

1899.

NEW ZEALAND.

EDUCATION: THE CANTERBURY COLLEGE.

(“THE CANTERBURY COLLEGE AND CANTERBURY AGRICULTURAL COLLEGE ACT, 1896.”)

[In continuation of E.—8, 1898.]

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

Visitor.—The Minister of Education.

Board of Governors (Henry Richard Webb, F.R.M.S., Chairman).

Appointed by His Excellency the Governor—The Right Rev. John Joseph Grimes, D.D., Mr. John Jackson, and the Right Rev. Churchill Julius, D.D.

Elected by members of the Legislature—Hon. William Montgomery, M.L.C., Rev. William Morley, D.D., and Hon. Edward Cephas John Stevens, M.L.C.

Elected by graduates—Mr. William Chrystall, Rev. Canon Harper, M.A., Mr. George Gattonby Stead, Mr. Henry Richard Webb, F.R.M.S., Rev. Gordon Webster, M.A., and Mr. Richard Westera.

Elected by public school teachers—Mr. Charles Smith Howard, Mr. Thomas Hughes, B.A., and Mr. Thomas Shailer Weston.

Elected by School Committees—Mr. Thomas William Adams, Mr. George Warren Russell, and Mr. John Lee Scott.

Elected by Professorial Board—Mr. Arthur Edgar Gravenor Rhodes, B.A., LL.B.

Registrar—Mr. Alexander Cracroft Wilson.

Professors.—Classical Chair—F. W. Haslam, M.A. Mathematics and Natural Philosophy Chair—C. H. H. Cook, M.A. Chemistry and Physics Chair—A. W. Bickerton, F.C.S. French and German Chair—W. Michell Clarke, M.A. Biology Chair—Arthur Dendy, D.Sc. English Language, Literature, and History Chair—Arnold Wall, M.A.

Part-time Lecturers.—Geology—F. W. Hutton, F.R.S. Jurisprudence—W. Izard, M.A., LL.M. Constitutional History—P. F. Rowland, B.A. Political Economy—P. F. Rowland, B.A. Music—G. F. Tendall, Mus. Bac. School of Engineering and Technical Science.—Professor in Charge—Robert J. Scott, M.I.M.E., A.M.I.C.E.

Girls' High School.—Lady Principal—Miss M. V. Gibson, M.A., N.Z.

Boys' High School.—Headmaster—C. E. Bevan-Brown, M.A., Oxford.

Museum.—Curator—Captain F. W. Hutton, F.R.S.

School of Art.—Headmaster—G. Herbert Elliott.

Public Library.—Librarian—A. Cracroft Wilson. Sub-librarian—H. Strong.

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 27th March, 1899, the Chairman's statement of the progress made and work done in the several departments during the year was read, as follows:—

THE COLLEGE.

The last annual report and statement of the Chairman of the Board, being the first under “The Canterbury College and Canterbury Agricultural College Act, 1896,” was delivered on the 28th March, 1897. Various causes contributed to delay the circulation of the report, chief amongst them being the loss of the examination papers in the wreck of the s.s. “Mataura,” near the Straits of Magellan. The Senate of the University made the best arrangements possible under the unusual circumstances of the case. Many students had, however, to undergo the trying ordeal of presenting themselves for another examination before their hard-won honours and degrees could be awarded.

A special committee inquired into the working of the College, and into the causes of the falling-off in the number of students attending. Much time and attention was given to the consideration of the questions submitted under the order of reference, and some suggestions were made by the committee with a view to increase the efficiency of the institution.

A final settlement respecting the division of assets between the Canterbury College and the Canterbury Agricultural College has been lately arrived at. All the securities in which the two institutions were jointly interested have been realised, and an amount of £20,471 18s. 4d. in cash has been transferred to the custody of the Board of the Canterbury Agricultural College. There still remains a sum of £5,800 due to the last-named institution, being the unpaid balance of the award of £6,250, fixed by his Honour Judge Denniston. This bears interest at 5 per cent. per annum. Certain properties forming a portion of the securities above mentioned have been in the hands of the Board since the years 1887 and 1888. The aggregate total of investments made by

the Board of Governors since its establishment in 1873 has amounted to no less a sum than £184,688. The conversion of the various mortgages and of the properties taken over has been effected without loss.

The chair of English language, literature, and history, lately vacated by Professor Mathew, has been filled by the selection of Professor Arnold Wall, M.A., London. Fifty-three applications were received, twenty-four being from gentlemen residing in the Australasian Colonies. The thanks of the Board were accorded to the Agent-General for his valuable aid in connection with the appointment.

During the period under review the death occurred of one of the early colonists, Mr. B. W. Mountfort, who designed the College buildings, and held the appointment of architect to the Board at the time of his death.

At the close of the last session of Parliament the Canterbury College Borrowing Powers Bill was passed, which, it is anticipated, will result in a simplification of the finance of the Board.

The lecturer on political economy resigned his position at the end of the second term. The Board were unable to fill the vacancy in time to be of any use to the students.

The following table shows the number of matriculated and non-matriculated students who have attended lectures since the year 1890 to date:—

	Matriculated.	Non-matriculated.	Total.
1890	151	116	267
1891	172	177	349
1892	186	159	345
1893	182	158	340
1894	185	141	326
1895	177	130	307
1896	150	66	216
1897	144	73	217
1898	131	56	187

The number of students attending each lecture during the last term of 1898 was as follows:—

Classics.—Pass Latin: Translation, 29; composition, 31. Greek: Translation, 1; composition, 1. Honours Latin: Translation, 6; composition, 5.

English Literature.—Pass lectures: Literature and set books, 32; philology, 25. Honours lectures: Literature and set books, 4; literature and set books (extra lectures), 4; Anglo-Saxon and middle English texts, 8; philology, 9.

History.—Pass history of England, 11; honours history of Europe, 1; pass constitutional history, 19.

Mathematics.—Pass pure mathematics, 42; pass mechanics and hydrostatics, 16. Honours mathematics: Section I., 3; Section II., 3; Section III., 2; Section IV., 3. Honours elementary mechanics and hydrostatics, 1.

Chemistry and Physics.—Pass chemistry, 14; honours chemistry, 5; teachers' chemistry, 4; pass physics, 16; honours physics, 5; teachers' physics, 1; practical chemistry (junior and pass), 25; practical physics (junior and pass), 19; practical physics and chemistry (honours and research), 3.

Geology.—Junior geology, 3; senior geology, 2.

Biology.—Botany (Part II.), 2; practical botany (Part II.), 5; pass zoology (Part II.), 2; practical zoology (Part II.), 2; pass general biology (Part II.), 10; embryology, 4; embryology practical, 5.

French.—Pass lectures: Composition, 25; authors, 16; grammar, 16; literature, 15. Honours lectures: Composition, 6; authors, 2; essay and literature, 10; philology, 8; literature, 2.

German.—Composition I. and philology, 1; composition II. and grammar, 2; translation and literature, 4.

Jurisprudence and Law.—Pass jurisprudence, 20; honours jurisprudence, 11; law (second section), 5, (third section), 2.

Political Economy.—No lectures delivered.

Music.—Rudiments of music and harmony (junior, first-year students), 15; harmony, &c. (intermediate, second-year students), 10; harmony, &c. (intermediate, second-year students, evening students), 4; harmony, counterpoint, &c. (senior, third-year students), 12; advanced class (for students preparing for Mus. Bac.), 1.

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

For Masters of Arts, with Honours.—Inglis, John Kenneth Harold, M.A., with first-class honours in mathematics; Craddock, Arthur Rainsford, M.A., with first-class honours in physical science; Low, Elsie, M.A., with second-class honours in English and French, and also second-class in botany; Campbell, Eliza, M.A., with second-class honours in English and French; Collier, Rosa, M.A., with second-class honours in zoology; Johansen, Ernst Ferdinand, M.A., with second-class honours in political science; Kirton, Florence Milicent, M.A., with second-class honours in English and French; Olliver, Margaret Florence Louisa, M.A., with second-class honours in zoology; Rawson, Myra May, M.A., with second-class honours in mathematics; Stuckey, Harry Overton, M.A., with second-class honours in mathematics; McEachen, Mary Agnes, M.A., with third-class honours in English and French; Scott, Katherine, M.A., with third-class honours in mathematics.

Masters of Arts.—Campbell, William David; Gresson, Kathleen Muriel; Howard, Caroline Sarah; Smyth, Henry Montague.

Bachelors of Arts.—Final examination: Bowie, John; Chaplin, Emily Anne; Cooper, John Sisson St. George; Craig, Margaret Ellen; Fraser, Wilhelmina Sara; Garrard, Charles Wilson; Gibson, Ethel Marianne; McWilliam, James Thomas; Newman, Elizabeth Amy; Norris, Arthur Hugh; Parr, Edward James; Renner, Frederick Henry Martin; Schneider, Fanny Christina; Strong, Edward Herbert. First Section: Avery, Rose Emma; Blennerhassett, Annie; Charters, Alexander Burnet; Cowles, Georgiana Agnes; Dive, Margaret Ann; Graham, John; Hall, Robinson Early; Hickson, Cora Violet; Hornsby, Janetta Martha; Houlker, James; Izard, William Arthur; Keane, Michael Cormac; Matthews, Frederick Gwillim; McIlrath, James Wordsworth; McLeod, John; Pogson, Frank Lubecki; Wood, Robert Taylor.

Bachelor of Science.—Final examination: Black, Thomas Arthur.

Bachelor of Science in Engineering.—Final examination: Cull, John Ernest Lelliot. Third examination: Williams, Cyril Nelson Beetham.

Doctor of Laws.—Knight, Charles Prendergast.

Bachelor of Laws.—Second Section: Neave, Kenelm; Vincent, Reginald. First Section: Bullock, Arthur Edgar; Carson, William James; Glasgow, John; Houlker, James; Izard, William Arthur; Strong, Edward Herbert.

Of the five senior scholarships awarded by the University, two were gained by students of this College—John Sisson St. George Cooper gained the scholarship in mathematics and Edward James Parr that in English and French.

The Macmillan Brown memorial prize for the best imaginative composition either in prose or verse, and open to all undergraduates of the University of New Zealand, was awarded for the first time this year, and was gained by Miss Kate Ellinor Broome, an undergraduate of this College.

Mr. Cyril Nelson Beetham Williams, having complied with all the University conditions, was recommended by the Senate for a commission in the Imperial army.

The College exhibitions given for excellence in honours work at the College annual examination were awarded as follows: For Latin—Edmund Brydges Rudhall Prideaux; for mathematics—John Sisson St. George Cooper; for English—Frederick Henry Martin Renner; for French—Ethel Marianne Gibson and Ethel May Jacobson (equal); for natural science (biology and botany)—Cora Violet Hickson, *proxime accessit*—Thomas Arthur Black; for experimental science—Edward James Parr.

The number of students of this College who have succeeded in passing the various examinations for degrees given by the University of New Zealand is as follows: M.A., 110; B.A., 156 (some of whom are still eligible to compete for the M.A. degree); LL.D., 2; LL.B., 7; B.Sc., 5; B.Sc. in engineering, 5. Two arts' graduates have also obtained the degree of LL.D., one that of D.Sc., fourteen that of LL.B., and thirteen that of B.Sc. One science graduate has also passed for the degree of B.Sc. in engineering.

Since the foundation of the University of New Zealand eighty-eight graduates in arts and in science have been awarded first-class honours; forty-seven of these belong to Canterbury College, and all six double first-class honours awarded by the University were gained by students from this College. Of the 145 senior and third-year and John Tinline scholarships awarded by the University of New Zealand during the last twenty-two years (the period during which the present scholarship regulations have been in force), eighty-two and a half have been awarded to students of Canterbury College. Since 1892 a science scholarship, founded by the Commissioners of the 1851 Exhibition, to enable the holder to continue his studies in Europe, has been awarded five times, and on two of these occasions to students of this College. Of the twenty-three Bowen prizes which have been awarded by the University, for an essay on a subject connected with English history, and open to all undergraduates of the University of New Zealand, seventeen have been gained by students of this College, whilst the only three mentioned as *proxime accessit* have also been of this College.

Music.—Forty-five students attended the lectures during the past year, distributed as follows: Junior, 15; intermediate, 15; senior, 13; advanced, 2. At the annual College examinations held in October fifty-five candidates presented themselves—Junior, 25; intermediate, 16; senior, 14. To ten of these certificates of merit were granted, having successfully passed the junior, intermediate, and senior examinations of the college. The College, in conjunction with the Associated Board of the Royal Academy of Music and the Royal College of Music, held its first preliminary examination in the elements of music last August; and the first examination in practical music was held in December, Mr. F. Davenport, of the Royal Academy of Music, an eminent composer and performer, being the examiner. Forty candidates entered for the examinations—viz.:—School examination: Pianoforte—Elementary, 1; lower division, 3; higher division, 9. Local centre examination: Pianoforte—Lower division, 12; higher division, 15. Mr. Davenport expressed the opinion that the cause of many of the failures was no doubt owing to candidates choosing to compete in grades much beyond their powers, taking the "local centres" when they were really only capable of passing the "school examinations." They were strongly advised by the examiner to commence from that lower grade in which they are more sure to pass with credit.

Examinations for those wishing to obtain certificates as to their qualifications as teachers of music will be held in November. The College lectures in music will be rearranged and extended to meet the requirements of the various theoretical examinations of the Associated Board. These examinations being held in June of each year render it somewhat difficult to fit in with our College year, which commences in March. Students will be allowed to choose for themselves whether they will take the Canterbury College examinations or those of the Associated Board.

Exempted Students.—During the year examinations for exempted students have been held at Wellington, Nelson, Wanganui, and Napier. The numbers attending since the system was commenced are as follows:—

	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Napier ...	2	3	1	1	2	5	6	4	4	6	3
Wanganui ...	2	1	...	...	4	3	5	6	4	10	12
Wellington ...	8	10	9	20	14	10	13	5	11	19	24
Nelson ...	6	6	7	11	7	9	4	7	8	16	17
Blenheim ...	2	...	...	...	2	...	...	...	...	...	...
Timaru ...	5	2	..	...	...	...	...	...	...	...	...
Auckland ...	...	...	...	1	...	...	...	...	...	...	...
Hokitika ...	...	...	...	...	2	...	...	...	...	...	...
Total ...	25	22	17	33	31	27	28	22	27	51	56

So soon as the Victoria College is equipped with the necessary teaching staff, and lectures are commenced, it is only to be looked for that the yearly increase to our roll of graduates from the ranks of students exempted from attending lectures will very rapidly diminish.

SCHOOL OF ENGINEERING AND TECHNICAL SCIENCE.

The total number of students attending lectures last term was eighty-nine, of whom eleven were matriculated and taking the course for the degree of B.Sc. in engineering.

The steady rate of increase in the number of students and the hour attendances is shown by the following, which gives the number of students during the first term of each year since the foundation of the school: Number of students—1890, 40; 1891, 58; 1892, 55; 1893, 53; 1894, 51; 1895, 61; 1896, 77; 1897, 87; 1898, 89. Number of hour attendances per week—1893, 219; 1894, 254; 1895, 308; 1896, 391; 1897, 426; 1898, 491.

At the University examinations of 1898 Mr. J. E. L. Cull succeeded in passing the final examination for the degree of Bachelor of Science in Engineering, and Mr. C. N. B. Williams passed the third examination for the degree.

The number of students attending the different classes during the last term of 1898 was as follows: Freehand mechanical drawing, Section I., 33; freehand mechanical drawing, Section II., 27; elementary descriptive geometry, 25; descriptive geometry and the setting-out of work, 11; descriptive geometry (advanced), 9; mechanical drawing, Section I., 13; mechanical drawing, Section II., 22; mechanical drawing (advanced), 3; the steam-engine, 31; the steam-engine (advanced), 4; the locomotive, 1; applied mechanics, 4; mechanics of machinery, 3; strength of materials in construction and iron roof and bridge design, 2; theory of workshop practice, 6; engineering laboratory, 4.

Since the foundation of the department 324 students have attended the classes, of whom 237 have completed courses of varying lengths.

Positions of responsibility at Home and in the colonies to which past students have attained include the following: Engineers in charge of undertakings of magnitude, 4; works-managers, 2; lecturers in colleges and technical schools, 4; draughtsmen, 15; draughtsmen and surveyors, 6; shop foremen, 9; chargemen or leading hands, 4; engineers of sea-going vessels, 21; engineers in freezing-rooms, pumping-stations, &c., 9; and five have entered business on their own account; while the remainder, as far as is known, are employed as apprentices or journeymen at their trades.

The Engineering Laboratory.—During the year tests have been carried out for the Working Railways Department on New Zealand coals, timbers, and iron- and steel-work for bridges. For private firms tests were made on coals, oil, cement, wire cable, and hoisting gear.

Technical School.—At the annual examination of evening students the following certificates were obtained: In the steam-engine (elementary)—First class, 1; second class, 5. In applied mechanics (elementary)—First class, 1; second class, 1. In mechanics of machinery (elementary)—Second class, 2. In theory of workshop practice—First class, 1; second class, 1. In mechanical drawing (elementary)—First class, 6; second class, 4. In mechanical drawing—First class, 1; second class, 1. In mechanical drawing (more advanced)—Second class, 1. In freehand mechanical drawing—First class, 5; second class, 7. In descriptive geometry and setting out work—First class, 3; second class, 5.

GIRLS' HIGH SCHOOL.

The work of the school has progressed satisfactorily on the whole during the past year. The number on the roll during the last term of the year was 126, but the average attendance both in the second and third terms was considerably lessened by the prevalence of an epidemic of measles. Altogether thirty-one pupils received free education at the school, sixteen holding scholarships or exhibitions from the Board of Governors, two receiving free education for the year from the Board of Governors, twelve scholarships from the North Canterbury Board of Education, and one a scholarship from the Christchurch Caledonian Society.

The reports of the outside examiners appointed by the Board to conduct the annual examinations show that the general average of the work done was quite up to that of previous years, but owing to the fact that there was only one pupil in the upper sixth form for every subject no pupil could be presented with any chance of success for the Junior University scholarship examination. Twelve pupils, however, passed the matriculation examination. Senior Board of Education scholarships were won by pupils who took second, third, and fifth equal places in the list. Two pupils sat for the Junior Civil Service examination, and succeeded in passing it. Six pupils also sat for the second-grade drawing certificate under the South Kensington Science and Art Department, but the results have not yet been published.

The staff is quite sufficient for the present requirements of the school. During the temporary absence of the Lady Principal in the first term of the year Miss Sheard and Miss Greeson acted as full-time teachers. Owing to ill-health, Miss Mills was granted leave of absence for the latter half of the second term, and her work was shared by Miss Sheard and Miss Greeson, with some additional outside assistance from Miss L. B. Sanders.

The chief improvements made during the year were the sinking of a deep well, the connection of the school with the main sewer, and the erection of a bicycle-shed. There is now an excellent water-supply, and the other improvements have been found very satisfactory.

Boys' HIGH SCHOOL.

The number of boys on the roll for the last term of 1898 was 255. Mr. J. P. Grossman's resignation was accepted as from the 31st July last, and Mr. J. Harkness, M.A., late Scholar of Corpus Christi, Oxford, was *locum tenens* till the end of the year. Applications were invited by advertisement for the position of assistant master, and the result was the election of Mr. Percy Rowland, B.A., late Foundation Scholar of St. Paul's, London; Scholar of Hertford College, Oxford; winner of English Essay Prize, 1891; Chancellor's Essay, 1894; Cobden Essay, 1896, at Oxford University.

Last term an honours board, handsomely carved by Mr. J. H. Menzies, and presented by him to the school, was unveiled by the Rev. Dr. Morley, acting on behalf of the Chairman. In the same term a new cricket pavilion, to which the Board contributed, but which has been mainly paid for by the efforts of the school itself, was opened by the Hon. E. C. J. Stevens.

The various departments of the school work progressed satisfactorily, including the outside classes for gymnasium, workshop, drill, and swimming.

The honours gained during the year were as follows: At the recent December examinations T. M. Curnow and F. Kissell won Junior University scholarships, being placed respectively third and fourteenth. S. Steele, who was first on the credit list, will also be entitled to a Junior University scholarship by the resignation of F. Kissell, who has qualified for a Gammack scholarship. Three other boys obtained places on the credit list. Nineteen boys were candidates for matriculation, and sixteen passed. Two boys passed the medical preliminary examination. Two were elected to Senior scholarships given by the Board of Education. Among old boys Mr. A. R. Craddock qualified for the B.Sc. in Engineering; Mr. W. H. Dawson obtained his M.B.Ch.B. at Edinburgh with second-class honours; and Mr. W. A. C. Sandstein concluded a distinguished career at the same University by obtaining his M.B.Ch.B. with first-class honours, and winning the James Scott Scholarship and Freeland Barbour Fellowship. Mr. W. D. Campbell was awarded the degree of M.A. by the Senate, his papers having gone down in the "Mataura." Mr. E. H. B. Milsom won a valuable scholarship at Guy's Hospital, London.

Ten boys passed the recent Junior Civil Service examination, one being placed second on the list for New Zealand. One also passed the Senior Civil Service examination.

PUBLIC LIBRARY.

The public library consists of three distinct departments, namely: The circulating library, available to subscribers only; the reference library, free; the reading-room, free. The building of the circulating library is in very good order. The space, however, is fully occupied, and will have to be enlarged before many years are passed; even now additional floor-space is much needed, as also shelving, for the monthly increasing number of volumes. The building used for the reference library is also substantial, and suitable for the purposes of the department, and only requires additional shelving to supply our wants for some little time. The free reading-room has done duty since about the year 1863, and the problem has to be faced how funds can be provided for replacing the present dilapidated structure by a building more worthy of the city and of the objects for which it was originally designed.

Reference Department.—The annual inspection of the books was made in January, when it was found that none were missing, though one work—viz., "Egypt," by G. Ebers, which was lately procured from England—was mutilated. So far as can be seen this is the only case of vandalism which has been committed. Considerable damage has, as usual, been caused to the binding of the books by the action of the gas, especially to those bound in calf and morocco. The total number of books and pamphlets added during the past year was 504, bringing the total in the reference library to 11,537. In addition to a few donations from private donors, which have been acknowledged, publications have been presented to this department by the Governments of the United States of America, New South Wales, Victoria, South Australia, Queensland, Tasmania, and New Zealand.

Circulating Department.—The total number of books in this department is 17,925. The number of new books and renewals added during the year is 1,115. The average number of subscribers for the year was 1,770. It was found necessary to remove from the shelves during the year no less than 275 volumes, which were, through mutilation and bad treatment generally, rendered unfit for issue. Of this number 256 were works of fiction, seven were works of travels, eleven were bound magazines, one miscellaneous.

The *North American Review* and *Pearson's* have been added to the list of magazines taken in, bringing the total number up to fifty-six. The subscriptions received during 1898 amounted to £857 15s., which is the largest amount received in any year.

The library was closed from the 2nd to the 7th January for the annual stock-taking, when it was found that sixty-nine volumes were missing. The greater proportion of these, however, have since come to hand. The number of books issued during the year was 102,768, as against 89,610 issued in 1897.

A very large number of volumes of fiction will want replacing through the ill-usage they have received at the hands of the subscribers, at least 95 per cent. of whom are novel-readers, and it is greatly to be regretted that so little care is taken of the books. A supplementary catalogue, amalgamating the quarterly supplements issued since the publication of the main catalogue in 1895, has been published and brought down to April, 1898. The main catalogue of 1895 will be out of print during the year, necessitating the publication of a new one.

The financial assistance received from the Gammack Trust up to the 31st December amounted to £400.

The following figures show the income derived from subscriptions during the last six years: 1893, £757 12s.; 1894, £781 2s. 6d.; 1895, £651 1s. 6d.; 1896, £739 14s. 6d.; 1897, £825 1s.; 1898, £857 15s.

Reading-room.—The space in this department has been increased by taking in the lower office and connecting it with the room previously used, but still more accommodation is urgently needed. In addition to eighteen magazines which are provided for readers the following newspapers are filed: English, 8; American, 1; Australian Colonies, 9; New Zealand (about), 69.

Canterbury Public Library: Circulating Department.—Stock-sheet for Year ending the 31st December, 1898.

	History and Politics.	Biography.	Travels, &c.	Architecture.	Fiction.	Classics and Literature.	Poetry and Drama.	Geology, Natural History, Science, and Botany.	Magazines.	Miscellaneous.	Total.
In stock, 1st January, 1898 ..	1,283	1,400	1,574	320	8,379	967	355	819	1,018	1,071	17,186
New books and renewals added during year	62	71	45	4	794	18	10	12	66	33	1,115
Total	1,345	1,471	1,619	324	9,173	985	365	831	1,084	1,104	18,301
Taken off, unfit for issue .. ..	..	..	7	..	256	..	..	..	11	1	275
Books missing .. ..	..	..	5	..	55	4	2	..	..	1	69
Placed in reference library	1	12	12	..	..	..	..	..	7	..	32
Total	1	12	24	..	311	4	2	2	18	2	376
In stock, 1st January, 1899 ..	1,344	1,459	1,595	324	8,862	981	363	829	1,066	1,102	17,925

Canterbury Public Library.—List of Magazines, Papers, &c.

	Daily, Bi- and Tri- weekly Papers.	Weekly.	Monthly Magazines.	Quarterly Magazines.	Totals.
Circulating Department—					
British	1	11	45	..	57
American .. ..	..	..	6	1	7
Australian .. ..	..	..	1	..	1
New Zealand .. ..	..	2	3	1	6
	1	13	55	2	71
Reference Department—					
British .. ..	..	4	14	2	20
American .. ..	..	..	1	..	1
Australian .. ..	..	..	2	..	2
New Zealand	2	..	3	..	5
	2	4	20	2	28
Reading-room—					
British .. ..	..	8	14	..	22
American .. ..	..	1	1	..	2
Australian	4	5	..	..	9
New Zealand	56	10	3	..	69
	60	24	18	..	102

Reference Library.—Total of Books in each Section.

History	1,077	English literature, prose	520	Botany	107
History, constitutional	47	Foreign literature	399	Astronomy	90
Educational	166	Architecture	569	Biography	538
Political	2,188	Learned societies	171	Divinity	752
Calendars, &c.	956	Miscellaneous	264	Mineralogy	18
Newspapers	336	Agriculture	278	Geology	169
Zoology	287	Fine arts, &c.	355	Legal... ..	70
Natural science	221	Chemistry and physics	72	Mathematics	121
Travels	395	Dictionaries	338	Biology	26
English literature, poetry and drama	278	Philosophy and mental science	625	Anatomy, surgery, &c.	104

MUSEUM.

During the past year exchanges have been completed with the Museums at Brisbane and Sao Paulo, Brazil; also with the British Museum, Mr. W. L. Williams, of Tasmania, and Mr. W. D. Webster, of Oxford. Steady progress has been made in the printing of labels. A considerable number of photographs have been taken for other museums and private collectors, and this branch of museum work has proved most useful.

Geological Rooms.—The only addition during the year is a collection of fossils from Patagonia, received in exchange for New Zealand fossils. This collection is a very interesting one, as it contains several species which are also found in New Zealand.

Natural History Rooms.—Nothing of importance has been added to these rooms, but the whole collection has been carefully gone over by the taxidermist, and appears to be in good condition.

Ethnological Room.—The most important addition is a collection of objects from Benin City, including a large bronze plaque with two figures, from the King's Palace, obtained by purchase; also four very old Burmese Buddhas, found in a cave near Maulmain, presented by Captain James Wilson. Eight carved wooden masks and two large wooden figures from Japan, as well as a small collection of objects from the Solomon Islands, were purchased. Others from New Guinea and Fiji, as well as some stone implements from Tasmania and a goose-neck boomerang from Queensland, have been received in exchange.

Archæological Room.—The additions are fragments of prehistoric pottery from Japan, and stone implements from India, Somaliland, Ireland, and the Island of Hayti, all obtained by exchange. Casts of the Twelve Apostles from the shrine of St. Sebald at Nuremberg were presented by Miss Mountfort.

New Zealand Rooms.—A new case for the smaller Cetaceans has been put up, and the mammals rearranged. The skeleton of the sea-elephant mentioned in the last report has been mounted and placed in a glass case, and those of the larger whales have been improved by the addition of artificial cartilages. The skeletons of the Maori and Moriori have been remounted, and several of New Zealand birds have been prepared. A very important addition is a collection of extinct birds from the Chatham Islands. Skeletons of the swan and the coot were presented by Mr. J. J. Fougère, and that of the Chatham Island crow was obtained by exchange. Of invertebrates, a further collection of New Zealand insects was presented by the late Mr. Herbert Clark, and Mr. H. Suter has given a collection of *Phasmida* and many rare shells. A rare Antipathorian from the North Cape was presented by Mr. R. M. Laing, and a number of mosses by Mr. R. Brown, these being co-types of his new species. A black sandstone, showing the impression of the foot of a kiwi-like bird, was sent by Mr. H. Wynn-Williams, from Manaroa, in the Pelorus, and Mr. R. D. Thomas enriched the mineral collection with a large slice of nephrite, showing the process of decomposition. The only additions to the Maori collections are some stone adzes and a gourd water-bottle, which formerly belonged to Tawhiao, the Maori King, presented by Mr. A. Aldridge; also an old Maori spear, found in a cave at Purau, presented by Mr. John Harris.

Library.—In addition to the usual presentations from museums, scientific societies, and foreign Governments, the following books have been presented: "Nature *versus* Natural Science," by the Rev. C. C. Coe; "Travels among the Todas," and plates from Humboldt's "Monograph of the Melastomaceæ," by Mr. C. J. Mountfort; Fison and Howitt's "Kamilaroi and Karmi," and Turner's "Samoa," by Professor Mathew; Saunders's "British Hymenoptera Aculeata" and "Hemiptera Heteroptera," Edwards's "British Hemiptera Homoptera," Macquart's "Dipteres Exotiques," Theobald's "British Flies," Marshall's "British Braconidæ," Holmgren's "Ichneumenologia Suecica" and his "Ophionæ Suecica," and Buxton's "Natural History of Eristalis Tenax," by the Curator. Ratzel's "History of Mankind," Part II., and Sharpe's "Birds of Paradise," Parts VII. and VIII., have been purchased.

Miscellaneous.—A very interesting relic was presented by Mr. T. Scott—viz., part of the colours of the 58th Regiment carried in the Egyptian campaign in 1801 and in the Peninsula War; also several old English newspapers, among them being accounts of the battles of Alma, Balaclava, and Inkerman. These were given by Mr. J. P. Wandt.

An oil painting, by Van Meyhm, of the Canterbury Cup, 1878, was presented by Mr. E. Wilson. It is valuable not as a work of art, but as a record of former days.

SCHOOL OF ART.

Attendance.—As compared with 1897 the numbers have been as follows:—

1897: Morning—First term, 32; second term, 39; third term, 31. Evening—First term, 101; second term, 89; third term, 93. Saturday—First term, 97; second term, 88; third term, 93. Friday afternoon (wood-carving)—First and second terms, nil; third term, 6.

1898: Morning—First term, 34; second term, 35; third term, 33. Evening—First term, 98; second term, 103; third term, 102. Saturday—First term, 84; second term, 86; third term, 93. Friday afternoon (wood-carving)—First term, 3; second term, 8; third term, 6.

Work.—Life classes have been held as follows: Draped—Monday and Friday, 10 to 1 (morning); 7 to 9 (evening). Nude—Monday and Thursday, 2 to 5 and 10 to 1 (morning); Wednesday, 7 to 9 (evening). The students have drawn and painted from the bust and full figure in various mediums. The drawings from the full figure have again been particularly good, being executed in red and black chalk. A class for the lady students for the study of the full figure was established last year, and so far the attendance has justified it, though it is difficult to get satisfactory models.

Elementary Drawing and Painting.—Second-grade work, comprising freehand, model, geometry, and perspective, and in addition drawing and painting from the cast of ornament and antique and from still life have been taught in the morning, evening, and Saturday classes.

Landscape.—This class is restricted to morning students, who have gone out to study from nature once a week. No work from copies is allowed, the preparatory study being drawing from models and still life work. The average attendance has been larger than in 1897.

Modelling, Casting, and Moulding.—Classes have been held as follows: Morning—Wednesday, 11.30 to 1: average attendance for last term, 12.77. Evening—Monday, 7 to 9: average attendance, 16. The students have modelled in clay from casts of ornament and antique; others a little more advanced have worked from flat copies, and have modelled foliage from nature, adapting it to decorative purposes. The few most advanced have modelled busts from the antique and from life, and one has done a full figure from life. Different kinds of moulding have been practised, such as chip, gelatine, piece, and paraffin, and a large number of casts in plaster have been taken.

Wood-carving.—Classes have been held on Friday afternoon from 3 to 5, and on Saturday morning from 9.30 to 11. The majority have been doing chip and incised carving, and a small number have now started work in relief. It is to be regretted that such a small number attend these classes, and the few who come do not pursue it far enough to produce good and original work, but seem to be satisfied when they have learnt a little of the use of the tool, and are then content to adapt and copy other people's designs. Until students can be induced to carry it further, and combine with it the study of drawing, modelling, and design, the class will not be entirely satisfactory.

Geometry and Perspective Classes have been held for elementary geometry (first and second grades) on Wednesday morning from 10 to 11.30, and on Wednesday and Friday evenings from 7 to 9 for elementary (second grade) and advanced. An elementary perspective class has been held on Monday from 10 to 11.30 a.m., and on Wednesday from 7 to 9 p.m. The students in these classes are mostly preparing for the South Kensington examinations. No advanced perspective was taken last year, as additional time was required for geometry.

Decorative Design and Architecture.—These subjects have been studied on Thursday and Friday evenings from 7 to 9. Lectures, illustrated by limelight views, on the history of architecture and decorative design have been given throughout the year each Thursday. A course of lectures has also been given dealing with design for different art industries, as pottery, wrought iron, metal work, fabrics, &c. It is a pity that more advantage is not taken of these lectures, as their merit deserves a far better attendance. The numbers for last term were—Decorative design, 21; architecture, 11.

Ornamental Lettering and Painting.—This class was started last year for decorators, coach-painters, and sign-writers, and has been held once a week for two hours. The number attending last term, all being young tradesmen, was nine. The instruction is intended to give freedom and power in drawing out and painting to a large scale ornamental forms and lettering for trade purposes, and also to give those in the decorative design class an opportunity to carry their designs out in a practical manner. The work includes sketching floral forms in outline with chalk, brush, or charcoal on boards and canvases, plain and ornamental lettering, setting out and executing in tempera and oil-colour geometrical and other ornament, and also decorative painting in grisaille. The class has decidedly met a want, and the work has been very encouraging.

Industrial Association Scholarships.—Arrangements were completed last year in connection with the scholarships offered by the Canterbury Industrial Association. Four are to be offered in one year and three the next (alternately). The value of each scholarship is £5 (or £2 10s. per annum, this sum being the yearly fee for three nights per week). Apprentices and young tradesmen not over twenty-one years of age are eligible to compete. The first competition under this scheme was held last March, when nineteen competed. P. Goodsall, T. W. Owen, H. Bradley, and B. A. Frostick won two-year scholarships, and H. H. Green, H. E. Green, and E. J. Dalziel and F. Morgan (equal) won one-year scholarships. As there were only three of these latter, the president of the association, Mr. J. A. Frostick, very kindly provided an extra one. The holders of these scholarships have done very satisfactory work, and by their diligence and regular attendance have shown their evident desire to take every advantage of the privilege provided by the association. Judging by the first year's work, the success of these scholarships is assured. In order that the successful competitors may have some tangible evidence of having won the scholarships, the association have decided to give a framed certificate to the winners, and to this end offered a prize of £3 for the best design for such certificate, to be competed for by students of the school. G. R. Hart gained the prize by a very pleasing and appropriate design, with Miss A. E. Abbott as *proxime accessit*.

Boys' High School.—This work has been similar in character to last year. Model-drawing has been taught to a junior division on Mondays from 3.20 to 4, and to a senior one on Thursdays for the same period.

Additions to Collection of Examples.—The following have been added: Casts of full figure, Dancing Faun. Busts—Heroic head, Laocoon, and Diomedes. Bas-relief—St. Cecilia. Animal—Bull, by Rosa Bonheur. Wood-carving—Three panels, by Goujon. The following books have also been purchased: Manual of Wood-carving, W. Bemrose; Historic Ornament, J. Ward; Figure Drawing and Composition, R. G. Hatton; Painting in Water Colours, Hume Nisbet; Model Drawing, W. Mann; Principles of Ornament, J. Ward; Anatomy for Art Students, A. Thomson. The following have also been added by private presentation: Four fibrous plaster panels of ceiling ornament, by C. J. Mountfort, Esq., and a red-chalk drawing of a figure from life (H. Le Jeune, date 1746), by H. Fisher and Son.

Examinations (Local).—The annual local examinations were held last December, with results as follows:—First Grade: Geometry (20 candidates)—Pass excellent, 3; pass good, 7; pass, 4; fail, 6. Second Grade: Freehand (94 candidates)—Pass excellent, 35; pass good, 20; pass, 21; fail, 12. Unattached—Excellent, 3; good, 4. Model (91 candidates): Excellent, 34; good, 20;

pass, 18; fail, 18. Unattached—Excellent, 1. Geometry (19 candidates): Excellent, 3; good, 2; pass, 3. Unattached—Excellent, 2; good, 2; fail, 7. Perspective (12 candidates): Excellent, 1; good, 1; pass, 2; fail, 7. Unattached—Good, 1. Memory drawing on the blackboard (12 candidates): Excellent, 2; good, 6; pass, 0; fail, 1. Unattached—Excellent, 1; good, 1; fail, 1. Full second-grade certificates, 8. Wood-carving: Theory and practice—Elementary stage, chip-carving—Excellent, 3; pass, 1. Modelling in clay (from ornament): Elementary stage (from the cast)—Excellent, 9; good, 5; pass, 4: number of candidates, 19; failure, 1. Advanced stage (from drawings or photographs)—Pass, good, 5; number of candidates, 5. Art-class teachers' certificate: Class-teaching—Good, 1. Science and Art Department, South Kensington.

South Kensington Science and Art Department.—The first examination under this department was held in 1897, when the percentages from the main centres resulted as follows: Christchurch, 76.7; Dunedin, 76; Auckland, 71; Wellington, 71; Wanganui, 69; Nelson, 68; Wellington (suburbs), 54. The results of the examinations held in July, 1898, are as follows: Elementary perspective—Pass, first class, 10; pass, second class, 1: 11 candidates, no failures. Elementary freehand drawing—Pass, first class, 11; pass, second class, 10: 26 candidates, 5 failures. Elementary model drawing—Pass, first class, 15; pass, second class, 4: 21 candidates, 2 failures. Elementary drawing in light and shade—Pass, first class, 5; pass, second class, 1: 6 candidates, no failures. Elementary principles of ornament—Pass, first class, 1: only 1 candidate. Elementary design—Pass, first class, 1; pass, second class, 4: 7 candidates, 2 failures. Advanced freehand drawing—Pass, first class, 8: 8 candidates, no failures. Advanced model drawing—Pass, first class, 3; pass, second class, 4: 8 candidates, 1 failure. Advanced drawing in light and shade—Pass, first class, 6; pass, second class, 1: 7 candidates, no failures. Painting from still life—Pass, first class, 4; pass, second class, 1: 6 candidates, 1 failure. Drawing from the antique—Pass, second class, 5: 5 candidates, no failures. Drawing from the life—Pass, second class, 1: 2 candidates, 1 failure. Practical plane and solid geometry—Pass, first class, 5: 5 candidates, no failures. Building construction—Pass, first class, 5; pass, second class, 1: 6 candidates, no failures. A series of works was sent to London last February for the art-class teachers' and the art masters' certificates. The following were accepted: Art-class teachers'—Light and shade from the cast, E. Thompson; light and shade from models, E. Thompson and A. H. Allen; geometry, E. Thompson. Art masters' certificate—Outline from foliage, C. Kidson; outline from the antique figure, C. Kidson.

State School Scholarships.—The annual competition for the free studentships offered by the Board to the head boy in drawing in each of ten district schools was held in February.

Free Studentships.—Six free studentships are offered annually on the work performed during the year.

Prizes were given for modelling in clay from ornament; drawing from life; landscape from nature; design in wrought iron, for basket, grate, fender and fire-irons. The thanks of the Board are due to Messrs. J. Gibb and C. J. Mountfort for their kindness in acting as judges and examiners.

Annual Exhibition.—The annual exhibition of students' works was held at the beginning of the year, and was largely attended. All classes of work were represented, and showed the thorough course of training given, and its application to industry.

STATEMENT OF THE ACCOUNTS OF THE CANTERBURY COLLEGE FOR THE YEAR ENDING
31st DECEMBER, 1898.

STATEMENT OF BALANCES AT 31st DECEMBER, 1898.

		<i>Accounts.</i>					
Cr.		£	s.	d.	£	s.	d.
Boys' High School, Capital Account	.. .. .	2,519	5	0			
Boys' High School, Maintenance Account	.. .. .	11	11	1			
Classical School, Capital Account	.. .. .	2,210	2	1			
Superior Education, Capital Account	.. .. .	2,988	16	6			
College Maintenance Account	.. .. .	381	0	5			
School of Engineering and Technical Science Account	.. .. .	73	9	3			
Girls' High School, Capital Account	.. .. .	5,062	17	8			
Girls' High School, Maintenance Account	.. .. .	228	19	7			
Public Library, Maintenance Account	.. .. .	450	14	9			
Medical School, Reserves Account	.. .. .	3,338	17	10			
Museum, Library, and School of Technical Science, Capital Account	.. .. .	21,242	17	2			
Museum, Library, and School of Technical Science, Endowment Account	.. .. .	1,286	0	0			
Astronomical Observatory Account	.. .. .	298	19	4			
							40,093 10 8
Dr.							
School of Art Account	.. .. .	20	8	4			
Boys' High School, Buildings Account	.. .. .	2,500	0	0			
Museum Account	.. .. .	2	4	6			
							2,522 12 10
							<u>£37,570 17 10</u>

Classical School, Capital Account.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
To Balance, 1st January, 1898 ..	2,210	2 1	By Balance ..	2,210	2 1
To Balance, 1st Jan., 1899 ..	£2,210	2 1			

Superior Education, Capital Account.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
To Balance, 1st January, 1898 ..	2,706	11 11	By Share of expenses connected with sale of Saxton's estate ..	19	3 1
Share of surplus realised by sale of Saxton's estate ..	305	12 2	Share of amount written off to cover loss on Neill's security ..	10	9 3
Share of surplus from Gilmour's land ..	6	4 9	Balance ..	2,988	16 6
	£3,018	8 10		£3,018	8 10
To Balance, 1st Jan., 1899 ..	£2,988	16 6			

College Maintenance Account.

<i>Receipts.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
To Balance, 1st January, 1898 ..	1,012	16 10	By Salaries ..	6,564	0 0
Classical School reserves—			Insurance (College) ..	109	7 2
Rents ..	4,362	1 1	" (chemical laboratory) ..	23	2 0
Outstanding from 1897 ..	409	15 7	" (biological laboratory) ..	5	17 3
Classical School town reserves—			Rates ..	5	17 5
Rents ..	237	15 0	Exhibitions ..	130	0 0
Outstanding from 1897 ..	3	15 0	Contributions to School of Engineering and Technical Science—		
Superior education reserves—			For maintenance ..	550	0 0
Rents ..	2,405	0 0	For scholarships ..	60	0 0
Students' fees ..	1,110	7 6	Books for College library ..	19	10 3
Interest on capital, &c. ..	201	9 9	Repairs to College lodge ..	19	5 6
Sale of calendars ..	4	15 7	Expenses of music lectures ..	11	11 10
Analysis fees (chemical laboratory), half share ..	19	0 3	Repairs ..	11	9 0
Contributions towards salaries of Registrar and staff, and office expenses—			Inspecting reserves and advertising ..	152	12 8
From Library ..	30	0 0	Interest on Loan Account (£12,000) ..	600	0 0
" Boys' High School ..	100	0 0	Apparatus for biological laboratory ..	87	12 4
" Girls' High School ..	60	0 0	Fuel ..	26	1 3
" School of Engineering and Technical Science ..	40	0 0	Gas ..	54	17 0
" School of Art ..	40	0 0	Printing, stationery, &c. ..	132	13 10
" Museum ..	30	0 0	Advertising ..	18	13 9
" Medical School reserves ..	10	0 0	Furniture, fittings, &c. ..	21	10 6
Rent of College lodge ..	60	0 0	Washing and cleaning ..	15	6 6
Rent of building (School of Engineering) ..	193	18 4	Legal expenses ..	60	10 1
Hire of chairs (College hall) ..	13	10 0	Keeping grounds in order ..	34	10 10
Contribution from Medical School reserves towards salary of Professor of Biology ..	100	0 0	General expenses ..	100	3 7
Examination-fees—			Chemical laboratory—		
Music ..	7	17 6	Gas ..	24	14 2
Exempted students ..	201	1 6	Painting and renovating interior ..	2	7 8
Associated Board R.A.M. and R.C.M. ..	47	5 0	Skylight, screens, renewal ..	14	1 5
Fees for popular science lectures ..	9	0 0	Repairs to building ..	6	2 0
Half-share of costs of boundary-fence at College lodge ..	2	16 3	Repairing apparatus ..	16	3 6
College v. Meehan and Quinn—Judgment ..	27	14 1	Chemicals and apparatus ..	173	17 4
Sale of text-books ..	0	2 0	General expenses ..	33	7 7
Interest on unpaid purchase-money for Saxton's estate ..	72	5 1	Biological laboratory—		
Sale of whare on Reserve 1176 ..	3	0 0	Fuel and lighting ..	21	0 2
Interest on promissory notes (rent of reserves) ..	4	5 11	Laboratory expenses, specimens, &c. ..	27	10 9
			General expenses ..	24	0 2
			Astronomical observatory—		
			Honorarium (Mr. Kitson) ..	50	0 0
			Sundries ..	6	12 6
			Canterbury Agricultural College—		
			Interest on £6,000 at 5 per cent. ..	300	0 0
			Payment off Supreme Court award ..	200	0 0
			Expenses of election of Governors ..	23	2 8
			Exempted students examination—		
			Examiners' fees ..	141	5 10
			Supervising and other expenses ..	60	5 8
			Expenses connected with appointment of Professor of English ..	72	15 5
			Expenses of musical examination (Associated Board) ..	39	14 4
			Refund of examination-fee (music) ..	0	10 6
			Expenses of special inquiry into College ..	35	17 0
			Interest on current accounts ..	72	10 4
			Reserve No. 676—		
			Railway-crossing ..	15	0 0
			Repairing fences ..	16	2 8
			Reserve No. 727—Refund of rent paid in excess ..	11	2 3
			Reserves Nos. 737 and 738—Bringing under Land Transfer Act ..	76	6 0
			Subdivision of Classical School reserves ..	90	3 2
			College tennis-courts and fencing ..	69	6 0
			Balance ..	381	0 5
	£10,819	12 3		£10,819	12 3
To Balance, 1st Jan., 1899 ..	£381	0 5			

Freehold Securities Account.

1898.		<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
To	Gould, Beaumont, and Co., purchase of Saxton's estate			18,000	0	0	By	Balance, 1st January, 1898	14,905	5	0
	Brown, J. A., purchase of Gilmour's land			1,532	10	6		Transfer of surplus realised by sale of Saxton's estate	5,000	0	0
	Ruddenklau, H., further payment on account of purchase of Neill's land ..			50	0	0		Transfer of surplus realised by sale of Gilmour's land	102	5	6
	Amount written off to cover loss on Neill's security			100	0	0					
	Balance			325	0	0					
				<u>£20,007 10 6</u>					<u>£20,007 10 6</u>		
							By	Balance, 1st Jan., 1899 ..	£325	0	0

School of Agriculture Account.

1898.		<i>Receipts.</i>		£	s.	d.	<i>Expenditure.</i>		£	s.	d.
To	Balance, 1st January, 1898, Capital Account			17,576	1	2	By	Share of expenses in connection with sale of Saxton's estate	68	9	2
	Balance, Maintenance Account			167	9	3		Share of amount written off to cover loss on Neill's security	37	8	2
	Share of surplus realised by sale of Saxton's estate			2,810	0	0		Payments to Canterbury Agricultural College	21,139	7	7
	Share of surplus realised by sale of Gilmour's land			57	9	7					
	Share of interest on unpaid purchase-money for Saxton's estate			250	3	5					
	Interest			384	1	6					
				<u>£21,245 4 11</u>					<u>£21,245 4 11</u>		

Examined and found correct, subject to the same exception as that taken to the accounts of the previous years.—J. K. WARBURTON, Controller and Auditor-General.

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