plus imprest .. .. .	1,752	1	0				General Account .. .. .	10,772	4	10
	<u>31,945</u>	<u>14</u>	<u>4</u>				Ordinary Scholarship Account .. .. .	2,098	19	5
Less debit balance—							John Tinline Scholarship Account .. .. .	60	14	0
Stamp Account .. .. .	1	1	6				Senior National Scholarship Account .. .. .	4,008	12	0
							Macmillan-Brown Prize Account .. .. .	9	9	6
							Bowen Prize Account .. .. .	10	0	0
Receipts—							Balances—			
General Account .. .. .	12,161	8	9				General Account .. .. .	3,705	16	2
Ordinary Scholarship Account .. .. .	2,708	2	4				Ordinary Scholarship Account .. .. .	1,199	1	6
John Tinline Scholarship Account .. .. .	36	0	0				Senior National Scholarship Account .. .. .	32	13	9
Senior National Scholarship Account .. .. .	4,007	7	6				John Tinline Scholarship Account .. .. .	40	7	0
Macmillan-Brown Memorial Prize Account .. .. .	4	8	0				Cook Prize Account .. .. .	112	11	4
Bowen Prize Account .. .. .	5	5	7				Bowen Prize Account .. .. .	11	4	6
C. H. H. Cook Prize Account .. .. .	2	11	4				Habens Prize Account .. .. .	105	18	1
Habens Prize Account .. .. .	2	8	1				Macmillan-Brown Prize Account .. .. .	4	0	0
							Imprest, English Agency .. .. .	1,970	12	4
							Investments .. .. .	26,730	0	0
	<u>£50,872</u>	<u>4</u>	<u>5</u>					<u>£50,872</u>	<u>4</u>	<u>5</u>

## LIST OF INVESTMENTS.

Ordinary Scholarship Account—	£	s.	d.
Loans on mortgage—			
At 4½ per cent. .. .. .	2,000	0	0
At 5 per cent. .. .. .	8,000	0	0
At 5½ per cent. .. .. .	2,000	0	0
At 6 per cent. .. .. .	2,200	0	0
Fixed deposit at 4 per cent. .. .. .	2,300	0	0
John Tinline Scholarship Account—	1,200	0	0
Loan on mortgage at 5 per cent. .. .. .	1,100	0	0
Fixed deposit at 4 per cent. .. .. .	750	0	0
Deposit at call at 3 per cent. .. .. .	2,100	0	0
Macmillan-Brown Memorial Prize Account—	1,200	0	0
Fixed deposit at 4 per cent. .. .. .	1,000	0	0
Bowen Prize Account—	1,000	0	0
Fixed deposit at 4 per cent. .. .. .	120	0	0
	<u>£26,730</u>	<u>0</u>	<u>0</u>

B. HECTOR, Registrar.

Examined and found correct.—ROBERT J. COLLINS, Controller and Auditor-General.

## B. REPORT OF THE AUCKLAND UNIVERSITY COLLEGE, 1912.

*Visitor.*—The Hon. the Minister of Education.

*Members of Council.*

Appointed by His Excellency the Governor in Council—Hon. Sir G. M. O'Rorke, M.A., LL.D., M.L.C.; Rev. J. H. Simmonds; G. L. Peacocke, Esq.  
 Elected by members of the Legislature—Hon. J. A. Tole, B.A., LL.B., K.C.; Rev. W. Beatty, M.A.; T. W. Leys, Esq.  
 Elected by graduates—H. D. Bamford, Esq., B.A., LL.D.; W. C. W. McDowell, Esq., B.A., M.D., C.M.; T. U. Wells, Esq., M.A.  
*Ex officio*—C. J. Parr, Esq., Mayor of Auckland; G. J. Garland, Esq., Chairman of the Education Board.

*Staff.*

*Professors.*—Classics—H. S. Dettmann, M.A., B.C.L. English—C. W. Egerton, M.A. Modern Languages—M. Walker, M.A., B.Com. Mathematics—H. W. Segar, M.A. Chemistry and Experimental Physics—F. D. Brown, Hon. M.A., B.Sc., F.C.S. Biology and Geology—A. P. W. Thomas, M.A., F.L.S., F.G.S. Music—W. E. Thomas, Mus. Doc. Mining Engineering—(vacant).  
*Lecturers.*—Law—D. C. Chalmers, LL.M. Mental Science, Economics, History, and Economic Geography—J. P. Grossmann, M.A. Professional Accountancy Subjects—Vacant. Education—H. A. E. Milnes, B.Sc. Applied Mechanics, Steam Engine, Machine Construction and Drawing—S. E. Lamb, B.Sc., A.R.C.Sc., A.M.I.M.E. Electrical Engineering, &c.—W. Wilson, B.E., B.Sc. Surveying, &c.—S. Cory-Wright, B.Sc. Professional Accountancy Subjects—W. H. Henningway, F.P.A.N.Z., F.N.Z.A.A.  
*Demonstrators.*—Biology and Geology—E. de C. Clarke, M.A. Physics—H. H. Morgan, B.Sc., A.R.C.Sc., F.C.S.  
*Assistants.*—English—P. S. Arden, M.A. Chemistry—A. H. Bowell. Biology and Geology—C. R. Maodonald.  
*Registrar.*—Rev. Chas. M. Nelson, M.A.

### The CHAIRMAN OF THE BOARD OF GOVERNORS to the MINISTER OF EDUCATION.

SIR,—

Auckland University College, 23rd May, 1913.

In pursuance of section 25 of the Auckland University College Act, 1882, the Council has the honour to make the following report for the year 1912:—

1. *Number of Students.*—The number of persons who attended lectures in this College in 1912 was 692: Graduates, 19 (males, 16; females, 3); undergraduates, 300 (males, 216; females 84); non-matriculated students, 373 (males, 237; females, 136). The number of students who were exempted from attendance was 22 (males, 20; females, 2).

2. *Council.*—Rev. J. H. Simmonds was reappointed by the Governor in Council; Hon. J. A. Tole, K.C., LL.B., was re-elected unopposed by the members of the General Assembly (Auckland); and H. Dean Bamford Esq., B.A., LL.D., was re-elected, also unopposed, by the graduates of the University of New Zealand on the roll of the University College. There was no change in the *ex officio* members. In terms of the Auckland University College Amendment Act, 1912, a new Council, differently constituted, will assume the management as from the 1st July, 1913.

3. *Staff.*—The staff was increased in 1912 by the appointment of Mr. S. Cory-Wright, B.Sc., as lecturer in surveying, hydraulics, and principles of civil engineering and structural design.

4. *Receipts and Expenditure.*—General Account: Receipts, including balance of £6,175 2s. 11d. from 1911, £15,327 11s. 6d.; expenditure, £12,220 16s.; balance, £3,106 15s. 6d. Specialization Account: Receipts, £3,031 5s. 2d.; expenditure, including debit balance from 1911 of £727 0s. 7d., £2,778 16s. 0d.; debit balance, £474 11s. 5d. Endowments: The income from the endowments was £488 15s. 2d. and the expenditure was £89 17s., leaving a net revenue of £398 18s. 2d. The large expenditure is explained by a reference to the statement of accounts.

5. *Degrees and Honours.*—The degrees and honours gained at last November examinations were as follows: Honours in Arts, 4; Honours in Science, 1; Masters of Arts, 5; Master of Science, 1; Bachelors of Arts (final section), 17; Bachelors of Science (final section), 3; Bachelor of Laws (final section), 1; Bachelors of Arts (first section), 23; Bachelors of Science (first section), 5; Bachelors of Laws (sections), 26; Bachelor of Agriculture (section), 1; Senior Scholarships, 2; Cook Memorial Prize, 1. The honours lists comprised—second class in Latin and French, 1; second class in chemistry, 1; second class in political science, 1; third class in Latin and English, 1; third class in Latin and French, 1.

6. The various Schools of Music, Commerce, and Mining were attended during the year by the following number of students, viz: School of Music, 178 students; School of Commerce, 170 students; School of Mines, 35 students.

7. The need of better accommodation for the ever-increasing number of students is seriously oppressing the institution. I care not to recapitulate what I said in my last report; but I still rely upon the Government and Parliament of New Zealand devising some means for procuring a suitable site for new buildings, and the necessary money for the erection of a new University College worthy of the rapidly growing City of Auckland, which building must, in my opinion, be within the city boundaries during the present century. Personally, I would prefer the Home university system of having all lectures delivered in the forenoon; but the adoption of that system in Auckland would be a death-blow to university education here. I commend this subject of new university buildings to the earnest consideration of the Government and Parliament. Bear in mind that our present site is but one acre, only one-half of which is level ground; and that the present buildings were erected in 1853 for the meeting of the General Assembly, now sixty years ago.

I have, &c.,

G. MAURICE O'RORKE, M.A. LL.D. Kt., Chairman.



STATEMENT of the RECEIPTS and EXPENDITURE of the AUCKLAND UNIVERSITY COLLEGE for the  
Year ended 31st December, 1912.

I. GENERAL ACCOUNT.

<i>Receipts.</i>	£	s.	d.	<i>Expenditure.</i>	£	s.	d.
Balance, 1st January, 1912 ..	6,175	2	11	Choral Hall (balance of purchase-money)	3,500	0	0
From Government—				Salaries .. .. .	5,034	5	0
Statutory grant .. .. .	4,000	0	0	Office expenses .. .. .	22	19	5
Additional grant .. .. .	1,200	0	0	Stationery .. .. .	24	6	4
Sir George Grey Scholarship .. .. .	50	0	0	Printing .. .. .	103	2	8
Donation—				Advertising .. .. .	37	17	9
H. Brett, Esq., toward providing new buildings .. .. .	500	0	0	Cleaning, lighting, and warming .. .. .	136	14	10
Endowments—				Insurance .. .. .	40	0	3
Rents collected by Land Board .. .. .	156	1	5	Commission .. .. .	1	0	6
Rents collected by Registrar .. .. .	222	13	9	Furniture and fittings .. .. .	48	19	7
Taupiri rent .. .. .	110	0	0	Repairs .. .. .	49	1	3
Hall receipts (Choral Hall) .. .. .	72	5	6	Water rates .. .. .	17	11	6
Music examinations .. .. .	125	11	6	Lecture requisites (Professor Brown) .. .. .	156	18	1
Annual examinations .. .. .	5	5	0	" (Professor A. P. W. Thomas) .. .. .	19	17	8
Sale of calendars, &c. .. .. .	5	10	10	" (General) .. .. .	5	2	9
Miscellaneous .. .. .	14	16	4	Library .. .. .	98	0	2
Interest—				Premiums .. .. .	38	8	1
Debentures .. .. .	16	0	0	Music examination expenses .. .. .	89	14	6
Mortgage (Grey Street) .. .. .	47	16	3	Annual examination expenses .. .. .	9	16	8
Mortgage (Great South Road) .. .. .	23	7	7	Endowment expenses (refund of purchase-money for sale of land by Land Department, for which there was no authority of law) .. .. .	89	17	0
Auckland Savings-bank .. .. .	1	0	0	School of Music .. .. .	7	14	6
Post Office Savings-bank .. .. .	4	4	5	Legal expenses .. .. .	7	19	6
Students' fees .. .. .	2,597	16	0	Audit expenses .. .. .	6	0	0
				Miscellaneous .. .. .	27	12	5
				Sir George Grey Scholarship .. .. .	50	0	0
				Professors and lecturers (students' fees)	2,597	16	0
				Balance, 31st December, 1912—			
				Debentures .. .. .	£400	0	0
				Mortgage (Grey Street) .. .. .	750	0	0
				(Great South Road) .. .. .	650	0	0
				Bank of New Zealand—			
				Current account .. .. .	1,306	15	6
					3,106	15	6
	<u>£15,327</u>	<u>11</u>	<u>6</u>		<u>£15,327</u>	<u>11</u>	<u>6</u>

II. SEPARATE ACCOUNTS.

1. Specialization Account, School of Commerce and School of Mines.

<i>Receipts.</i>	£	s.	d.	<i>Expenditure.</i>	£	s.	d.
From Government—				Balance, 1st January, 1912 .. .. .	727	0	7
Grant .. .. .	2,000	0	0	Salaries .. .. .	1,770	16	8
Material and apparatus .. .. .	166	2	11	Office expenses .. .. .	14	9	0
Capitation (College classes) .. .. .	46	9	9	Stationery .. .. .	8	12	3
Subsidy (New Zealand Society of Accountants) .. .. .	150	0	0	Printing .. .. .	45	0	10
Scholarship (Chamber of Commerce, Auckland) .. .. .	10	0	0	Advertising .. .. .	34	12	1
Miscellaneous .. .. .	0	12	6	Cleaning, lighting, and warming .. .. .	26	15	10
Students' fees .. .. .	658	0	0	Insurance .. .. .	8	3	9
Balance, 31st December, 1912 .. .. .	474	11	5	Furniture and fittings .. .. .	2	7	5
				Repairs .. .. .	3	0	1
				Water-rates .. .. .	4	0	0
				Lecture requisites (Mr. Lamb) .. .. .	1	3	1
				" (Mr. Wilson) .. .. .	151	5	1
				" (Mr. Cory-Wright) .. .. .	0	14	2
				" (Mr. Grossmann) .. .. .	1	1	0
				Library .. .. .	17	17	7
				Commission and interest .. .. .	1	5	0
				Scholarships .. .. .	27	10	0
				Miscellaneous .. .. .	2	2	2
				Professors and lecturers (students' fees)	658	0	0
	<u>£3,505</u>	<u>16</u>	<u>7</u>		<u>£3,505</u>	<u>16</u>	<u>7</u>

2. Sinclair-Gillies Trust Account.

<i>Receipts.</i>	£	s.	d.	<i>Expenditure.</i>	£	s.	d.
Balance, 1st January, 1912 .. .. .	3,806	5	10	Scholarships .. .. .	140	0	0
Interest on £3,000 on mortgage at 5 per cent. .. .. .	150	0	0	Advertising .. .. .	11	8	9
Interest—				Examination Expenses .. .. .	0	17	6
Post Office Savings-bank for 15 months payable 31st March, 1913 .. .. .	19	4	0	Balance, 31st December, 1912—			
				Post Office Savings-bank .. .. .	610	2	7
				Auckland Savings-bank .. .. .	213	1	0
				On mortgage .. .. .	3,000	0	0
	<u>£3,975</u>	<u>9</u>	<u>10</u>		<u>£3,975</u>	<u>9</u>	<u>10</u>

3. J. L. Sinclair (Bequest).

<i>Receipts.</i>	£	s.	d.	<i>Expenditure.</i>	£	s.	d.
Balance, 1st January, 1912 .. .. .	27	10	1	Balance, 31st December, 1911—			
				In Auckland Savings-bank .. .. .	27	10	1
	<u>£27</u>	<u>10</u>	<u>1</u>		<u>£27</u>	<u>10</u>	<u>1</u>

Examined and found correct.—R. J. COLLINS, Controller and Auditor-General.

## ACCOUNTS AND BALANCE-SHEET.—STATEMENT OF BALANCES AT 31ST DECEMBER, 1912.

				<i>Accounts.</i>						
<i>Cr.</i>				£	s.	d.	£	s.	d.	
College Account ..	..	..	..	..	3,106	15	6			
Sinclair-Gillies Account ..	..	..	..	..	3,823	3	7			
Sinclair Bequest ..	..	..	..	..	27	10	1			
					<hr/>			6,957	9	2
<i>Dr.</i>								£	s.	d.
Specialization Account ..	..	..	..	..	..	..	..	474	11	5
					<hr/>			£6,482	17	9
								<hr/>		
<i>Banks and Investments.</i>										
				£	s.	d.				
Bank of New Zealand ..	..	..	..	..	832	4	1			
Auckland Savings bank ..	..	..	..	..	240	11	1			
Post Office Savings-bank ..	..	..	..	..	610	2	7			
Mortgages (freehold) ..	..	..	..	..	4,400	0	0			
Debentures (Auckland City Council) ..	..	..	..	..	400	0	0			
					<hr/>			£6,482	17	9
								<hr/>		
<i>Liabilities.</i>										
				£	s.	d.				
Specialization Account (overdraft) ..	..	..	..	..	474	11	5			
					<hr/>					

CHAS. M. NELSON, M.A., Registrar.

## C. REPORT OF THE VICTORIA COLLEGE, 1912.

(The Victoria College Act, 1897.)

*Visitor.*—The Hon. the Minister of Education.*Members of Council.*

Appointed by His Excellency the Governor in Council—A. W. Hogg, Esq.; A. R. Atkinson, Esq.; R. McNab, Esq., LL.B.  
 Elected by members of the Legislature—C. P. Knight, Esq.; C. Wilson, Esq.; W. Ferguson, Esq., C.E.  
 Elected by members of Education Boards—A. T. Maginnity, Esq.; R. McCallum, Esq., M.P.; Sir Robert Stout, K.C.M.G., C.J.  
 Elected by graduates—J. G. W. Aitken, Esq.; C. B. Morison, Esq., K.C.; H. H. Ostler, Esq., LL.B.  
 Elected by public-school teachers—T. R. Fleming, Esq., M.A., LL.B.; Rev. W. A. Evans; C. Watson, Esq., B.A.  
 Elected by the Professorial Board—Hon. A. L. Herdman, M.P.

*Staff.*

*Professors.*—Classics—J. Rankine Brown, M.A. English Language and Literature—H. Mackenzie, M.A. Modern Languages—G. W. von Zedlitz, M.A. Chemistry—T. H. Easterfield, M.A., Ph.D. Mathematics and Mathematical Physics—D. K. Picken, M.A. Biology—H. B. Kirk, M.A. Physics—T. H. Laby, B.A. Law—J. Adamson, M.A., LL.B., Dean of the Faculty; J. M. E. Garrow, B.A., LL.B. (English and New Zealand Law) Mental Science—T. A. Hunter, M.A., M.Sc.  
*Lecturers.*—Education—J. S. Tennant, M.A., B.Sc. Economics, History, and Geography—F. P. Wilson, M.A. Geology—C. A. Cotton, M.Sc. Commercial Law—W. F. Ward, M.A., LL.B. Accountancy—J. S. Barton, F.R.A. (N.Z.), F.I.A.N.Z.  
*Assistants.*—English, Miss I. E. S. Watson, M.A.; Latin, W. F. Ward, M.A., LL.B.; Modern Languages, Mrs. Macphail; Mathematics, Miss A. W. Teychenné, M.A.  
*Demonstrators.*—Biology, Miss H. M. Jenkins, M.A. Chemistry—J. C. McDowall. Physics—W. A. Stewart. Assistant in Biology—B. H. Low, B.A., B.Sc.

*Registrar.*—C. P. Powles, F.P.A. (N.Z.), F.I.A.N.Z.

## The VICTORIA COLLEGE COUNCIL to the MINISTER OF EDUCATION.

Victoria College, Registrar's Office, 2nd June, 1913.

IN pursuance of section 44 of the Victoria College Act, 1905, the Council presents the following report for the year 1912:—

*Number of Students.*—The number of students attending lectures during the year 1912 was 547. Matriculated students—Males, 268; females, 138: total, 406. Non-matriculated students—Males, 114; females, 27: total, 141. In addition to these, there were 66 exempted students, making a total of 613 students attached to the College.



## STATEMENT of ASSETS and LIABILITIES (Monetary) at 31st March, 1913.

		GENERAL ACCOUNT.						
<i>Liabilities.</i>		£	s.	d.	<i>Assets.</i>	£	s.	d.
Sundry accounts .. .. .	..	167	11	3	Balance at bank .. .. .	713	1	11
Unpresented cheques .. .. .	..	57	3	8	Cash in hand .. .. .	75	2	6
Library deposits .. .. .	..	24	3	0	On deposit .. .. .	500	0	0
Fees received for 1913-14 .. .. .	..	167	18	9	In hand for biological observing-station .. .. .	9	10	6
					Grant for buildings .. .. .	500	0	0
					Subsidy, donation physics apparatus .. .. .	60	0	0
		<u>£416</u>	<u>16</u>	<u>8</u>		<u>£1,857</u>	<u>14</u>	<u>11</u>

		JACOB JOSEPH SCHOLARSHIP FUND.						
<i>Liabilities.</i>		£	s.	d.	<i>Assets.</i>	£	s.	d.
Scholarships .. .. .	..	60	0	0	Balance at bank .. .. .	263	15	0
					Deposits .. .. .	90	0	0
					Invested in debentures .. .. .	3,000	0	0
		<u>£60</u>	<u>0</u>	<u>0</u>		<u>£3,353</u>	<u>15</u>	<u>0</u>

		UNION PRIZE FUND.						
<i>Liabilities.</i>				<i>Assets.</i>		£	s.	d.
Nil.				Balance at bank .. .. .	..	2	10	4
				Invested in debentures .. .. .	..	100	0	0
						<u>£102</u>	<u>10</u>	<u>4</u>

C. P. POWLES, Registrar.

## D. REPORT OF THE CANTERBURY COLLEGE, 1912.

(The Canterbury College and Canterbury Agricultural College Act, 1896.)

*Visitor.*—The Minister of Education.*Board of Governors* (J. C. Adams, B.A., Chairman).

Appointed by His Excellency the Governor—The Right Rev. John Joseph Grimes, D.D.; the Right Rev. Churchill Julius, D.D.; and Thomas William Adams, Esq.

Elected by members of the Legislature—George Rennie, Esq.; Thomas Henry Davey, Esq., M.P.; and John Lee Scott, Esq.

Elected by graduates—Very Rev. Dean Harper, M.A.; William Brock, Esq., M.A.; William Hugh Montgomery, Esq., B.A.; S. Hurst-Seager, Esq., F.R.I.B.A.; Dr. George Mackenzie Lester, M.R.C.S., M.R.C.T., M.A.; and George Thorngate Weston, Esq., B.A., LL.B.

Elected by public-school teachers—Thomas Hughes, Esq., B.A.; Jonathan Charles Adams, Esq., B.A.; and Lawrence Berry Wood, Esq., M.A.

Elected by School Committees—Charles Henry Adolphus Truscott Opie, Esq.; Henry Dyke Acland, Esq.; and Matthew Dalziel, Esq.

Elected by Professorial Board—William Izard, Esq., M.A., LL.M.

*Registrar*—George H. Mason.

*Professors.*—Classics—H. Stewart, M.A. Mathematics and Natural Philosophy—J. P. Gabbatt, M.A., M.Sc. English Language and Literature—Arnold Wall, M.A. French and German—T. G. R. Blunt, M.A. Chemistry—W. P. Evans, M.A., Ph.D., M.S.C.I. Engineering—Robert J. Scott, M.I.C.E., M.I.M.E., M.A.I.E.E. Biology—Charles Chilton, M.A., D.Sc., M.B., C.M., F.L.S. History, and Economics and Director of Studies in Commerce—James Hight, M.A., Litt. D., F.R.E.S. Physics—C. C. Farr, D.Sc., A.M.I.C.E.

*Lecturers.*—Jurisprudence and Law—T. A. Murphy, M.A., LL.B. Accounting and Accountancy—J. Morrison, F.I.A.N.Z. Mental Science—C. F. Salmond, M.A. Geology, Palaeontology, and Physical Geography—Robert Speight, M.A., M.Sc., F.G.S. Music—J. C. Bradshaw, Mus. Doc., F.R.C.O., L.R.A.M., A.R.C.M. Education—T. S. Foster, M.A. N.Z.

*School of Engineering and Technical Science.*—Professor in Charge—Robert J. Scott, M.I.C.E., M.I.M.E., M.A.I.M.E.

## ANNUAL STATEMENT OF THE CHAIRMAN OF THE BOARD OF GOVERNORS.

At the meeting of the Board of Governors of Canterbury College, held on Monday, the 26th May, 1913, the Chairman (Mr. J. C. Adams, B.A.) laid on the table the accounts of the Board for the year 1912, duly certified by the Auditor-General, and in doing so delivered the following address:—

I beg to lay before you the fortieth annual report of the Chairman of the Board. Briefly I have dealt with the finance, but the tables at the end will give those who wish to study the matter more closely a full opportunity of so doing. In view, however, of the large appropriations that have been made for building purposes, it will be necessary for us for some years to examine very closely all proposals for non-recurrent expenditure.

## FINANCE.

The annual statement of receipts and expenditure for the year ended 31st December, 1912, shows that the total receipts for that period amounted to £33,606, as compared with £32,419 for the previous year, showing an increase of £1,187, but this includes an amount of £1,250 derived from the sale of several town sections in Timaru. The rents from endowments showed an increase of £949, while the grants and subsidies received from the Government showed a falling-off of £1,053 as compared with those of 1911. The total expenditure for the year reached £32,005, the expenditure for the previous year being £29,262, showing an increase of £2,743. Of this sum £1,486 was expended in purchasing additional farm land in South Canterbury to increase the endowment of the Boys' High School. The amount expended in salaries was increased by £781 as compared with the expenditure during the preceding year, while the cost of maintenance and improvement of endowments exceeded that of 1911 by £473.

*College.*—The College Maintenance Account shows a working-profit for the year of £1,797, after contributing £569 towards the extinction of the debt on the College buildings, but this includes a sum of £1,250 transferred from the Classical School Capital Account. The rents received from the endowments for the year exceeded those of the previous year by £1,609. Students' fees also show a slight increase, while the sum of £200 was received last year, for the first time, as contribution and subsidy towards cost of the course in accountancy.

*School of Engineering.*—A loss of £327 was sustained on the year's working of this account, the grants from Government showing a falling-off of £587 as compared with the preceding year. Salaries were increased by £100, while £135 less was expended on apparatus than in 1911.

*Boys' High School.*—This account shows a loss of £1,506 on the year's working, but of this amount £1,486 was expended in the purchase of farm land adjoining Reserve 1201 at Otupua, while the sum of £1,000 was contributed towards the extinction of the debt on the school buildings. The rents from reserves was increased by £343 as compared with the previous year's rents, but the school fees and capitation returned £104 less than in 1911.

*Girls' High School.*—The result of the year's working shows a profit of £599, thus reducing the overdraft at 31st December to £22. Extensive additions to the buildings are now being made which will probably increase the debit balance to about £4,000 by the end of the current year. The receipts from school fees and capitation amounted to £2,991, as compared with £2,874 for 1911.

*School of Art.*—The position of this account is about the same as in December, 1911. The students' fees show an increase of £31, but the capitation received from the Government was £508 less than in the previous year. The contribution from the Technical School Endowment was increased by £100. The total expenditure for the year exceeded that of 1911 by £220.

*Museum.*—The finances of the Museum are in anything but an encouraging condition, the overdraft being increased during the past year by £95, in spite of an additional vote of £100 from the Endowment Fund. The ravages of the wood-borer in the building were responsible for an expenditure of £172, and there is little doubt that a still further expenditure on repairs, from the same cause, will be absolutely necessary.

*Public Library.*—The loss on the year's working of this account amounted to £30, bringing the overdraft up to £1,086 at the end of the year. The receipts from the circulating department show a falling-off of £49 as compared with 1911, but the revenue from the Gammack Estate was increased by £25. The expenditure on books, magazines, &c., for the circulating department was still reduced, the amount being £61 less than was expended in the previous year. The amount expended on books and binding for the reference department exceeded the total for 1911 by £40. The Board's share of the cost in connexion with the declaratory judgment at the Supreme Court amounted to £109.

## COLLEGE.

With regard to matters connected with what I may term the College itself, there are one or two matters that deserve more than a passing notice. Two years ago I drew attention to the fact that increased accommodation in the way of buildings was urgently required, and this has been emphasized in the report presented to Parliament by the Inspector-General. One addition is at present being carried out—viz., that to the School of Engineering. A change in the period required for preparation for the degree having been made by the Senate of the University, the period being shortened by one year rendered it necessary that more room should be at the disposal of both teachers and students. A contract has been let which will enable the work to be carried on with greater advantage, and will enable the school, highly efficient though it has been in the past, to attain to still higher work in the future. Another addition—a College library—for years urgently needed, but always put on one side owing to want of funds, seems now to be within measurable distance of accomplishment. The raising of the necessary funds for the building itself has been taken in hand by the Professorial Board, and though the campaign of collecting money has only just commenced, so far the response has been very encouraging. When those who have derived such great benefits from the University course at their old College, the public in the city, and the many wealthy residents in the province read the appeal that is being made to them, and realize the boon that will be conferred on future generations of students by means of a properly equipped College library, I feel sure that sufficient funds will be forthcoming not only to erect the building, but to help in increasing the number of reference books that must be placed therein.

At present a committee is considering a plan for the best situation of all the buildings that are necessary to complete the quadrangle, so that, as each new addition is determined on, not only will its site have been previously fixed, but there will be the added assurance that the buildings will be in complete harmony with their surroundings. Hitherto it has been a case of "Sufficient for the day is the evil (or good) thereof," and not enough thought has been taken of the general appearance when all is completed. By the plan proposed it is expected that the old somewhat haphazard system will altogether disappear.

For the past few years, owing to the proposals submitted by the late Professor Haslam to the Council of Trinity College, Cambridge, a close scholarship from Canterbury College has been tenable at Trinity. During the past year notice was received from Trinity that, owing to the success of the scheme adopted, it was intended to offer the scholarship on a wider basis, and instead of it being confined to students from Canterbury College, to make a selection of one or more scholars nominated by any or all of the university colleges in the Empire outside the United Kingdom. While it is very gratifying that success has rewarded the efforts of the students sent from here, it seems a pity that such success should mean the withdrawal of the conditions affecting the tenure of the scholarship as obtaining until now. Of course, if a student be chosen from here in the face of selection from such a wide field the honour will be the greater, but it was hoped that the conditions as at first proposed would mean a close knitting together of one of the old colleges of Cambridge with this comparatively new one established at the Antipodes.

Hitherto whatever provision has been made for graduates to pursue their studies in England has been in favour of the male student, but I am glad to be able to report that negotiations are being carried on with Holloway College with a view of securing for female graduates a somewhat similar concession to that hitherto granted by Trinity College. Should the conditions prove satisfactory, the Board will be then in a position to help those female students whose work makes it probable that they will benefit by such a scholarship, so that they may continue their post-graduate studies in England. Each succeeding year shows one or more female students well up in the honours list, and the possibility of obtaining the help necessary for further study may induce still more to read for honours instead of being content with the ordinary pass degree.

This year the provisions of the Teachers' Superannuation Act have been extended so that the permanent staff of the College is enabled to join and receive the benefits of that fund. For some years endeavours have been made to alter the Act in this direction, but without success, but the change now made renders it optional for permanent members of the staff who held their appointments before 1913 to join, if they so wish, and renders it compulsory for all future appointees to join. The benefits accruing therefrom will be advantageous to those who give their life service to the Board, but in this, as in all cases under the Act, the benefits of those who retire before the expiration of the term agreed on are not so advantageous; still, generally speaking, the provision for a retiring-pension will be of considerable value.

Some three years ago, on the combined suggestion of Canterbury and Lincoln Colleges, alterations were made in the order in which certain subjects could be taken by those who were anxious to take a degree in agriculture. These alterations were not made with the intention of lowering the standard of the degree, but with that of enabling the student to pursue his studies in such a way that the practical and theoretical work were better correlated. The result has been beneficial, and it is pleasing to see that a greater number are coming forward for their degrees in this subject, for in this year's class lists there are four who have passed a section of the degree examination and one who has obtained the full degree.

Those who have been considering a possible change in the method of examination of degrees have arrived at a decision that seems to approach somewhat closely to a combination of both internal and external examiners. Oftentimes a student who has done good solid work throughout the year fails to do himself justice in the paper work submitted to the Home examiner. The following resolution of the Senate comes into force this year: "That a report of the work of each student sitting for his degree in arts or science be furnished by the Professors through the Registrar for communication to the examiners at Home." Thus by such means something approaching a conference between those who have taught and examined the students in New Zealand and the external examiners is set up, and the result will not depend solely on the judgment of one set of examiners. This will in no way lessen the value of the degree, but will enable a fuller judgment of the work done to be arrived at. Though not all that may be desired, yet it is a recognition that the fairest way of determining whether a student should proceed to his degree is by considering as fully as possible every factor in the course of study. It is a pleasing fact to note that at the recent degree examinations a fair share of honours has fallen to Canterbury College.

Professor Haslam, after thirty-two years' service under the Board, sent in his resignation, and he was granted leave of absence for the second term, thus relieving him of his duties soon after his resignation had been accepted. During his term of office he had identified himself with almost every phase of College life, taking great interest not only in his actual duties, but in those many branches that go to make up collegiate life. Of the work done as Professor of Classics, the results both in the class lists from year to year and in the positions gained by many of his students showed how thoroughly he carried out his share in their instruction. The vacancy has been filled by the appointment of Mr. Hugh Stewart, M.A., of Trinity College, Cambridge, who, bringing with him a high reputation, will undoubtedly keep up the former high standard of classical attainments.

#### SCHOOL OF ENGINEERING.

This year shows a slight increase in the number of matriculated students who purpose taking the full course for one or other of the degrees. This is due in all probability to the resolution passed by the Senate, which enables the whole course to be completed in four years instead of five years. It is more than probable that as the years pass the number will be materially increased. I have pointed out in another portion of the report that this shortening of the course has made it imperative that more accommodation should be provided. The alterations and additions decided on and now being undertaken provide for an additional lecture-room, a departmental library, workshop, a room for applied mechanics, a private room for a lecturer, and a preparation-room. By such means every facility will be given the students to pursue their studies under more advantageous surroundings. It is to be regretted that the serious illness of Professor Scott has necessitated a lengthened leave of absence, and this at a time when alterations and additions designed by him are being carried out.

The list of recent appointments obtained by ex-students during the past year, as shown by the acting professor in charge, makes it clear that the School of Engineering is providing well-qualified men not only in the Dominion, but in different parts of the world.

#### CANTERBURY COLLEGE.

##### BOARD OF GOVERNORS.

The following are the results of elections held during the year: In March Mr. Matthew Dalziel was elected as a representative of the School Committees, *vice* Mr. T. W. Rowe, who resigned to take up a position at Canterbury College. In June Mr. William Brock, M.A., was elected as a representative of the graduates to fill the vacancy caused by the resignation of Mr. T. S. Foster, who was appointed Principal of Normal Training College and Lecturer on Education at Canterbury College.

The following members who retired by rotation, as provided by the Act of 1896, were re-elected to represent their several constituencies: Representing His Excellency the Governor—Thomas William Adams; representing graduates of Canterbury College—Very Rev. Walter Harper and Alfred George Talbot; representing teachers of Canterbury—Thomas Hughes; representing School Committees of Canterbury—Matthew Dalziel; representing Professorial Board of Canterbury College—William Izard.

Mr. H. G. Ell, M.P., the representative of the Canterbury Members of Parliament, resigned, the vacancy being filled by the election of Mr. Thomas Henry Davey, M.P. In October casual vacancies were caused by the absence from the Dominion for six consecutive months of Messrs. Acland and Montgomery. Both members were re-elected. In November two other vacancies occurred through absence from the Dominion. Mr. John Lee Scott, a representative of members of Parliament, was re-elected. Dr. Talbot, who held the other seat as a representative of the graduates, is making an extended stay in Europe, and did not seek re-election; his position was filled by the election of Dr. George Mackenzie Lester, M.A. Mr. J. C. Adams was unanimously re-elected Chairman for another year.

#### NUMBER OF STUDENTS.

The following table shows the number of matriculated and non-matriculated students who attended lectures each year since 1903:—

	Males.		Females.		Total.
	Matric.	Non-matric.	Matric.	Non-matric.	
1903 .. .. .	119	26	48	56	249
1904 .. .. .	144	20	66	47	277
1905 .. .. .	135	26	65	51	277
1906 .. .. .	129	35	69	71	304
1907 .. .. .	153	44	100	45	342
1908 .. .. .	156	49	137	39	381
1909 .. .. .	176	38	145	41	400
1910 .. .. .	179	31	130	30	370
1911 .. .. .	177	37	118	34	366
1912 .. .. .	171	37	125	29	362

NOTE.—In 1912 there were ten exempted students (seven males and three females) who were examined but did not attend lectures.

The accompanying table shows the fees received during the past six years:—

	£
1907 .. .. .	2,533
1908 .. .. .	2,655
1909 .. .. .	2,886
1910 .. .. .	2,375
1911 .. .. .	2,462
1912 .. .. .	2,523

#### SUCCESSFUL STUDENTS.

The following students were recorded by the University as having passed in their respective examinations:—

Diploma of Honours and also degree of Master of Arts: Gordon, James Alexander—third class in economics, jurisprudence, and constitutional history; Malthus, Cecil—first class in languages and literature (English and French); Pegg, Eliza Julia—first class in natural science (botany); Reynolds, Mary Catherine—third class in languages and literature (Latin and French).

Degree of Master of Arts: Griffith, Elizabeth Gladys.

Degree of Bachelor of Arts: Archey, Gilbert Edward; Blain, Thomas; Carrington, Philip; Hancox, George Gilbert; Knight, Leslie Albert; Lambie, George Sidey; Macfarlane, Samuel George; Marshall, Charles Stanley; Parr, Stephen; Purchas, Alban Charles Theodore; Purchas, John Ernest; Rule, William Bramwell; Tracy, William Francis.

Degree of Bachelor of Arts (first section): Arnold Clarence Banks; Barrell, Arthur Frank; Best, Isabel Winifred; Bruce, Edith Mary; Callaghan, Francis Raymond; Cox, Edwin Thomas; Ensor, Edna Jean; Harvey, Elizabeth Alice; Lynskey, Michael; Mitchell, Roberta Christina Flaus; Ponder, Arthur Osborne; Sage, Constance Marion; Watters, Jessie Hazel Annandale.

Certificate of proficiency (M.A. standard): Williamson, Ernest Alfred—in physical science (heat).

Certificate of proficiency (B.A. standard): Hodgson, Ruth Jane—in pure mathematics; Lawry, Bertha Mabel—in education; Simpson, Anne—in Latin and economics.

Degree of Bachelor of Science: Corkill, Francis Malcolm; Gudex, Michael Christian, M.A.; Kidson, Harold Percy, B.A.; Rands, Henry, M.A.

Degree of Bachelor of Laws: Herman, Cedric Arthur; McMullin, Henry James; Spratt, Frederick Campbell; Twyneham, Roy.

The following passed in certain subjects for the degree of Bachelor of Laws: Gresson, Kenneth Macfarlane; Livingstone, Robert Heaton; Menzies, William Greig; Murchison, Donald Sinclair; Paterson, Stanley Logan.

Degree of Bachelor of Commerce: Holliss, Geoffrey James.

The following passed in certain subjects for the degree of Bachelor of Commerce: Currie, Archibald Ernest (M.A.); Westernman, Victor Leonard; Wilkinson, Alfred Owen.

Degree of Bachelor of Engineering (Civil): Smith, Thomas Dalrymple.

The following passed in certain subjects for the degree of Bachelor of Engineering: Bauchop, Duncan Forrest; Hutton, Leslie Bertram; Lush, Arthur; MacIndoe, George; Corkill, Francis Malcolm; Cameron, Donald Lochiel; Collins, John Christopher; Doake, David; Robinson, Isaac Richard; Simmers, William Wallace.

The following passed the Engineering Entrance Examination: Cameron, Donald Lochiel; Collins, John Christopher; Gough, Edgar Charles; Hyde, William Julius; Reece, Guy Neville; Taylor, Conway.

Degree of Bachelor of Agriculture: Hill, Walter Stanley.

The following passed in certain subjects for the degree of Bachelor of Agriculture: Gummer, Frederick Gilbert; McQueen, John Alexander; Holford, George Henry.

Senior University Scholarships: Corkill, Francis Malcolm—in electricity; Marshall, Charles Stanley—in economics; Purchas, Alban Charles Theodore—in geology.

The Haydon Prize (University), for an essay on "The Value of the British Navy to the Colonies," was won by Joseph Vivian Wilson, of Canterbury College.

Canterbury College Exhibitions: Carrington, Philip—in Latin; Wilson, Joseph V.—in Greek; Lambie, George, S.—in English; Knight, Leslie A.—in French; Marshall, Charles S.—in German; Macfarlane, Samuel G.—in history; Purchase, John E.—in economics; Parr, Stephen—in mental science; Robinson, Isaac R.—in applied mathematics; Rowe, Harold V.—in chemistry; Harvey, Elizabeth A.—in biology; Purchas, Alban C. T.—in geology.

Sir George Grey Scholarship—Gilling, William O. R.

The following passed the Senior (third year) Music Examination, and qualified for the College certificate: Boot, Evelyn A.; Cook, Jessie; Sly, Margaret Amy; Wilson, Violet.

School of Engineering Entrance Exhibition: Taylor, Conway.

School of Engineering Associateship (Civil): Hicks, Richard J.

The number of students of this College who have succeeded in passing the various examinations for degrees given by the University of New Zealand are as follows: Litt.D., 2; M.A., 215; B.A., 431; D.Sc., 2; M.Sc., 16; B.Sc., 52; LL.D., 4; LL.M., 1; LL.B., 68; B.Comm., 3; Mus. Bac., 4; B. Engineering (mechanical), 16; B. Engineering (electrical), 22; B. Engineering (civil), 3.

Since the foundation of the University of New Zealand the following awards in honours and in scholarships, &c., have been gained by students from this College:—

Honours in Arts: Double first-class honours, 10; First-class honours (exclusive of above), 57.

Honours in science: Double first-class honours, 2; First-class honours (exclusive of above), 2.

Scholarships and prizes: Third-year scholarships (only awarded in 1878), 2; Senior University Scholarships, 105; John Tinline Scholarships, 9; 1851 Exhibition Science Scholarships, 4; Bowen Prizes, 21; Bowen Prizes (*proxime accesserunt*), 3; Macmillan-Brown Memorial Prize, 2; Haydon Prize (first awarded in 1910), 2.

#### SUMMARY OF RECEIPTS AND EXPENDITURE FOR YEARS 1911 AND 1912.

	Receipts.			
	1911.		1912.	
	£	s. d.	£	s. d.
To Balance at 1st January .. .. .			486	17 3
Rents from reserves .. .. .	16,668	15 6	17,617	19 0
Interest on mortgages and debentures .. .. .	621	0 0	621	0 0
House-rent .. .. .	102	12 4	103	10 0
Fees (including capitation for free places, &c.) .. .. .	8,245	10 0	8,204	4 7
Government grants and subsidies (exclusive of capitation for free places) .. .. .	5,049	16 1	3,996	13 11
Public Library subscriptions, fines, &c. .. .. .	836	9 7	787	4 9
Repayment of loan .. .. .	50	0 0		
Revenue from bequests and donation .. .. .	712	10 0	837	10 0
Sale of Timaru town sections .. .. .			1,250	0 0
Miscellaneous .. .. .	132	19 4	187	12 3
			32,419	12 10
			£32,906	10 1
			33,605	14 6
			£37,249	16 3



## SUMMARY OF RECEIPTS AND EXPENDITURE FOR YEARS 1911 AND 1912—continued.

	Expenditure.							
	1911.		1912.		1911.		1912.	
	£	s. d.	£	s. d.	£	s. d.	£	s. d.
By Buildings (including repairs)	545	11 7			804	9 6		
Apparatus, plant, material, and equipment (including fittings)	1,691	7 10			1,690	17 8		
Salaries (exclusive of office staff)	21,303	9 7			21,994	0 8		
Salaries of office staff	1,049	8 4			1,139	13 4		
Inspection of reserves	332	13 2			349	4 8		
Maintenance and improvement of reserves	157	14 7			630	11 10		
Advertising, printing, stationery, and books	857	13 11			880	12 0		
Fuel and lighting	690	15 7			660	17 3		
Rates and insurance	327	2 1			387	10 11		
Exhibitions and scholarships	420	15 6			529	1 10		
Books, binding, newspapers, &c., at Public Library	578	6 3			556	13 4		
Interest	185	17 10			190	5 0		
Part repayment of loan (Public Library)	400	0 0						
Purchase of land	50	0 0			1,486	6 0		
Miscellaneous	671	12 1			704	17 9		
			29,262	8 4			32,005	1 9
Balance at 31st December			3,644	1 9			5,244	14 6
			<u>£32,906</u>	<u>10 1</u>			<u>£37,249</u>	<u>16 3</u>

## STATEMENT OF BALANCES AT 31ST DECEMBER, 1912.

Cr.	Accounts.	£	s.	d.	£	s.	d.
Astronomical Observatory Account		411	16	7			
School of Engineering and Technical Science Account		261	5	10			
Boys' High School, preparatory department		4	4	4			
Girls' High School Maintenance Account		22	1	9			
Girls' High School, Capital Account		5,002	8	1			
School of Art Account		790	14	4			
Museum Guide-book, sinking fund		60	0	0			
Public Library (Postle Bequest), Capital Account		1,666	8	6			
Public Library, sinking fund		81	10	4			
Museum, Library, and School of Technical Science Capital Account		18,941	8	4			
Museum, Library, and School of Technical Science Endowment Account		364	18	1			
Medical School, Reserves Account		4,400	10	11			
Emily S. Foster Memorial Fund		65	12	4			
Helen Macmillan-Brown Memorial Fund		99	14	4			
Thomas Miller Prize Fund		100	0	9			
Joseph Haydon Prize Fund		234	7	7			
					32,507	2	1
Dr.							
College Maintenance Account		3,558	0	8			
College Buildings, Loan Account		4,000	0	0			
Boys' High School Maintenance Account		876	14	1			
Boys' High School Buildings Loan Account		3,000	0	0			
Girls' High School Buildings (Additions)		118	8	0			
Museum Account		173	4	5			
Public Library Maintenance Account		1,086	0	5			
					12,812	7	7
					<u>£19,694</u>	<u>14</u>	<u>6</u>
	Bank and Investments.	£	s.	d.	£	s.	d.
Drawing Account		5,281	11	6			
Less outstanding cheques		36	17	0			
					5,244	14	6
Mortgages of freeholds					8,000	0	0
Mortgages of debentures					5,700	0	0
Debentures (Foster and Brown Memorial Funds)					150	0	0
Debentures (Observatory)					300	0	0
Debentures (Miller Prize Fund)					100	0	0
Debentures (Haydon Prize Fund)					200	0	0
					<u>£19,694</u>	<u>14</u>	<u>6</u>
	Liabilities.				£	s.	d.
Public Trust Department Loan					3,600	0	0
Public Library scrip					98	10	2
Emily S. Foster Memorial Fund					65	12	4
Helen Macmillan-Brown Memorial Fund					99	14	4
					<u>£3,863</u>	<u>16</u>	<u>10</u>

GEO. H. MASON, Registrar.  
EDWARD EVANS, Accountant.

Examined and found correct.—P. PURVIS WEBB, Deputy Controller and Auditor.



## COLLEGE BUILDING LOAN ACCOUNT.

<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
Contribution from College Maintenance Account .. .. .		569	4	1	Balance, 1st January, 1912 .. .. .		4,587	3	6
Superior Education Capital Account, transfer (being compensation for land taken by Government for Bealey Section of Midland Railway) .. .. .		17	19	5					
Balance .. .. .		4,000	0	0					
		<u>£4,587 3 6</u>					<u>£4,587 3 6</u>		
					Balance, January 1st, 1913, .. .. .		£4,000	0	0

## CHEMICAL LABORATORY ACCOUNT.

<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
Share of rent of Coldstream Reserve .. .. .		111	11	0	Insurance .. .. .		14	5	4
Fees for chemical analysis .. .. .		3	3	0	Gas .. .. .		25	12	3
Examination fees for practical chemistry .. .. .		0	10	0	Electric current .. .. .		7	0	4
College Maintenance Account—Transfer of balance .. .. .		190	16	9	Water-supply .. .. .		14	18	0
					Chemicals and apparatus .. .. .		160	10	5
					Research apparatus .. .. .		46	3	11
					General expenses, viz.,—				
					Printing, stationery, and books .. .. .		17	6	9
					Laboratory requisites .. .. .		7	2	8
					Furniture and fittings .. .. .		5	16	1
					Repairs and sundries .. .. .		7	5	0
		<u>£306 0 9</u>					<u>£306 0 9</u>		

## PHYSICAL LABORATORY ACCOUNT.

<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
Share of rent of Coldstream Reserve .. .. .		111	11	0	Insurance .. .. .		7	19	2
College Maintenance Account—Transfer of balance .. .. .		207	8	2	Apparatus .. .. .		273	4	11
					Electric current .. .. .		12	0	0
					General expenses, viz.,—				
					Books and stationery .. .. .		10	2	10
					Light .. .. .		1	7	6
					Laboratory requisites .. .. .		3	4	0
					Timber, repairs, &c. .. .. .		5	2	3
					Diagrams and cupboard .. .. .		5	18	6
		<u>£318 19 2</u>					<u>£318 19 2</u>		

## BIOLOGICAL LABORATORY ACCOUNT.

<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
College Maintenance Account—Transfer of balance .. .. .		49	9	9	Insurance .. .. .		1	6	4
					Fuel and lighting .. .. .		23	4	7
					Laboratory specimens and expenses .. .. .		8	18	2
					General expenses, viz.,—				
					Printing and stationery .. .. .		2	15	6
					Furniture, fittings, and repairs .. .. .		2	1	0
					Keeping grounds and sundries .. .. .		8	4	2
		<u>£49 9 9</u>					<u>£49 9 9</u>		

## ASTRONOMICAL OBSERVATORY ACCOUNT.

<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
Balance, 1st January, 1912 .. .. .		411	12	7	Contribution towards cost of upkeep (College) .. .. .		16	9	7
Interest .. .. .		16	13	7	Balance .. .. .		411	16	7
		<u>£428 6 2</u>					<u>£428 6 2</u>		
Balance, 1st January, 1913 .. .. .		£411	16	7					







## MUSEUM GUIDE-BOOK SINKING FUND.

<i>Receipts.</i>		£ s. d.	<i>Expenditure.</i>		£ s. d.
Balance, 1st January, 1912	.. ..	50 0 0	Balance, 31st December, 1912	.. ..	60 0 0
Museum Account allocation	.. ..	10 0 0			
		<u>£60 0 0</u>			<u>£60 0 0</u>
Balance, 1st January, 1913	.. ..	£60 0 0			

## PUBLIC LIBRARY MAINTENANCE ACCOUNT.

<i>Receipts.</i>		£ s. d.	<i>Expenditure.</i>		£ s. d.
Contribution from Museum, Library, and School of Technical Science Endowment	.. ..	470 0 0	Balance, 1st January, 1912	.. ..	1,055 14 5
Subscriptions .. ..	.. ..	655 4 6	Salaries .. ..	.. ..	857 6 0
Subscriptions (extra volumes) .. ..	.. ..	82 13 6	Contribution towards expenses of Registrar's Office .. ..	.. ..	30 0 0
Fines .. ..	.. ..	33 1 5	Contribution towards travelling-expenses of members of Board .. ..	.. ..	4 16 5
Reserving books .. ..	.. ..	5 0 3	Insurance .. ..	.. ..	28 0 0
Sale of catalogues .. ..	.. ..	2 6 9	Lighting .. ..	.. ..	164 1 1
Sale of magazines .. ..	.. ..	7 6 3	Fuel .. ..	.. ..	20 10 3
Sale of magazines (juvenile department) .. ..	.. ..	1 0 7	Subscriptions to colonial newspapers .. ..	.. ..	42 2 1
Revenue from estate of late James Gammack .. ..	.. ..	725 0 0	Repairs .. ..	.. ..	20 6 10
Interest on capital (Postle Bequest) .. ..	.. ..	66 12 9	Printing, stationery .. ..	.. ..	27 7 0
Government subsidy .. ..	.. ..	24 0 8	General expenses, viz. :—		
Payment for books lost .. ..	.. ..	0 11 6	Furniture and fittings .. ..	.. ..	5 14 9
Balance .. ..	.. ..	1,086 0 5	Cleaning and appliances .. ..	.. ..	10 12 0
			Winding clocks .. ..	.. ..	2 2 0
			Directories, P.O. box, &c. .. ..	.. ..	2 3 0
			Water-supply .. ..	.. ..	4 8 0
			Sundries .. ..	.. ..	11 0 9
			New books, circulating department .. ..	.. ..	199 11 1
			Renewal of standard works .. ..	.. ..	7 13 2
			Periodicals and English papers .. ..	.. ..	99 11 7
			Binding .. ..	.. ..	16 17 6
			Expenses of juvenile department* .. ..	.. ..	29 7 4
			Reference Library : Books, periodicals, and binding—		
			“ A. Postle ” Trust .. ..	.. ..	66 12 9
			General account .. ..	.. ..	94 17 10
			New building loan—		
			Interest on £3,600 .. ..	.. ..	162 0 0
			Allocation to sinking fund .. ..	.. ..	54 0 0
			Legal expenses in connexion with declaratory judgment .. ..	.. ..	108 10 10
			Interest on current account .. ..	.. ..	33 11 11
		<u>£3,158 18 7</u>			<u>£3,158 18 7</u>
			Balance, 1st January, 1913	.. ..	£1,086 0 5

## PUBLIC LIBRARY POSTLE BEQUEST (CAPITAL) ACCOUNT.

<i>Receipts.</i>		£ s. d.	<i>Expenditure.</i>		£ s. d.
Balance, 1st January, 1912	.. ..	1,666 8 6	Public Library maintenance, transfer	.. ..	66 12 9
Interest .. ..	.. ..	66 12 9	Balance .. ..	.. ..	1,666 8 6
		<u>£1,733 1 3</u>			<u>£1,733 1 3</u>
Balance, 1st January, 1913	.. ..	£1,666 8 6			

## PUBLIC LIBRARY SINKING FUND.

<i>Receipts.</i>		£ s. d.	<i>Expenditure.</i>		£ s. d.
Balance, 1st January, 1912	.. ..	26 9 7	Balance, 31st December, 1912	.. ..	81 10 4
Public library maintenance allocation	.. ..	54 0 0			
Interest .. ..	.. ..	1 0 9			
		<u>£81 10 4</u>			<u>£81 10 4</u>
Balance, 1st January, 1913	.. ..	£81 10 4			

## JAMES GAMMACK TRUST (PUBLIC LIBRARY).

<i>Receipts.</i>		£ s. d.	<i>Expenditure.</i>		£ s. d.
Revenue from estate .. ..	.. ..	725 0 0	Allocation to Public Library Maintenance Account—		
			For new books, circulating department .. ..	.. ..	199 11 1
			Renewal of standard works .. ..	.. ..	7 13 2
			Periodicals and English papers .. ..	.. ..	99 11 7
			Binding .. ..	.. ..	16 17 6
			Expenses of juvenile department .. ..	.. ..	29 7 4
			Proportion of salaries .. ..	.. ..	247 19 7
			Proportion of maintenance expenses .. ..	.. ..	123 19 9
		<u>£725 0 0</u>			<u>£725 0 0</u>

## MUSEUM, LIBRARY, AND SCHOOL OF TECHNICAL SCIENCE CAPITAL ACCOUNT.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Balance, 1st January, 1912	18,941	8 4	Balance, 31st December, 1912	18,941	8 4
	<u>18,941</u>	<u>8 4</u>		<u>18,941</u>	<u>8 4</u>
Balance, 1st January, 1913	18,941	8 4			

## MUSEUM, LIBRARY, AND SCHOOL OF TECHNICAL SCIENCE ENDOWMENT ACCOUNT.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Balance, 1st January, 1912	926	18 2	Contributions to—		
Rent of reserves	1,815	0 0	College library	20	0 0
Interest	696	14 3	School of Engineering	525	0 0
			School of Art	400	0 0
			Museum	1,600	0 0
			Public library	470	0 0
			Contribution towards cost of inspection of reserves	30	0 0
			Interest on rents paid twelve months in advance	28	5 0
			Sundries	0	9 4
			Balance	364	18 1
	<u>£3,438</u>	<u>12 5</u>		<u>£3,438</u>	<u>12 5</u>
Balance, 1st January, 1913	364	18 1			

## MEDICAL SCHOOL RESERVES ACCOUNT.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Balance, 1st January, 1912	4,385	6 2	Contributions toward—		
Rent of reserves	436	10 0	Salary of Professor of Biology	400	0 0
Interest	169	12 4	Salary of Professor of Chemistry	90	0 0
			Expenses of Registrar's Office	90	0 0
			Inspection of reserves	10	8 3
			Sundries	0	9 4
			Balance	4,400	10 11
	<u>£4,991</u>	<u>8 6</u>		<u>£4,991</u>	<u>8 6</u>
Balance, 1st January, 1913	4,400	10 11			

## MORTGAGES OF FREEHOLDS ACCOUNT.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Balance, 31st December, 1912	8,000	0 0	Balance, 1st January, 1912	8,000	0 0
	<u>8,000</u>	<u>0 0</u>		<u>8,000</u>	<u>0 0</u>
			Balance, 1st January, 1913	8,000	0 0

## MORTGAGES OF DEBENTURES ACCOUNT.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Balance, 31st December, 1912	5,700	0 0	Balance, 1st January, 1912	5,700	0 0
	<u>5,700</u>	<u>0 0</u>		<u>5,700</u>	<u>0 0</u>
			Balance, 1st January, 1913	5,700	0 0

## EMILY S. FOSTER MEMORIAL FUND.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Balance, 1st January, 1912	65	10 6	Prizes	2	13 2
Interest	2	15 0	Balance	65	12 4
	<u>£68</u>	<u>5 6</u>		<u>£68</u>	<u>5 6</u>
Balance, 1st January, 1913	65	12 4			

## HELEN MACMILLAN-BROWN MEMORIAL FUND.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Balance, 1st January, 1912	99	6 4	Prizes	3	12 0
Interest	4	0 0	Balance	99	14 4
	<u>£103</u>	<u>6 4</u>		<u>£103</u>	<u>6 4</u>
Balance, 1st January, 1913	99	14 4			



## THOMAS MILLER PRIZE FUND.

		<i>Receipts.</i>				<i>Expenditure.</i>			
		£	s.	d.			£	s.	d.
Balance, 1st January, 1912	..	99	11	7	Prizes ..	..	..	..	3 10 10
Interest	..	4	0	0	Balance	..	..	..	100 0 9
		<hr/>					<hr/>		
		£103	11	7			£103 11 7		
		<hr/>					<hr/>		
Balance, 1st January, 1913	..	£100	0	9					

## JOSEPH HAYDON PRIZE FUND.

		<i>Receipts.</i>				<i>Expenditure.</i>			
		£	s.	d.			£	s.	d.
Balance, 1st January, 1912	..	225	17	7	Balance, 31st December, 1912	..	234	7	7
Interest	..	8	10	0					
		<hr/>					<hr/>		
		£234	7	7			£234 7 7		
		<hr/>					<hr/>		
Balance, 1st January, 1913	..	£234	7	7					

## E. REPORT OF THE UNIVERSITY OF OTAGO.

(FOR YEAR ENDING 31ST MARCH, 1913.)

(The University of Otago Ordinance, 1869.)

*Visitor.*—His Excellency the Governor.*Council.*

Appointed by His Excellency the Governor in Council—Hon. J. Allen, M.A., M.P.; J. Roberts, Esq., C.M.G. (Vice-Chancellor); L. W. Harris, Esq.

Elected by graduates—Rev. A. Cameron, B.A. (Chancellor); T. K. Sidey, Esq., B.A., LL.B., M.P.; Rev. Professor W. Hewitson, B.A.; Robert Church, Esq., M.D., Ch.B.

Elected by the professors—Professor J. H. Scott, C.M., M.D., M.R.C.S., F.R.S.E.; John Shand, Esq., M.A., Hon. LL.D.

Elected to represent Otago Hospital Board, J. H. Walker, Esq.; elected by teachers in Primary Schools, W. Eudey, Esq.; elected by the Otago Education Board, Hon. T. Fergus; elected by High School Boards, G. C. Israel, Esq.; elected by the Southland Education Board, W. Macalister, Esq., B.A., LL.B.; elected by School Committees, P. McKinlay, Esq., M.A.; elected by teachers of Secondary Schools, H. M. Morrell, Esq., M.A., Oxon.; elected by Dunedin City Council, W. D. Stewart, Esq., LL.B.

*Professors.*

Natural Philosophy—J. Shand, M.A., Hon. LL.D., F.P.S.; Anatomy—John Halliday Scott, M.D., C.M., M.R.C.S., F.R.S.E.; Mental and Moral Philosophy—William Salmond, M.A., Hon. D.D.; English Language and Literature—Thomas Gilray, M.A., Hon. LL.D., F.R.S.E.; Biology—William Blaxland Benham, D.Sc., M.A., F.R.S.; Mining—James Park, M.Am. Inst., M.E., M.Inst.M.M., F.G.S.; Physiology—John Malcolm, M.D., Ch.B.; Mathematics, Pure and Applied—David James Richards, M.A.; Dentistry—Henry Percy Pickerill, M.D., Ch.B., M.D.S., L.D.S., R.C.S.; Geology and Mineralogy—Patrick Marshall, M.A., D.Sc., F.G.S., F.R.G.S.; Medicine—Daniel Colquhoun, M.D., F.R.C.P., M.R.C.S.; Pathology—William Stewart Roberts, M.R.C.S.; Ophthalmology—Henry Lindo Ferguson, M.A., M.D., F.R.C.S.I., L.K.Q.C.P.I.; Medical Jurisprudence—Frank Ogston, M.D., C.M.; Surgery—Louis Edward Barnett, M.B., C.M., F.R.C.S.; Metallurgy and Assaying—Daniel Black Waters, A.O.S.M.; Education—David Benfrew White, M.A.; Home Science and Domestic Arts—Winifred L. Boys-Smith; Chemistry—John Kenneth Harold Inglis, M.A., D.Sc.; Bacteriology and Public Health—Sydney Taylor Champtaloup, M.B., Ch.B., B.Sc., P.H.

*Lecturers.*

Mental Diseases—Frederick Truby King, M.B., C.M., B.Sc.; German—Frank Hyde Campbell, M.A.; French—George Edward Thompson, M.A.; Hebrew—Michael Watt, M.A., Hon. D.D.; Tutor in Medicine—William Marshall Macdonald, M.B., C.M.; Jurisprudence—William Grant Hay, LL.M.; Constitutional History and Law—J. Lang, M.A.; Assistant Lecturer on Surgery—William Newlands, M.A., B.Sc., M.B., Ch. B., F.R.C.S.; Political Economy and Accountancy Law—Harry Dodgshun Bedford, M.A., LL.M.; Latin—T. D. Adams, M.A.; Greek—James Dunbar; Beverly Demonstrator in Physics—Thomas Bennett Hamilton, M.A., B.Sc.; Midwifery and Gynæcology—Frederick Ratcliffe Riley, F.R.C.S., L.R.C.P.; Materia Medica—Frank W. Fitchett, M.D., C.M.; Chemistry—Home Science Department—G. Helen Rawson; Tutor in Surgery—S. C. Allen, M.D., F.R.C.S.; Accountancy—G. W. Reid, B.Com.; Property, Part II, and Procedure—C. G. White, LL.B., B.A.; Evidence—W. D. Stewart, LL.B.; Torts—J. B. Callan, B.A., LL.B.; Property, Part I—A. A. Finch.

*Registrar*—H. Chapman, B.A.

The CHANCELLOR OF THE UNIVERSITY OF OTAGO to HIS EXCELLENCY THE GOVERNOR.

YOUR EXCELLENCY,—

In compliance with the provisions of the University of Otago Ordinance, 1869, I have the honour herewith to submit a report of the proceedings of the University of Otago for the year ending 31st March, 1913.

*The Council.*

The constitution of the Council was very largely altered during the year in virtue of the provisions of the University of Otago Council Act, 1911. This Act provides for the representation on the Council of Education Boards, High School Boards, primary and secondary school teachers, School Committees, the Dunedin City Council, and the Otago Hospital Board, besides such bodies as were formerly represented. The result of the elections was the return of the following ten members of the old Council: Hon. James Allen, M.A.; Rev. Andrew Cameron, B.A.; John Roberts, Esq., C.M.G.; Dr. Shand; T. K. Sidey, Esq., B.A., LL.B., M.P.; Rev. William Hewitson, B.A.; Dr. Church; L. W. Harris, Esq.; Dr. Scott; and J. H. Walker, Esq.: while the following have been elected as representatives of the new electors: Hon. T. Fergus, representing the Otago Education Board; W. Macalister, Esq., B.A., LL.B., representing the Southland Education Board; G. C. Israel, Esq., representing the High School Boards; W. D. Stewart, Esq., LL.B., representing the Dunedin City Council; W. J. Morrell, Esq., M.A., representing the teachers in secondary schools; W. Eudey, Esq., representing the teachers in primary schools; and Parker McKinlay, Esq., M.A., representing the School Committees.

In March of this year Mr. Leslie Harris, who proposed making an extended visit to Europe, felt compelled to resign, and Mr. John Ross has been appointed in his place. Besides these changes in membership an important change has taken place in the internal constitution of the Council. The Hon. James Allen, owing to his elevation to the position of Minister of Education, was obliged, much to the regret of members of the Council, to relinquish the post of Chancellor. The Rev. Andrew Cameron, B.A., was appointed in Mr. Allen's place, whilst the vacant Vice-Chancellorship was filled by the appointment of Mr. John Roberts, C.M.G.

*The Staff.*

I am not called upon to note any changes in the personnel of the teaching staff. An important post will, however, fall vacant at the end of the current year, since Dr. Shand, who has been Professor of Physics since 1870, will then retire from the duties of his Chair. Dr. Shand has been so intimately connected with the development of the University since its foundation, both as a professor and as a member of Council, that his retirement will be very keenly felt.

*Statistics of Students.*

During the year the number of students in attendance in the various faculties has been as follows:—

	Men.	Women.
Arts .. .. .	128	95
Science .. .. .	20	6
Law .. .. .	40	..
Commerce .. .. .	46	..
Medicine .. .. .	112	9
Dental .. .. .	10	1
Engineering .. .. .	2	..
Mining .. .. .	14	..
Home science .. .. .	..	30
	372	141

In addition to these, 26 exempted students were enrolled—21 men and 5 women—making the grand total of students for the year 393 men and 146 women, or 539 in all.

*Lectures on Law and Accountancy.*

In the last annual report reference was made to the institution of lectures on law and accountancy. I am pleased to be able to state that these lectures are meeting a felt want, a fact which is amply demonstrated by the large number of students who have availed themselves of the facilities offered. Instruction is now given which enables students of this University to satisfy the requirements of the law professional examination and of the professional examination in accountancy. Reference should here be made to the liberality of the New Zealand Society of Accountants, which body donates £100 a year in support of the accountancy lectures, and to the generosity shown by the Otago Law Society in contributing a similar sum for the furtherance of lectures on law. It is fitting, too, that I should here express the Council's appreciation of the services of six well-known members of the Dunedin legal profession, who during the past year have ungrudgingly devoted their time, for a trifling monetary recompense, to the instruction of students in law.

*Veterinary School.*

Little headway has been made towards the establishment of a Veterinary College. There is every prospect at the present time, however, of a suitable site being found, and the Council trusts that this

school may be established by the commencement of the session of 1914. I would submit to your Excellency, however, that, no matter how desirous the Council may be of extending the University's works in this direction, the finance of the undertaking must be assured by the Government. It will be evident from the latter portion of this report that the Council has no moneys of its own to expend upon the establishment of this school.

*Extension Lectures.*

During the year the Council has had under consideration the establishment of extension lectures, and a scheme has been evolved by which certain of the professors will, during the winter months, deliver a series of popular lectures. It is thought that in the future the scheme may be extended to allow of lectures being delivered at other centres, such as Invercargill and Oamaru.

*Finance.*

In the annual reports for some years back attention has been directed to the unsatisfactory nature of the University's finances. Unfortunately, it is my duty once more to emphasize this matter, for during the past year the University has gone back financially to the extent of about £800. It is true that a great deal of extraordinary expenditure had to be faced in renovating the chemical laboratory and in other works, but even after taking this into consideration a deficit still remained. Your Excellency may rest assured that the Council in its expenditure throughout the year has had regard only to the efficient working of the various departments. And attention may properly be directed to the large number of departments controlled by this University. Not only does it give instruction in the ordinary course of arts and science (including home science), but it also equips students for the important professions of medicine, dentistry, mining, law, and accountancy. The value of such an institution to the public of the Dominion is unquestionably very great, and the Council thinks it may fairly look to the Government for increased support.

I have to record the Council's thanks for the substantial amount of £2,000 which was last year voted by the Government towards the redemption of debentures owing by this University. The balance of these debentures now stands at £8,000, and the Council trusts that such provision may be made as will enable the whole of this amount to be liquidated in the very near future.

I have, &c.,

ANDREW CAMERON, Chancellor.

The CHAIRMAN OF THE PROFESSORIAL BOARD, to the CHANCELLOR, OTAGO UNIVERSITY.

SIR,—

I have the honour to report, on behalf of the Professorial Board, in regard to the conduct and work of the University during the year ending 31st March, 1913.

Attendance: The Registrar has kindly supplied me with statistics as to the number of students who attended lectures in the various departments during the past year:—

	Men.	Women.	Total.	1911.
Arts .. .. .	128	95	223	248
Science .. .. .	20	6	26	50
Law .. .. .	40	..	40	14
Commerce .. .. .	46	..	46	..
Medicine .. .. .	112	9	121	108
Dental .. .. .	10	1	11	10
Engineering .. .. .	2	..	2	..
Mining .. .. .	14	..	14	14
Home science .. .. .	..	30	30	27
Totals .. .. .	372	141	513	471

Of these, 18 men and 7 women were graduates, 82 men and 31 women were not matriculated.

The increase of 42 students shown in the above table is obviously due to the large number of students in accountancy and law, for the number of students in science and arts decreased by 49. This decrease is probably due to the higher standard of the Matriculation Examination.

Academic results: The following table shows the number of students who passed examinations for the various degrees during the academic year compared with the number who gained the corresponding degrees in the three previous years:—

	1912.	1911.	1910.	1909.
D.Sc. .. .. .	..	1	1	..
M.D. ... .. .	2	2	1	3
M.A. ... .. .	11	15	13	3
M.Sc. ... .. .	5	3	2	1
B.A. ... .. .	23	25	17	22
B.Sc. ... .. .	3	7	3	6
LL.B. ... .. .	2	4	4	2
M.B. ... .. .	14	10	11	12
B.D.S. ... .. .	2	1	3	..
B.E. ... .. .	2	..	..	..
	64	68	55	49

Though the total as shown in this table is slightly less than that of the preceding year, it is quite satisfactory as showing that there is evidence of continued work and activity in every department of University study.

The detailed results are set forth below :—

Doctor of Medicine : McBride, Leonard Hugh, University of Otago ; Watt, Michael Herbert, University of Otago.

Master of Arts with Honours : Adams, H. S., second class in mental science ; Curzon-Siggers, W. A., first class in languages and literature (Latin and Greek) ; Horton, Dorothy E., second class in languages and literature (English and French) ; Kennedy, Jemima, third class in language and literature (Latin and English) ; Loudon, Agnes L., second class in languages and literature (English and French) ; Marwick, J., first class in natural science (geology) ; Miles, F. F., first class in languages and literature (English and French), also first class in mathematics and mathematical physics ; Mills, Mary M., third class in languages and literature (Latin and German) ; Parr, C., first class in mental science ; Uttley, W. M., second class in mental science ; Wright, W., third class in mental science.

Master of Science with Honours : Alexander, W. A., first class in natural science (geology), also second class in physical science (heat) ; Colquhoun, J. A., third class in physical science (electricity) ; Hercus, E. O., first class in mathematics and mathematical physics, also second class in physical science (electricity) ; Robertson, G. H., second class in chemistry (physical) ; Stuart, W. A., second class in physical science (heat), also second class in physical science (electricity).

Senior Scholars : Thompson, James—in French ; Wilkinson, Frank Howitt—in mental science.

John Tinline Scholar : Adamson, Frank Forrester.

Rhodes Scholar : Miles, Frederick Fisher.

Bachelors of Arts : Adamson, Frank Forrester ; Borrie, Agnes ; Connell, Richard Patrick ; Copland, Catherine ; Cullen, Patrick Francis ; Dempster, Norman Harrison ; Fyfe, Laura Henderson ; Learmonth, Ivy Annie ; MacDiarmid, Donald Neil ; Mawson, Joseph Bibby ; Miller, Mabel Isabel ; Miller, Ronald ; McCarthy, Claude ; McKenzie, William Henry Purvis ; McLaughlin, Daniel ; Ongley, Patrick Augustine ; Partridge, Ernest ; Skinner, Henry Devenish ; Smith, Cecil McLean ; Thompson, James ; Vickery, Elsie Elizabeth Alice ; Watt, Mary Shand ; Wilkinson, Frank Howitt.

Bachelors of Science : Isdale, George Brownlee ; Moore, John Alexander, M.A. ; Samuel, Margaret.

Bachelors of Law : Houston, John ; Paterson, James Moir, M.A.

Bachelors of Medicine and of Surgery ; Brookfield, Athol William Purchas ; Evans, Arthur Owen ; McCaw, William Cuthbert ; Thomas, William Howard ; Thompson, Leslie Joseph ; Widdowson, Eric Arthur ; Sinclair, David Livingstone ; Pettit, Thomas Harold ; Sowerby, William ; Baigent, Cyril Victor Atmore ; Matheson, Dugald George ; Woodward, Kenneth Isaac ; Mitchell, James arfield ; Buddle, Roger.

Bachelors of Dental Surgery : Suckling, Horace Edwin ; Saunders, John Llewlyn.

Bachelor of Science in Engineering (Metallurgical) ; Henderson, John, D.Sc.

Bachelor of Engineering (Mining) : McDouall, Phillip Hastings.

Winners of Otago University scholarships and prizes : McGregor Prize—Connell, Richard Patrick. Beverly Entrance Scholarship—Fraser, Hugh Ross. Beverly Scholarship in Advanced Physics—Stuart, William Alexander. Sir George Grey Scholarship—Bastings, Lyndon. Beverly Scholarship for Junior Physics—Cody, Walter Thomas. James Clark Prizes—Latin, Curzon-Siggers, William Arthur ; English, Miles, Frederick Fisher ; mental science, Fleming, James John William. Ulrich Memorial Prize—Marwick, John.

There are few special features in this list, though reference must be made to F. F. Miles, who gained double first-class honours in mathematics and English and French. It is also satisfactory to record that the Rhodes Scholarship for 1912 was won by this graduate. This is the fourth time that the Rhodes Scholarship has been gained by an Otago student. Another feature is the small number of senior scholars this year—the lowest for many years—and it will therefore be reasonable to expect a small honours list next year.

Buildings : It is with satisfaction that the Board notes that the new class-rooms are now almost completed, and that they will be ready for occupation during this session. The use of these class-rooms will allow of all the classes being held in the University buildings, and will tend to further unite the different departments of University work.

Discipline : The behaviour and conduct of the students throughout the year was extremely satisfactory, and I have great pleasure in acknowledging the sympathetic co-operation of the executive of the Students' Association in all those matters where the interests of the students were at stake.

During the session the Chief Inspector of Schools consulted with the Board in regard to the most pressing needs of the University. Many of the matters that were suggested are now set forth in the report of the Inspector, which was presented to Parliament, and the Board hopes that it may be possible to give effect to the recommendations contained in this report.

I have, &c.,

P. MARSHALL, Chairman of the Professorial Board.

#### THE MEDICAL SCHOOL.—REPORT OF THE ACTING-DEAN (DR. J. MALCOLM).

The number of students in the Medical School during 1912 was 121. The numbers entering continued to increase, and now average nearly 30 a year in the first three years.

Eight candidates passed the final examination for the degree of M.B., Ch.B., in January, 1913, and 2 in the previous July, making a total of 10 for the year. Nearly all the larger hospitals in the Dominion are officered by these and the men of the previous year.

The travelling scholarship awarded annually by the New Zealand University was awarded to William Sowerby, M.B., Ch.B., this year.

During the winter the University was visited by Mr. Hogben, Inspector-General of Schools, who inquired into the financial position and requirements of the University. In his report to the Minister of Education Mr. Hogben emphasizes the need for increased expenditure on buildings, equipment, and salaries for the Medical School, and states that the sum of £11,000 is required for buildings, and recommends an increased expenditure on salaries up to £1,350 a year.

In April of this year, on the recommendation of the faculty of medicine, the Senate of the New Zealand University agreed to grant a diploma in public health, and it is hoped that steps will soon be taken to set up courses of instruction for this diploma.

Various minor changes in the classes have been made. It was decided to hold the summer session later in the year so as to begin about the 20th January and end in the first week of April. The class of midwifery which is to be held this winter will occupy the first half of the winter session, while medical jurisprudence will meet in the second half at the same hour.

The need for increased accommodation in the practical rooms has become more acute than ever, and it is hoped that before another year passes something will be done to remedy the present state of affairs.

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#### THE DENTAL SCHOOL.—REPORT OF THE DIRECTOR (PROFESSOR H. P. PICKERILL, M.D., M.D.S.).

During the past year 14 students have been in attendance at the Dental School; of these 10 were degree students and 4 were taking the six months' post-graduate course. Two students completed their course and passed the final examination for the B.D.S. degree last January.

The usual courses of lectures have been given. The special lectures on medicine for dental students are a great advantage, and the suggestion in my last annual report that special lectures should also be held in anatomy and physiology has to some extent now been met by Dr. Malcolm's arranging to divide his course into junior and senior ones.

The Senate of the New Zealand University has sanctioned the reduction of the time to be spent at this school in acquiring a knowledge of prosthetic dentistry from three years to two, the reduction to be made at the discretion of the Principal. This provision will, I think, operate favourably for good students, and will prove an incentive for the less energetic ones. During the past year the students' fees for clinical dental surgery have been allocated to the honorary staff; but in return they have generously donated a sum of about £50 to the Dental Hospital, and it is hoped that, according to precedent elsewhere, the Government will pay the usual subsidy on this amount.

This year, for the first time since its foundation, the Dental Hospital has received some support from the public through the Hospital and Charitable Aid Board. The latter body, after considerable discussion, decided to make a subsidy of £200 per annum, and paid the first instalment of £100. I think it is regrettable that the terms of the contribution—especially the return of 10 per cent. of all fees—should be so stringent, more particularly having regard to the large sum which the University is saving the Board from expending in dental treatment, such as the Boards in Auckland, and Christchurch have undertaken, and Wellington is about to. A comparison of the clinical work of the Hospital for the five months during which the Hospital Boards' regulations have been in force with a similar period during the previous twelve months shows a falling-off of 300, or 31 per cent., in the number of operations, of 30 per cent. in the number of fresh patients, and of 14 per cent. in patients' attendances.

The following is a summary of the clinical work of the Hospital for the past twelve months: Number of patients' attendances, 3,790; number of fresh patients, 397; number of patients on book to date, 2,837. Filling operations: Gold, 80; plastic, 458; root canal treatments, 221. Anæsthetic cases operations: Artificial dentures, 179; crowns, 25 bridges, 12. Total number of operations, 2,120.

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#### THE SCHOOL OF HOME SCIENCE.—REPORT OF THE DIRECTOR (PROFESSOR BOYS-SMITH).

The entry of the students for the work of the new session is a very encouraging one. Although we have only completed one summer and two winter sessions—so that the work is still in its infancy—we have 48 students on our books. Of these, 9 are working for the degree in home science, 19 for the full diploma; and the remainder are either taking "group courses" (*i.e.*, a group of correlated subjects—for instance, chemistry, the application of chemistry to cookery, and practical cookery) or single courses of lectures with practical work.

No student has yet had time to complete the three-years course for the degree; but the first two students who entered for it in April, 1911, have passed in all their subjects up to the present time, and will, we hope, be entitled to a degree after passing the "final examination" in November next. Professor Smithell's report on their work in applied chemistry is very satisfactory. I cannot at the moment quote from it, as it is still in the hands of the Registrar of the New Zealand University; but in a private letter to myself written from Leeds University on the 28th February he says, "I was very much pleased with the examination papers, showing the work done in applied chemistry, and must congratulate you and Miss Rawson on the result." The Council shall see the full report at a later date.

The first student who started work for the diploma in 1911 has completed the course, and is now entitled to the diploma in home science, which will shortly be awarded. The two other students who began the course at the same date decided to spread their work over three years; consequently they will not enter for their final examination until October next.

The practical courses in cookery, laundry-work, and housewifery have been well attended, a large number of outside students having joined the practical classes above mentioned.

We were hampered in our work during the summer session (from January to March, 1913) owing to the lack of a properly equipped laundry in which to carry out the practical side of the laundry-work. Nevertheless, the standard of the work turned out was a high one, and the students showed a keen interest in the problems connected with the removal of stains: the use and abuse of the various detergents used in laundry-work the means taken to prevent shrinkage; and the fading of the colours of materials during the process of washing, drying, and ironing; and some very creditable work was done in the final examinations.

Before next summer session it will be necessary to build our model kitchen and laundry, and it is hoped that the hall of residence for the home-science students (in which much of the practical work will be carried out, including the housewifery) will be open before the winter session of 1914.

The needlework course proved so useful last year that 23 students have entered for it this session. Next year we shall obviously have to duplicate the classes, and I propose to hold a junior and a senior course, so that external students can attend for two successive years, if they wish to become still more efficient in this art. The dressmaking class produced some very satisfactory results.

The results of the examinations held in October and November last were as follows: For the degree of Bachelor of Science, in home science 2 students gained second-class passes in applied chemistry, and in household economics, Part I, and first-class passes in organic chemistry. Two passed the Intermediate Medical Examination in chemistry, and 2 in physics. All of these gained their practical certificates in the above subjects. For the diploma the results were as follows: Needlework—in Class I, 3 students; Class II, 2 students; Class III, 1 student. Business affairs—Class I, 2 students; Class II, 2 students; Class III, 3 students. English—Class II, 1 student; Class III, 3 students. Physics—Class I, 1 student; Class II, 2 students; Class III, 2 students. Practical laundry-work and housewifery—Class I, 2 students; Class II, 4 students. Theory of laundry-work and housewifery—Class I, 2 students; Class II, 4 students. Practical cookery—Class I, 1 student; Class II, 3 students. Inorganic chemistry—Class I, 1 student; Class II, 3 students; Class III, 2 students. Physiology—Class I, 2 students. Applied chemistry, Part I—Class II, 2 students. Applied chemistry, Part II—Class II, 4 students; Class III, 1 student.

#### SCHOOL OF MINES.—REPORT OF THE DIRECTOR.

(Professor JAMES PARK, M.Inst.M.M., M.A., I.M.E., F.G.S.).

The Mining School for the session of 1912 showed an attendance of 30 students, of whom 14 were entered for the full associate courses and 1 for the surveying course, the remaining 15 attending the classes in geology.

During the year there was a greater demand for young graduates to fill posts as mine-surveyors and mine officials than in any previous year, and it was a matter for regret that the supply was unequal to the demand. Among the more important appointments secured by old students with some years of experience behind them were the following:—

- (1.) G. W. Thomson, A.O.S.M., general manager, Pearl Lake Gold-mines (Limited), Porcupine, Ontario.
- (2.) E. Fletcher Roberts, A.O.S.M., consulting engineer, Vincent County Council.
- (3.) Cyril Gudgeon, general manager, Gold and Scheelite Company (Limited), Macrae's Flat, Otago.
- (4.) H. Lovell, Director, Westport School of Mines.
- (5.) U. B. Inglis, A.O.S.M., Director, Coromandel School of Mines.
- (6.) S. Napier-Bell, A.O.S.M., general manager, Nigeria Mines (Limited), Northern Nigeria.
- (7.) Herbert Black, A.O.S.M., general manager, Sifwi Mines, Gold Coast, West Africa.
- (8.) F. W. Thomas, A.O.S.M., assistant manager, A'Koon Mines (Limited), West Africa.
- (9.) A. Barron, A.O.S.M., assistant manager, Nigeria Mines (Limited), Northern Nigeria.
- (10.) O. Gore Adams, A.O.S.M., general manager, Porko Tin-mines (Limited), Bolivia.
- (11.) A. M. Finlayson, D.Sc., A.O.S.M., chief mining geologist, Burma Oil Company, Rangoon.

Mr. John McKinlay passed the examinations of the New Zealand Board of Examiners, and obtained his diploma as a licensed surveyor.

Laboratory: During 1912 the number of samples of ores and minerals forwarded by the public for examination and valuation by assay or analysis was 148. The samples comprised ores of copper, iron, tungsten, limestones, gold-bearing quartz, bullion, &c. The bulk of the determinations were for gold.

## ACCOUNTS AND BALANCE-SHEETS.

## STATEMENT OF CASH RECEIPTS AND EXPENDITURE FOR THE YEAR ENDING 31ST MARCH, 1913.

<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
To Balance, 31st March, 1912 ..		1,172	13	5	By Bank commission and charges ..		4	14	6
Donation to Library by Medical Association ..		10	0	0	Water, light, and fuel ..		379	18	10
City Council—Donations to Museum ..		75	0	0	Insurance ..		86	15	9
Sale of cyanide plant ..		20	0	0	Equipment and apparatus ..		587	6	1
Donation from Otago Law Society ..		100	0	0	New works and additions ..		388	15	2
Grants from Beverly Trust Account—					Interest on University debentures ..		500	0	0
Salaries ..		368	0	0	Law costs ..		4	17	0
Library ..		66	17	11	Architect's commission on plumbing and drainage contracts ..		38	14	1
Advertising ..		0	12	0	Technical School, conducting physics class for home science ..		20	0	0
Donations to Home Science—					Use of North Dunedin Technical School for cookery class ..		100	0	
Mr. J. Studholme ..		300	0	0	Expenses (various) ..		297	14	6
Citizens' Committee ..		200	0	0	Library ..		328	9	5
Capitation, Home Science School ..		82	16	0	Materials and renewals of stock ..		630	14	7
Interest on investments ..		642	13	9	Repairs ..		335	15	4
Hospital Board payment of quarter of salary of A. Logan ..		44	5	5	Printing, advertising, and stationery ..		244	16	10
Donation of New Zealand Society of Accountants ..		100	0	0	Fees paid to professors and lecturers ..		3,854	17	0
Proceeds, "Open Night," School of Mines ..		2	11	0	Government grant (£500) interest transferred to Building Fund Account ..		515	0	0
Sale of calendars ..		0	18	6	Government commission on rents ..		142	6	5
Sales of bottles, cases, &c. ..		8	5	6	Payment in reduction of debentures ..		2,000	0	0
Payment of T. W. Rutherford on account of damaged motor ..		10	0	0	Salaries ..		12,936	19	0
Donation of honorary dental staff ..		48	12	0					
Students' fees ..		6,327	10	6					
Dental patients' fees ..		339	16	3					
Hospital Board subsidy for Dental School ..		100	0	0					
Presbyterian Church Board ..		1,800	0	0					
Government grants—									
Specialization ..		2,000	0	0					
Subsidy on donation to home science ..		500	0	0					
Subsidy of donation, Society of Accountants ..		100	0	0					
Mining School grant ..		500	0	0					
Grant for redemption of debentures ..		2,000	0	0					
Goldfields revenue ..		71	9	6					
Timber licenses ..		19	5	3					
Rents—Benmore ..		3,000	0	0					
" 79C, Barewood ..		16	19	6					
" Museum reserve ..		400	0	0					
" Education Board ..		0	5	0					
" Professors' houses ..		255	0	0					
" Castle Street ..		267	0	0					
" Burwood and Mararoa ..		1,300	0	0					
" Forest Hill ..		56	13	4					
" Barewood ..		900	0	0					
Balance of current account, 31/3/13 ..		1,444	9	10					
Less outstanding cheques ..		1,634	19	6					
Overdraft ..		190	9	8					
		<u>£23,397</u>	<u>14</u>	<u>6</u>			<u>£23,397</u>	<u>14</u>	<u>6</u>

H. CHAPMAN, Registrar.

Examined and found correct.—R. J. COLLINS, Controller and Auditor-General.

## BALANCE-SHEET OF THE UNIVERSITY OF OTAGO, 31ST MARCH, 1913.

<i>Liabilities.</i>		£	s.	d.	<i>Assets.</i>		£	s.	d.
Capital Accounts—					Due by Mrs. Leask's Trust ..		4	17	8
Sales of property ..		3,801	14	9	Hospital Board, one-fourth A. Logan's salary for quarter ending 31st March, 1913 ..		13	0	5
Dunedin Savings-bank ..		6,500	0	0	Fees due by New Zealand University ..		97	2	6
Subscribed Fund ..		2,249	0	0	Treasury grant, School of Mines, due ..		250	0	0
Wolff Harris Endowment ..		2,100	0	0	Professors' houses (rents) ..		45	0	0
Mrs. Lothian's Bequest ..		600	0	0	Stock Exchange debentures ..		1,800	0	0
Beverly Trust Account ..		3	4	10	Dunedin City Tramway debentures ..		2,400	0	0
Home Science School ..		772	3	5	New Zealand Government debentures ..		10,000	0	0
Hospital Board, one-tenth part of dental fees for six months, ending 31st March, 1913 ..		15	13	4	Borough of Mornington debentures ..		700	0	0
Fees due to professors held over ..		187	8	6	Dunedin City Tramway debentures ..		289	9	0
Bank account overdrawn ..		190	9	8	Arts and General Account ..		827	14	11
Income Tax Department, 2½ per cent. of Professor Sale's salary ..		7	10	0					
		<u>£16,427</u>	<u>4</u>	<u>6</u>			<u>£16,427</u>	<u>4</u>	<u>6</u>
Debentures owing by University ..		£8,000	0	0					

## STATEMENT SHOWING HOW THE CAPITAL ACCOUNTS ARE INVESTED. 31ST MARCH, 1913.

Trust	Amount.	Dunedin Stock Exchange, 4½ per Cent.	Dunedin City Trams, 4 per Cent.	Dunedin City Trams, 4½ per Cent.	Government Debentures, 4 per Cent.	Mornington Trams, 4½ per Cent.	Unin- vested.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Sale of property ..	3,801 14 9	1,800 0 0	689 9 0	..	600 0 0	700 0 0	12 5 9
Dunedin Savings- bank	6,500 0 0	..	..	..	6,500 0 0	..	..
Subscribed fund ..	2,249 0 0	..	..	..	2,200 0 0	..	49 0 0
Wolf Harris Trust	2,100 0 0	..	..	2,000 0 0	100 0 0	..	..
Mrs. Lothian's Trust	600 0 0	..	..	..	600 0 0	..	..
	15,250 14 9	1,800 0 0	689 9 0	2,000 0 0	10,000 0 0	700 0 0	61 5 9

## ARTS AND GENERAL.

<i>Receipts.</i>		£ s. d.	<i>Expenditure.</i>		£ s. d.
To Balance, 31st March, 1912 ..	..	49 2 10	By Bank charges ..	..	4 14 6
Donation, New Zealand Society of Accountants ..	..	100 0 0	Interest on debentures ..	..	500 0 0
Subsidy on above ..	..	100 0 0	Law-costs ..	..	4 17 0
Goldfields revenue ..	..	71 9 6	Government commission on rents ..	..	142 6 5
Timber licenses ..	..	19 5 3	Water, light, and fuel ..	..	120 6 8
Rent, Benmore ..	..	3,000 0 0	Insurance ..	..	20 18 0
.. 79c, Barewood ..	..	16 19 6	Printing, advertising, and stationery ..	..	163 9 2
.. Professors' houses ..	..	240 0 0	Repairs ..	..	246 9 10
.. Castle Street ..	..	267 0 0	Equipment and apparatus ..	..	250 6 4
.. Barewood and Mararoa ..	..	1,300 0 0	Insurance, professors' houses ..	..	5 6 8
.. Forest Hill ..	..	56 13 4	Repairs to professors' houses ..	..	12 3 2
.. Barewood ..	..	900 0 0	New works and additions ..	..	316 10 4
Interest on investments ..	..	533 13 9	Expenses ..	..	209 15 3
Donation, Otago Law Society ..	..	100 0 0	Library ..	..	146 14 0
Sale of calendars ..	..	0 18 6	Materials and renewals ..	..	118 13 6
Students' fees ..	..	2,779 14 0	Fees paid out ..	..	1,777 13 0
Presbyterian Church Board ..	..	1,800 0 0	Salaries ..	..	5,107 17 2
Balance ..	..	827 14 11	Balance, Mining School ..	..	90 4 7
			.. Dental School ..	..	336 9 1
			.. Medical School ..	..	2,355 1 10
			.. Museum ..	..	232 15 1
		£12,162 11 7			£12,162 11 7

## SCHOOL OF MINES.

<i>Receipts.</i>		£ s. d.	<i>Expenditure.</i>		£ s. d.
To Government specialization grant ..	..	250 0 0	By Water, light, and fuel ..	..	48 8 4
.. annual grant ..	..	500 0 0	Insurance ..	..	5 0 1
.. special grant ..	..	250 0 0	Printing, advertising, and stationery ..	..	17 1 10
Proceeds "open night" ..	..	2 11 0	Repairs ..	..	5 12 0
Students' fees ..	..	187 14 6	Equipment and apparatus ..	..	35 13 10
Balance carried to Arts and General ..	..	90 4 7	Expenses ..	..	14 14 0
			Library ..	..	0 16 0
			Materials and renewals ..	..	27 10 9
			Fees paid out ..	..	28 7 0
			Salaries ..	..	1,097 6 3
		£1,280 10 1			£1,280 10 1



## DENTAL SCHOOL.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
To Specialization grant .. ..	500	0 0	By Water, light, and fuel .. ..	68	11 3
Donation of honorary staff .. ..	48	12 0	Insurance .. ..	4	17 8
Students' fees .. ..	339	6 0	Printing, advertising, and stationery ..	27	13 10
Patients' fees .. ..	324	2 11	Repairs .. ..	7	13 1
Hospital Board, subsidy .. ..	100	0 0	Equipment and apparatus .. ..	2	9 7
Balance carried to Arts and General Account .. ..	336	9 1	New works and additions .. ..	6	17 0
			Expenses .. ..	30	19 5
			Materials and renewals .. ..	194	8 7
			Fees paid out .. ..	135	4 6
			Salaries .. ..	1,169	15 1
	<u>£1,648</u>	<u>10 0</u>		<u>£1,648</u>	<u>10 0</u>

## MEDICAL SCHOOL.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
To Donation Medical Association for library ..	10	0 0	By Water, light, and fuel .. ..	114	10 5
Specialization grant .. ..	1,250	0 0	Insurance .. ..	13	15 6
Interest on Wolff Harris Endowment ..	94	0 0	Printing, advertising, and stationery ..	11	11 11
Students' fees .. ..	2,751	17 0	Repairs .. ..	24	14 0
Fees due by N.Z. University .. ..	97	2 6	Equipment and apparatus .. ..	142	15 1
Balance carried to Arts and General Account .. ..	2,355	1 10	New works and additions .. ..	49	8 4
			Expenses .. ..	26	18 2
			Library .. ..	117	6 4
			Materials and renewals .. ..	228	16 9
			Fees paid out .. ..	1,840	2 6
			Salaries .. ..	3,800	13 10
			Fees held over .. ..	187	8 6
	<u>£6,558</u>	<u>1 4</u>		<u>£6,558</u>	<u>1 4</u>

## MUSEUM.

<i>Receipts.</i>			<i>Expenditure</i>		
	£	s. d.		£	s. d.
To Donation City Council .. ..	75	0 0	By Water, light, and fuel .. ..	19	9 5
Rent, Museum Reserve .. ..	400	0 0	Insurance .. ..	17	0 6
Rent, Education Board .. ..	0	5 0	Printing, advertising, and stationery ..	4	9 7
Refund by Dr. Benham .. ..	8	0 0	Repairs .. ..	28	2 4
Balance carried to Arts and General Account .. ..	282	15 1	Equipment and apparatus .. ..	0	12 6
			Insurance on Hooker Wing .. ..	15	15 0
			New works and additions .. ..	8	8 10
			Expenses .. ..	21	8 8
			Materials and renewals .. ..	5	13 3
			Salaries .. ..	595	0 0
	<u>£716</u>	<u>0 1</u>		<u>£716</u>	<u>0 1</u>

## SCHOOL OF HOME SCIENCE.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
To Balance 31st March, 1912 .. ..	634	7 8	By Water, light, and fuel .. ..	8	12 9
Contributions —			Insurance .. ..	4	2 4
Mr. J. Stueholme .. ..	300	0 0	Printing, advertising, and stationery ..	19	18 6
Citizens Committee .. ..	200	0 0	Repairs .. ..	1	0 11
Subsidies on above contributions .. ..	500	0 0	Equipment and apparatus .. ..	143	8 9
Government capitation .. ..	82	16 0	New works .. ..	7	10 8
Students' fees .. ..	212	5 0	Education Board, use of kitchen at Dunedin North Technical School ..	100	0 0
			Technical School for class in physics ..	20	0 0
			Expenses .. ..	32	13 1
			Materials and renewals .. ..	47	6 3
			Fees paid to professors .. ..	12	12 0
			Salaries .. ..	760	0 0
			Balance .. ..	772	3 5
	<u>£1,929</u>	<u>8 8</u>		<u>£1,929</u>	<u>8 8</u>

THE BEVERLY TRUST.

<i>Receipts.</i>			<i>Expenditure.</i>	<i>£ s. d.</i>
To Balance 31st March, 1912	..	..	By Grants for salaries .. .. .	368 0 0
Trustees' Executors Company, on account of income	..	..	" for library .. .. .	66 17 11
Interest on fixed deposit	..	..	" for scholarships .. .. .	160 0 0
			Sundry expenses .. .. .	1 2 0
			Balance—	
			Fixed deposit .. .. .	668 15 0
			Current account .. .. .	426 0 4
		<u>£1,690 15 3</u>		<u>£1,690 15 3</u>

BUILDING FUND ACCOUNT.

<i>Receipts.</i>			<i>Expenditure.</i>	<i>£ s. d.</i>
To Mrs. Oliver's donation	..	..	By Fletcher Bros., progress payments	1,874 0 0
Students' building fund, per C. G. White	..	..	Wood and McCormack .. .. .	1,900 0 0
Government subsidies	..	..	Anscombe and Coombs, commission	465 13 9
Interest on fixed deposit	..	..	D. Thomson, salary .. .. .	116 0 0
			Bank charge .. .. .	0 10 0
			Balance—	
			Current account as per pass-book .. .. .	1,215 2 4
			Less cheque outstanding .. .. .	20 0 0
			Fixed deposit .. .. .	1,195 2 4
		<u>£7,051 6 1</u>		<u>£7,051 6 1</u>

SCHOLARSHIP AND PRIZE FUND ACCOUNT, 31ST MARCH, 1913.

Trust.	Balance, 31st March, 1912.		Interest.	Total.		Payments (Scholarships, &c.).	Bank Charge.	Balance, 31st March, 1913.		
	£ s. d.	£ s. d.		£ s. d.	£ s. d.			Capital.	Income.	Total.
Richardson	930 4 1	44 5 1	974 9 2	30 0 0	2 6	915 2 3	29 4 5	974 9 2		
Walter Scott	360 10 2	16 12 5	377 2 7	..	0 11	353 9 11	23 11 9	377 2 7		
Taieri	418 19 4	18 4 11	437 4 3	..	1 0	413 16 8	23 6 7	437 4 3		
Macandrew	1,057 4 10	47 7 2	1,104 12 0	..	2 6	1,043 7 6	61 2 0	1,104 12 0		
Women's	663 2 2	31 2 3	694 4 5	25 0 0	1 10	646 19 5	22 3 2	694 4 5		
Stuart	114 12 8	4 14 9	119 7 5	..	0 3	110 0 0	9 7 2	119 7 5		
Ulrich	86 3 9	2 19 2	89 2 11	4 14 0	0 3	77 13 11	6 14 9	89 2 11		
Parker Memorial	50 0 0	1 17 10	51 17 10	..	0 2	50 0 0	1 17 8	51 17 10		
Macgregor	135 12 10	6 5 10	141 18 8	5 0 0	0 5	131 19 4	4 18 11	141 18 8		
Leask	50 18 3	1 6 8	52 4 11	..	0 2	50 0 0	2 4 9	52 4 11		
	<u>3,867 8 1</u>	<u>174 16 1</u>	<u>4,042 4 2</u>	<u>64 14 0</u>	<u>10 0</u>	<u>3,792 9 0</u>	<u>184 11 2</u>	<u>4,042 4 2</u>		

STATEMENT SHOWING THE POSITION OF THE SCHOLARSHIP TRUST FUNDS, 31ST MARCH, 1913.

Fund.	Amount.	Mornington Trams, 4½ per Cent.	Stock Exchange, 4½ per Cent.	Dunedin City Trams, 4 per Cent.	Dunedin City Trams, 4½ per Cent.	Borough of South Dunedin, 4 per Cent.	Otago Harbour Board, 4½ per Cent.	Uninvested
Richardson Trust	944 6 8	53 7 10	769 14 5	..	..	82 0 0	10 0 0	29 4 5
Walter Scott Trust	377 1 8	18 9 11	285 0 0	..	..	40 0 0	10 0 0	23 11 9
Taieri Trust	437 3 3	48 15 6	267 12 2	..	..	67 9 0	30 0 0	23 6 7
Macandrew Trust	1,104 9 6	93 13 4	722 14 2	..	..	177 0 0	50 0 0	61 2 0
Women's Trust	669 2 7	47 4 3	554 15 2	..	..	45 0 0	..	22 3 2
Stuart Trust	119 7 2	..	..	..	100 0 0	10 0 0	..	9 7 2
Ulrich Trust	84 8 8	13 13 11	..	50 0 0	..	14 0 0	..	6 14 9
Parker Trust	51 17 8	..	..	50 0 0	..	..	..	1 17 8
Macgregor Trust	136 18 3	24 15 3	100 4 1	..	..	7 0 0	..	4 18 11
Leask Trust	52 4 9	..	..	..	..	50 0 0	..	2 4 9
	<u>3,977 0 2</u>	<u>300 0 0</u>	<u>2,700 0 0</u>	<u>100 0 0</u>	<u>100 0 0</u>	<u>492 9 0</u>	<u>100 0 0</u>	<u>184 11 2</u>

Cash in bank, £184 11s. 2d.

DENTAL SCHOOL BUILDING ACCOUNT, 31ST MARCH, 1913.

<i>Receipts.</i>			<i>Expenditure.</i>	<i>£ s. d.</i>
To Interest on overdraft reversed	..	..	By Balance 31st March, 1912 .. .. .	560 3 11
Balance	..	..	Bank charge .. .. .	0 10 0
		<u>£560 13 11</u>		<u>£560 13 11</u>
			Balance, overdraft .. .. .	£560 5 5

## F. REPORT OF CANTERBURY AGRICULTURAL COLLEGE, 1912.

(The Canterbury College and Canterbury Agricultural College Act, 1896.)

*Visitor.*—His Excellency the Governor.*Board of Governors.*

Appointed by His Excellency the Governor—J. Rennie, Esq.

Elected by members of the Legislature—Hon. E. C. J. Stevens (Chairman); M. Murphy, Esq., F.L.S.; and H. A. Knight, Esq.

Elected by governing bodies of agricultural and [pastoral associations—J. Deans, Esq.; T. Blackley, Esq.; and R. Rhodes, Esq.

*Staff.**Director.*—R. E. Alexander.*Lecturer on Veterinary Science.*—A. Taylor, M.A., M.R.C.V.S.*Lecturer on Chemistry.*—G. Gray, F.C.S.*Lecturer on Biology.*—F. W. Hilgendorf, M.A., D.Sc.*Lecturer on Applied Mathematics.*—H. M. Budd, M.Sc.

## REPORT.

SIR,—

I have the honour, by direction of the Board of Governors, in pursuance of the Canterbury College and Canterbury Agricultural College Act, 1896, to submit the following report on the work of the institution for the year ending 31st December, 1912:—

The attendance of students was maintained at the limit of accommodation throughout the year, and altogether 54 students were enrolled, the same number as last year. I am glad to be able to report that the progress of the students in residence in 1912 was on the whole most satisfactory both as regards the general interest taken in their studies and the practical work on the farm. I might make special reference to the reports of the examiners on the work of the diploma students, which was generally classed as excellent. As in previous years, a number of students took part in the judging competitions for young farmers, promoted by the Agricultural and Pastoral Association at their November show, and among a large number of competitors the students won a large proportion of the prizes.

Twenty-eight students left the College during the year: of these, 4 had been one year at the College, 11 two years, 4 almost three years, and 9 completed the full course and were awarded diploma special prizes. Their names and addresses are as follows: A. D. Anderson, Invercargill; M. J. Thomson, Dunedin; R. J. Low, Ashburton; W. A. Yardley, Southland; T. A. Carroll, Napier; M. J. Meehan, Makikihi; G. B. Chrystall, Christchurch; C. L. Mathias, Timaru; G. H. Holford, Christchurch.

A number of public bodies and friends of the College, including the Ashburton Agricultural and Pastoral Association, Messrs. G. W. R. Osborne, Leonard White, Messrs. Pyne and Co., Messrs. Booth, Macdonald, and Co., Lincoln College Old Boys' Association, a number of Rakaia farmers, and others, have presented the College with very valuable trophies to be given as prizes to the students. These gifts are very much appreciated by both staff and students, as they stimulate a very wholesome spirit in the general work of the College.

Experimental work: Satisfactory progress has been made with the wheat and oats breeding experiments. It is not possible to give reliable comparative results from the small areas grown, but the general appearance of the growing crops was most favourably commented on by the large gathering of farmers on Farmers' Day, and the estimated yields are also most satisfactory from our point of view. We hope next season to have 25 acres of wheat grown from selected seed. A test of the feeding and yielding qualities of varieties of oats was carried out with very instructive results.

The College and farm buildings have been kept in a good state of repair. An electric lighting and power plant has been installed at a cost of £1,800. The plant consists of an 18 horse-power Belliss-Morcom kerosene engine coupled to a Westinghouse dynamo, from which light and power can be obtained direct or run in to a Tudor battery with fifty-eight cells. The College is lighted throughout with metallic filament lamps. This addition to the equipment adds to the comfort of the students, and certainly tends to make the College a more healthy residence, and at the same time reduces the risk of fire to a minimum. Power can also be transmitted from the dynamo or battery to a motor which drives the milking and pumping plant. Another motor has also been installed in the shearing-shed for driving the shearing-machines. This addition to the equipment will provide not only efficient light and power, but will also be most useful from an educational point of view to demonstrate the use and management of electric power on the farm. A motor-car has also been purchased at £500 for the use of the College, principally to secure a quicker means of communication with the lands at Ashley Dene and Siberia.

The College farm has been maintained at its high state of fertility. During the year some very high yields of oats and wheat were obtained, and this, taken together with the gross income as set forth on the balance-sheet, shows clearly that the farm is also being judiciously farmed. Every effort is made to run the farm on a commercial basis, so that the students may have the advantage of taking part in the work which is sure to be useful to them, and which at the same time they can see is reproductive.

The farm stock has also maintained its high level of merit. As an evidence of this, I append a list of prizes gained by the College stock at the Canterbury Agricultural and Pastoral Association's November show: Three champions, three reserve champions, nine first prizes, three second prizes, four third prizes, six V.H.C. tickets, and six H.C. and C. tickets.

The farm with its stock and crop was inspected by over 180 farmers invited to the College in the middle of December. Great interest was generally displayed in the work being carried on, especially in regard to the experimental work, and opinions were freely expressed to the effect that the College was fulfilling its object in that it was teaching the students the principles of scientific agriculture and showing how these could be applied to a farm run on a commercial basis.

The Hon. the Minister of Education.

I have, &amp;c.,

R. E. ALEXANDER, Director.

ACCOUNTS AND BALANCE-SHEET.

STATEMENT of RECEIPTS and EXPENDITURE FOR THE YEAR ENDING 31st DECEMBER, 1912.

		GENERAL ACCOUNT.			
<i>Receipts.</i>		£	s. d.	<i>Expenditure.</i>	
Balance, 31st December, 1911	.. ..	1,318	8 7	Salaries of staff	.. .. 1,819 14 8
Interest on capital	.. ..	780	0 0	Maintenance of students and staff	.. .. 2,244 14 0
Rent of reserves	.. ..	2,848	17 10	Farm wages (including £250, part of Director's salary)	.. .. 1,247 11 2
Sales of farm-produce				Purchases of live-stock—	
Wool and skins	.. ..	1,214	13 3	Sheep	.. .. 1,057 10 3
Dairy	.. ..	152	13 6	Horses	.. .. 4 10 8
Wheat	.. ..	646	0 6	Cattle	.. .. 16 0 6
Peas	.. ..	138	15 0	Pigs	.. .. 22 11 6
Oats, &c.	.. ..	457	3 2	Trade accounts (including sacks, dip, &c.)	415 5 5
Sales of live-stock—				Manures	267 16 5
Sheep	.. ..	2,577	3 8	Seeds	155 2 1
Cattle	.. ..	140	2 10	Implements—Purchases, repairs, &c.	332 15 9
Pigs	.. ..	191	4 0	Laboratories—Chemicals, drugs, instruments	124 7 9
Students' fees	.. ..	1,760	0 0	Contingencies (College)—Travelling expenses (staff), motor-car, and half farmers' luncheon	656 12 8
Maintenance of students and staff (including refunds for board of farm employees)	86 15 6			Orochard and grounds—Wages, shrubs, &c.	129 16 8
Trade accounts—Sales of sacks, &c.	38 6 0			Buildings—Repairs, &c.	183 11 4
Laboratories—Refunds and veterinary fees	59 5 6			Rates—Local and water rates	126 1 1
Farm wages—Refund	0 18 4			Insurance (College)—Buildings, and accountant's guarantee	58 7 0
Contingencies (farm)—Show prizes, &c.	39 16 4			Contingencies (farm)—Expenses of shows, &c.	65 5 2
Stationery—Sales and exchange	4 19 11			Farm fuel	9 1 7
Saddlery—Sale of kits	7 0 0			Permanent improvements—Labour, material, &c.	194 7 10
Students' books—Sales	41 0 5			Stationery, stamps, telegrams, telephonè, &c.	78 5 6
Electric-light installation—Refunds	1 14 5			Library—Books, periodicals, &c.	29 8 3
Prizes and certificates—Donations	7 14 6			Students' books—Purchases of books	25 13 0
Insurance College—Rebates	6 10 11			Students' travelling-expenses	66 6 4
Buildings—Window breakages, &c.	2 16 3			Travelling-expenses—Board of Governors	36 5 0
Insurance, farm—Rebates	4 11 0			Workshops—Wages and material	117 12 5
Implements—Refunds	2 5 6			Printing and advertising	24 19 3
Seeds—Refunds	0 6 0			Contributions to churches and sports	15 0 0
				Prizes and certificates	54 17 8
				Saddlery—Wages, material, &c.	73 11 11
				Scholarships	40 0 0
				Electric-light installation	1,692 12 5
				Farm-produce (railage)—	
				Dairy and wool	2 9 2
				Grain	4 9 0
				Rents of reserves—Lawyer's expenses	2 7 6
				Insurance—Farm	36 9 0
				Credit balance, 31st December, 1912	1,097 13 0
		<u>£12,529</u>	<u>2 11</u>		<u>£12,529</u>
					<u>2 11</u>

CAPITAL ACCOUNT.

		£	s. d.		
Balance, 1st January, 1912	.. ..	13,041	3 2	Labour and material on buildings	.. .. 41 3 2
				Balance, 31st December, 1912	.. .. 13,000 0 0
		<u>£13,041</u>	<u>3 2</u>		<u>£13,041</u>
					<u>3 2</u>

MORTGAGE ACCOUNT.

		£	s. d.		
Balance, 31st December, 1912	.. ..	13,000	0 0	Balance, 1st January, 1912	.. .. 13,000 0 0

STATEMENT OF BALANCES.

<i>Accounts.</i>		£	s. d.	<i>Bank and Investment.</i>		£	s. d.
Capital Account	.. ..	13,000	0 0	Credit balance Bank N.S.W.	£1,049 6 5		
General Account	.. ..	1,097	13 0	Less unrepresented cheques	185 5 6		
						864	0 11
				Cash in hand	.. ..	233	12 1
				Mortgage of freehold	.. ..	13,000	0 0
		<u>£14,097</u>	<u>13 0</u>			<u>£14,097</u>	<u>13 0</u>

R. E. ALEXANDER, Director.

Examined and found correct.—R. J. COLLINS, Controller and Auditor-General.

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