REPORT OF THE PRESIDENT

OF THE UNIVERSITY OF BRITISH COLUMBIA

FOR THE ACADEMIC YEAR ENDING

AUGUST 31st, 1933.

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REPORT OF THE PRESIDENT

To the Board of Governors and
the Senate of
The University of British Columbia.

Ladies and Gentlemen:-

I have the honour to submit the following report on the work of the University for the academic year ending August 31st, 1933:

The period under review has been a difficult one. The effects of the economic distress have been as evident in the University as they have been in business and in the administration of Government. At the beginning of the year the Board of Governors, realizing the serious nature of the financial situation, adopted a budget in strict accordance with its income. As a result of this policy, the long-established practice of living within the budget was maintained, and the fiscal year closed with a small credit balance.

To achieve this result in the face of rapidly declining revenues could not be accomplished without continuing, and in a number of instances extending, the drastic restrictive changes in academic policy and in administrative practice which have been outlined in previous reports. While some of the changes have not resulted in the direct loss of efficiency which was anticipated, others have been more serious than was foreseen. The University has done its utmost to maintain its standards of previous years; but a comparative study of the curricula for the past three sessions reveals clearly the wide disparity between the amount of fundamental work previously done and that which the present staff is able to accomplish.

Teaching staff.

President	1
Deans and Heads of Departments.....	3
Dean of Women.....	1
Emeritus Professors	2
Professors and Heads of Departments.....	19
Professors	15
Associate Professors.....	23
Assistant Professors.....	15
Lecturers	2
Honorary Lecturer.....	1
Instructors.....	10
Assistants	17
Research Assistants.....	2
Lecturers in Public Health Part-time.....	12
Lecturers in Social Service Part-time.....	4
Lecturers in Commerce Part-time.....	1

Substitutes for members on leave .....4.

A comparison of the above table with the figures given under the corresponding heading in the 1931-32 Report, shows clearly wherein the reduction in the teaching staff was most pronounced. During the period under review the number of Associate Professors was reduced from 30 to 23; the number of Assistant Professors from 20 to 15, and the number of Assistants from 43 to 17.

New appointment.

R. Rolleston West, D.S.O., B.A.(Cantab.), Lecturer in Mechanical Engineering.

Promotion.

John F. Bell, O.B.E., Eng.Capt.,(R.N.), M.E.I.C., from Instructor to Lecturer in Mechanical Engineering.

Leave of absence.

Reginald W. Brock, M.A., LL.D.(Queen's), F.G.S., F.R.S.C., Dean of the Faculty of Applied Science and Professor and Head of the Department of Geology and Geography, leave of absence for six months, as from October 22nd, 1932.

Hibbert Winslow Hill, M.B., M.D., D.P.H.(Toronto), LL.D. (Western Ontario), L.M.C.C., Professor and Head of the Department of Nursing and Health and Professor and Head of the Department of Bacteriology, leave of absence for one year from September 1st, 1932.

T.C.Phemister, B.Sc.(Glasgow), Sc.M.(Chicago), Ph.D., D.Sc. (Glasgow), Associate Professor of Mineralogy and Petrology, leave of absence for one year from September 1st, 1932.

Miss M.L.Bollert, M.A.(Toronto), A.M.(Columbia), Assistant Professor of English, leave of absence for one year from May 31st, 1932.

Miss Joyce Hallamore, M.A.(Brit.Col.), Instructor in German, leave of absence for one year from September 1st, 1932.

Substitutes for members of staff on leave - part-time:

Victor Dolmage, B.A., Ph.D.(Mass.),F.R.S.C. (Substitute for Dean R.W.Brock).
Harry Warren, B.A.Sc., D.Phil.(Oxford) (Substitute for Dean R.W.Brock).
G.F.Amyot, M.D.(Tor.),D.P.H.(Tor.),L.M.C.C. (Substitute for Dr. H.W.Hill).
J.W.McIntosh, B.A., M.B., D.P.H.(Tor.),L.M.C.C.(Substitute for Dr.H.W.Hill).

Resignations.

Upon his appointment to the professorial staff of Gonville and Caius College, Cambridge, the Board of Governors accepted the resignation of H. Ashton, M.A., Litt.D.(Cantab.), D.Litt.(Birmingham), D.Lett.(Univ.Paris), F.R.S.C., Officier de l'Instruction Publique,(France), Chevalier de la Légion d'Honneur, Professor and Head of the Department of Modern Languages. The acceptance of Dr. Ashton's resignation represented a distinct loss to the cause of education in this province. Associated as he was with

the University from its early days, his rare teaching ability and his notable achievements in the realm of productive scholarship did much to enhance the prestige of the University of British Columbia at home and abroad.

When the Department of Forestry was organized in 1921, H.R.Christie, B.Sc.F.(Toronto), was the first man to be appointed to the staff. Within a comparatively short time he was promoted to the rank of Professor and Head of the Department, a position which he continued to occupy until he tendered his resignation in the spring of 1933.

In the resignation of T.C.Phemister, B.Sc.(Glasgow), Sc.M.(Chicago), Ph.D., D.Sc.(Glasgow), Associate Professor of Mineralogy and Petrology, to accept a position on the professorial staff of Cambridge University, the University of British Columbia lost one of the ablest of the younger members of the staff.

Obituary.

On January 24th, 1931, E.C.Hayward, Esq., of Victoria, B.C., was appointed by the Lieutenant-Governor-in-Council as a member of the Senate. In this capacity Mr. Hayward served acceptably until his death on February 14th, 1933.

The untimely death of Professor Wilfrid Sadler, B.S.A., M.Sc.(McGill), N.D.D.(British Dairy Institute, University College, Reading, England), Professor and Head of the Department of Dairying, cast a shadow over a wide circle of colleagues and friends. He was a man of rare personal charm, of outstanding ability and of marked achievement; and his tragic passing, while he was on leave of absence, was a loss which the University and the cause of science in Canada could ill afford to sustain.

Professor Emeritus.

Professor James Henderson, M.A.(Glasgow), having reached the retiring age, was made Emeritus Professor of Philosophy. Professor Henderson's long association with the University was marked by an unfailing courtesy, a devotion to duty, and an unselfish interest in the advancement of education. It is gratifying to his colleagues to know that Professor Henderson retains his connection with the University which he served so acceptably for so many years.

Reappointments to the Board of Governors.

Under date of April 18th, 1933, an Order-in-Council was passed reappointing His Honour Judge Joseph N. Ellis, B.C.L., K.C., and William H. Malkin, Esq., both of Vancouver, B.C., and Benjamin C. Nicholas, Esq., of Victoria, B.C., members of the Board of Governors until the 4th day of April, 1939.

Honorary Degrees.

At the Spring Congregation, the Honorary Degree of Doctor of Laws, honoris causa, was conferred upon His Honour Frederick William Howay, LL.B., F.R.S.C.

For many years Judge Howay has served with great acceptability as a member of the Senate of this University. His contributions to the advancement of knowledge, particularly in the field of historical research, have been numerous, and have brought to him well-merited recognition by Governments and learned societies.

On June 13th, 1933, a Special Congregation was convened for the purpose of conferring the Honorary Degree of LL.D. upon certain distinguished scientists who had contributed to the success of the Fifth Pacific Science Congress which was then in session in Vancouver. On this occasion Degrees were conferred upon the following:-

Charles Joseph Gravier, Agrege de l'Université, D.Sc., Membre de l'Académie des Sciences, Professor of Zoology, National Museum of Natural History, Paris, France.

Geoffrey Ingram Taylor, M.A., Dr.Ir., D.Sc., F.R.S., Yarrow Research Professor of the Royal Society.

Shinkishi Hatai, Ph.D., Professor of Zoology, Tohoku Imperial University, Japan.

Gerrit van Iterson, Jr., Dr.Ir., F.R.S.(Amsterdam), Professor of Microscopical Anatomy and Director of the Laboratory for Technical Botany, The Technical University, Delft, Holland.

Thomas Wayland Vaughan, B.S., A.M., Ph.D., Professor of Oceanography and Director, The Scripps Institution of Oceanography of the University of California.

Henry Marshall Tory, M.A., D.Sc., LL.D., F.R.S.(Can.), President of the National Research Council of Canada, President of the Fifth Pacific Science Congress.

Wen Hao Wong, D.Sc., Director of the Geological Survey, Peiping, China.

(in absentia).

Decrease in Registration.

During the year there was a marked decrease in registration, particularly in the Faculty of Arts and Science. This trend, which had been noticeable for two years, was most pronounced during the 1932-1933 session when the decrease, as shown by the Registrar's figures, was 250.

A number of factors contributed to this result. Of these, the extension of the high school course to four years was, perhaps, the most important. Limitation of attendance, while not in itself as formidable a barrier to admission as

had been anticipated, was not without its effect. The depression, which by this time had become cumulative, made it impossible for a considerable number to attend who otherwise would have done so. Then, too, the inability of many graduates to obtain employment of any kind proved a powerful deterrent to prospective students who thought of a University degree primarily in terms of increased earning capacity.

Meeting of the Fifth Pacific Science Congress.

Apart from the regular work of the University, the most important event of the year in which the members of the professorial staff were active participants, was the meeting of the Fifth Pacific Science Congress which was held in Victoria and Vancouver during the latter part of May and early June. Practically all the countries bordering on the Pacific basin were represented by one or more delegates, and European countries having dependencies on the Pacific were also represented. During the sessions of the Congress and of the post-congressional tour through the Province, the delegates were the guests of the Dominion Government. To the many hundreds of scientific papers which were presented, the staff of the University of British Columbia contributed its full quota.

Alexander Stewart Monro Bequest.

By the terms of the will of the late Alexander Stewart Monro, M.D., C.M., F.A.C.S., F.R.C.S.(Can.), a bequest of the value of approximately $80,000.00 will be made available to the University on the decease of all other beneficiaries under the will. The income from this bequest is to be devoted to the furthering of medical research.

For this benefaction the University is deeply grateful. The people of this Province, through annual grants by the Legislature, have been generous in their support of the University; but, as yet, the University has received relatively little support from private individuals of means who are interested in the advancement of higher education. In this Province, private support of state education has not become a tradition as it has in the older universities of Eastern Canada. This generous action on the part of Dr. Monro is indicative of the growing personal interest which friends of the University are taking in its welfare.

Following the acceptance of this bequest by the Board of Governors, the immediate members of the family presented a bronze tablet to the University in memory of Dr. Monro. This tablet, the work of Mr. Charles Marega, was placed in the Library and was unveiled by Chancellor R.E.McKechnie with appropriate ceremonies.

Carnegie Corporation Grant.

In the fall of 1932 the Carnegie Corporation of New York, acting upon a recommendation of the Corporation's advisory group on Canadian college libraries, appropriated to the University the sum of fifteen thousand dollars for the purchase of books and current periodicals for general undergraduate reading in the Faculty of Arts and Science. This generous gift, coming as it did at a time when the requirements of the library were not being met in as full measure as formerly, is having a most stimulating effect upon the increasing number of students who avail themselves of the facilities which the library affords.

Respectfully submitted,

LEONARD S. KLINCK,
PRESIDENT.

February 16th, 1935.

REPORT OF THE REGISTRAR.

REGISTRATION:

	Women	Men	Total	
FACULTY OF ARTS and SCIENCE:				
First Year	87	151	238	
Second Year	158	206	364	
Third Year	130	170	300	
Fourth Year	137	137	274	1176
FACULTY OF APPLIED SCIENCE:				
Second Year	-	95	95	
Third Year	-	68	68	
Fourth Year	-	45	45	
Fifth Year	-	57	57	265
FACULTY OF APPLIED SCIENCE (NURSING):				
First Year	12	-	12	
Second Year	7	-	7	
Third Year	12	-	12	
Fourth Year	5	-	5	
Fifth Year	11	-	11	47
FACULTY OF AGRICULTURE:				
First Year	4	17	21	
Second Year	2	10	12	
Third Year	1	8	9	
Fourth Year	1	16	17	59
GRADUATES:				
Faculty of Arts and Science	37	56	93	
Faculty of Applied Science	-	23	23	
Faculty of Agriculture	1	11	12	128
TEACHER TRAINING COURSE	44	20	64	64
			Total	1739

Classification and Enrolment of Students
Who are not taking the full Undergraduate Courses:

	Women	Men	Total
Summer Session - Arts and Science (1932) (Degree Course).....	166	238	404
Late Afternoon and Saturday Morning Classes - (Degree Course).....	19	71	90
Social Service (Diploma Course).....	14	1	15
Public Health Nursing (Diploma Course).....	18	-	18
Occupational Course in Agriculture (Diploma Course).....	-	3	3
Evening Class in Botany.....	24	31	55

Nationalities of Students:

American 27; Austrian 1; British 1530; Chinese 15; Czecho-Slovakian 1; Danish 1; Dutch 2; Finnish 1; French 6; Greek 1; Hebrew 20; Icelandic 2; Italian 6; Japanese 20; Lettish 1; Norwegian 7; Polish 2; Russian 18; Swedish 11; Swiss 3 - - - T o t a l.....1675.

(This does not include the Teacher Training Course).

Geographical Distribution of Students:

(a)	From Vancouver	1130
(b)	From Victoria	104
(c)	From New Westminster.....	99
(d)	From other Provincial points.....	355
(e)	From other Provinces.....	36
(f)	From other Countries.....	15
		1739

(This does not include the Teacher Training Course).

Occupations of Parents:

The following occupations were most largely represented:

Accountant 38; Broker 30; Carpenter 21; Civil Servant 26; Clergy 50; Contractor 37; Doctor 58; Engineer 92; Farmer 58; Insurance 33; Lawyer 33; Lumberman 29; Manager 58; Merchant 107; R. R. Employee 58; Teacher 53.

Location of Graduates:

Vancouver 1482; Other parts of British Columbia 782; Other Provinces of Canada 155; United States of America 168; British Isles 21; Australia 2; India 1; Africa 7; France 3; South America 3; China 6; Japan 10; Mexico 2; Other Countries 7;

Number deceased 36
Number whose address is unknown.248

Total.....2933.

Comparative Statement of Attendance
Sessions 1930-31 to 1932-33.

Session	Arts and Science	Applied Science	Nurs-ing	Agric-ulture	Teacher Training Course	Total Winter Session	Summer Session	Short Courses	Grand Total
1930-31	1580	289	41	63	71	2044	455	401	2900
1931-32	1477	284	44	75	109	1989	441	342	2772
1932-33	1269	288	47	71	64	1739	404	181	2324

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Comparative Statement of Degrees
Conferred - 1931 to 1933.

Year	M.A.	B.A.	B.Com.	M.A.Sc.	B.A.Sc.	B.A.Sc. Nursing	M.S.A.	B.S.A.	Total	Grand Total
1931	20	211	14	2	39	7	2	13	308	2500
	4	31	1	-	4	-	-	-	40	2540
1932	17	201	15	2	37	4	9	6	291	2831
	6	36	1	-	6	-	-	-	49	2880
1933	19	215	22	8	44	7	4	12	331	3211

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Honorary Degrees Conferred.

	LL.D.
1933	8.

Scholarships, Fellowships and Bursaries awarded to graduates.

During the year many scholarships, fellowships and bursaries have been won by graduates of the University. The following list does not include awards which have been made in The University of British Columbia.

Name	Award	Value	Subject	Where Tenable
Archibald, Reginald M.	Fellowship in Pathological Chemistry	$1100	Chemistry	University of Toronto
Armstrong, Charles Johnstone	University Scholarship	400	Classics	Harvard University
Beall, Desmond	Fellowship	600	Biochemistry	University of Toronto
Humphreys, M.Gweneth	Fellowship	500	Mathematics	University of Chicago
Jack, Laurence	Rhodes Scholarship (3 years)	400 pounds a year		Oxford
James, Ralph D.	U.S.National Research Fellowship		Mathematics	Cambridge
McKellar, Andrew	U.S.National Research	1600	Physics	Massachusetts Institute of Technology.
McRae, James Wilson	Assistantship	600	Physics Mathematics & Elect.Eng.	California Institute of Technology.
Poole, Albert R.	Assistantship		Mathematics	California Institute of Technology.
Tarr, Francis	National Research Scholarship		Elect.Eng.	University of Toronto
Thrupp, Sylvia	Rockefeller Travelling Scholarship	2100	History	
Webber, G.Cuthbert	Fellowship	500	Mathematics	University of Chicago

NOTE: In many cases these Scholarships and fellowships carry with them free tuition or exemption from fees in addition to their monetary value.

Value of scholarships, fellowships and bursaries won by our graduates in other Universities and in Institutes in 1933.....$13,292.00

Total value of scholarships, fellowships and bursaries won by our graduates in other Universities and in Institutes since the first awards were made in 1917..... $463,800.00

Respectfully submitted,
STANLEY W. MATHEWS,
Registrar.

REPORT OF THE DEAN OF THE FACULTY OF ARTS AND SCIENCE.

Reductions in Staff and Courses.

The session 1932-33 opened with a considerable reduction in staff and in the number of courses offered. The details of these reductions need not be recorded in this report as they may readily be obtained elsewhere. Suffice it to say that each Department suffered the loss of some of its regular members while almost all the student assistants and yearly appointees were eliminated. Several courses were dropped, particularly those open to the senior years, and as many as possible of the remaining courses were put on in alternate years. The result was that no more than the minimum number of courses was available for Honours in a single Department and in certain cases not even the minimum. Arrangements were made, however, to count courses in an allied Department when such deficiency occurred.

The loss of the student assistants and the giving of courses in alternate years meant a decrease in the number of sections in the earlier years and an increase in the size of the classes in all years. Marking exercises, laboratory books and term essays - work which in the past had been done very largely by student assistants and done very efficiently - had to be assumed by the members of the staff. Certain senior men also who had not been taking the earlier work were now required to drop some of the more advanced courses and to take First Year work. The Dean is pleased to report that in practically every Department this realignment of work was undertaken without complaint or nearly so.

The M.A. work suffered very materially, particularly in the Departments where the courses available for graduates are not open to undergraduates.

First Year vs. Senior Matriculation.

There will be no debate, in this paragraph, concerning the relative merits of entering Second Year via Senior Matriculation or First Year Arts and Science. Suffice it to say that candidates preparing for medicine should take Biology in their First Year and that those entering Commerce should have Economics. Biology is offered in only a few High Schools

and Economics in none. There are certain schools also, I believe, which do not have adequate scientific equipment to provide for the best individual experimental work in Physics and Chemistry. But these facts are not the determining factors in the decisions to enter the University or to stay another year in the High School. The more important fact is the difference in expense - quite pronounced at the present time. Furthermore, High School Principals and Teachers are very anxious, and quite naturally so, to retain as many of their Junior Matriculants as possible and particularly those who obtain good standing. In fact one Principal frankly declares that he always keeps the best students for Senior Matriculation and sends the others to the University. But there should be no "strife" between the herdsmen of Abraham and of Lot for they are brethren. The "territory" should be divided but not in such a way that either (or both) should eventually land in Sodom. Consideration may very properly be given to the duplication of First Year work in the University and in the Vancouver High Schools. Whatever changes, if any, are proposed it will have to be borne in mind that only First Year English, Mathematics, French and Latin can be dropped by the University as several Senior Matriculants desire First Year courses in Chemistry, Physics, Biology, History and German; and also that the cost of giving the above First Year Courses in English, Mathematics, French and Latin in the University is usually very much less than the proportionate amount of the fees paid for them.

Exclusions at Christmas.

A slight change was made at Christmas in the standing to be obtained so that First and Second Year students would not be required to withdraw for the Second Term. For the last eight or nine years all First and Second Year students who obtained less than 40% on the total at Christmas had been required to withdraw for the Second Term or to confine their work to the lower year in case they were taking some First and some Second Year work together. Last year those who made under 40% but over 30% were allowed to continue but with the number of units reduced from 15 to 9, while those who made under 30% were required to withdraw or to limit their work as formerly.

The 40-60 Rule.

In April 1933, the new "40-60 rule", that is a minimum of 40% in each subject and an average of 60% on 15 units, came into effect. The marks in the First Year were exceptionally poor and it was unfortunate that the higher standard should have been applied at that time. There is of course a relation between the difficulty of a paper and

the passing mark. In the long run practically the same number of candidates will pass on a paper with 75% for the passing mark as on a paper with a passing mark of 50%, for examination papers eventually do conform to the custom obtaining with the wind and shorn lambs. But the 'run' for the 40-60 rule hasn't been 'long' enough yet. Furthermore, the conditions in a great many of the homes, through the cumulative effects of the depression, are such that the students from these homes cannot devote their full time to their studies nor can they concentrate upon study in what time they do have because of worry. In fact certain students failed because they actually could not buy the text-books. A reversion to the 40-50 rule was proposed in April but was not accepted by Faculty partly because the new rule applied to Senior Matriculation. The results on Senior Matriculation in July were likewise in the main, anything but satisfactory. Until normal times return, or until we accustom ourselves to these times as normal if they are normal, a reversion to the 40-50 rule may very properly be considered. After all, the 40-50 rule was in effect for all our graduates, and of their achievements we are unashamed. The primary reason for introducing the new rule was to limit the attendance.

Christmas Examinations for Third and Fourth Years.

A change was proposed, and partially tried, to the effect that there should be no Christmas examinations in Third and Fourth Year subjects or that the examinations in these subjects should be held in the last two lecture periods of each course. This arrangement would permit a week or ten days more of lectures, it would allow the candidate to cover the whole course before being examined, and, most important of all, it would give a few days' holidays between Christmas and New Year's for the staff who had assumed heavier teaching loads. The result of the partial trial was anything but satisfactory. The other Faculties wished to hold examinations as formerly and their schedule prevented a general extension of theperiod of lectures inasmuch as certain subjects, e.g. Biology, Chemistry, Geology, Zoology are given to two or all three Faculties. Those who did attempt to extend the term of their lectures found many absentees from their last lectures and those students who were present had been devoting their time and attention to the subjects upon which they had to write examinations. The students disliked having no Christmas examinations as a greater emphasis had to be put upon the First Term work in preparation for the April examinations. In order to give any such proposal a fair and thorough trial it will be necessary for all Departments and all Faculties to work together.

Changes in Staff.

This report does not record changes in staff for the period covered but reference must be made to two changes which have occurred, viz., the retirement of Professor Henderson and the resignation of Dr. Ashton.

Professor Henderson has been associated with the University since its inception. He was one of the first members of McGill University College, the institution which was the forerunner of the University. At the close of the session under review he had reached the age of retirement and was "elevated" to the rank of Emeritus Professor. He had given long, faithful and efficient service to the University and his genial personality will be greatly missed in the more active work of the lecture room. He was a model of kindly composure in the debates of the deliberative bodies of the University - the Faculty, The Faculty Council and the Senate. He often dissipated brewing storms with apt sallies of Scottish humor. At the close of the Congregation proceedings in May, members of the platform partly adjourned to the Board Room to honour the occasion of his retirement. An illuminated address in Latin was read by his oldest colleague on the staff, Professor L.F.Robertson, a translation (not sight) was read by the Dean and a set of pipes (not musical) was presented by his Honour, the Lieutenant-Governor on behalf of the Faculty.

Dr. Ashton had also been a member of the staff since the opening session of the University. He had charge of the Department of Modern Languages from that time until his resignation and made of it one of the strongest Moderns Departments in Canada. As a recognition of his scholastic attainments, his research and his efficiency as a teacher of French he was honoured by two countries and one University with the highest academic awards which each can bestow - viz., Fellow of the Royal Society of Canada, Chevalier de la Légion d'Honneur (France), and Litt.D., Cambridge. It was with general regret that his colleagues and his many honour graduates learned of his resignation even although he was offered and did accept a distinguished position in his alma mater, Caius College, Cambridge. Not only did he contribute much to the academic standing of the University but as chairman of the Committee on Ceremonies for a great many years he very largely determined the customs which should prevail when the University is on parade. His sparkling wit added zest to many a Faculty meeting and his brilliant robes added colour to many a Congregation.

Respectfully submitted,
D. BUCHANAN,
Dean.

REPORT OF THE DEAN OF THE FACULTY OF APPLIED SCIENCE.

1. Policy.

The general policy of the Faculty remains unchanged.

2. Changes in Courses.

There have been no major changes in courses. In Civil Engineering slight changes in emphasis have been made. Owing to the leave of absence of Dr. Phemister, Geology 14 (Crystallography) was not given. The absence of R.W.Brock and Dr. H.W.Hill necessitated rearrangement of lectures and the employment of lecturers.

3. Publications by members of the Faculty are listed under "Publications".

4. "Other Pertinent Matters"

(a) Number and Distribution of Students.

The effects of the depression continued to show in the number and distribution of the students. An increasing number took Senior Matriculation in place of the recommended First Year Arts at the University.

As the following figures exhibit, Engineering undergraduates showed a slight decrease while the number of graduate students showed a marked increase due to unemployment.

1931-32		1932-33
	Engineering Courses	
278	Undergraduate exclusive of First Year	265
6	Graduates	23
	Nursing	
44	Undergraduate	47
10	Public Health	18
338		353

4 continued.

Registration by Courses.

	Fourth Year		Fifth Year	
	1931-32	1932-33	1931-32	1932-33
Chemical Engineering	11	4	7	9
Chemistry	1	2	-	-
Civil Engineering	10	8	6	11
Electrical Engineering	20	12	14	16
Mechanical Engineering	7	5	10	10
Forest Engineering	2	2	2	2
Geological Engineering	3	2	1	4
Mining & Metallurgical Eng.	4	9	7	5
Nursing.	8	5	4	11

(b) Differences in the distribution of students is overcrowding some departments. The need for extra space outlined in the report for 1929-30 is emphasized.

(c) Student societies have been consolidated as branches of the Engineering Society. The students find them so beneficial that an effort is being made to adjust the time-table so as to give them more time for this form of education.

(d) The large number of graduate students, among whom are experienced graduates, has enabled really first class research work to be done by students under the direction of the staff, in almost all the Departments. One paper in Electrical Engineering is already being published in the Journal of the British Institution of Electrical Engineers.

(e) The cut in the Budget of the Faculty of Applied Science has been met largely by curtailment in the expenditures on supplies and equipment. This of course cannot continue indefinitely, as replacements and new equipment will be necessary in the near future. But since materials are useless without the staff to use them, when the alternative is equipment or staff, the latter has to be chosen.

(f) Curtailment in the staffs, equipment and supplies of the Departments of Chemistry, Physics and Mathematics, which for administrative purposes are in the Faculty of Arts cannot fail to have an effect upon the instruction in these subjects,-

subjects absolutely vital to Applied Science, since all the courses are based upon these fundamental subjects. The thanks of the Faculty of Applied Science are tendered to the Faculty of Arts and the staffs of the above Departments for their efforts to maintain the standards and to minimize the harmful effects of the enforced curtailment.

(g) Mention should be made of the very successful "Engineering Open House" suggested and carried out by the students of Applied Science. It brought thousands of visitors to the University, aroused their interest in it, and gave them some impression of the importance of the University in the development of the Province and its resources. Although held at a season when the students could ill afford to take the time from their studies, they threw themselves wholeheartedly into this work in the well founded hope that by so doing they would bring benefit to their Alma Mater.

(h) Professor J.M.Turnbull acted as Dean throughout the Session, in addition to carrying on his regular duties as Head of the Department of Mining and Metallurgy. I must express my appreciation both of his generosity in taking up this heavy burden and of the able manner in which the work was conducted.

Respectfully submitted,

R. W. BROCK,
Dean.

REPORT OF THE DEAN OF THE FACULTY OF AGRICULTURE

The 1932-33 academic year was quite uneventful. The Faculty carried on with its work under the policy recorded in the last annual report. The teaching or lecture work was carried on under the terms of the Calendar. All land and outside equipment were under lease to private parties throughout the year, but under the terms of the lease the equipment was available for class purposes at stated times.

There were few outside lectures and only such relationship was maintained with the Agricultural industry as could be done without cost to the University.

REGISTRATION.

The undergraduate registration has not suffered by reason of the general depression. There has really been a slight increase - from 53 to 59.

The Post-graduate registration fell from 22 to 12.

AN APPRECIATION.

It is with deep regret that I record the untimely death on August 29 of Professor Wilfrid Sadler, the first Professor of Dairying and head of the Department. He was a respected colleague, a teacher and a thinker. Although he has passed on, his contributions to dairy science, to the fishing industry and to the pulp and paper industry will remain as monuments to his energy and ability.

The foundations of the work in the Department of Dairying were well laid by him.

RESEARCH.

During the year a co-operative arrangement was made with the Empire Marketing Board and the National Research Council whereby the late Professor Sadler and Dr. Blythe Eagles would complete and apply certain researches in relation to the cheese industry of Canada. The illness, and later the passing of Professor Sadler made the completion of this work impossible. The work was being done without cost to the University.

During the past year also, arrangements were completed between the University and the Dominion Department of Agriculture, whereby certain investigations with regard to wheat production will be carried out under the direction of Dr. G. G. Moe, Professor of Agronomy. Dr. Moe, in turn, is working in co-operation with a special Provincial committee on wheat.

This work is being done without cost to the University.

During the past year also, with the aid of private funds, researches have been continued with regard to certain special phases of Paralysis in Poultry. The University has granted the use of a small laboratory and some animal houses to the committee in charge of the work. All salaries and other expenses in connection with the research are paid for from private donations.

Respectfully submitted,

F. M. CLEMENT,
Dean.

REPORT OF THE DEAN OF WOMEN.

Academic Record

Perhaps the most interesting fact to be recorded in connection with the women students during the Academic year closing August 31, 1933, is that seven Doctor of Philosophy degrees were won by women graduates of the University of British Columbia. One degree was taken in English in the University of London, one in English in the University of Chicago, two in French in the Sorbonne, one in German in the University of Munich, one in Zoology in the University of California and one in Zoology in the University of Toronto. The work of the office of the Dean of Women leaves little time for the gathering of statistics but the statement may be ventured that, considering the youth of the University, the financial conditions which make graduate study to many able students almost if not quite prohibitive, and other circumstances, this record if it has been equalled, has not been excelled in the history of Canadian Universities.

In this connection it may be mentioned also that the Governor-General's medal for the head of the Graduating Class of Arts was won last year by a woman as were also the Historical Society Gold Medal and the Kiwanis Club Gold Medal, and that they were won in the fields of Mathematics, History and Commerce which, until recent years, have been considered too difficult for the delicate feminine mind. It may be mentioned also that the first name in order of merit in the Pass List of the graduating class was that of a woman, that the University Scholarship for General Proficiency in the Third Year was won by a woman and that for the first time in this University a Master's Degree in the Science of Agriculture was taken by a woman.

Reduced Attendance

To the reasons assigned for reduced attendance in 1931-32, such as the raising of fees and the introduction of Senior Matriculation into the high schools, must be added this last year the difficulty of securing part time employment. From the early days of the University, a number of students have been able to earn their entire fees, books and living expenses. A larger number have earned these in part. In the summer of 1931, however, it was very difficult for any students, and especially for the women, to obtain work. Even the opportunities to give "light services for room and board" during the

college term have been greatly curtailed. Homes that could not afford the former wage of a maid can now secure competent women who will give full time work for $8 or $10 a month, some for less. Other homes, on the other hand, cannot this year afford to give even room and board to a college girl. It may be noted here that men students are invading former "fields" of the women, such, for example, as staying with children in the evenings when the parents are out. In at least one instance a man student secured a position as "nursery governess." I learn that his services were acceptable!

Financial Assistance

Assistance in the form of bursaries was obtained from the Faculty Women's Club, the University Women's Club, the McGill Women's Club, the University of Toronto Alumnae, the Manitoba Alumnae Association, the Overseas Group of University Women, the P.E.O.Sisterhood and from a number of women whom it was possible to interest in individual cases of emergency. A former student now teaching in a neighboring town who had been helped through her course organized a small group of high school students to gather vegetables and fruit which were being left in the fields. Some of her friends contributed eggs, honey, etc., etc., and a truck load was sent down. This was distributed as need was discovered. From the University Women's Club and from other interested women, clothing was received, some of which is still in evidence on the campus this year. Graduating students have left behind books for distribution. The only necessity of which there has been no lack is boarding houses and in this matter the surplus causes almost as much difficulty as would be created by a dearth.

Campus Activities

In the field of Athletics the fact that a Canadian record was made by a woman student is not so important as that a larger number of women than usual took part in games and in athletic activities generally. An attempt was made to follow the new tendency in women's athletics away from Contests in a League and toward "sport for sport's sake" and "a game for every girl" within the University, and "Play Days" with neighboring Universities. Scientific investigation has shown that the nervous strain on women students of competition between classes, departments etc., within the University is not so great as that occasioned by competition between Universities or in a League. It has also shown the value of women coaches and of women's rules for women's games.

It is unnecessary to point out the need for a department of physical education especially for the women. Under present conditions with the gymnasium and the playing field assigned almost exclusively to the men and to the teams, and in the absence of a physical director, and with the domination of the Leagues it is difficult to arouse interest in physical development among the women students generally. The progress during the past year, however, is worthy of comment and has created a sentiment which may be productive of good results in the future. In this matter it has been possible to arouse the interest of former women leaders in athletics at the University.

Sororities made some progress during the year in the curbing of their activities. Here, too, the University is hampered by outside interference, which comes in this case from the headquarters in the United States. Gradually the fraternities on the campus are achieving a certain degree of autonomy not usually granted by their governing bodies to the local groups. Under a system of student government a movement to curtail activities imposed by the National Committee, must come from the students themselves. But they have shown themselves open to suggestions and are moving in the right direction.

The attempt which has been made for some years to remove the barrier between Fraternity and non-Fraternity women achieved considerable success during the past year. Through this effort the feeling of inferiority felt almost inevitably by the women who have not been "bid" was to some extent broken down. On our campus as on every other there are always a number of students, both men and women, who because of their home life, a natural shyness or some other reason, do not make contacts easily. In times like these, the home conditions of the present, and the prospects for the students' own future are often very depressing. This is particularly true in the case of women. If the outlook of the student is to be made healthy she must have the social contacts which the normal life affords and which are as essential to her success and happiness in life as are many of the courses for which she receives credit.

General

It need not be added, perhaps, that the usual help to students in difficulty about the choice of vocations, courses to fit for the vocation chosen, refractory time tables, planning of policies and of programs for student organizations, letters of recommendation etc., etc.; the usual addresses to student groups; the usual number of addresses to organizations not on the campus, among them the International Congress of Women, have been given.

Respectfully submitted
Mary L. Bollert
Dean of Women.

REPORT OF THE DIRECTOR OF THE SUMMER SESSION.

The Summer Session, ended August 19th last, has been quite successful both from the academic, financial and administrative points of view. The attendance, notwithstanding prevailing economic conditions, has been highly satisfactory.

The final attendance this year, after allowing for withdrawals, was 362 as compared with 405 in 1932 and 441 in 1931. The necessary quota (12 students) was reached in all subjects.

Attention might be drawn here to the statement in my report of last year regarding a proposed "Special Summer Session Fund" as well as to the section on "Preparatory Reading Examinations."

Preparatory Reading Examinations.

Preparatory Reading Examinations have not been required this year. I am extremely doubtful as to whether these examinations fulfil any sound educational purpose or not. In my judgment, the University would be justified in rescinding, or at least in indefinitely suspending, the regulation governing examinations on preparatory readings.

Data Regarding Summer Session Students.

The following may prove of some interest:-

(a)	Average Age of Summer Session Students;	28.9 years
(b)	Ratio of Males to Females;	5-1
(c)	Ratio of Married to Single Students:	4:7
(d)	Average Number of Years - Teaching School:	8.1 years

This information may prove illuminating in comparisons made between the work accomplished, standards attained and so forth, by Summer Session and Winter Session students.

No instructors from outside the Province were engaged for the Summer Session, 1933.

In conclusion the Director of Summer Session expresses his appreciation of the cordial spirit of co-operation manifested by the Staff, Student Body and Administrative Officials of the University in making the Summer Session of 1933 a success.

Respectfully submitted,

G. M. WEIR,
Director of Summer
Session, 1933.

REPORT OF THE EXTENSION COMMITTEE

I have the honour to present the following report of extension work for the year beginning April 1st, 1932 and ending March 31st, 1933.

The Committee arranged for 65 lectures (of which all but three were delivered by members of the staff); 219 others were reported, making a known total of 284. In addition the Committee provided 22 radio lectures (20 by members of the staff, one by a member of Senate, and one by a member of the student body), and one other radio address was reported. The total estimated attendance indicated for 263 of the 284 public lectures was 32,157, an average of just over 122.

Addresses were given in twenty-one centres in the Province. Arranged by districts, these were distributed as follows:-

Vancouver and vicinity.....	181
New Westminster and vicinity.....	15
Fraser Valley.....	16
Vancouver Island.....	21
Okanagan Valley.....	9
Other points.....	5
Unplaced.....	37
T o t a l	284

Respectfully submitted,

O. J. Todd,
Secretary of the Extension
Committee.

REPORT OF THE ACTING-HEAD OF THE UNIVERSITY HEALTH SERVICE.

I have the honour to present herewith:

1) Report to me of the Medical Examiner, Dr. Harold White, and

(2) Report to me of the Public Health Nurse, Mrs. C. A. Lucas.

Since my report of May 4th, 1932, covers the general subject rather fully, I would ask that that report be re-read and the recommendations therein be considered as repeated this year.

I would call especial attention to the ninth paragraph of Mrs. Lucas' report in which she outlines a certain amount of slip in the forwarding of certificates to her from the offices of the Deans. It would seem that since this question has been ruled upon to the satisfaction of all concerned, and that we have received about three-fourths of the certificates promptly, it should be no great matter to secure the other one-fourth promptly also.

Respectfully submitted,

H. W. HILL,

Acting-Head University
Health Service.

REPORT OF THE MEDICAL EXAMINER OF STUDENTS.

I beg to submit the annual report upon the physical examination of students of the First Year and those of other years who entered the University for the first time during this academic year.

The number of students examined was 188 less than that of the preceding year.

A new system of acquainting the Health Service of physical defects in the students was put into operation this year. Each

evening on returning by mail the list showing the names of students examined that day, a note of the physical defects was made opposite the name of the student so that the Health Service received the information on the following day, and the follow-up work was started immediately. This resulted in more efficient health work.

In most cases the student's disabilities were discussed with him and advice given regarding the obtaining of necessary treatment. In a few cases in which it was considered more desirable the information was given to the parent by letter or telephone.

The health of the students in general was found to be very good.

The average height, weight and chest expansion of the men is slightly less, and those of the women slightly greater than those of the preceding year.

Owing no doubt to the occurrence of a limited epidemic of hemorrhagic smallpox during the opening months of 1932, a much larger percentage of students was found to have been vaccinated, only a small proportion being unprotected against smallpox.

Much time was saved this year as well as last, by giving all of the new students a general talk on health matters on the opening day of the session. It was gratifying to note that many had remembered and acted upon the suggestions made by me at that time, regarding healthful ways of living, especially in the matter of regular outdoor exercise.

On account of illness in her family Dr. Monica Saunders was unable to complete the examination of the women, but Dr. Isabel Day ably carried the work to completion.

Through the kindess of the Superintendent of the Vancouver General Hospital, the Out-patient Department was once more made available for this work.

Respectfully submitted,

Harold White,
Medical Examiner of
Students.

REPORT OF THE PUBLIC HEALTH NURSE.

I have the honour to present my sixth annual report as part-time public health nurse of the University of British Columbia.

We have to report with sincere regret the death of three students.

Total persons receiving professional attention numbered 1,476. The total number of services, including First Aid, vaccination and health advice, was 1,639. Time lost to students-1,419 days.

Consultations with, and reports sent to, the Deans and Professors numbered 145.

Consultations with parents and physicians numbered 143. One hundred and twenty-nine (129) written reports were received from physicians and dentists. Twenty-three (23) sick and injured students were transported home. This group lost 375 days.

One hundred and sixty (160) students and members of the Faculty and Staff reported communicable diseases. Of these, 96 were suffering from the effects of the common cold, 55 from influenza, 1 student had chickenpox, and one student had mumps.

There were 21 skin infections; of these 17 had contracted "athlete's foot' disease and 4 were suffering from scabies or impetigo. This group lost 1,044 days.

Approximately 126 miles were travelled in the interest of sick and injured students.

An arrangement was made some time ago with the offices of the Deans, by which all medical certificates relating to the absence of students during term are submitted to the University Health Service as soon as received. This has been of great use in the three-quarters of the total certificates which were promptly thus forwarded. We hope still further value from this arrangement as the method of prompt forwarding improves. This, besides being the recognized scientific method of checking epidemics, is also a means of checking time lost.

In order that we may have some index of the effectiveness of the preventive work carried on by the University Health Service and of the need for future work along certain lines, it is necessary

to keep an accurate record of every day lost through sickness. In undertaking this work through the University we are not unmindful of the fact that the resulting figures may be of some service to scientific Public Health workers.

Respectfully submitted,

Celia A. Lucas,

Public Health Nurse.

REPORT OF THE OFFICER COMMANDING

CANADIAN OFFICERS' TRAINING CORPS

UNIVERSITY OF BRITISH COLUMBIA CONTINGENT

Officer Personnel

Lieut. Col. H.F.G.Letson M.C.	Commanding Officer
Major G.A. Lamont C.A.M.C.	Medical Officer
Lieut. G.J.Spencer	attached Hq.
Lieut.E.S.Catherwood C.M.G.C.	attached Hq.
"A" Company	
Major W.A.Carrothers D.F.C.	Company Commander
Lieut.R.Irving	B.C.Hrs.
"B" Company	
Capt.G.M.Shrum	Company Commander
Lieut.V.J.Southey	

Instructors from P.A.M.

Q.M.S. I Smith P.P.C.I again carried out instructional and general duties for the period. The measure of success attained by the Corps was in a large measure due to the efforts and devotion to duty displayed by this Warrant Officer.

Capt. E.M.MacBrayne M.C. conducted the lectures for one night a week for candidates preparing for Certificates "A" and "B". This work was carried on in addition to his duties as District Cadet Officer. His skill and interest in the work are shown by the results attained at the examinations.

Training (General)

Weekly Corps parades were held on Wednesday evenings from 7.30 to 10.15 p.m. at the Beatty Street Armouries. This was possible through the kindness of Lt.Col. G.H.Whyte M.C., V.D., O.C. Beatty Street Armouries.

This training was augmented by lectures held at the University from 12 to 1 p.m. on Thursdays.

Musketry

Members of the Corps carried out the prescribed course of Musketry on the Blair Range during October and November.

On the 30th October at Blair Range the Inter University Service Rifle Competition was fired over ranges 200-500-600 yds. Weather conditions were fair. The high score was recorded by Cadet Sgt. D.S.Worthington with a score of 102 out of a possible 105, thus winning the Gen. Leckie Challenge Shield for the year.

Annual Inspection

The Annual Inspection by the D.O.C. Brigadier J.Sutherland Brown C.M.G., D.S.O. took place at 8 o'clock 1st March,1933 at the Beatty Street Drill Hall. The Inspecting Officer expressed his full satisfaction at the work being carried out by the Corps and complimented them on their efficiency and appearance on parade.

Training (Special)

The courses leading to Certificate "A" (Lieuts.) and Certificate "B" (Capts.) were conducted by Capt. E.M.McBrayne M.C. and Q.M.S.I. A.A.Smith both of the P.P.C.L.I. Physical training was conducted by Q.M.S.I. W.Frost P.P.C.L.I.

In order that no member of the Corps would be called upon to devote more than one evening per week to this work Corps Parades and Certificate Lectures were held on Wednesday evenings at Beatty Street. Candidates for Certificates were given supplementary lectures during noon hour periods throughout the training season. The training season was divided into three parts.

Fall term	1st October to 23rd November 1932
Victoria	1st January to 8th January 1933 for 2 officers 32 O.R.
Spring term	11th January to 1st March 1933.

Prizes, Scholarships, etc.

Cadet G. M. Volkoff was awarded the University Scholarship for General Proficiency in Third Year Arts and Science.

Cadet Corp A.J.Johnson shared the Vancouver Women's Canadian Club Scholarship for History.

General Comments

The general work of the Corps progressed well during the year. There was some dimunition in strength from 101 to 68. However the percentage of attendance and interest shown was greater than at any other time during my command. The falling off in numbers

may be accounted for by the smaller Freshman class due to Senior Matriculation being given in High Schools.

The number studying for Certificates was greater than before and the results were of the usual high standard. The thanks of the Corps are again tendered to Capt. E.M.McBrayne M.C. and Q.M.S.I. A.A.Smith for their unfailing interest in the Corps and their excellent instructional efforts.

All ranks again donated all their pay and allowances to Corps funds.

The yearly audit of funds was carried out by a Board appointed for the purpose and all books and accounts were found correct.

The Ordnance inspection was satisfactory.

The interest and the efficiency in musketry were greatly enhanced by the completion of the miniature Rifle Range in the basement of the Arts Bldg. This was constructed at no expense to the University or the public, the total cost (approx. $1000) being paid from Corps funds.

The matter of a distinctive uniform for C.O.T.C. has been approved by N.D.Hq. but an issue has not yet been received by this unit. McGill and Laval have received their issue and as funds become available further issues will be made. It is not expected that this will occur this year.

The number of cadets who are taking commissions in the Militia is steadily increasing and the comments of Commanding officers on ex-cadets in their units are highly favorable in every case.

There were no breaches of discipline of any kind during the year.

The Officer Commanding wishes to record his appreciation of the assistance and co-operation afforded him by the Chancellor, the President, the Board of Governors, the Committee on Military Education, the D.O.C.M.D. No. 11 and Staff and to O.C.'s 23 Inf. Bde. 15th Field Bde. and B.C. Regt. (D.C.O.R.).

Respectfully submitted,

H.F.G.Letson

Officer Commanding.

PUBLICATIONS

FACULTY OF ARTS AND SCIENCE.

DEPARTMENT OF BACTERIOLOGY:

Miss Helen M. Mathews:

"Study of Certain Marine Bacteria."
Contributions to Canadian Biology and Fisheries.
(In Press).

Dr. D.C.B.Duff and B.J.Stewart:

"Studies on Furunculosis of Fish in British Columbia."
Contributions to Canadian Biology and Fisheries, VIII,
No. 8 - (Series A. General, No. 35.)

Mr. Jacob Biely and Dr. V.S.Asmundson:

"Fish Meal Supplements for Chicks, Part I."
Scientific Agriculture, XIII (4) 1932, pp. 236-248.

"Fish Meal Supplements for Chicks, Part II."
Scientific Agriculture, XIII (7), 1933, pp.435-438.

Mr. Jacob Biely and Mr. William Roach:

"Comparison of Repeated Rapid Whole-blood, Rapid Serum
and Tube Agglutination Tests."
Journal Comp. Path. and Therap. XLV. (3) 1932, pp.224-229.

Mr.Jacob Biely, Mr. E.A.Lloyd and Mr. William Roach:

"Pullorum Disease,"
Mimeographed Bulletin
Department of Agriculture, Victoria, B.C., 1933.

Mr. Jacob Biely and Miss Elvira Palmer:

"The Aetiology of Fowl Paralysis." (A Review of Literature)
Vet. Record, XLIV. (2312) 1932, pp. 1302-1309.

Mr. Jacob Biely, Miss Elvira Palmer and Mr. I.Michael Lerner:

"Fowl Paralysis (Neurolymphomatosis gallinarum) in Chicks
under Three Months of Age."
Can. Journal Research, 8, 1933, pp. 305-311.

Reported under Faculty of Agriculture-Department of Poultry Husbandry.

Department of Bacteriology continued:

Mr. Jacob Biely, Miss Elvira Palmer, Mr. I.Michael Lerner and Dr. V. S. Asmundson:

"Inheritance of Resistance to Fowl Paralysis (Neurolymphomatosis gallinarum)," Science, 78, 1933, p. 42.

Mr. Jacob Biely and Miss Elvira Palmer:

"The Antirachitic Value of Pilchard Oil (Sardine Oil) for Growing Chicks." Scientific Agriculture, 14 (2) 1933.

Mr. Jacob Biely and Mr. William Roach:

"Further Studies on the Comparative Value of the Rapid Whole Blood (Stained Antigen) Agglutination Test and the Serum Agglutination Test for Pullorum Disease." In Press.

Mr. Jacob Biely, Miss Elvira Palmer and Mr. E.A.Lloyd:

"Fowl Paralysis (Neurolymphomatosis gallinarum)" Fifth World's Poultry Congress, Rome, Italy, 1933.

DEPARTMENT OF BOTANY:

Dr. A. H. Hutchinson and Miss M. R. Ashton:

"The Effect of Radiant Energy on Diastase Activity." Canadian Journal of Research, 9, 49-64, 1933.

Dr. A. H. Hutchinson:

"Longevity and Periodicity of Growth in Trees." Proceedings of the Fifth Pacific Science Congress, 1933.

Mr. John Davidson:

"Poisonous Plants of British Columbia." The Western Pharmaceutical Review, June, 1933.

"Medicinal Plants of British Columbia." The Western Pharmaceutical Review, July, 1933.

#Reported under Faculty of Agriculture-Department of Poultry Husbandry.

Department of Botany continued:

Dr. A. H. Hutchinson and Mr. John Davidson:

"Guides for the Pacific Science Congress - 1933"
Botany of Vancouver Island - Botany of Vancouver District - Botany of Southern British Columbia.

DEPARTMENT OF CHEMISTRY:

Dr. J. A. Harris and Dr. William Ure:

"Experimental Chemistry for Colleges." - (Book)
McGraw-Hill Book Company.

Dr. W.F.Seyer and Mr. E.G.King:

"Systems of Sulphur Dioxide and Hydrogen Derivatives of Benzene"
Journal American Chem. Society 55, 3140, 1933.

Dr. William Ure and Mr. F.A.DeLisle:

"The Equilibrium between Ammonium Thiocyanate and Thiourea in Solution."
Trans. Royal Society Canada, Sec. III, 33.

Dr. William Ure and Mr. John T. Young:

"On the Mechanism of Gaseous Reactions - Homogeneous Catalysis in the Decomposition of Methyl Ethyl Ether."
Journal Phys. Chem. 1933.

Dr. R.H.Clark and Mr. Alan Bell:

"A Systematic Study of the Preparation of Acidyl Halides from the Corresponding Acids."
Trans. Royal Society, Sec. III, 1933.

Dr. W. F. Seyer:

"The Conversion of Fatty and Waxy Substances into Petroleum Hydrocarbons."
Fifth Pacific Science Congress, June, 1933.

DEPARTMENT OF ENGLISH:

Mr. Thorleif Larsen:

"A Bibliography of the Writings of George Peele." Modern Philology, 1933.

Dr. W. L. MacDonald:

"John Dryden" (1631-1700). The Bookman (American) 1933.
"The Augustan Mobility." The University of Toronto Quarterly (1931).

Dr. G.G.Sedgewick:

"Of Disillusionment in Freshmen." Queen's Quarterly. 1933.

DEPARTMENT OF GEOLOGY AND GEOGRAPHY:

Dr. R.W.Brock: (In conjunction with Dr. S. J. Schofield and Dr. M.Y.Williams.)

"Report on the Geology and Mineral Resources of Hong Kong and the New Territories." (In press).

Dr. S. J. Schofield: (In conjunction with Dr. R.W.Brock and Dr. M. Y. Williams.)

"The Geology of British Columbia."

Dr. M. Y. Williams:

"Geological History of the Southwestern Plains of Canada."
Journal of Geology, Vol. XL, No. 6, Aug.-Sept. 1932. pp. 560-575.

"Distribution of Life around the Pacific."
Read before Pacific Science Congress at Vancouver, June, 1933, and to be published in Transactions.

"Biological Notes covering parts of the Peace, Liard and Great Bear River Basins."
Canadian Field Naturalist, Feb. 1933, Vol. XLVII, No. 2, pp. 23-31.

Department of Geology and Geography continued:

Dr. M. Y. Williams:

"Fauna of the Former Dominion Peace River Block, British Columbia."
Province of B.C. Report of Provincial Museum of Natural History, 1932, pp. C 14 - C 24, 3 plates.

Dr. H. V. Warren and Mr. Rodger W. Loofbourow:

"The Occurrence and Distribution of the Precious Metals in the Montana and Idaho Mines, Ruby, Arizona."
Economic Geology, Vol. XXVII, No. 6, Sept. 1932.

Dr. H. V. Warren and Mr. Rodger W. Loofbourow:

"The Occurrence and Distribution of Silver in the Silver King, Coalition Mines, Park City, Utah."
Economic Geology, Vol. XXVII, No. 7, Nov. 1932.

"Relation between Silver Content and Tetrahedrite in the Ores of the North Cananea Mining Company, Cananea, Sonora, Mexico."
Economic Geology, Vol. XXVII, No. 8, Dec. 1932.

DEPARTMENT OF HISTORY:

Dr. W. N. Sage:

Articles: "The Critical Period of British Columbia." 1866-1871 - Pacific Historical Review, December, 1932.

"British Columbia says Klahowya."
Kiwanis Magazine, July, 1933.

Review of: "The Drums of Lanoraye"
by Annie Ermatinger Fraser
Canadian Historical Review, March, 1933.

"New Spain and the West."
Canadian Historical Review, September, 1933.

Department of History continued:

Mr. F. H. Soward:

Pamphlets: "Canada and the League of Nations." International Conciliation, New York, October, 1932.

A revised and enlarged edition of the pamphlet previously published in Canada.

Articles: "Three Years of the Five Year Plan." Dalhousie Review, October, 1932.

"The Address of the Honourable Mr. Cahan." Interdependence, March, 1933.

"The March of Events in 1932." Vancouver Sunday Province, January 1, 1933.

Reviews: "The Capital Question of China" by Lionel Curtis - Pacific Affairs, January, 1933.

"The Diplomatic Relations of the United States and Japan." by Payson J. Treat Pacific Affairs, February, March, 1933.

"Some Educational Factors Affecting the Relations between Canada and the United States." by Dean Hauck - Canadian Historical Review, December, 1932.

As in the past Mr. Soward has assisted in the editorial work on Canada for the Political Handbook of the World, 1933.

Professor Soward read a paper on Canada and the Far Eastern Crisis at the May meeting of the Canadian Historical Association at Ottawa, and this paper was sent in as a data paper to the Conference of the Institute of Pacific Relations at Banff.

DEPARTMENT OF MATHEMATICS:

Dr. D. Buchanan:

"The Spheroidal Pendulum"
American Mathematical Monthly.

Department of Mathematics continued:

Dr. F. S. Nowlan:

"Analytic Geometry" - Book - 295 pp.
McGraw-Hill & Company,
"Transformation of a Total Matric. Algebra." In Press.

Mr. L. Richardson:

"Applications of Vectors to Spherical Trigonometry."
American Mathematical Monthly.

"Linear Representation of Hyperbolic Functions" (In Press).

Mr. Walter H. Gage:

"On Theta Phi Indentities."
Bulletin, American Mathematical Society,
July, 1933.

DEPARTMENT OF PHYSICS:

Mr. Black and Dr. J.G.Davidson:

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