

UNIVERSITY OF BRITISH COLUMBIA



PRESIDENT'S REPORT

1945 - 1946

**Report of The President**

**OF THE**

**University of British Columbia**

**For the Academic Year  
Ended August 1st, 1946**

# Report of The President

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# Report of The President

ACADEMIC YEAR 1945-46

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

Gentlemen:

I have the honour to submit the following report on the work of the University for the academic year ended August 31st, 1946. The annual reports of the Deans of the Faculties and of certain other administrative officers are included herein, as is also a list of publications by members of the staff.

## INTRODUCTION

The year 1945-46 has been one of the most difficult and one of the most challenging periods in the history of the University of British Columbia. It has been a period of reconversion during which the University has emerged from a comparatively small provincial institution into the second largest in the Dominion. This sudden expansion has been largely due to the influx of several thousands of veteran students. The interest which these young men and women are showing in higher education is, of course, not peculiar to the University of British Columbia; it is a world-wide phenomena and one which augurs well for the future. However, it has brought with it, to our campus as to others, many complex problems.

Most serious of these problems has been that of accommodation — space for lecture rooms, laboratories and living quarters. Before the war, the University had buildings and equipment adequate to accommodate comfortably a maximum of 2,500 students. In the 1944-45 Session, the year preceding that covered by this report, these facilities had already become overtaxed by an enrolment of almost 3,000 students. In September, 1945, more than 5,600 students were registered for various courses and over half of this number were veterans newly discharged from the services. The Special Winter Session, which commenced in January, enrolled a further 1,100 ex-service men and women. After the termination of the regular Spring Session, the University remained in operation until late June to give instruction to another group of 2,000 veterans, 600 of whom had registered for the first time. These huge enrolments were continued in the regular Summer Session which had a record attendance of 2,400 students, approximately as high as average pre-war enrolments in the regular Winter Session.

Thus, the University, during the period under review, gave instruction to a total of almost 8,000 students. Moreover, it remained continuously in operation from September, 1945 to August, 1946. In spite of tremendous difficulties—shortage of accommodation, staff and equipment, it refused admission to no student, veteran or non-veteran, who had the necessary academic qualifications.

## EMERGENCY ACCOMMODATION

The University solved its difficult over-crowding problems by the acquisition of army and air-force huts, transported to the campus from many parts of the Lower Mainland as well as from Vancouver Island. A considerable number of these huts had been installed and converted into lecture rooms by the opening of the term in September, 1945, and throughout 1946 this programme of emergency accommodation has been continued. It has been one of the major undertakings of the year under review.

Statistics now available reveal that we have secured huts from twenty-two different localities. Fifteen complete army and anti-aircraft camps have been taken over. Of these, twelve have been moved in entirety to the campus, while the remaining three—at Acadia, the Fort and Lulu Island—have been converted into living quarters on their original location. Before the end of 1946 we will have in use a total of 250 individual units, but as some of these are of an enlarged type, this figure is equivalent to 310 standard-size, 60 ft. by 24 ft. huts.

Exclusive of the huts at Little Mountain, which we are now in the process of converting into fifty suites for married students, these huts provide living accommodation for 735 single men and women, and for 150 married students and faculty with children. In addition, at University Camp, Acadia Road, there are more than sixty trailers in three separate camp units. These are used as temporary housing for married veterans with children.

On the campus itself, huts provide 37 lecture rooms with a total seating capacity of 4,000 students, 36 laboratories accommodating 900 students at one time, as well as a great many reading rooms, drafting rooms, offices and rooms for special purposes and student clubs. Several huts have also been converted into snack shops and this has increased to 12 the number of places on or near the campus where students and faculty may obtain hot food. Accommodated completely in centralized hut-units are the Faculty of Law, the Department of Pharmacy, Nursing and Health, Architecture, Commerce and University Extension as well as the B. C. Research Council.

Through this use of army and airforce huts we have been able to meet the immediate problems arising out of the increased enrolment. The success of this programme of emergency accommodation has been due in no small measure to the work of Dr. G. M. Shrum, Director of University Extension, to Mr. John D. Lee, Superintendent of Buildings and Grounds, and to their respective staffs. Credit must also go to the firm of Armstrong and Monteith for their very excellent and speedy work in the reconversion of these huts. And finally, we are deeply indebted to the Army, the Airforce and War Assets Corporation for their generosity and co-operation.

## SPECIAL COURSES

In order to make it possible for veterans to begin their studies as soon after discharge as possible, the University had established, as early as 1944, a Special Winter Session from January to April. In addition to this course, this year the University enrolled a further group of veterans in a Special Spring Session covering the period of May 6th to June 28th. Nine units of credit were allowed in the Special Winter Session and six units in the Special Spring Session. With the establishment of these two courses, newly discharged veterans were able to enter the University in January, May, July or September, and so avoid long periods of waiting and loss of valuable time. A saving of time was also effected by means of the fact that a veteran student could complete a full year's work in Arts in the period from January to the end of June, and a full year's work in Applied Science in the period from January to August, at the end of the Summer Session. Although the special courses have proven useful for the above reasons, experience has shown that they can be considered as only a temporary measure. It has been found that consistently good work can not be attained by concentrated study over such a long period of time.

## STAFF

During the past year we have been extremely fortunate in securing the services of many outstanding men in various fields of education from other universities. The tremendous teaching burden has been considerably eased too, by the return of several members of the Faculty from wartime service. We have also recruited to the staff a number of retired high school teachers and married

women, qualified to teach in certain subjects. In addition, we have trained and capable students to postpone their postgraduate work in trying period; as Assistants and Instructors, they have carried on excellently their duties with exemplary goodwill.

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I cannot speak too highly of the work of the entire Faculty this past year. Their cheerfulness, willingness to work long hours are more than any other single factor for the success which we have in student enrolment. I am grateful too, to those senior members of Faculty who agreed to stay on and help us out in this emergency.

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## STUDENTS

The general student body has accepted the many hardships of this difficult year with patience and good humour. In spite of extremely overcrowded class rooms and laboratories, shortage of textbooks and lack of proper places in which to study, they have throughout exhibited a spirit of the highest order. Without this patience and willingness to co-operate, it is certain that we would not have been able to carry on under these adverse conditions. The veterans, in particular, are due for special praise. All of us connected with the education of these young men and women from the services have been impressed by their keenness and application, their initiative, and the high calibre of their work. They are mature and purposeful, and it has been a thrilling experience to direct them in their studies. I, personally, am fully convinced that no university could wish for a better group of students, and I feel sure that the country and the government which has made their education possible will be rewarded a hundredfold by the contribution which they will make after their training is completed.

## THE PRESS AND PUBLIC

I would like to take this opportunity of thanking the press, radio and other news agencies for their generosity in all matters in which we have sought their aid. Their co-operation in our appeals for student lodgings has made it possible for us to secure accommodation for every person attending the university. In this particular matter the citizens of Vancouver have been most generous. It would be impossible to list the number of people who have opened their homes and made room for one or more deserving students.

## CURRICULUM

The increased enrolment has brought with it a demand for a greater variety of subjects and courses in the University curriculum. To meet this current demand for more specialized training as well as to expand the service of the University to the community on a permanent basis, a new Faculty, several new Departments and a great many new courses were established or planned during the year.

A Faculty of Law, organized in the summer of 1945, was officially opened at the beginning of the 1945-46 Session. We were extremely fortunate in securing as Dean of the new Faculty, Professor George F. Curtis, formerly of the Dalhousie Law School, and, as Associate Professor, Mr. Frederick Read, from the University of Manitoba. An enrolment of about thirty students had been anticipated; however, when registrations were completed late in September, it was found that almost eighty had entered the new Faculty. The largest proportion of this number were returned men. The University undertook to extend the facilities of the new Faculty to Law Society students and, for a five month period, co-operated with the Law Society in conducting a Refresher Course for young men returning to their practices after wartime service. From its formation and throughout the year the Faculty has received the full co-operation of the legal profession. Members of the Bar have generously given their services as part-time and special lecturers. Temporary accommodation had been provided for the new Faculty in a centralized hut-unit. However, with the large enrolment — about 200 students are expected to enrol for the 1946-47 Session — it quickly became evident that larger quarters would be necessary. A new building, with a spacious library, offices, lecture hall and study room has been constructed and is already in operation.

This year, for the first time, degrees were offered in the Departments of Social Work and Home Economics. The Department of Social Work has been accorded full status as a graduate school and

this year received further recognition by being granted accredited standing by the American Association of Schools of Social Work. The degree of Bachelor of Social Work (B.S.W.) was conferred on graduates at the Spring Congregation, and at the termination of the 1946-47 Session, the Master's degree will be conferred for post-graduate study. Courses in Home Economics had been commenced in the 1941-42 Session. The Fourth Year course of this work was given during the regular Fall and Winter terms, and the degree of Bachelor of Home Economics (B.H.E.) conferred on the first graduates in May, 1946.

Plans are now complete for the establishment in the 1946-47 Session of the following new Departments offering degree courses: Physical Education, Architecture and Town Planning, Pharmacy, Agricultural Engineering and Agricultural Mechanics. New Chairs or Departments will also be set up in Slavonic Studies, International Studies, Music, and Engineering Physics, while courses in Dramatics, Food Technology, Aeronautics and Pre-Optometry have been added to the curriculum of existing Departments. Other proposed developments in the curriculum include the splitting up of the Department of Modern Languages into separate Departments of French, German and Spanish, the discontinuation of the double degree courses in Commerce and Forestry, the lengthening of the Commerce course to five years, and the re-organization of the courses in Mining, Forestry and Commerce.

## MEDICAL EDUCATION

The University has been subject to considerable pressure during this past year for the establishment of a Faculty of Medicine. From the outset it has been apparent that this would be an undertaking of major proportions, both financially and from the point of view of plant and facilities. Before coming to any decision, it was felt that full information concerning the establishment of a school of medicine should be obtained and studied. In January of this year, therefore, Dr. C. E. Dolman, Head of the Departments of Preventive Medicine and Nursing and Health, was asked by the Board of Governors to make a survey of Medical Schools in Canada and the United States. Dr. Dolman returned later in the spring and reported his findings to the Board of Governors. During the same period an independent survey was conducted by a representative of the Vancouver Medical Association. The results of this survey were also submitted to the Board for its consideration. These reports were extremely valuable and helpful in bringing to light the many factors which will have to be considered in the setting up of a Medical Faculty. A third survey was conducted by a group of medical experts from other parts of Canada and the United States. They were asked to advise the Board as to the feasibility of establishing a Medical School, the estimated cost, the site of a training hospital and full details as to the steps which must be taken if a school were adjudged feasible. Those who accepted this invitation and visited Vancouver for this purpose were:—

- Dr. R. F. Farquharson, Professor of Therapeutics, University of Toronto.
- Dr. Herman G. Weiskotten, Dean of Syracuse University College of Medicine.
- Dr. Victor Johnson, Secretary of the Council on Medical Education and Hospitals, American Medical Association.
- Dr. Ernest W. Goodpasture, Dean of Vanderbilt University School of Medicine.
- Dr. Alan Gregg, Director, Division of Medical Sciences, Rockefeller Foundation.
- Dr. J. J. Ower, Professor of Pathology and Dean, Faculty of Medicine, University of Alberta.
- Dr. L. R. Chandler, Professor of Surgery and Dean, Stanford University College of Medicine.

In the meantime, every possible help has been given to graduate and senior students now qualified for entrance to medical schools. In spite of the crowded conditions at all Canadian Universities, a considerable number of U.B.C. students have been accepted by medical colleges in other parts of the Dominion. A survey is now being undertaken of all students at the University who are intending to study medicine, and an Advisory Board set up to interview pre-medical students and advise them as to courses, qualifications and opportunities.

## PERMANENT BUILDING

The acquisition and reconversion of army huts has in no way eased the critical need for permanent buildings at the University. Thanks to the \$5,000,000 appropriation made available by the Provincial Government, we are embarking upon an extensive programme of permanent building construction. The new Physics Building, which will cost approximately \$770,000 was commenced early in the year and should be ready for occupancy in September, 1947. Construction is also well advanced on the Agricultural Pavillion at a cost of \$40,000. Plans have been approved and tenders

let for the North Wing of the Library (\$720,000), and tenders will shortly be called for the extension to the Boiler-Plant and Power House (approximately \$300,000). Other permanent buildings, now being planned or considered are an Applied Science Building, Pharmacy and Biological Sciences Building, Home Economics Building and Women's Residence. \$75,000 and \$30,000 have been contributed from private sources for the Home Economics and Pharmacy Buildings respectively. Of the original Provincial Government allocation, \$1,500,000 has been tentatively earmarked for buildings related to the proposed Medical Faculty.

## VETERAN'S COUNSELLING SERVICE AND EMPLOYMENT BUREAU

In October, 1945, a Veterans' Counselling Bureau was set up on the campus under the direction of Major John F. McLean, D.S.O. This service was later expanded to take over the work of student employment, formerly handled by the Alma Mater Society. This combined service has proven of inestimable value to both veterans and the general student body. The two full-time counsellors, Major McLean and Dr. W. G. Black, aided by certain Faculty members acting as part-time counsellors, have personally interviewed all student veterans and have given advice and assistance to those requiring it. Aptitude and intelligence tests have been conducted, and everything possible done to make the veterans' readjustment to civilian and University life easier. The Veterans' Bureau has worked in close liaison with the Department of Veterans' Affairs and has taken charge of the disbursement of educational allowance cheques. In the matter of employment, the Bureau has been successful in securing part-time and seasonal work for both veteran and non-veteran students, and has made a beginning in the placement of graduates in permanent positions. Excellent relations between the University and employers have been established, and it is now evident that this aspect of the work of the Bureau will become more important and more valuable in the future.

## UNIVERSITY FOREST RESERVE

On March 1st, 1943, the Provincial Government leased to the University, for twenty-one years, subject to further renewal, an area of forest land of approximately 9,500 acres between Pitt Lake and the town of Haney for "forest research and demonstration purposes". The area comprises a solid block of land about seven miles long and two and a half miles wide. From the standpoint of size, accessibility, variation in forest sites, and variety of timber types and age classes it is undoubtedly one of the finest research forests on the continent. Ample scope is provided here for field work in cruising, mensuration, silviculture, logging engineering and forest management, and for research in forestry and related sciences. During the spring and summer of this year a road was built into the area as far as Loon Lake, and camp buildings and a small saw-mill are being planned for construction next year. Money will be needed, however, for further development of this fine area.

## EXTENSION DEPARTMENT

The services of this department have been considerably expanded during the period under review. Mr. Robert Burroughs has taken over the position of Assistant to the Director left vacant by the resignation of Mr. R. T. McKenzie, and Dr. G. M. Shrum has further added to the staff Assistants in Agriculture and Public Relations. Work in Home Economics and Handicrafts will be undertaken this fall with the appointment of two qualified people in this work. A large number of evening classes and special courses have been sponsored by the Extension Department during the year and these have been exceedingly popular. In extending the services of the University to citizens outside the campus, the Extension Department is carrying out, in an increasingly effective manner, one of the prime functions of the University.

## MILITARY TRAINING

Compulsory Military Training was suspended for the 1945-46 Session pending further information regarding Government intentions and policy and the policy of the National Conference of Canadian Universities. However, two units—the U.N.T.D. and C.O.T.C.—continued to be maintained on the campus and carried out a certain amount of training on a voluntary basis.

## RESIGNATION OF DR. WEIR

Dr. George F. Weir, who was Head of the Department of Education from its formation in 1924, resigned in the Fall of last year to take over the post of Minister of Education for British Columbia. I

would like to acknowledge here the signal service which Dr. Weir rendered to the University and the province in the field of education and public affairs, and to wish him well in the future.

## ALUMNI ASSOCIATION

The U.B.C. Alumni Association has made excellent progress during the past year. With the setting up of an office on the campus and the appointment of Mr. Frank Turner as full-time Secretary-Manager, the activities of this organization will undoubtedly be expanded further and will become an important factor in the growth and importance of the University. I am fully convinced that no University can properly discharge its service to the community without the full support of its graduates and the public generally, and the Alumni Association, in strengthening this support and goodwill, can perform an indispensable service for their Alma Mater.

## WAR MEMORIAL CAMPAIGN

In January of this year the students and alumni of the University embarked upon a campaign to raise funds for the erection of a \$500,000.00 War Memorial Gymnasium to commemorate the sacrifice and service of the young men and women of the University and Province who served and died in two world wars. I know of no other effort which is so worthy of the support of all friends of the University, and no more suitable type of memorial to the gallant youth of our country.

## ENDOWMENTS

I would like to take this opportunity of thanking the many friends of the University who have demonstrated their interest in higher education by financial contributions for scholarships, research, building expansion and for other purposes. I regret that it is not possible to list here the names of all such donors, however, it is heartening to record a considerable increase in these gestures of goodwill during the past year. I am firmly convinced that no provincial university can properly fulfill its service to the community without the full and practical support of the people of the province.

## General

## TEACHING STAFF

The numbers of members on the teaching staff for the academic year 1945-46, exclusive of those on leave of absence, were as follows:

Deans of Faculties	4
Assistant to the Dean, Faculty of Arts and Science	
Professors (7 appointed July 1, 1946)	73
Associate Professors (17 appointed July 1, 1946) (2 appointed August 1, 1946)	64
Assistant Professors (15 appointed July 1, 1946)	35
Lecturers (2 appointed July 1, 1946)	27
Instructors (including regular and special sessions)	34
Honorary Lecturers	5
Part-time Lecturers	80
Assistants (including regular and special sessions)	235
<b>TOTAL</b>	<b>558</b>

## NEW APPOINTMENTS

- \* WOODS, ESLI LONGWORTH, B.S.P. (Sask.), M.Sc. (Wisc.), Professor and Head of the Department of Pharmacy.  
ADASKIN, HARRY, Professor of Music.
- \* BIRNEY, A. EARLE, B.A. (Brit. Col.), Ph.D. (Toronto), Professor in the Department of English.
- \* DANIELS, J. ROY, B.A. (Brit. Col.), Ph.D. (Toronto), Professor in the Department of English.
- \* HOWARD, HENRY M., B.A.Sc. (Toronto), Professor of Mineral Dressing in the Department of Mining and Metallurgy.
- \* LASSERRE, FREDERIC, B.Arch. (Toronto), Professor of Architecture in the Department of Civil Engineering.
- \* STANLEY, GEORGE F. G., B.A. (Alta.), M.A., B.Litt., D.Phil. (Oxon.), Professor of Canadian History in the Department of History. (On leave of absence until January 1, 1947.)  
TAYLOR, T. M. C., B.A. (Brit. Col.), Ph.D. (McGill), Professor in the Department of Biology and Botany.
- † YOUNG, J. R. W., B.S.A., M.Sc. (Sask.), Associate Professor and Acting-Head of the Departments of Agricultural Mechanics and Agricultural Engineering.
- \* ADAMS, JAMES R., B.Sc., M.Sc., Ph.D. (McGill), Associate Professor in the Department of Zoology.
- \* ARGUE, KENNETH F., B.A. (Alta.), M.A. (Oxon.), Ed.D. (Columbia), Associate Professor in the Department of Education.
- \* BELINFANTE, FREDERICK JOSEF, B.S.C., M.S.C., Ph.D. (Leiden), Associate Professor in the Department of Physics.  
BELL, DONALD K., B.Com., M.A. (Brit. Col.), Associate Professor in the Department of Commerce.
- \* BRENNAN, CECIL N., B.Com. (Brit. Col.), M.Com. (Columbia), C.A. (Brit. Col.), Associate Professor in the Department of Commerce.
- \* BREWER, MRS. PHYLLIS BREWSTER, B.Sc. (Alberta), M.S. (Minnesota), Associate Professor in the Department of Pharmacy.  
CAMPBELL, J. J. R., B.S.A. (Brit. Col.), Ph.D. (Cornell), Associate Professor in the Department of Dairying.
- † CLARK, ARTHUR ROY, B.A. (Sask.), Ph.D. (Toronto), Associate Professor in the Department of Physics.
- \* DERRY, DOUGLAS, B.A. (Toronto), Dr.Phil. (Göttingen), Associate Professor in the Department of Mathematics.
- \* HENDERSON, MISS MARION, B.A. (Toronto), Associate Professor and Director of Physical Education, Women.
- \* LIPSON, SAMUEL L., B.A.Sc. (Brit. Col.), M.Sc. (Calif. Inst. Tech.), Associate Professor of Civil Engineering in the Department of Civil Engineering.
- \* MacKENZIE, KENNETH R., B.A. (Brit. Col.), Ph.D. (California), Associate Professor in the Department of Physics.
- \* McSPADDEN, G. F., A.B., M.A. (University of New Mexico), Ph.D. (Stanford), Associate Professor in the Department of Spanish.
- \* NOAKES, FRANK, B.Sc. (Alberta), M.Sc., Ph.D. (Iowa State), Associate Professor of Electrical Engineering in the Department of Mechanical and Electrical Engineering.  
READ, FREDERICK, LL.B. (Man.), Associate Professor of Law.  
READ, MAJOR STANLEY E., M.A. (McGill), Associate Professor in the Department of English.
- \* ROBINSON, J. LEWIS, B.A. (Western Ontario), M.A. (Syracuse), Associate Professor in the Department of Geology and Geography.
- \* ROWLES, C. A., M.Sc. (Sask.), D.Phil. (Minnesota), Associate Professor of Soils in the Department of Agronomy.
- \* SAVERY, BARNET, A.B. (Wash.), Ph.D. (Harvard), Associate Professor of Philosophy in the Department of Philosophy and Psychology.  
SLEIGHTHOLME, MRS. JEAN, B.A. (Brit. Col.), M.A. (Teachers' College, Columbia), Diploma in Physical Education (McGill), Director of Physical Education, Women.

\* Appointments effective as from July 1, 1946.

† Appointments effective as from August 1, 1946.

- \* SPAULDING, JOHN GORDON, A.B. (Pomona), Ph.D. (Calif.), Associate Professor in the Department of English.
- \* WATTERS, R. E., B.A., M.A. (Toronto), Ph.D. (Wisconsin), Associate Professor in the Department of English.
- \* WELLWOOD, ROBERT W., B.A.Sc. (Brit. Col.), Ph.D. (Duke), Associate Professor in the Department of Forestry.
- \* BELYEA, E. S. W., M.A. (Toronto), Assistant Professor in the Department of Philosophy and Psychology.
- \* CARMICHAEL, MISS JEAN, B.A. (Queen's), Assistant Director in Physical Education, Women.
- \* CHAPMAN, D. G., B.A. (Sask.), M.A. (Toronto and Calif.), Assistant Professor in the Department of Mathematics.
- CLAY, MISS ISABEL, Diploma in Physical Education (McGill), Assistant Director, Physical Education, Women.
- \* COWIE, MURRAY A., M.A. (Queen's), Ph.D. (Chicago), Assistant Professor in the Department of German.
- \* CRAGG, R. C., B.A. (Toronto), Assistant Professor in the Department of English.
- \* GRANT, JOHN D., B.A. (Brit. Col.), M.A. (Toronto), Assistant Professor in the Department of English.
- \* HAINES, HARRY C., B.A.Sc. (Purdue), M.F. (Duke), Assistant Professor in the Department of Forestry.
- HOLDER, MISS MARY, B.Sc. in H.Ec. (Mt. Allison), Assistant Professor in the Department of Home Economics.
- \* KENT, J. R. F., M.A. (Queen's), Assistant Professor in the Department of Mathematics.
- MacRAE, MISS EDITH, M.A. (New Brunswick), Assistant Professor in the Department of English.
- \* MATTOS, ANTHONY R., A.B. (Stanford), Assistant Professor in the Department of Spanish.
- \* MORRISON, MISS RUTH, R.N. (Toronto General Hospital), B.S. (Minnesota), Assistant Professor in the Department of Nursing and Health.
- \* NEWCOMBE, MISS BARBARA, B.Sc. in H.Ec. (Man.), M.S. (Minnesota), Assistant Professor in the Department of Home Economics.
- \* PILLSBURY, R. W., M.A. (Brit. Col.), Assistant Professor in the Department of Biology and Botany.
- \* STEINBERG, M. W., B.A. (Queen's), Assistant Professor in the Department of English.
- \* WYNNE, IVOR, B.A. (McMaster), Assistant Professor in Physical Education, Men.
- BREHAUT, MISS CORA, B.A. (McGill), Lecturer in the Department of Mathematics.
- DAVIDSON, HARRY H. A., B.A., B.A.Sc., M.A.Sc. (Brit. Col.), Lecturer in the Department of Physics.
- DETWILLER, LLOYD F., M.A. (Brit. Col.), Lecturer in the Department of Economics, Political Science and Sociology.
- GRANT, WILLIAM LEONARD, B.A. (Brit. Col.), A.M. (Harvard), Ph.D. (Toronto), Lecturer in the Department of Classics.
- HARPER, DAVID A., B.Com. (Brit. Col.), Lecturer in the Department of Economics, Political Science and Sociology.
- HARRIS, MRS. JOSEPHINE BATTLE, B.A. (Smith College), M.A. (Brit. Col.), Lecturer in German in the Department of Modern Languages.
- HUTTON, GORDON H., M.D., D.P.H., D.Psy. (Toronto), Diplomate of American Board of Psychiatry and Neurology, Lecturer in the Department of Social Work.
- JAMIESON, STUART, B.A. (Brit. Col.), M.A. (McGill), Ph.D. (Calif.), Lecturer in the Department of Economics, Political Science and Sociology.
- LAMB, MRS. W. KAYE, M.A. (Brit. Col.), D.Lett. (Univ. of Paris), Lecturer in French in the Department of Modern Languages.
- LEWIS, MRS. STELLA, M.A. (Brit. Col.), Lecturer in the Department of English.
- LOURIE, DR. MARIANNE, D.Juris (Vienna), Lecturer in German in the Department of Modern Languages.
- \* MAHONEY, RICHARD A., B.A. (Man.), M.B.A. (Harvard), Lecturer in the Department of Commerce.
- OGILVIE, DAVID, M.A. (Glasgow), Lecturer in German in the Department of Modern Languages.
- PARNALL, JOHN E. A., B.A. (Brit. Col.), Lecturer in the Department of Mathematics.

\* Appointments effective as from July 1, 1946.

† Appointments effective as from August 1, 1946.

- RETALLACK, J. G., B.A. (Brit. Col.), Lecturer in the Department of Physics.
- \* SANFORD, CHRIS, B.A. (Oxon.), Lecturer in the Department of English.
- STARK, JOHN C., B.Com. (Brit. Col.), M.B.A. (Harvard), Lecturer in the Department of Commerce.
- WEIR, THOMAS R., B.A. (Brit. Col.), M.A. (Syracuse), Lecturer in the Department of Geology and Geography.
- BELL, H. R., B.A.Sc. (Brit. Col.), Instructor in the Department of Civil Engineering.
- COLLINS, THOMAS L., M.A. (Brit. Col.), Instructor in the Department of Physics.
- EYRE, ALAN M. L., B.A.Sc. (Brit. Col.), Instructor in the Department of Civil Engineering.
- MCLEOD, ALAN A., M.A.Sc. (Brit. Col.), Instructor in the Department of Chemistry.
- RATTENBURY, J. A., M.A. (Brit. Col.), Instructor in the Department of Biology and Botany.
- MCLEAN, MAJOR JOHN F., B.A. (Brit. Col.), Director of the Veterans' Bureau and Employment Service.
- BLACK, CAPT. W. G., B.A. (Brit. Col.), M.A., Ph.D. (Chicago), Counsellor for Ex-Service Personnel.
- † BOROUGHS, ROBERT J., M.A. (Brit. Col.), Assistant Director in the Department of University Extension.
- \* *Appointments effective as from July 1, 1946.*      † *Appointments effective as from August 1, 1946.*

## PROMOTIONS

- CAMERON, MAXWELL A., M.A. (Brit. Col.), Ph.D. (Toronto), from Professor to Professor and Head of the Department of Education.
- MacINNES, MISS ISABEL, M.A. (Queen's), Ph.D. (California), from Professor in the Department of Modern Languages to Professor and Head of the Department of German.
- ALLARDYCE, JOHN, M.A. (Brit. Col.), Ph.D. (McGill), from Associate Professor to Professor in the Department of Biology and Botany.
- COOKE, A. C., B.A. (Manitoba), M.A. (Oxon.), from Associate Professor to Professor in the Department of History.
- CROOKER, A. M., B.A. (McMaster), M.A., Ph.D. (Toronto), from Associate Professor to Professor in the Department of Physics.
- CRUMB, J. A., B.B.A. (Washington), M.S., Ph.D. (California), from Associate Professor to Professor in the Department of Economics, Political Science and Sociology.
- HARRIS, J. ALLEN, M.A. (Brit. Col.), Ph.D. (Illinois), from Associate Professor to Professor in the Department of Chemistry.
- MANN, K. C., O.B.E., B.A. (Sask.), Ph.D. (Toronto), from Associate Professor to Professor in the Department of Physics.
- SMITH, H. D., M.A. (Brit. Col.), Ph.D. (Toronto), from Associate Professor to Professor in the Department of Physics.
- TOPPING, C. W., B.A. (Queen's), S.T.D. (Wesleyan Theol. College), A.M., Ph.D. (Columbia), from Associate Professor to Professor of Sociology in the Department of Economics, Political Science and Sociology.
- URE, WILLIAM, M.A.Sc. (Brit. Col.), Ph.D. (Cal. Inst. of Technology), F.R.S.C., from Associate Professor to Professor in the Department of Chemistry.
- \* VOLKOFF, G. M., M.A. (Brit. Col.), Ph.D. (California), from Assistant Professor to Professor in the Department of Physics.
- WOOD, S. N., B.S.A. (Sask.), D.V.M. (Iowa State College), from Associate Professor to Professor in the Department of Animal Husbandry.
- BERRY, J. C., M.S.A. (Brit. Col.), Ph.D. (Iowa State College), from Assistant Professor to Associate Professor in the Department of Animal Husbandry.
- BORDEN, C. E., M.A., Ph.D. (California), from Assistant Professor to Associate Professor in the Department of German.
- BRINK, VERNON C., M.S.A. (Brit. Col.), Ph.D. (Wisconsin), from Assistant Professor to Associate Professor in the Department of Agronomy.
- BROOKE, C. VYNER, B.A. (Queen's), A.M., Ph.D. (Harvard), from Assistant Professor to Associate Professor and Chairman of the Department of Spanish.

\* *Promotion as from July 1, 1946.*

- DALLAS, MISS DOROTHY, M.A. (Brit. Col.), D.Lett. (Univ. of Paris) from Assistant Professor to Associate Professor in the Department of French.
- GRIFFITH, B. G., M.A. (Brit. Col.), M.F. (Harvard), Ph.D. (Washington), M.C.S.F.E., from Assistant Professor to Associate Professor in the Department of Forestry.
- HALLAMORE, MISS JOYCE, M.A. (Brit. Col.), Ph.D. (Munich), from Assistant Professor to Associate Professor in the Department of German.
- HOOLEY, J. GILBERT, M.A. (Brit. Col.), Ph.D. (Mass. Inst. of Technology), from Assistant Professor to Associate Professor in the Department of Chemistry.
- OKULITCH, V. J., M.A.Sc. (Brit. Col.), Ph.D. (McGill), F.G.S.A., F.R.S.C., from Assistant Professor to Associate Professor in the Department of Geology and Geography.
- READ, FREDERICK, LL.B. (Manitoba), from Lecturer to Associate Professor of Law.
- ROBBINS, WILLIAM, M.A. (Brit. Col.), Ph.D. (Toronto), from Assistant Professor to Associate Professor in the Department of English.
- TYLER, FREDERICK T., B.Sc., M.A., B.Ed. (Alberta), Ph.D. (California), from Assistant Professor to Associate Professor in the Department of Education and in the Department of Philosophy and Psychology.
- WRIGHT, THOMAS G., B.F. (Penn. State), M.F. (Duke), M.C.S.F.E., M.S.A.F., from Assistant Professor to Associate Professor in the Department of Forestry.
- BARCLAY, MISS MAY L., M.A. (Brit. Col.), from Instructor to Assistant Professor in the Department of Mathematics.
- DARLINGTON, MME. Y., from Instructor to Assistant Professor in the Department of French.
- GRANT, W. LEONARD, B.A. (Brit. Col.), A.M. (Harvard), Ph.D. (Toronto), from Lecturer to Assistant Professor in the Department of Classics.
- \* GUTHRIE, P. C. F., B.A. (Manitoba), M.A. (Toronto), from Instructor to Assistant Professor in the Department of Classics.
- HUMPHREY, MISS RUTH, B.A. (Mount Allison), M.A. (Oxford), from Instructor to Assistant Professor in the Department of English.
- ORMSBY, MISS MARGARET A., M.A. (Brit. Col.), Ph.D. (Bryn Mawr), from Lecturer to Assistant Professor in the Department of History.
- THOMAS, MISS ELIZABETH V., A.B. (Wesleyan College), M.S. (New York School of Social Work), from Special Lecturer to Assistant Professor in the Department of Social Work.
- apROBERTS, R. P., B.A. (Brit. Col.), from Assistant to Lecturer in the Department of English.
- GRIERSON-JACKSON, WILLIAM, M.S.A., M.A. (Toronto), from Assistant to Lecturer in the Department of Biology and Botany.
- KNOTTS, WALTER E., B.A. (Brit. Col.), from Assistant to Lecturer in the Department of English.
- KURTH, BURTON, B.A. (Brit. Col.), from Assistant to Lecturer in the Department of English.
- STUSIAK, MICHAEL, B.A.Sc., M.A.Sc. (Brit. Col.), from Instructor to Lecturer in the Department of Chemistry.
- \* ATTREE, RICHARD, W. A., B.A. (Brit. Col.), from Assistant to Instructor in the Department of Chemistry.
- \* BOYD, ALAN W., B.A. (Brit. Col.), from Assistant to Instructor in the Department of Chemistry.
- \* CAVERS, STUART D., B.A.Sc. (Brit. Col.), from Assistant to Instructor in the Department of Chemistry.
- \* HARRIS, MRS. J., A.B. (Smith), M.A. (Brit. Col.), from Lecturer to Instructor in the Department of German.
- \* HOOLEY, MRS. J. G., B.A. (Brit. Col.), from Assistant to Instructor in the Department of Chemistry.
- \* LOURIE, MRS. M., D.Juris (Vienna), from Lecturer to Instructor in the Department of German.
- RATTENBURY, JOHN A., M.A. (Brit. Col.), from Assistant to Instructor in the Department of Biology and Botany.
- \* ROBERTSON, RODERICK F., B.A., (Brit. Col.), from Assistant to Instructor in the Department of Chemistry.
- \* TAYLOR, MRS. P., M.A. (Brit. Col.), from Lecturer to Instructor in the Department of German.
- \* WOODWARD, EUGENE D., M.S.A. (Brit. Col.), from Assistant to Instructor in the Department of Agricultural Economics.

\* Promotions as from July 1, 1946.

## LEAVES OF ABSENCE

- SOWARD, MR. F. H., Professor in the Department of History, for a period of one year as from September 1st, 1945.
- DOLMAN, DR. C. E., Professor and Head, Departments of Bacteriology and Preventive Medicine and Nursing and Health, for a period of four months (January 1st, 1946 to May 1st, 1946).
- STANLEY, DR. GEORGE F. G., Professor in the Department of History, from July 1st, 1946 to January 1st, 1947.
- MacKAY, MR. LOUIS A., Associate Professor in the Department of Classics, from September 1st, 1945 to May 15th, 1946.
- MORSH, DR. JOSEPH E., Associate Professor in the Department of Philosophy and Psychology for a period of one year as from September 1st, 1945.
- TYLER, DR. F. T., Assistant Professor in the Departments of Education and Philosophy and Psychology from September 1st, 1945 to January 1st, 1946.
- VOLKOFF, DR. GEORGE M., Assistant Professor in the Department of Physics for a period of one year as from July 1st, 1945.
- WRIGHT, MR. THOMAS G., Assistant Professor in the Department of Forestry from October 1st, 1945 to February 1st, 1946.
- GUTHRIE, Mr. P. C. F., Instructor in the Department of Classics, from May 15th, 1945 to July 1st, 1946.
- MacKENZIE, MR. ROBERT T., Assistant to the Director of University Extension from March 31st, 1945 to June 30th, 1946.
- SOMERSET, MISS DOROTHY, Assistant in Dramatics in the Department of University Extension, from January 7th, 1946 to April 15th, 1946.

## RESIGNATIONS

- WEIR, GEORGE M., B.A. (McGill), M.A. (Sask.), D.Paed. (Queen's), Professor and Head of the Department of Education.
- GILLIES, GEORGE A., M.Sc. (McGill), M.C.I.M., M.A.I.M.E., Professor Emeritus of Mineral Dressing, Department of Mining and Metallurgy.
- SWANSON, CLARENCE OTTO, M.A.Sc. (Brit. Col.), Ph.D. (Wisconsin), F.G.S.A., F.R.S.C., Professor of Mineralogy and Petrography, Department of Geology and Geography.
- HENDERSON, THOMAS GREENSHIELDS, M.A. (McGill), Ph.D. (Harvard), Associate Professor of Philosophy, Department of Philosophy and Psychology.
- REEBEL, MISS KATHERINE, B.A. (Penn. College for Women), M.A. (Pittsburgh), M.S.S. (Smith), Associate Professor in the Department of Social Work.
- MacLEOD, ROBERT A., M.A. (Brit. Col.), Instructor in the Department of Chemistry.
- RATTENBURY, JOHN A., M.A. (Brit. Col.), Instructor in the Department of Biology and Botany.
- TODD, MISS MARJORIE, M.A. (Brit. Col.), Instructor in the Department of Bacteriology and Preventive Medicine.
- MacKENZIE, ROBERT T., B.A. (Brit. Col.), Assistant to the Director, Department of University Extension.

## RE-APPOINTMENTS FOLLOWING ATTAINMENT OF RETIREMENT AGE

- BUCHANAN, DANIEL, M.A. (McMaster), Ph.D. (Chicago), LL.D. (McMaster), F.R.S.C., Dean of the Faculty of Arts and Science and Professor and Head of the Department of Mathematics, who reached age of retirement on April 14th, 1946, was re-appointed to June 30th, 1947.
- CLARK, ROBERT H., M.A. (Toronto), Ph.D. (Leipzig), F.R.S.C., Professor and Head of the Department of Chemistry, who reached age of retirement on June 4th, 1946, was re-appointed to June 30th, 1947.
- HENNINGS, A. E., M.A. (Lake Forest College), Ph.D. (Chicago), Professor in the Department of Physics, who reached age of retirement on October 31st, 1945, was re-appointed to June 30th, 1946.
- MacDONALD, W. L., B.A. (Toronto), M.A. (Wisconsin), Ph.D. (Harvard), Professor in the Department of English, who reached age of retirement on March 18th, 1946, was re-appointed to June 30th, 1947.
- DAVIDSON, JOHN, F.L.S., F.B.S.E., Associate Professor in the Department of Biology and Botany, who reached age of retirement on August 6th, 1945 was re-appointed to June 30th, 1946.
- BUCK, FRANK E., B.S.A. (McGill), Lecturer in the Department of Horticulture, was again re-appointed as from April 1st, 1945 to June 30th, 1946.

## APPOINTMENT OF PROFESSORS EMERITI

The title of Professor Emeritus of Mineral Dressing was conferred on Mr. George A. Gillies; the title of Professor Emeritus of Civil Engineering was conferred on Mr. A. Lighthall, and the title of Emeritus Professor of Mining and Metallurgy was conferred on Mr. J. M. Turnbull.

## ELECTION OF REPRESENTATIVES OF SENATE ON THE BOARD OF GOVERNORS

On February 20th, Austin B. Schinbein, O.B.E., M.B., F.A.C.S., was elected as a representative of Senate on the Board of Governors, replacing Dr. J. F. Walker.

On May 14th, 1946, Kenneth P. Cable, M.S.A., was elected as a representative of Senate on the Board of Governors to serve out the term of Mr. H. T. Logan.

## INSTALLATION OF CHANCELLOR

At the **Autumn Congregation** on October 31st, 1945, the Honourable Eric Werge Hamber, B.A., LL.D., was installed as Chancellor of The University of British Columbia by Colonel the Honourable W. C. Woodward, Lieutenant-Governor of the Province of British Columbia.

## HONORARY DEGREES CONFERRED

At the Autumn Congregation on October 31st, 1945, the Honorary Degree of Doctor of Laws was conferred on the following:

Henry John Cody, MA., D.D., LL.D., F.R.S.C., Chancellor of the University of Toronto.

Hugh Llewellyn Keenleyside, B.A., M.A., Ph.D., Canadian Ambassador to Mexico.

Major General Harry Farnham Germaine Letson, C.B.E., M.C., E.D., B.Sc., Ph.D., Head of the Canadian Joint Staff, Washington, D.C.

Brigadier Sherwood Lett, D.S.O., M.C., E.D., B.A.

Brigadier William C. Murphy, C.B.E., D.S.O., E.D., B.A.

Air Commodore John Lawrence Plant, B.A.Sc., Department of National Defence for Air.

Norman Alexander Robertson, B.A., Under Secretary of State for External Affairs.

Phyllis Gregory Ross, B.A., M.A.

Lieutenant Commander Gordon Wilson Stead, D.S.C. and Bar, B.Com., B.A.

Degree of Doctor of Science:

Colonel Percy Munson Barr, O.B.E., B.A.Sc., M.F., Ph.D., Associate Professor of Forestry, University of California.

George Michael Volkoff, B.A., M.A., Ph.D., Assistant Professor of Physics, University of British Columbia, Research Physicist, National Research Council.

At the **Spring Congregation** on May 16th, 1946, the Honorary Degree of Doctor of Laws was conferred on the following:

Lawren Harris, National President of the Federation of Canadian Artists.

Degree of Doctor of Science:

John Hubert Cratge, A.B., M.S., Ph.D., Dominion Botanist.

Richard Claxton Palmer, B.S.A., M.S.A., Superintendent of the Dominion Experimental Station, Summerland, B. C.

## NOTICE OF APPOINTMENTS

Dr. Norman A. M. MacKenzie was elected President of the National Conference of Canadian Universities.

Professor H. F. Angus, Head of the Department of Economics, Political Science and Sociology, was elected Secretary of the National Conference of Canadian Universities.

Dr. H. J. McLeod, Head of the Department of Mechanical and Electrical Engineering, was elected Fellow of the American Institute of Electrical Engineers.

Dr. M. Y. Williams, Head of the Department of Geology and Geography, was elected Second Vice-President of the Geological Society of America.

- Professor F. H. Soward, Director of International Studies, was elected Vice-President of the Canadian Historical Society.
- Dr. Margaret A. Ormsby, Assistant Professor of History, was elected Editor of the publications of the Okanagan Historical Society.
- Dr. W. N. Sage, Head of the Department of History, was elected Vice-President of the Champlain Society.
- Miss Dorothy P. Lefebvre, Acting Head of the Department of Home Economics, was made a Director of the Canadian Dietetic Association.
- Miss Charlotte S. Black, Assistant Professor of Home Economics, was elected Chairman of the Education Committee of the Canadian Home Economics Association.
- Professor S. N. F. Chant, Head of the Department of Philosophy and Psychology, was appointed by Order in Council to the Advisory Committee on University Training for Veterans; elected Chairman of the newly-formed Association of Veterans' Counsellors in Canadian Universities; elected President of the Canadian Psychological Association.
- Dr. G. M. Shrum was re-appointed a member of the National Research Council for a period of three years.
- Miss Marjorie J. Smith, Head of the Department of Social Work, was elected member of the Executive Committee of the Canadian Conference on Social Work.
- Dr. Ian McTaggart Cowan, Professor of Zoology, was elected Fellow of the Royal Society of Canada and Regional Representative for the newly-established Canada and Alaska Division of the American Wildlife Society.
- Professor J. E. Liersch, Head of the Department of Forestry, was elected to the Council of the Association of Professional Engineers of B. C.; elected Chairman of the Vancouver Section of the Canadian Society of Forest Engineers; elected Vice-Chairman for B. C. on the Puget Sound Section of the Society of American Foresters.
- Miss H. E. Mallory, Associate Professor of Nursing and Health, was elected Second Vice-President of the Canadian Nurses' Association.

## OBITUARIES

### MR. W. J. SPENCER

The University expresses its sense of loss in regretfully recording the death of a valued member of the Senate, Mr. John William Spencer of Victoria. He was a man of beneficent public spirit and a warmly sympathetic supporter of University interests.

### CAPTAIN JOHN F. BELL

For sixteen years Captain John F. Bell, O.B.E., R.N., gave highly efficient service to the University as instructor, lecturer and assistant professor in the Department of Mechanical and Electrical Engineering. Although due for retirement in August of 1940, Captain Bell chose to accept leave of absence in March of that same year in order to return to the Royal Canadian Navy in which service he had spent many years prior to his appointment to the University. He was a man of wide interests, and he held a high and popular place in the lives of the students and all the staff.

### MR. JOHN B. MITCHELL

Student friend, guide and confidant, Mr. John B. Mitchell died suddenly on his beloved campus in the summer of this year. "Mitch" had been proctor of the Brock Memorial Hall from its opening in 1940. In those six short years he became a well-known and popular figure at the University; to many he was part of a tradition. His place within the inner circle of Brock Hall life was recognized by his honorary membership in several of the larger clubs whose activities were centered there.

# Report of The Registrar

## REGISTRATION—1945-1946 REGULAR SESSION

FACULTY OF ARTS AND SCIENCE	Men	Women	Total	Total
First Year - - - - -	1,255	314	1,569	
First Year Home Economics - - - - -	—	46	46	1,615
Second Year - - - - -	566	274	840	
Second Year Commerce - - - - -	231	18	249	
Second Year Home Economics - - - - -	—	54	54	1,143
Third Year - - - - -	212	188	400	
Third Year Commerce - - - - -	114	12	126	
Third Year Home Economics - - - - -	—	33	33	559
Fourth Year - - - - -	130	136	266	
Fourth Year Commerce - - - - -	55	13	68	
Fourth Year Home Economics - - - - -	—	15	15	349
Graduates - - - - -	146	43	189	189
Social Work—Degree Course - - - - -	8	30	38	
Diploma Course - - - - -	6	23	29	67
Teacher Training Course - - - - -	27	19	46	46
Directed Reading Courses - - - - -	56	44	100	
Less Double Registrations (D.R.C.) - - - - -	—10	—2	—12	88
	2,812	1,244		4,056
 FACULTY OF APPLIED SCIENCE				
Second Year - - - - -	529	1	530	
Third Year - - - - -	186	2	188	
Fourth Year - - - - -	138	—	138	
Fifth Year - - - - -	136	—	136	
Graduates - - - - -	30	—	30	1,022
 NURSING				
Second Year - - - - -		23	23	
Third Year - - - - -		13	13	
Fourth Year - - - - -		12	12	
Fifth Year - - - - -		14	14	
Sixth Year - - - - -		21	21	
Certificate Course - - - - -		45	45	128

	Men	Women	Total	
<b>FACULTY OF AGRICULTURE</b>				
First Year	80	18	98	
Second Year	76	18	94	
Third Year	36	7	43	
Fourth Year	31	7	38	
Graduates	26	4	30	
Occupational Course	22	4	26	
Rehabilitation Course	1	—	1	
			<u>          </u>	330
<b>FACULTY OF LAW</b>				
Degree Students	67	3	70	
Non-degree Students	12	3	15	
Graduate	1	—	1	
			<u>          </u>	86
<b>TOTALS</b>	<u>4,167</u>	<u>1,455</u>		<u>5,622</u>

## SPECIAL SPRING SESSION, 1945

### EX-SERVICE PERSONNEL

#### FACULTY OF ARTS AND SCIENCE

All Years	273	5	278	
			<u>          </u>	278

## SUMMER SESSION, 1945

All Years	596	265	861		
Botany Evening Class, 1945-1946	33	30	63		
			<u>          </u>	861	
				<u>          </u>	63

## SPECIAL WINTER SESSION—1946

#### FACULTY OF ARTS AND SCIENCE

First Year	581	40	621	
Second Year	272	21	293	
Upper Years	44	1	45	
			<u>          </u>	959
Teacher Training	1	—	1	
			<u>          </u>	1

#### FACULTY OF APPLIED SCIENCE

All Years	61	—	61	
			<u>          </u>	61

#### FACULTY OF AGRICULTURE

All Years—Degree Course	46	2	48	
Occupational	28	—	28	
			<u>          </u>	76

#### FACULTY OF LAW

Non-degree Student	1	—	1	
			<u>          </u>	1

<b>TOTALS</b>	<u>1,034</u>	<u>64</u>		<u>1,098</u>
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## SPECIAL SPRING SESSION - 1946

Total - - - - - 2014

## SUMMER SESSION - 1946

Total - - - - - 2368

# NATIONALITIES OF STUDENTS

1945 - 1946

(Racial Origins)

NOTE:—This list does not include Teacher Training, Directed Reading Course, Public Health Nursing, and Teaching and Supervision (Nursing) Students.

## FIRST TERM

American - - - - -	97	German - - - - -	20	Russian - - - - -	45
Armenian - - - - -	2	Greek - - - - -	15	Salvador - - - - -	1
Australian - - - - -	6	Hebrew - - - - -	31	Scotch - - - - -	727
Austrian - - - - -	6	Hungarian - - - - -	6	Serbian - - - - -	1
Belgian - - - - -	4	Icelandic - - - - -	15	Slovak - - - - -	1
British - - - - -	593	Indian (East) - - - - -	2	South African - - - - -	1
Canadian - - - - -	1476	Indian (N.A.) - - - - -	1	Swedish - - - - -	51
Chinese - - - - -	59	Irish - - - - -	300	Swiss - - - - -	9
Croatian - - - - -	1	Italian - - - - -	29	Syrian - - - - -	2
Czech - - - - -	7	Lithuanian - - - - -	1	Ukrainian - - - - -	30
Danish - - - - -	15	Latvian - - - - -	1	Welsh - - - - -	50
Dutch - - - - -	20	Montenegrin - - - - -	1	Yugoslavian - - - - -	7
English - - - - -	1222	Newfoundland - - - - -	4	Unspecified - - - - -	483
Finnish - - - - -	10	Norwegian - - - - -	47		
French - - - - -	12	Polish - - - - -	24	Total - - - - -	5443
French-Canadian - - - - -	7	Roumanian - - - - -	1		

## SECOND TERM

American - - - - -	22	German - - - - -	7	Russian - - - - -	8
British - - - - -	124	Greek - - - - -	2	Scotch - - - - -	146
Canadian - - - - -	293	Hebrew - - - - -	1	Spanish - - - - -	1
Chinese - - - - -	1	Hollander - - - - -	7	Swedish - - - - -	6
Czecho-Slovak - - - - -	4	Hungarian - - - - -	3	Ukrainian - - - - -	12
Danish - - - - -	4	Icelandic - - - - -	2	Welsh - - - - -	6
English - - - - -	230	Irish - - - - -	64	Yugo-Slav - - - - -	1
Finnish - - - - -	1	Italian - - - - -	6	Unspecified - - - - -	116
French - - - - -	8	New Zealand - - - - -	1		
French-Canadian - - - - -	4	Norwegian - - - - -	8	Total - - - - -	1097
		Polish - - - - -	9		

# GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Regular Session, 1945 - 1946

Vancouver - - - - - 3084

## FROM POINTS IN BRITISH COLUMBIA OUTSIDE OF VANCOUVER

Abbotsford - - - - -	18	Bonnington Falls - - - - -	2	Chemainus - - - - -	6
Agassiz - - - - -	4	Boston Bar - - - - -	2	Chilliwack - - - - -	47
Alberni - - - - -	6	Bradner - - - - -	3	Clayburn - - - - -	1
Albion - - - - -	1	Brighouse - - - - -	5	Cloverdale - - - - -	22
Aldergrove - - - - -	6	Britannia Beach - - - - -	11	Coalmont - - - - -	1
Alert Bay - - - - -	2	Burnaby - - - - -	26	Cobble Hill - - - - -	3
Allenby - - - - -	3	Cadboro Bay - - - - -	3	Comox - - - - -	9
Argenta - - - - -	1	Campbell River - - - - -	4	Cordova Bay - - - - -	1
Armstrong - - - - -	12	Canyon - - - - -	1	Courtenay - - - - -	16
Arrow Park - - - - -	1	Capilano - - - - -	2	Cowichan Lake - - - - -	3
Ashcroft - - - - -	4	Cassidy - - - - -	1	Cowichan Station - - - - -	1
Atchelitz - - - - -	1	Castlegar - - - - -	3	Cranbrook - - - - -	17
Atlin - - - - -	1	Caulfeild - - - - -	2	Crescent Beach - - - - -	2
Baldonnel - - - - -	2	Cawston - - - - -	1	Creston - - - - -	10
Bamberton - - - - -	1	Cecil Lake - - - - -	1	Cultus Lake - - - - -	2
Barriere - - - - -	1	Cee Pee Cee - - - - -	1	Cumberland - - - - -	4
Bella Coola - - - - -	1	Celista - - - - -	1	Dawson Creek - - - - -	7
Birch Island - - - - -	1	Chapman Camp - - - - -	4	Denman Island - - - - -	1
Bloedel - - - - -	1	Chase - - - - -	1	Deroche - - - - -	1

Dewdney	1	Maillardville	3	Rounds	1
Drynoch	1	Marysville	2	Royal Oak	5
Duncan	27	Matsqui	5	Royston	4
Eburne	43	Mayne Island	1	Rutland	1
Edgewood	1	Merritt	5	Roycroft	1
Elsona	1	Mesachie Lake	1	Saanich	1
Errington	1	Milner	10	Saanichton	5
Esquimalt	3	Mirror Lake	1	Salmo	1
Essondale P. O.	1	Mission City	13	Salmon Arm	12
Evelyn	1	Monte Lake	1	Sandwich	1
Falkland	1	Mt. Lehman	3	Sardis	19
Fanny Bay	1	Murrayville	2	Savona	2
Fernie	7	Nakusp	6	Sayward	1
Field	1	Nanaimo	55	Sechelt	2
Fort Fraser	1	Nanoose Bay	1	Shawnigan Lake	3
Fort Langley	4	Naramata	2	Shearer Dale	1
Fraser Lake	1	Nelson	45	Shelley	1
Fraser Mills	1	New Denver	4	Sherman	3
Galena	1	New Westminster	322	Shoreacres	2
Galiano Island	2	North Bend	1	Sidney	9
Gang Ranch	1	North Vancouver	122	Silverton	1
Ganges	6	Ocean Falls	11	Slocan	1
Gibson's Landing	3	Okanagan Centre	1	Smithers	10
Gladwin	1	Okanagan Falls	2	Sointula	1
Glen Valley	1	Okanagan Landing	1	Sooke	3
Grand Forks	12	Oliver	11	Sorrento	1
Grantham's Landing	2	Osoyoos	1	Squamish	2
Gray Creek	1	Oyama	1	Stave Falls	1
Great Central Lake	3	Parksville	7	Steveston	13
Greenwood	2	Peachland	4	Stewart	2
Grindrod	1	Pender Island	1	Stillwater	1
Groundbirch	1	Penticton	44	Summerland	3
Haney	5	Pioneer	2	West Summerland	6
Hatzic	1	Pouce Coupe	1	Surrey Centre	1
Hazelton	1	Port Alberni	22	Tappen	1
Headquarters	2	Port Albion	1	Terrace	4
Hedley	6	Port Alice	3	Thetis Island	1
Hillier	1	Port Coquitlam	7	Thrums	1
Hollyburn	27	Port Hammond	4	Tranquille	1
Hope	5	Port Hardy	1	Trail	41
Horsefly	1	Port Kells	2	Ucluelet	1
Invermere	3	Port Mellon	1	Vanderhoof	1
Ioco	8	Port Moody	2	Vernon	33
Kaleden	1	Port Washington	3	Victoria	303
Kamloops	41	Powell River	25	Waldo	1
Kaslo	1	Premier	1	Wells	2
Kelowna	36	Prince George	9	Westbank	1
Keremeos	3	Prince Rupert	20	West Vancouver	69
Kimberley	26	Princeton	8	Westview	6
Koksilah	1	Qualicum	5	White Rock	19
Kyuquot	1	Queen's Bay	1	Whonnock	3
Ladner	24	Quesnel	7	Williams Lake	1
Lang Bay	1	Radium Hot Springs	1	Willow River	1
Langford	1	Redonda Bay	1	Winter Harbor	1
Langley Prairie	12	Revelstoke	21	Woodfibre	1
Lillooet	1	Riondel	2	Yarrow	3
Lochdale	7	Roberts Creek	1	Youbou	1
Lumby	2	Robson	1	Unspecified	29
Lynn Creek	1	Rock Creek	1		
Lytton	2	Rossland	7		

2145

FROM POINTS IN CANADA OUTSIDE OF BRITISH COLUMBIA

OUTSIDE B C .....		Ontario - - - - -	32	Newfoundland - - - - -	3
Alberta - - - - -	156	Prince Edward Island - - -	2	North West Territories - - -	2
Manitoba - - - - -	38	Quebec - - - - -	9	Yukon - - - - -	4
New Brunswick - - - - -	12	Saskatchewan - - - - -	101		
Nova Scotia - - - - -	5	Alaska - - - - -	1		<u>365</u>

FROM OTHER COUNTRIES

British West Indies - - -	2	England - - - - -	2	United States - - - - -	22
China - - - - -	1	South America - - - - -	1		<u>28</u>

TOTAL - - - - - 5622

SPECIAL WINTER SESSION — 1946

		Vancouver - - - - -	494		
Abbotsford - - - - -	6	Gabriola Island - - - - -	1	Port Essington - - - - -	1
Agassiz - - - - -	2	Ganges - - - - -	4	Port Hammond - - - - -	1
Alberni - - - - -	1	Golden - - - - -	1	Powell River - - - - -	7
Aldergrove - - - - -	3	Grand Forks - - - - -	3	Prince George - - - - -	5
Armstrong - - - - -	2	Greenwood - - - - -	2	Prince Rupert - - - - -	10
Arras - - - - -	1	Haney - - - - -	2	Princeton - - - - -	1
Ashcroft - - - - -	1	Harrop - - - - -	1	Qualicum Beach - - - - -	2
Bella Coola - - - - -	1	Hatzic - - - - -	1	Robson - - - - -	2
Bralorne - - - - -	1	Headquarters - - - - -	1	Rosedale - - - - -	1
Brighouse - - - - -	1	Hedley - - - - -	2	Rossland - - - - -	1
Burns Lake - - - - -	1	Hollyburn - - - - -	3	Royston - - - - -	1
Burnaby - - - - -	9	Horseshoe Bay - - - - -	2	Saanichton - - - - -	1
Burquitlam - - - - -	1	Ioco - - - - -	2	Salmon Arm - - - - -	5
Cadboro Bay - - - - -	1	James Island - - - - -	1	Sardis - - - - -	3
Camp Lister - - - - -	1	Kaslo - - - - -	1	Sechelt - - - - -	1
Campbell River - - - - -	1	Kamloops - - - - -	2	Sidney - - - - -	4
Caulfeild - - - - -	1	Kelowna - - - - -	11	South Slokan - - - - -	1
Castlegar - - - - -	2	Kimberley - - - - -	7	Smithers - - - - -	2
Cedar P. O. - - - - -	1	Ladner - - - - -	5	Sointula - - - - -	1
Chemainus - - - - -	2	Ladysmith - - - - -	3	Sooke - - - - -	1
Chilliwack - - - - -	16	Lytton - - - - -	1	Sorrento - - - - -	1
Cloverdale - - - - -	4	Maillardville - - - - -	1	Squamish - - - - -	1
Cobble Hill - - - - -	3	Matsqui - - - - -	1	Steveston - - - - -	1
Coghlan - - - - -	2	Michel - - - - -	3	Sumas - - - - -	1
Comox - - - - -	2	Milner - - - - -	4	Summerland - - - - -	1
Coombs - - - - -	1	Mission City - - - - -	2	West Vancouver - - - - -	15
Courtenay - - - - -	4	Nanaimo - - - - -	3	Terrace - - - - -	3
Cowichan Station - - - - -	1	Naramata - - - - -	2	Trail - - - - -	12
Cranbrook - - - - -	3	Nelson - - - - -	7	Union Bay - - - - -	1
Cumberland - - - - -	1	New Westminster - - - - -	67	Vernon - - - - -	6
Dawson Creek - - - - -	3	Northlands - - - - -	1	Victoria - - - - -	54
Deep Cove - - - - -	1	North Vancouver - - - - -	24	Wellington - - - - -	3
Duncan - - - - -	6	Ocean Falls - - - - -	1	Westview - - - - -	1
Eburne - - - - -	1	Okanagan Landing - - - - -	1	White Rock - - - - -	4
Enderby - - - - -	1	Oliver - - - - -	1	Williams Lake - - - - -	1
Esquimalt - - - - -	1	Osoyoos - - - - -	1	Yarrow - - - - -	1
Falkland - - - - -	1	Parksville - - - - -	3	Youbou - - - - -	1
Fernie - - - - -	6	Penticton - - - - -	13	Unspecified - - - - -	26
Field - - - - -	1	Port Alice - - - - -	2		
Fort St. John - - - - -	1	Port Coquitlam - - - - -	1		<u>476</u>

TOTAL - - - - - 970

FROM POINTS IN CANADA OUTSIDE OF BRITISH COLUMBIA

Alberta - - - - -	51	Nova Scotia - - - - -	2	Quebec - - - - -	3
Manitoba - - - - -	7	Ontario - - - - -	16		
New Brunswick - - - - -	1	Saskatchewan - - - - -	36		116

FROM OTHER COUNTRIES

Cyprus - - - - -	2
England - - - - -	3
United States - - - - -	7

TOTAL - - - - - 1098

OCCUPATION OF PARENTS

1945 - 1946

NOTE:—This list does not include Teacher Training, Directed Reading Course, Public Health Nursing, and Teaching and Supervision (Nursing) Students.

Deceased - - - - -	699	Caretaker - - - - -	5	Draftsman - - - - -	5
Retired - - - - -	391	Carpenter - - - - -	92	Driver - - - - -	9
Unspecified - - - - -	228	Cashier - - - - -	1	Druggist - - - - -	24
Accountant - - - - -	132	Chairman - - - - -	1	Dry Cleaner - - - - -	3
Advertising - - - - -	6	Chauffeur - - - - -	1	D. V. A. - - - - -	3
Agent - - - - -	108	Checker - - - - -	1	Dyer - - - - -	1
Aircraft - - - - -	8	Chemist - - - - -	6	Editor - - - - -	3
Air Force - - - - -	21	Chiropodist - - - - -	2	Electrician - - - - -	42
Analyst - - - - -	1	Chiropractor - - - - -	2	Electro-plater - - - - -	1
Annuities - - - - -	1	Civic Servant - - - - -	9	Employee (misc.) - - - - -	65
Apiarist - - - - -	1	Civil Servant - - - - -	93	Engineer - - - - -	276
Architect - - - - -	13	Clergyman - - - - -	13	Engraver - - - - -	4
Army - - - - -	74	Clerk - - - - -	105	Evaluator - - - - -	1
Artist - - - - -	8	Clothier - - - - -	1	Executive - - - - -	15
Assessor - - - - -	4	Coffee Expert - - - - -	1	Exporter - - - - -	11
Attendant - - - - -	5	Comptroller - - - - -	5	Factory Worker - - - - -	5
Auditor - - - - -	9	Conductor - - - - -	23	Farmer - - - - -	243
Baker - - - - -	14	Consul - - - - -	1	Financier - - - - -	1
Banker - - - - -	26	Contractor - - - - -	95	Fireman - - - - -	21
Barber - - - - -	17	Cook - - - - -	11	Fisherman - - - - -	18
Barrister - - - - -	29	Cooper - - - - -	4	Fitter - - - - -	16
Bartender - - - - -	1	Cow-tester - - - - -	1	Floorlayer - - - - -	1
Bill Collector - - - - -	1	Customs - - - - -	13	Florist - - - - -	4
Biochemist - - - - -	1	Dairyman - - - - -	14	Foreman - - - - -	38
Blacksmith - - - - -	12	Dealer - - - - -	14	Forester - - - - -	2
Boilermaker - - - - -	5	Decorator - - - - -	11	Forest Ranger - - - - -	4
Bookkeeper - - - - -	23	Dental Technician - - - - -	1	Foundry Owner - - - - -	1
Bricklayer - - - - -	4	Dentist - - - - -	33	Fruit Grower - - - - -	16
Bridgeman - - - - -	3	Designer - - - - -	4	Fuel Dealer - - - - -	1
Broker - - - - -	30	Despatcher - - - - -	2	Furnaceman - - - - -	1
Builder - - - - -	24	Detective - - - - -	4	Furrier - - - - -	2
Business - - - - -	38	Die Maker - - - - -	1	Game Commissioner - - - - -	1
Butcher - - - - -	10	Director - - - - -	11	Garageman - - - - -	16
Buyer - - - - -	16	Diplomatic Corps - - - - -	1	Gardener - - - - -	2
Cabinet-maker - - - - -	10	Disabled - - - - -	1	Geologist - - - - -	2
Canner - - - - -	1	Displayman - - - - -	1	Golfer (Pro.) - - - - -	1
Captain - - - - -	2	Distiller - - - - -	1	Greenkeeper - - - - -	2
Car Cleaner - - - - -	1	Distributor - - - - -	5	Grocer - - - - -	21
		Doctor - - - - -	97	Guard - - - - -	6

Harbour Board	1	Missionary	3	Sheetmetal Worker	6
Hairdresser	1	Motorman	4	Shipper	17
Hoistman	1	Moulder	5	Ship's Officer	2
Hostler	1	Musician	5	Shipwright	10
Hotelman	8	National Film Board	1	Shipyard Worker	23
Housing Admin.	1	Navy	14	Shoemaker	3
Importer	9	Newspaperman	3	Sign Writer	1
Inspector	53	Notary	3	Smelterman	6
Insurance	38	Nurseryman	5	Statistician	1
Investigator	7	Officers (Government)	14	Stenographer	4
Interpreter	1	Operator (Miscellaneous)	43	Stereotyper	1
Invalid	6	Optician	12	Storekeeper	5
Janitor	9	Orchardist	2	Steward	7
Jeweller	5	Orderly	2	Supervisor	11
Jiggerman	1	Organizer	1	Superintendent	57
Joiner	2	Painter	11	Sugar Boiler	1
Journalist	3	Papermaker	8	Surveyor	9
Judge	6	Pathologist	1	Stevedore	3
Justice	3	Patternmaker	4	Tailor	8
Labourer	38	Pensioner	28	Tallyman	1
Landlord	12	Petroleum Processor	1	Tanner	2
Lather	2	Photographer	2	Taxi Operator	1
Laundryman	1	Physiotherapist	2	Teacher	90
Lawyer	62	Piano Tuner	1	Technical Advisor	2
Lecturer	3	Pilot	1	Telegrapher	11
Liaison Officer	2	Planter	1	Telephony	1
Librarian	4	Plasterer	9	Timber Cruiser	5
Liquor Vendor	2	Plumber	12	Timekeeper	3
Lineman	4	Policeman	10	Toolsmith	2
Logger	26	Porter	1	Transportation	8
Longshoreman	5	Postman	12	Treasurer	1
Lumberman	36	Postmaster	13	Towing Operator	1
Machinist	53	Poultryman	7	Trimmerman	1
Magistrate	1	President	8	Typographer	1
Maintenanceman	6	Principal	15	Utilityman	1
Manager	210	Printer	21	Unemployed	2
Manufacturer	31	Professor	16	Veterinary	1
Market Commissioner	1	Projectionist	3	Waiter	2
Mariner (Master)	10	Publisher	5	Warden	2
Mason	1	Public Relations	1	Warehouseman	5
Meat Packer	3	Purser	2	Watchmaker	4
Mechanic	40	Radio	2	Watchman	3
Member Parliament	1	Railway	17	Weightman	1
Merchant	147	Rancher	25	Welder	8
Metal Worker	9	R. C. M. P.	1	Welfare Officer	3
Metallurgist	6	Real Estate	34	Wholesaler	15
Meteorologist	1	Reeve	1	Writer	2
Meter Reader	2	Repairman	7	Wharfinger	1
Milk Tester	1	Restaurateur	2	Wheelpress Operator	1
Mill Owner	19	Roadmaster	3	Wireless	1
Miller	1	Sacristan	1	X-ray Specialist	1
Millwright	10	Salesman	120	Zoologist	1
Miner	23	Sawfiler	5		
Mine Owner	1	Sawyer	6		
Minister	40	Scaler	2		
Minister of Education	1	Secretary	21	TOTAL	5443

## SECOND TERM STUDENTS - Occupation of Parents

Deceased - - - - -	162	First Aid Attendant - - -	2	Piano Tuner - - - - -	1
Retired - - - - -	94	Field Officer C.V.T. - - -	1	Pipe Fitter - - - - -	1
Unspecified - - - - -	70	Fisherman - - - - -	3	Plasterer - - - - -	1
Accountant - - - - -	33	Fish Buyer - - - - -	1	Plumber - - - - -	2
Advisor (Legal) - - - - -	1	Florist - - - - -	1	Policeman - - - - -	5
Agents - - - - -	9	Foreman - - - - -	14	Postmaster - - - - -	2
Air Force - - - - -	2	Forest Ranger - - - - -	1	President - - - - -	1
Army - - - - -	9	Fruit Rancher - - - - -	6	Printer - - - - -	4
Assayer - - - - -	2	Fuel Business - - - - -	5	Professor - - - - -	2
Auditor - - - - -	3	Gardener - - - - -	2	Prospector - - - - -	1
Banker - - - - -	3	Glassworker - - - - -	1	Projectionist - - - - -	1
Barber - - - - -	4	Greenkeeper - - - - -	1	Principal (School) - - - - -	3
Bartender - - - - -	1	Grocer - - - - -	5	Purchasing Agent - - - - -	1
Blacksmith - - - - -	1	Grower (Oysters) - - - - -	1	Rancher (Poultry) - - - - -	1
Boatman - - - - -	1	Guard - - - - -	4	Real Estate - - - - -	4
Boilermaker - - - - -	1	Handwriting Expert - - - - -	1	Retailer - - - - -	1
Bookkeeper - - - - -	3	Horticulturist - - - - -	1	R. C. M. P. - - - - -	2
Box Maker - - - - -	1	Hotelman - - - - -	1	Reporter - - - - -	1
Bridgeman - - - - -	1	Hotel Owner - - - - -	1	Roadmaster - - - - -	1
Business - - - - -	3	Importer - - - - -	1	Salesman - - - - -	28
Builder - - - - -	5	Inspector - - - - -	13	Sales Engineer - - - - -	2
Butcher - - - - -	1	Insurance - - - - -	4	Sawyer - - - - -	1
Buyer (Grain) - - - - -	1	Invalid - - - - -	1	Secretary - - - - -	3
Cabinet Maker - - - - -	3	Janitor - - - - -	3	Scaler - - - - -	1
Carpenter - - - - -	31	Jeweller - - - - -	1	Shiftboss - - - - -	1
Caretaker - - - - -	4	Labourer - - - - -	18	Shipper - - - - -	3
Cement Finisher - - - - -	1	Laundry owner - - - - -	1	Shipwright - - - - -	4
Checker - - - - -	1	Lawyer - - - - -	7	Shoe Cutter - - - - -	1
Chef - - - - -	4	Lab. Technician - - - - -	1	Smelterman - - - - -	1
Chemist - - - - -	1	Lightkeeper - - - - -	1	Social Service - - - - -	1
Civic Employee - - - - -	3	Logger - - - - -	4	Shoe Repair - - - - -	1
Civil Servant - - - - -	23	Longshoreman - - - - -	1	Stock Broker - - - - -	1
Clerk - - - - -	18	Lumberman - - - - -	8	Steel Worker - - - - -	2
Clothier - - - - -	2	Machinist - - - - -	11	Storekeeper - - - - -	8
Conductor - - - - -	11	Manager - - - - -	29	Stenographer (Official) - - - - -	1
Contractor - - - - -	17	Manufacturer - - - - -	3	Superintendent - - - - -	7
Customs Officer - - - - -	3	Mariner (Master) - - - - -	7	Stevedore - - - - -	1
Consultant (Income Tax) - - - - -	1	Mason - - - - -	1	Surveyor - - - - -	2
Cutter - - - - -	2	Mechanic - - - - -	7	Tailor - - - - -	1
Dancer - - - - -	1	Merchant - - - - -	15	Technician - - - - -	1
Dentist - - - - -	1	Mill Worker - - - - -	5	Teacher - - - - -	15
Dependent on Student - - - - -	1	Millwright - - - - -	4	Teacher (Music) - - - - -	1
Director - - - - -	2	Miner - - - - -	9	Telegrapher - - - - -	2
Draftsman - - - - -	2	Minister - - - - -	12	Timekeeper - - - - -	2
Driver (Truck) - - - - -	4	Missionary - - - - -	1	Transfer - - - - -	2
Druggist - - - - -	6	Mortician - - - - -	1	Trimmer - - - - -	1
Editor - - - - -	2	Moulder - - - - -	1	Underwriter - - - - -	2
Electrician - - - - -	4	Musician - - - - -	1	Veteran (Disabled) - - - - -	1
Employees (Government) - - - - -	5	Navy - - - - -	4	Warehouseman - - - - -	1
Employees (Railway) - - - - -	15	Newspaperman - - - - -	1	Watchman - - - - -	3
Engineer - - - - -	50	Operators - - - - -	3	Wholesaler - - - - -	2
Estimator - - - - -	1	Oil Company Employees - - - - -	2	Y.M.C.A. War Services - - - - -	1
Executive - - - - -	2	Owner (Resort) - - - - -	1		
Exporter (Lumber) - - - - -	1	Painter - - - - -	2	TOTAL - - - - -	771
Farmer - - - - -	70	Papermaker - - - - -	2		
Fireman - - - - -	1	Pattern Maker - - - - -	1		
Fire Chief - - - - -	1	Pensioner - - - - -	2	GRAND TOTAL - - - - -	1097
		Physician - - - - -	12		

# COMPARATIVE STATEMENTS OF REGISTRATION

Year	Arts and Science	Applied Science	Nursing	Agriculture	Law	Social Work	Teacher Training Course	Total Winter Session	Summer Session	Short Courses	Grand Total
1933-34	1147	287	48	63	—	—	61	1606	370	124	2100
1934-35	1238	320	57	71	—	—	66	1652	377	165	2294
1935-36	1337	336	68	80	—	—	62	1883	464	278	2625
1936-37	1499	366	47	95	—	—	42	2049	566	306	2921
1937-38	1590	416	50	100	—	—	67	2223	650	279	3152
1938-39	1634	419	59	117	—	—	57	2286	659	290	3235
1939-40	1664	434	65	139	—	—	69	2371	715	253	3339
1940-41	1724	466	60	166	—	—	71	2487	587	206	3280
1941-42	1763	488	63	155	—	—	68	2537	457	184	3178
1942-43	1744	522	98	140	—	—	34	2538	329	98	2965
1943-44	1709	515	67	113	—	—	26	2430	441	131	3002
1944-45	2098	546	112	147	—	51	20	2974	861	113	3948
Special Spring Session — Ex-Service Personnel											278
											4226
1945-46	4814	1083	128	406	87	67	47	6632	2368	151	9151
Special Spring Session — Ex-Service Personnel											2014
											11165

# COMPARATIVE STATEMENT OF DEGREES CONFERRED

Year	M.A.	B.A.	B.Com.	B.Ed.	M.A.Sc.	B.H.E.	B.A.Sc.	B.S.F.	B.A.Sc. Nursing	B.S.W.	M.S.A.	B.S.A.	Total	Grand Total
1934	11	204	31	—	3	—	37	—	5	—	4	12	307	3583
October	6	36	5	—	1	—	5	—	—	—	1	3	57	3640
1935	14	196	23	—	8	—	57	—	13	—	2	19	332	3972
October	12	45	5	—	—	—	5	—	—	—	—	1	68	4040
1936	15	175	21	—	6	—	50	—	7	—	5	16	295	4335
October	10	38	1	—	2	—	3	—	—	—	3	2	59	4394
1937	21	190	28	—	4	—	48	—	2	—	7	14	314	4708
October	9	54	8	—	—	—	6	—	1	—	1	1	80	4788
1938	20	204	31	—	6	—	56	—	7	—	3	19	346	5134
October	10	53	3	—	2	—	4	—	—	—	—	5	77	5211
1939	19	217	22	—	7	—	71	—	8	—	4	22	370	5581
October	5	63	6	—	—	—	9	—	—	—	1	2	86	5667
1940	30	212	37	—	4	—	71	—	13	—	3	18	388	6055
October	6	62	7	—	—	—	1	—	—	—	1	3	74	6129
1941	21	189	26	—	7	—	81	1	8	—	2	19	354	6483
October	8	73	9	—	1	—	—	—	—	—	3	—	94	6577
1942	14	170	52	—	9	—	82	3	6	—	2	26	364	6941
October	12	51	1	3	—	—	2	—	—	—	2	5	76	7017
1943	13	167	31	2	3	—	92	2	12	—	3	25	350	7367
October	8	51	1	3	—	—	1	—	—	—	1	4	69	7436
1944	6	163	37	1	7	—	87	3	9	—	1	24	338	7774
October	1	45	4	7	—	—	1	1	1	—	—	3	63	7837
1945	10	189	43	4	—	—	97	3	8	—	2	19	375	8212
October	5	41	4	8	4	—	3	—	—	—	1	5	71	8283
1946	12	220	54	9	2	15	112	12	19	37	1	32	525	8808

# COMPARATIVE STATEMENT OF DIPLOMAS ISSUED

Year	Teacher Training	Public Health Nursing	Social Work	Occupational Course in Agriculture	Totals
1934 - - - - -	61	10	—	—	71
October - - - - -	3	—	3	—	6
1935 - - - - -	65	15	3	3	86
October - - - - -	1	—	7	—	8
1936 - - - - -	60	15	—	—	75
October - - - - -	—	—	12	—	12
1937 - - - - -	39	16	—	4	59
October - - - - -	1	5	19	—	25
1938 - - - - -	65	18	1	3	87
October - - - - -	—	2	15	—	17
1939 - - - - -	54	14	2	4	74
October - - - - -	1	1	24	—	26
1940 - - - - -	66	12	3	5	86
October - - - - -	2	—	23	—	25
1941 - - - - -	68	9	1	2	80
October - - - - -	—	—	22	—	22
1942 - - - - -	59	10	4	4	77
October - - - - -	—	1	17	—	18
1943 - - - - -	28	27	2	—	57
October - - - - -	—	—	12	—	12
1944 - - - - -	24	29	8	—	61
October - - - - -	1 (June)	1	24	—	26
1945 - - - - -	21	32	1	3	57
October - - - - -	—	2	18	—	20
1946 - - - - -	45	39 (June)	—	18	102

## HONORARY DEGREES CONFERRED

Year	LL.D. (Honoris Causa)	Year	LL.D. (Honoris Causa)
1930 - - - - -	1	1944 (October) - - -	4
1931 - - - - -	—	1945 - - - - -	1
1932 - - - - -	2	1945 (October) - - -	9
1933 - - - - -	8	1946 - - - - -	1
1934 - - - - -	1	Total - - - - -	49
1935 - - - - -	2	Previous Years - - -	8
1936 - - - - -	6	—	57
1937 - - - - -	1	1944 (D.Sc.) - - -	1
1938 - - - - -	5	1945 " - - - - -	2
1939 - - - - -	3	1946 " - - - - -	2
1940 - - - - -	1	—	62
1941 - - - - -	—	GRAND TOTAL -	62
1942 - - - - -	4		
1943 - - - - -	—		

# LOCATION OF GRADUATES

OCTOBER, 1946

Number in:

Vancouver	3423
Other parts of British Columbia	1909
Other parts of Canada	614
Great Britain	59
United States of America	287
Other Countries	58
Number deceased	220
Number whose address is unknown	1237
<b>TOTAL</b>	<b>7807</b>

N.B.—These figures do not include original members of Convocation.

# SCHOLARSHIPS, PRIZES, FELLOWSHIPS, AND BURSARIES

## AWARDED TO GRADUATES

1945-46

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 by the Senate of the University of British Columbia.

Ainsworth, Allan H.	Rhodes Scholarship	\$1780	Oxford University
Akrigg, G. P. V.	Folger Fellowship	\$2500	English
Bartholomew, G.	National Research Council Studentship	\$750	Physics McGill University
Bell, R. E.	National Research Council Studentship	\$750	Physics McGill University
Blissett, William	Fellowship	unknown	English University of Toronto
Carbert, Leslie W.	Scholarship	\$1000	Economics Columbia University
Crestighton, Kenneth D.	Assistantship	\$1025	Economics University of California
Clark, Robert	Teaching Fellowship	unknown	Harvard University
Detwiller, Lloyd	Assistantship	\$1250	Economics University of California
English, Edward	Assistantship	\$1025	Economics University of California
English, Henry	Assistantship	unknown	Economics University of California
Fieldhouse, Roger	Assistantship	\$1125	Economics University of California
Forster, John H.	Research Assistantship	\$1800	Physics Purdue University
Hammersley, Donald W.	Scholarship	\$750	Physics University of Washington
Harvey, James W.	Assistantship	\$1025	Economics University of California
Hobden, Lloyd H.	French Government Scholarship	\$1000	French University of Paris
Hood, James A.	French Government Scholarship	\$1000	French University of Paris
Ivey, D. G.	Research Assistantship	\$1800	Physics Notre Dame University
Johnson, A. C.	Research Assistantship	\$1800	Physics Purdue University
McLeod, R. R.	Research Assistantship	\$1800	Physics Purdue University
Newton, Theodore Duddell	National Research Council Pre-Doctoral Fellowship	\$1800	Physics
Ostle, Bernard	Scholarship	\$600	Economics University of Minnesota
Pepper, Thomas	National Research Council Studentship	\$750	Physics McGill University
Pronger, Lester J.	French Government Scholarship	\$1000	French University of Paris
Prowd, Lawrence	Teaching Fellowship	unknown	Economics University of California
Smith, Marjorie	Assistantship	\$1025	Economics University of California
Smith, Wilma	Teaching Fellowship	\$1125	Statistics University of California
Stanier, Roger Y.	Guggenheim Fellowship	\$2500	Bacteriology
Stead, Gordon	Assistantship	\$1025	Economics University of California
Turner, David B.	American Wildlife Institute Fellowship	\$1500	Wildlife Survey
Wilson, Atholl	Teaching Fellowship	\$625	Mathematics University of Toronto

NOTE:—In many cases these scholarships and fellowships carry with them free tuition or exemption from fees (or travelling expenses) in addition to their monetary value.

Value of scholarships, fellowships and bursaries won by our graduates in other Universities and in Institutes during the 1945-46 Session	\$ 34,130.00
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	\$781,939.00

*Report of*

## **The Dean of The Faculty of Arts and Science**

### **DEPARTMENT OF BIOLOGY AND BOTANY**

#### **EXTENSION OF COURSES**

The student registration in this Department has increased considerably more than four times during a two year period, as compared with the general University increase of three times. This influx is attributable to the development of Forestry and Agriculture, the institution of Fisheries and Pharmacy as regular courses, the extension of Nursing and Home Economics, the promise of the establishment of Medicine and a new interest in life resources and in ways of living. The Department has attempted to prepare for this progress tending the facilities and augmenting the courses. Four members of professorial rank and thirty-six assistants have been added to the staff. Lecture sections are large but individual attention is afforded in the laboratory. The Honours Course, Biology, Forestry option has been replaced by participation in the B.S.F. course. An additional Honour course in Ecology is planned for this year's Calendar. Although the staff is not sufficient to cope properly with the number of students the additions have made possible the advantage of providing specialists in several branches of Biology and Botany.

#### **ACCOMMODATION**

Two huts, with connecting room space, have been provided; thereby the laboratory space has been increased by 50 per cent. Obviously, the former inadequacy has been intensified eight fold by a student increase exceeding 400 per cent. There are 20 laboratory sections in Biology I. During the three years following this date the demand for laboratory space will be accentuated by the greater diversity of courses and laboratory time of the upper years. The proposed extension of accommodation is an immediate requirement in order to satisfy the demand of students in the Biological Sciences.

#### **EQUIPMENT AND SUPPLIES**

A like situation is faced here, with the additional complication that a degree of duplication results from the decentralization of laboratories, conditioned by the use of huts remote from the wing of the building now occupied. Other huts, needed next year, will add at least one more locus of operation. A central building or group of buildings is the only economic solution.

The employment of Assistants during the summer to provide collections of class materials has been initiated and should be extended. The provision of a field Station or Stations representative of the distinctive areas of this Province would facilitate this service.

#### **LIBRARY FACILITIES AND READING ROOM**

The new wing of the library will contribute much needed reference facilities. It is the unanimous opinion of members of this Department that books and periodical references beyond the purchasing expectancy of the student should be provided for each laboratory class. The fact that members of the Department have contributed in this direction at considerable personal time and expense presents concrete evidence of the sincerity of the demand. It is hoped that the library policy may take cognizance of limited "Branch Libraries", or "Departmental Loans" as may be required for laboratory or class reference.

#### **EXECUTIVE CONTRIBUTION TO SCIENTIFIC SOCIETIES**

President of B. C. Academy of Science—J. Allardyce.

Member of Executive Committee, Section V, Royal Society of Canada—A. H. Hutchinson.

Executive Vancouver Natural History Society—John Davidson.

Chairman, Provincial Advisory Committee on Medicinal Plants—John Davidson.

Member, Committee on Marine Plants, B. C. Research Council—A. H. Hutchinson.

Member, Forestry Committee, B. C. Research Council—A. H. Hutchinson.

# DEPARTMENT OF BACTERIOLOGY AND PREVENTIVE MEDICINE

## ALTERATION IN COURSES

No new courses were given. For the first time, however Bacteriology I was given as a Summer School course, under the direction of Dr. D. C. B. Duff. The enrolment was 56, and the general calibre of students enrolled was good.

The practice begun last year of assigning a research problem to students in Bacteriology II (a Third Year course in the methodology of research intended for prospective Honours students) was continued, and met with success.

## ENROLMENT

The enrolment in all courses given by the Department, the lectures for Bacteriology I, and to arrange for numbering 184. It became necessary to duplicate the lectures for Bacteriology I., and to arrange for three laboratory sections.

Reference has been made for the past several years to critical overcrowding in the Department. Overcrowding in Bacteriology laboratories leads not only to inefficient teaching of proper techniques, which inevitably entails poorly trained students, but involves the risk of danger from infection. Moreover, with multiple sections having to be arranged for laboratory work, there is diminishing opportunity left for those students who are particularly interested in extra-curricular work to pursue these interests, since the laboratories are rarely free from class work. There is very real need for considerably greater space for the Department for teaching functions alone, without regard to the research obligations of staff and senior students.

## RESEARCH WORK

As in the past ten years, close relationships were maintained between this Department, the Provincial Laboratories, and the Western Division of Connaught Medical Research Laboratories. Notable examples of the benefits of this collaboration were found in the Salmonella investigations carried out primarily by Dr. L. E. Ranta. Specimens initially identified in the Provincial Laboratories were submitted to further investigation at the University, and important clues as to the modes of transmission and origins of these organisms, which have been causing sporadic epidemics in Vancouver, and indeed throughout the Province, during the past year, were thus disclosed.

Further work was undertaken by Dr. C. E. Dolman on the rare Type E outbreak of botulism which occurred in Nanaimo two years ago; and under a grant from the Board of Governors a former Honours student of this Department, Miss C. L. Aszkamasy, B.A., was employed during the summer months to continue with these investigations.

Reports on the results of the Salmonella and the botulism researches are being prepared and will be published shortly.

Apart from the foregoing activities, Doctor Ranta continued to operate the Salmonella Typing Centre which is maintained by Connaught Medical Research Laboratories in its Western Division as the typing centre for the whole of Canada.

Doctor Dolman maintained an active interest in staphylococcus food poisoning research. A grant from the National Research Council was renewed during the year for the purification of the food poisoning substance (staphylococcus enterotoxin), and with the assistance of Miss J. E. Wood, B.A., throughout the year, and of Mr. W. G. B. Casselman, M.A., during the summer months, valuable progress was made.

Doctor Duff was also the recipient of a grant from the National Research Council for further work on the toxins of *Clostridium welchii* (a gas gangrene micro-organism). He was assisted in this work by Miss Frances Airey, B.A., and Mr. Gordon Bell, B.S.A.

During the year a fellowship donated by the Central Lions Club of Vancouver, for research into cancer and virus diseases, was held by Mr. C. F. Claridge, B.A. The purpose of this fellowship was to initiate graduate students into the techniques of elementary virus research. The Department lacks appropriate accommodation and general facilities for advanced research in this field, but welcomes the opportunity conferred by this generous act of the Lions Club to broaden its scope of training and interests.

## OTHER ACTIVITIES

The staff of the Department, as in the past, gave various lectures on medical and other topics to lay and professional bodies.

Doctor Duff continued as Consulting Pathologist to the Fisheries Research Board of Canada, and Doctor Dolman as Consulting Bacteriologist to the Vancouver General Hospital, while Doctor Ranta served on the Technical Committee on Nutrition of the Greater Vancouver Metropolitan Health Committee. Doctor Dolman remained a member of the Editorial Committee on Standard Methods for the Examination of Dairy Products of the American Public Health Association, and continued as a member of the Editorial Board and a Director of the Canadian Public Health Association.

For three months during the year Doctor Dolman was granted leave of absence, during which he visited some thirty-three medical schools in Canada and the United States. This survey was carried out at the request of the Board of Governors of the University to get information as a preliminary step to the possible establishment of a Faculty of Medicine at the University.

The Department was sorry to lose the services of Miss Marjorie Todd, M.A., who had been Instructor for the past three years, and who left to take a fellowship and to pursue courses leading to a Ph.D. degree at the University of California.

## RESEARCH

During the war much unpublished research was accomplished. In spite of long class periods many phases of research are being conducted by members of this Department. These are in various stages of progress as indicated by the summary:

(1) *Research in progress, publication planned.*

"On growth rates, life histories and conditions of culture of marine Algae, especially *Gracilaria confervoides*," (agar producing), by A. H. Hutchinson, C. J. Wort, and R. W. Pillsbury.

"A Comprehensive Report on the flora of the north shore of Lake Superior," by T. M. C. Taylor.

"A species of *Stemphylium* as part of the early blight complex of Solonaceous Plants," by F. Dickson and N. S. Wright.

"A Comparative histologic and Micro-chemical study of the decay of coniferous trees," by F. Dickson, and G. R. Thomas.

"Development of a Photometric-fluorometric apparatus for vitamin determination," J. Allardyce and J. Rattenbury.

"Assays for Riboflavin Thiamin and Vitamin A", by J. Allardyce and R. A. McLeod.

"Effect on Growth and Basal Metabolism of excessive amounts of B. vitamins in the presence of added desiccated thyroid", by J. Allardyce.

"Study of the mutant character 'orange eye' in *Drosophila melanogaster*", by Ruth Fields Brink and Edith Katznelson.

"Study of the mutant 'sympalpi' in *Drosophilamelanogaster*", by Ruth Fields Brink and Kathleen Cole.

## DEPARTMENT OF CHEMISTRY

During the year over 4,000 student courses were given in this Department. Some of our post-graduate students, who would normally have proceeded with further post-graduate work elsewhere, consented to remain as Instructors to help the Department instruct the large number of returned Veterans.

Dr. R. H. Clark presented three papers to the members of the Royal Society of Canada on:

(1) Chemically Transmuted Wood;

(2) The Effect of High Frequency Heating on the Micro-organisms in Milk; and

(3) Various Methods of Synthesis of Phenyl-Vinyl-Ketone.

The investigation on chemically treated wood is being carried on jointly by the Department of Chemistry and the British Columbia Research Council. Results have shown that a satisfactory product to replace hardwood for flooring can be made from several of the British Columbian softwoods using Bakelite resins. Such wood made from alder, cottonwood, hemlock have been shown to have a hardness of from three to five times that of oak and to absorb considerably less moisture when immersed in water than oak. It is hoped that by making the Bakelite resin from its components, phenol and hexa-methylene tetramine, it will lessen the cost of the product.

In June, Dr. Clark visited the chemical industries at Sarnia. While in Sarnia he was informed that thirty-two of our graduates were employed in the chemical industries of that City. Many of these were with the Polymer Corporation, engaged in the production of synthetic rubbers. Rubber research is being actively carried on in several of the Universities of Canada, including the University of British Columbia. Many new compounds are being synthesized in our laboratories in the hope that when polymerized either alone or with butadiene, a synthetic rubber with more elastic prop-

erties than any of the synthetic rubbers so far made would be discovered. So far, however, no one has succeeded in producing a rubber equivalent to the natural rubber as far as elasticity is concerned.

During the year, fourteen students registered for the Master's degree in Chemical Engineering. Most of their investigations were carried on under Dr. W. F. Seyer. These investigations, for the most part, concerned the measurement of the physical-chemical properties of various hydro-carbons. This work is being correlated with that being done at the National Research Council, where the behaviour of petroleum fuels and lubricants at low temperatures are being studied.

Another project being carried on by Dr. Seyer, towards which the Consolidated Mining and Smelting Company are giving assistance in the form of a Cominco Fellowship, is the development of an electric cell for the production of sulphuric acid at a temperature of 25 deg. C. from sulphur dioxide, oxygen and water. Dr. Seyer presented a paper before the Northwest Pacific Section of the American Chemical Society describing this cell; as well as one on the anomalous specific heat of certain hydrocarbons. At this meeting Dr. Seyer was elected Chairman of the Physical Chemical Section and a Member of a Committee for organizing Western Meetings of the American Chemical Society.

Dr. M. J. Marshall presented a paper before the Royal Society of Canada entitled: "The Action of Water Vapour on an Active Carbon Surface". This work is a continuation of the absorption research which has been carried on by Dr. Marshall for many years. Dr. Marshall has become an authority on absorption phenomena. His work with diagrams of his equipment, is cited in a dozen of the more recent text-books on physical Chemistry and numerous references to his work appear in the chemical journals.

Dr. Marshall expects to continue the work in this field in which he has taken the lead in developing various types of apparatus. He is carrying on other investigations on Micro-gas analysis, and on certain electrochemical phenomena involved in the interaction of metals with their protective coatings.

The Editor of "Inorganic Synthesis" has requested permission to publish the details of a new synthesis discovered by Dr. Marshall during some war research carried on for the National Research Council. This permission can only be granted when the research is removed from the secret list.

Dr. Marshall attended the Annual Convention of the Chemical Institute of Canada in June. He was a member of the Council, representing British Columbia. He assisted in organizing a Student Chapter of the Chemical Institute of Canada at this University.

Dr. William Ure has continued his investigation of Flotation Reagents with the aid of a grant for equipment. A study is being made of the use of quaternary ammonium compounds in the flotation of silica. One of the major problems is the development of suitable methods of analysis at the low concentrations used.

Dr. Ure is also measuring the rates of some chemical reactions, which in the gas phase, involve the transitory appearance of free radicals, which may be used to initiate reaction chains. He has previously shown that dimethyl acetal heated to 400 deg. C. is a source of free radicals. An attempt was made to induce decomposition in methane by this means, with the object of eventually preparing higher hydro-carbons. Although below 550 deg. C. the reaction is not thermo-dynamically favourable, some evidence was obtained for the production of ethylene from methane.

Another project on synthetic rubber was undertaken by Dr. Ure in cooperation with the National Research Council and the Polymer Corporation in the fall of 1945 and was continued during the summer months with the assistance of three graduate students. Synthetic rubber latex was prepared and the physical and colloidal properties studied. The results are being reported to the National Research Council.

In July, Dr. Ure visited the plant of the Polymer Corporation at Sarnia, spending several days studying the manufacture of latex and discussing research problems with members of the staff. He also attended a meeting of the Research Projects Sub-committee on synthetic rubber held at Quebec City, where the programmes of research on synthetic rubber at the various Canadian Universities were discussed.

In August, Dr. J. Allen Harris flew to England at the request of the Department of National Defence to organize the Chemistry and Physics courses at the Khaki University of Canada at Watford, England; and to arrange for credit to be given for these courses by the University of London. He was away six weeks.

The research activities of Dr. Harris have been largely devoted to a study of uranium compounds at the request of the Department of Mines and Natural Resources, and the analytical reactions of other rare elements.

Dr. J. G. Hooley has continued his fundamental studies on the attack of glass by alkaline solutions, using fused silica, the simplest of all glasses.

In another project he is attempting to make a porous insulating material from local slag deposits, but so far without satisfactory results.

Three patents have been granted by the United States patent office to the Corning Glass Works for work done by Dr. Hooley while in their employ: No. 2398530 on "Ultra Violet Transmitting Glass"; No. 2400147 on "Fluorescent Glass Composition"; and No. 2393469 on "Fluorescent Glass and Lamps made therefrom".

A special Chemistry aptitude test was prepared for use of the Department of Veterans Affairs in collaboration with the Department of Education. It has proven very useful in the counselling of Veterans.

Dr. Hooley represented the University on the Entrance and Senior Matriculation Examination Board.

Dr. Hooley collaborated with Dr. Alyea of Princeton University in a revision of the Freshman Chemistry Text by Foster and Alyea. He also spent the months of May and June in a motor tour of Universities and industries in Eastern Canada and the United States.

## DEPARTMENT OF CLASSICS

The Department was short-handed owing to the fact that Mr. Louis A. MacKay had been granted leave of absence before the beginning of the term. He is now carrying out investigations, under a Guggenheim Fellowship, at the University of California.

## DEPARTMENT OF COMMERCE

The outstanding factor in the year was the sudden increase in classes over the previous session, as experienced by all departments. Despite attempts to secure additional staff we entered the work of the year short-handed, a situation aggravated by the fact that Dr. Currie was in Ottawa on leave of absence. We were fortunate in securing, after the session started, the services of qualified and competent instructors in the persons of Mr. Bell and Mr. Stark. The need for sectionalizing the courses in Fundamentals of Accounting (Mr. Taylor and Mr. Bell) and in Marketing (Mr. Stark, Mr. Bell) together with the heavy enrolment in all courses and the putting on of two courses in each of the Spring and Summer Sessions resulted in an extra heavy load for all members of the staff. Fortunately the normal schedule of assignments and reports was maintained by supplementing the staff with student readers.

The year was also marked by re-instituting courses which had been dropped during the latter war years owing to shortage of staff, viz: Commercial Law (Mr. Farris); Business Finance (Mr. Taylor) and Foreign Trade Practices and Policies (Mr. Morrow). In addition, a new advanced course in Advertising was established under the direction of Mr. Morrow and at the request of the Advertising and Sales Bureau of the Board of Trade who have undertaken to contribute one thousand dollars a year for five years to assist the department in undertaking the work. Because of the somewhat technical nature of advanced work in this field substantial use was made of visiting lecturers, experts in the various aspects of the course. The lectures were generally of a high order and the results of the first year of the course were most satisfactory from the Department's point of view. The Cost Accounting course came under the direction of Mr. Taylor, and the two students elected as guests of the Powell River Company Limited to spend ten days at Powell River studying their cost system were J. Forbes and M. Dennis. A gratifying feature of the year's work was the general excellence of the major reports required in several of the commerce courses.

The large numbers in the course in Industrial Management made it difficult to maintain the regular schedule of factory trips with the result that the normal plant visits of twelve per student had to be reduced to six per student. This difficulty will remain as long as the present heavy enrolment continues.

The graduation dinner arranged by the Commerce Undergraduate Society attained full proportions this year and was held in the ballroom of the Vancouver Hotel with an attendance of almost 600 guests. The speaker of the evening was Mr. R. A. Diamond, Vice-President and General Manager of The Consolidated Mining and Smelting Company of Canada Limited, whose address was reported verbatim in Industrial Canada. The occasion was graced by His Honour the Lieutenant-Governor.

With the appointment of Major J. H. McLean as employment officer for the University, the placement activities of the Department were changed to fit in to the general picture and brought

under the direction of Major MacLean. It is highly gratifying to the Department to know that practically all the Commerce students receiving degrees at the Spring and Fall Congregations have secured satisfactory employment. In this connection we cannot refrain from referring to the spectacular success achieved by Mr. William M. Mercer who graduated in 1943 and Mr. Robert S. Whyte, who graduated in 1944. Under the firm name of William M. Mercer Limited, these young men have established a nationally-known organization engaged in setting up pension arrangements for several large concerns in Western and Eastern Canada.

I acknowledge with gratitude the kindness of Dean Clement in providing extra office space during the year. As always the Department is indebted to the many visiting lecturers who assisted in the various courses.

## DEPARTMENT OF ECONOMICS, POLITICAL SCIENCE AND SOCIOLOGY

### GOVERNMENT

The Department has been fortunate in being able to retain as a regular part of its work the course in International Law given by Dr. N. A. M. MacKenzie. This course is also part of the regular work for the degree course in the Faculty of Law. The return of the Head of the Department from Ottawa made it possible to resume the courses which had been suspended during the previous year and to add a course on Reconstruction Problems. The large number of returned men wishing to qualify for entry into the Department of External Affairs has been among the causes contributing to a greater demand for work in Political Science. If this demand continues some further addition to the teaching staff will be necessary.

### ECONOMICS

The greatest pressure in the first post-war session has naturally been on the introductory courses in Economics and on the introductory courses in Statistics. The addition of Dr. Stuart Jamieson to the staff made it possible to offer the basic course in Economic History, which had previously been given by Dr. Currie of the Department of Commerce, who was on leave of absence in Ottawa. By appointing two graduates of U. B. C. who had been in the air-force and army respectively it was possible to relieve Professor Drummond of the work in elementary Statistics and to handle the large numbers presenting themselves for this course.

An indirect effect of these changes was to increase the choice of courses in the final years by offering a course in Labour Problems and by devoting the Honours Seminar to the study of Business Cycles. It is apparent that more courses still will be necessary as more returned men enter the final years.

Dr. Stuart Jamieson gave a Reading Course in Economics 1 with an enrolment of 32 students, mostly from outside Vancouver.

Throughout the Department increasing use was made of assistants and readers. It was only by entrusting to them much of the routine work in connection with essays and other assignments that it was possible for the senior members of the teaching staff to deal with the larger numbers.

### SOCIOLOGY

Dr. Topping continued to take charge of the work in Sociology which has become more specialized now that there is a separate Department of Social Work. Here, too, some expansion appears necessary as larger numbers of returned men reach the final years. Work in Social Anthropology could be conveniently integrated with what is already being done.

### SUPPLEMENTARY WORK IN GOVERNMENT, ECONOMICS AND SOCIOLOGY

As in the preceding year, special courses for returned men were given in the second half of the regular session, in a special spring session and in the summer session. The effect has been to take some of the strain off classes which would otherwise have been greatly overcrowded. Examples are Statistics, and the introductory courses in Economics. By providing some third and fourth year options it was made possible for returned men to abbreviate their work at the university. This must be regarded as an exceptional measure for experience showed that the fatigue of many months of academic work, unbroken by holidays, did lower the quality of the work done by the students. In the case of the teaching staff care was taken that the same man did not teach in both special spring and summer sessions.

## GENERAL APPRECIATION

Under circumstances which were at times trying, all members of the department, permanent and temporary alike, worked harmoniously together and did their utmost to play their part in what has become a significant aspect of Canadian economic reconstruction. It was fortunately possible to recognize these services in many cases by well merited promotions and increases in salary.

## DEPARTMENT OF EDUCATION

The heaviest duty of the Department in the regular sessions is the Teacher Training Course, which is open to graduates only and consists of one year's work entirely in Education. The course leads to the University Diploma in Education and the Academic A certificate, which qualifies the holder for teaching in the Junior and Senior High Schools of the Province. The course also carries credit for the M.A. and B.Ed. degrees. The enrolment in this course is now steadily increasing and should shortly exceed its pre-war level.

Another important enterprise of the Department consists of offering to graduates and to undergraduates who have attended a Normal School, courses in Education which carry credit for the B.A., the B.Ed., the M.A., and the Academic A certificate. Although the majority of these are offered in the Summer Session, some are given in the regular session also, and the number of these must be considerably increased in the near future because of increasing enrolments. Classes for teachers on the Lower Mainland enrolled about 60 students in 1945-46.

During the year under review, a number of staff changes took place. Dr. G. M. Weir resigned to assume the post of Minister of Education for the Province of British Columbia. Dr. Weir became first Head of the Department upon its establishment in 1924; and, except for leaves of absence, served until 1945. Dr. F. T. Tyler, late Director of Personnel Selection for the Royal Canadian Navy, returned as from January, 1946. Dr. M. A. Cameron, who had been on leave for an inquiry into school finance, returned as from September 1, 1945. He had been Acting-Head of the Department for some time, and on Dr. Weir's departure, was promoted to Head. Dr. K. F. Argue, formerly of the University of Alberta, joined the staff on July 1, 1946.

The staff is represented on the Provincial Department of Education's Central Curriculum Committee, its accrediting committee, its certification committees, and its committee on Tests and Measurements.

## DEPARTMENT OF ENGLISH

During the course of the regular session, the Department handled 36 sections of First-year students; during the spring session 8 sections; during the summer session 10 sections. In the first of these terms, the number of students in each section was, as usual, absurdly large, running up in a good many cases well toward 70, or even over. The two shorter sessions were more fortunate, since instructors were available in sufficient number to reduce the classes to manageable size. I cannot speak too highly of the support accorded me by every single member of my department, senior and junior, in carrying the heavy load imposed on their shoulders by Freshman instruction. From the 54 sections and the 1500 students involved, only two or three serious complaints were registered. Without implying the slightest derogation of any other instructor, I wish to record my especial gratitude to five young and able graduates of our own who were asked to do far more than their duty demanded, and cheerfully did it: R. P. apRoberts, Holger Nygard, Margaret Nygard, W. E. Knotts, and Eric Nicol.

The situation in the Faculty of Applied Science was far from satisfactory. Two very competent men, Associate Professors Morrison and Hume, were overwhelmed, in English 3 and 4, by some 800 students. No doubt, the utter impossibility of coping with such a crowd resulted in Mr. Hume's withdrawal from the staff—a loss which my department could ill afford to sustain.

Work in English with Second-year students in Arts and Science was carried on as usual, in spite of the huge enrolment; and I believe the results were as satisfactory as could be expected, if one considers how very short was the supply of texts. Of courses in the third and fourth years there is nothing special to report—except that the enrolments were heavy.

I may be allowed to anticipate next year's report in expressing satisfaction at the coming of eight instructors who have been newly appointed or elevated to senior faculty rank, and of junior instructors sufficient in number to reduce considerably the burden of the earlier years. It is my own eager hope that First-year sections will be brought down to not more than 35 students, and that they will not again be allowed to rise above that number. I have always believed, and still believe, that

nothing which the University does is more important than instruction given in the first and second years of the curriculum; and, unhappily, this instruction has been and is the most inadequate. At one point, I am glad to say, we are seeing light ahead: there is excellent prospect that, from now on, students in Applied Science will be taught as well as herded together. One other prospect, however, is disturbing; how to provide the instruction in English for the second and third years in Commerce which has been outlined in the Calendar. Professor Morrow kindly shifted his proposed course so as to enable my department to carry on at all in the abnormal conditions of this present year. But the arrangement is only a postponement of the difficulty.

It would be graceless not to say a word about the work of the returned men in this department. Everything, it would seem, has occurred that might be expected to make their studies intolerable: huge classes, uncomfortable rooms, maddening shortage of texts, etc., etc. In spite of it all they have been incredibly good-natured, and in general the work they have done is on a level with their patience.

## DEPARTMENT OF FRENCH

NOTE:—The Senate and Board of Governors approved the establishment of separate departments of French, German and Spanish, February 25, 1946.

The hopes held out last year of closer contact with France were justified by the number of distinguished scholars who in 1945-46 came from that country to visit the University, and of our own graduates who proceeded to graduate work at the Sorbonne with the help of scholarships provided by the generosity of the French Government. The visit in November of M. Georges Duhamel, Secretary of the French Academy, deserves special mention and is remembered with the deepest of pleasure. Three of our graduates, Capt. Lloyd Hobden, Lieut. Lester J. Pronger, and Lieut. James A. Hood, were awarded French Government scholarships tenable for a year, and a fourth, Mr. Jack T. Rush, received a similar award for the summer vacation, thus giving the University a disproportionately large representation among the nine Canadian scholars actually at the Sorbonne during the year. The awards made to Messrs. Hood and Hobden have been renewed for a second year on the recommendation of the professors directing their studies.

A feature of the year was the high quality of the work done by the large and enthusiastic group of graduates in attendance on this campus. Of these, several returned soldiers helped materially in meeting the year's unprecedented teaching problems. Words of praise are also due to the regular teaching staff for the willingness and good humour with which they faced what at times seemed an unending task. The teaching effort called for was such as to preclude in most cases the possibility of working at studies for publication, and it is painfully evident that intellectually we are living on our capital.

### GRADUATES

Mr. Alfred T. Carter, B.A. (1938), M.A. (McGill), Assistant Professor of French at the University of Saskatchewan, is now a regular contributor to the *Toronto Quarterly*.

Mr. Lester J. Pronger's paper on *Stendhal* was favourably reviewed by Henri Martineau, the leading authority on the subject, in *Le Divan*, December 1945, p. 215-216.

Mr. W. T. E. Kennett, B.A. (1932), Ph.D. (Princeton), was promoted to Associate Professor of French at Victoria College, Toronto.

Miss Mary Lipsett, B.A. (1942), was appointed Instructor in French and German at St. John's College, Winnipeg.

Miss Phyllis Cowan, B.A. (1940), was appointed to the Radio Division of the University of Alberta, as organizer of programmes.

Miss Joan Yvonne Dangelzer, B.A. (1935), D.Lett. (Paris), who broadcasts under the name of Joan Darcy, was Producer of Talks with CBC (at Montreal).

## DEPARTMENT OF GEOLOGY AND GEOGRAPHY

This department shared in the phenomenal growth in attendance at the University from the influx of discharged veterans. The increase was most notable in the junior classes. Geology I jumped from 135 to 210 and Geography I from 80 to 109. The senior classes increased more normally but the Post Graduate attendance increased from 2 to 12. One man was granted the M.A.Sc. in Geological Engineering. The other students were returned men who are taking two years to complete the work for the Master's degree. These men did good work and accepted summer employment where they became an immediate asset to the mineral industry.

There has never been a more urgent demand for graduates in Geology. Oil companies operating in Alberta and Saskatchewan; mining companies of Canada, the United States and South Africa; the Geological Survey of Canada; the Department of Mines, Victoria; all applied for men. All the Post Graduates, and Graduates obtained good positions, and many lower classmen were usefully employed during the summer months. The result has been that much experience has been gained and the younger men have been aided in selecting their professions.

It is with deep regret that the department parts with the services of Dr. C. O. Swanson to the Consolidated Mining and Smelting Co. His fine scholarship and wide teaching and administrative ability make him an asset to any institution of learning or research. He continued part time employment with the C. M. and S. Company until August 31st, when his term of appointment with the University ended.

Dr. H. C. Gunning acted as Consultant for the Greater Vancouver Water Board in the location of their proposed dam on the Capilano river, and for the International Fisheries Commission on the construction of the fish ladders at Hell's Gate on the Fraser river. His investigations on rock alteration and oxidized minerals for the International Mining Corporation has resulted in an extensive development at a new Oxidized Lead and Zinc property at Ymir, B. C. Since the spring of 1946, he has acted as Consulting Geologist for the New Jersey Zinc Company, guiding their search for base and precious metal ores in Western Canada.

The direction of post-graduate work has been largely carried out by Dr. Gunning, who is chairman of the Committee on Graduate studies for the Faculty of Applied Science. He also taught Geology and mineral deposits at the evening school of the B. C. Chamber of Mines.

Dr. H. V. Warren has continued the investigations of the Tellurides of British Columbia. Their association with gold deposits is well known. Of the 16 tellurides reported for the province, Dr. Warren has identified 12 and R. M. Thompson (one of our recent graduates and now an instructor at the University of Toronto) identified the other four. Dr. Warren has done all the mineralogical work connected with the discovery of gold at Taseko Lake.

Dr. Warren has also directed an investigation of the mineral content of plants growing over mineral deposits as compared with the same species growing over country rock. Mr. C. H. Howatson has now made investigations at the Sullivan Mine, the Britannia Mine at Howe Sound, and at the Marble Bay mine, Texada Island.

In addition to his teaching load in this department, Dr. Warren gave a series of lectures in Commerce 5 and taught Mineralogy at the evening, courses provided for Prospectors by the B. C. Chamber of Mines.

In April, Dr. Warren travelled to England. There he arranged for the exchange of mineral collections with the leading Universities. He met with favourable consideration of an exchange of students and staff with the Royal School of Mines, Cambridge and Oxford Universities. On his return, Dr. Warren attended the annual meeting of the Royal Society in Toronto and presented a paper. He also attended the meeting of the inter-University conferences.

Dr. V. J. Okulitch has been mainly responsible for the courses in Geography, and taught Geography I. in the Summer School. He also read a paper at the annual meeting of the Royal Society in Toronto.

In the late summer, Dr. Okulitch, accompanied by Mr. T. R. Weir made a trip around the Big Bend of the Columbia and collected Cambrian fossils in the Purcell Mountains near Golden, on a grant from the Geological Society of America.

Mr. T. R. Weir was granted his Masters degree in Geography by Syracuse University in the autumn of 1945, his thesis being a Geographical Study of New Westminster, B. C. In addition to his regular courses in Geography, he taught Geography II, in the Summer School. During his trip with Dr. Okulitch he made a Geographical reconnaissance along the Columbia river.

Dr. M. Y. Williams attended the annual meeting of the Geological Society of America held at Pittsburg, December 26-28, 1945, where he was elected second Vice-President (there are four in all) for the year 1945-1946. He also attended the spring meeting of the executive of the Society held in New York, April 27th, 1946. He gave a paper at the Royal Society of Canada held in Toronto, May 21-23, and attended the Inter-University Conference held in Toronto, May 27-29. From June 22-27, he attended the Hazen Conference held at Maple Bay. He spent much of the summer in Vancouver preparing for the autumn rush of students.

## DEPARTMENT OF GERMAN

In the Fall of 1945, large classes in the first two years were anticipated and provision made for their instruction by the appointment of two new Lecturers, but the registration was even heavier than planned for and still further sections had to be formed. Even with fifteen sections in the Beginners' class, the enrolment in several of these was over sixty—far too large for effective teaching.

There was not much change in the size or the work of the more advanced classes.

One of our graduates, Miss Phyllis Baxendale, B.A., 1937, was appointed Instructor in German at Victoria College. Miss Baxendale, after some years of war work in Ottawa, attended the Summer School of Middlebury College, where she won high distinction.

Miss Mary Lipsett, B.A., 1943, after a year's graduate work at McGill, was appointed Instructor in German at United College, Winnipeg.

Dr. C. E. Borden again spent the summer months at the University of California in further work on his study of Lessing.

Our staff took care of the instruction in German in the special Winter and Spring Sessions for Ex-Service men and women and in the Summer School.

## DEPARTMENT OF HISTORY

This session the Department of History attempted to deal with the ever-increasing number of students, especially the returned service men and women. The services of Mr. Robert J. Boroughs, M.A., were obtained for the Special Winter and Spring Sessions, and Mr. John P. Heisler, M.A., also taught in the Special Spring Session.

Professor F. H. Soward continued on leave with the Department of External Affairs, Ottawa, in charge of the Latin-American Section. He has now, most fortunately, returned to the Department of History and has, in addition, been appointed Director of International Studies at the University. In May, he was elected Vice-President of the Canadian Historical Association at its annual meeting in Toronto. Professor Soward has been asked to prepare Volume IV, Canada and World Affairs, 1944-1946, for the Canadian Institute of International Affairs. He is also a member of the National Research Committee of the Canadian Institute of International Affairs, and adviser on the Canadian Section of the Political Handbook of the World.

Professor A. C. Cooke attended the Fourth Canadian Hazen Conference at Maple Bay in June, 1946. He also, again, took charge of the examination work under the High Schools and University Matriculation Board at Victoria in the summer of 1946.

Dr. Margaret Ormsby has been elected editor of the publications of the Okanagan Historical Society, succeeding the late Leonard Norris, Esquire, of Vernon, British Columbia. Dr. Ormsby's work in the field of Okanagan History is well known.

Dr. George G. F. Stanley has been appointed Professor of Canadian History, but is now on leave in Ottawa completing his work as second-in-command of the Historical Section of the General Staff, Canadian Army.

Mr. T. J. Oleson, M.A., lecturer in History for the past two sessions, has accepted a similar position with United College in the University of Manitoba.

Dr. W. N. Sage has been elected a Vice-President of the Champlain Society. He is also serving on the Advisory Boards of the Canadian Historical Review and of the British Columbia Historical Quarterly. In May, he attended the annual meeting of the Historic Sites and Monuments Board of Canada at Ottawa, and in June, on behalf of the Board, assisted at the unveiling of a monument on the International Boundary at Blaine, Washington, to celebrate the hundredth anniversary of the signing of the Oregon Treaty of 1846, which delineated the boundary west of the Rocky Mountains. He presented a paper on the Oregon Treaty to Section II. of the Royal Society of Canada at Toronto. While in Toronto, he also attended the session of the Social Science Research Council, the Canadian Historical Association and the Canadian Institute of International Affairs. He was also one of the University delegates at the National Conference of Canadian Universities at Toronto.

Mr. Robert T. McKenzie, a former assistant in the Department of History, has been appointed Assistant Director of Adult Education for Canada. His place in the Department of Extension has been taken by Mr. Robert J. Boroughs, M.A., Lecturer in History in the Special Winter and Spring Sessions, 1946.

It is a matter of great gratification that, as already mentioned, a new appointment, that of Professor Stanley, has been made in Canadian History. He will aid greatly in the direction of graduate work and the furtherance of research. It is hoped that similar provision may later be made for the fields of the Far East and Latin America.

## DEPARTMENT OF HOME ECONOMICS

The year 1945-1946 has been a memorable one. In this period, ten new courses in Home Economics were offered which completed the programme planned for the four year course; the Canadian Dietetic Association granted approval of the foods and nutrition major of the course, thus enabling our graduates to enter post-graduate training courses in commercial and hospital dietetics; and in May, 1946, for the first time, the degree of Bachelor of Home Economics was conferred on fifteen members of the graduating class.

New courses offered by the Department included Textiles, Advanced Clothing, Interior Decoration, Advanced Foods, Diet Therapy, Quantity Cookery, Institution Administration, Institution Buying, Home Management, and Child Development and Family Relations.

Miss Mary Holder, appointed to the faculty in the Fall of 1945, has, in addition to her duties in the Department, organized and administered the food service of Acadia Camp which, throughout the year, served three meals a day to over 200 students. It is the hope of this Department that other food service units on the campus will be administered by trained dietitians under a similar arrangement to that followed at Acadia Camp. The vast majority of other universities in Canada and the United States have found it more satisfactory to operate food services under trained dietitians responsible to the University administration. Very often the Food Service Director is also a teaching member of the Department of Home Economics.

It may be interesting to record the positions now held by the fifteen members of the first graduating class in Home Economics. They are as follows:

- 4—post-graduate course in hospital dietetics.
- 3—post-graduate course in commercial dietetics.
- 3—teaching Home Economics in British Columbia.
- 1—enrolled in the teacher training course.
- 1—enrolled in business course.
- 2—employed as Home Economists with business firms in Vancouver.
- 1—married.

During the year all members of the Department led an active professional life outside of campus activities. Radio broadcasts, discussion groups, addresses, and conventions were some of the activities which claimed their attention. Four members of the Department held executive posts with the local Home Economics and Dietetic Associations. Miss Lefebvre was asked to become a Director of the Canadian Dietetic Association. Miss Black became the chairman of the education committee of the Canadian Home Economics Association.

Previous to the summer of 1946, the Department has depended upon the generosity of the Vancouver School Board for certain laboratory facilities. With a total enrolment of 160 during the session 1945-46, it has taxed the ingenuity of all concerned to arrange student programmes. Fortunately we were able in the summer of 1946 to arrange for temporary laboratories on the campus until a permanent building is erected.

## DEPARTMENT OF MATHEMATICS

The large enrolment, not only in the Regular Session, but in the Winter, Spring and Summer Sessions as well, made heavy demands on the Department. Fortunately the Department was able to obtain the expert services of Mr. Allen Bowles and Miss Cora Brehaut, who had recently retired after many years of teaching in Vancouver High Schools, of Mr. Frederick Field, who had served with the navy, and of several graduates with teaching experience.

In October, high school teachers of Mathematics in the lower Fraser Valley and members of the Department were the guests of Professor W. H. Gage at a dinner held in the Brock Building. Approximately fifty teachers attended. Following the dinner an informal discussion was held on topics related to problems of teaching and curriculum.

In November, Dr. F. S. Nowlan, as Governor representing Region 13, attended the yearly meeting of the Mathematical Association of America in Chicago. Dr. Nowlan's publications are listed elsewhere.

During 1945-46, Dr. R. D. James continued as a member of the Council of the American Mathematical Society. In April, he attended the Berkeley Meeting of the Society, and in May, the Toronto Meeting of the Royal Society of Canada, at each of which he presented a joint paper by himself and Professor W. H. Gage entitled "A Generalized Integral". This paper will be published in the Transactions of the Royal Society of Canada, Section III.

Dr. S. A. Jennings attended the Summer Meeting and Colloquium of the American Mathematical Society held in August, 1946, at Ithaca, N.Y., and presented a paper entitled "The Group-ring of a Class of Infinite Nilpotent Groups". Dr. Jennings was invited to attend the meeting of the Council held at that time.

Throughout the year, Dr. D. C. Murdoch, Dr. R. J. James and Dr. S. A. Jennings, reviewed many papers for "Mathematical Reviews". In the latter part of the year, Professor W. H. Gage also contributed several reviews.

In the first term, during the absence of Dean D. Buchanan, Professor Gage acted as Head of the Department. Dr. James took charge of assistants and Dr. Murdoch acted as Secretary. Continuing in this capacity, Dr. Murdoch has undertaken to supervise all matters relating to library requirements for the Department.

Throughout the year, members of the Department were active on many committees. Dr. James served as Secretary of the Committee on Graduate Studies and Dr. Jennings as Chairman of the Faculty Committee on Student Affairs and Secretary of the Arts Curriculum Revision Committee. Professor Gage served as Chairman of the Scholarship Committee, the Newcomers' Organization Committee, the Committee on Time-Table and Registration, and the Arts Curriculum Revision Committee. He was also a member of the High School and University Matriculation Board of Examiners, and Director of both the Special Winter and Spring Sessions.

## PHILOSOPHY AND PSYCHOLOGY

During the year under review the usual difficulties resulting from greatly enlarged classes were encountered. In meeting these difficulties care was taken to maintain a high standard of instruction and to provide the largest possible range of courses in order to distribute the student load. This not only added to the teaching and administrative duties of the staff but in addition greatly increased the amount of time set aside for interviews with individual students. As a result the time which members of the staff were able to devote to research and publication was markedly curtailed.

As a result of contacts established during the war, several members of the department continued to give voluntary assistance with the work of the Armed Forces, the Civil Service Commission, and several departments of the Federal Government. In cooperation with the University Veterans' Bureau the department provided assistance with the psychological testing and counselling of veteran students. Every effort was made to meet the public demand for speakers, and members of the department participated in several conferences during the year and gave a number of public addresses and radio talks.

Additional accommodation was acquired by the University in order to provide increased facilities for the Psychological Laboratory. This will enable the department to extend instruction in Experimental Psychology and will aid in promoting research projects by members of the staff and by graduate students. Through several contacts established in Vancouver additional opportunities were afforded for advanced students to obtain wider experience in the field of Applied Psychology.

Dr. J. E. Morsh continued on leave of absence as Director of Research of the Operational Research Detachment at the Canadian Army Signals training center.

Professor E. S. W. Belyea was appointed to the Committee on Certification of the Canadian Psychological Association.

Professor S. N. F. Chant was appointed by order in Council to the Advisory Committee on University Training for Veterans. He was elected Chairman of the newly formed Association of Veteran Counsellors in Canadian Universities and President-elect of the Canadian Psychological Association.

## DEPARTMENT OF PHYSICS

Probably the most important single event to be noted in the year under review was the turning of the first sod for the new Physics Building on March 7, 1946. Chancellor E. W. Hamber officiated and among those who participated in the ceremony was Dean C. J. MacKenzie, president of the National Research Council of Canada. When this \$740,000.00 structure is completed it will provide much needed accommodation for the teaching and research activities of the Department.

For this session, enrolment for courses in the Department set a new high record of 3600. This number of students imposed a very heavy burden of teaching upon the members of the staff and resulted in serious overcrowding in the lecture rooms and laboratories, and consequently some falling off in efficiency. Fortunately, the situation was somewhat relieved by the assignment of four army huts as elementary laboratories and lecture rooms.

During the year, Dr. G. M. Volkoff continued on leave of absence with the National Research Council. As head of the theoretical division of Canada's Nuclear Physics group, he was largely responsible for the design of the Chalk River Atomic Energy Pile.

Dr. H. D. Smith continued his researches upon the Physical properties of synthetic rubber. This work was carried on under a grant from the Polymer Corporation at Sarnia. During the summer months, Dr. Smith was attached to the U. S. Naval Research Laboratory at Baltimore and took part in the testing and development of long range jet-propelled rockets.

Dr. A. M. Crooker continued his investigations in spectroscopy and on the scattering of light.

Dr. K. C. Mann spent the summer months at the Chalk River laboratories of the National Research Council. He took part in a coordinated programme of Beta-Ray Spectroscopy. During the year, Dr. Mann was given a research appropriation of \$5,400.00 from the National Research Council for work in Nuclear Physics.

Mr. Keith Brown also spent the summer months at the Chalk River laboratories.

Dr. A. E. Hennings continued to represent the Department on the University Entrance and Senior Matriculation Examination Board. He has also taken a special interest in the plans for the new building.

Dr. G. M. Shrum was reappointed as a member of the National Research Council of Canada for a period of three years. He also served as a member of the Board of Management on the B. C. Research Council.

## DEPARTMENT OF SOCIAL WORK

The natural expansion of social work education to meet the extreme shortages of personnel in the field brought many changes in the Department during this year.

### GROUP WORK

Earlier in the year the Junior League of Vancouver offered a grant of \$9,000.00 for the purpose of establishing the teaching of group work and community organization. This was accepted by the Board of Governors and the services of a specialist in that field, Miss Elizabeth Thomas, were secured to set up and develop a training program for recreation and group leaders. New courses in group work, community organization and advanced methods were introduced. Not only was training made possible for those students primarily interested in group work but the curriculum of all social work students was enriched by the inclusion of required courses in group work methods and the organization of community activities. The rapidly developing community centre movement seems to point to an increasing demand for recreation leaders, and the Junior League in sponsoring the training of such personnel has been farsighted in welfare planning. In January, 1946, the department, in cooperation with the Extension Department sponsored a Community Centres Institute attended by over 100 community leaders from all over the province. This was followed by another conference in June by the same group at which time the B. C. Community Centres Association was organized. During the summer the department assisted the local chapter of the American Association of Group Workers in sponsoring a two week institute in program skills at which music, art, drama, handicrafts and various activities were taught.

Much work remains to be done in helping agencies develop field work training opportunities. With the expected increase in enrollment in group work for the fall it has been necessary to plan for subsidizing supervision in some group work agency or agencies for the next year.

### DEGREES IN SOCIAL WORK

In December, 1945, the approval of Faculty and Senate was sought for the establishment of the Degree of Master of Social Work to be given for a two year program of Graduate professional study. The professional degrees of Bachelor of Social Work and Master of Social Work were established. Thirty-nine B.S.W. degrees were awarded in May, 1946. The first M.S.W. degrees will be awarded in May, 1947. The University of British Columbia is the first Canadian University to grant professional social work degrees, although the National Committee of Canadian Schools of Social Work has gone on record favoring the establishment of such degrees in all universities offering social work training.

### MEDICAL SOCIAL WORK

It is hoped that medical social work will be one of the specialized fields in which this department can take a position of leadership. An experimental placement of students in the Crippled Chil-

dren's Hospital was tried this year and two advanced students were placed in Royal Alexandra Hospital in Edmonton for the summer. A number of changes in existing hospital social service departments will have to be effected before adequate training facilities for medical social work are available in Vancouver.

#### SPECIAL FIELD WORK

An unusual opportunity is possible for certain selected students in child welfare. A few internships at Ryther Child Center, Seattle, have been made available for our students. These awards come through a special grant of the Marshall Field Foundation which gives psychiatric treatment to emotionally disturbed children.

During the summer an advanced student was placed in Shaughnessy Military Hospital to work directly with the psychiatrists. It is expected that the Department of Veterans' Affairs will be providing further opportunities for social work field work training in the future.

#### DOMINION GOVERNMENT GRANT

In May, 1946, the Head of the Department was called to Ottawa by the Deputy Minister of Welfare along with other directors of social work education to form a Technical Advisory Committee on social work training for the Department of National Health and Welfare. At that time it was announced that \$100,000.00 would be made available for the schools of social work. Our share amounted to \$8,600.00 for scholarships and bursaries and \$7,700.00 for administrative expansion. The scholarships and bursaries were to be awarded by the Department of National Health and Welfare on the recommendation of the head of the department of social work. The administrative funds were designed primarily for increased field work supervision costs. The first quarter of the grant was made available and plans got under way in August to care for an apparently huge increase in enrolment for the coming year.

#### CANADIAN CONFERENCE ON SOCIAL WORK

In June, the Head of the Department attended the Canadian Conference on Social Work in Halifax where she presented a paper on agency-school relationships in field work training. Miss Smith was also a member of the executive committee of the conference and the chairman of the Nominating Committee. Meeting at the same time was the National Committee of Canadian Schools of Social Work.

Members of the department have given numbers of talks, speeches, lectures outside the usual order of business. Miss Thomas published a report on the Community Centres Institute in the April 15 number of *Welfare*, publication of Canadian Welfare Council.

#### THE FUTURE

The establishment of the Master's degree in social work calls for the development of research in the social work field. More than elementary methods will have to be taught and some thought should be given to making available certain Canadian materials gathered through thesis research. Up to the present time, very little has been published in the Canadian field and even the history of Canadian social welfare has been grossly neglected.

A second gap yet to be filled is the introduction of a variety of short courses and institutes of an advanced nature designed for employed workers in social agencies to improve the level of skills in practice and to give further opportunity for the development of field work supervisors.

## DEPARTMENT OF SPANISH

Courses offered during the academic year 1945-1946 were Beginners' Spanish, Spanish I, and Spanish II, with this offering students are now able to satisfy the language requirement in the Faculty of Arts and Science. Beginners' Spanish, besides being offered in the Regular Session, was also offered in the Special Winter Session, the Special Spring Session, and the Summer School. Students in all courses in Spanish numbered about 400.

As an experiment, the course in Practical Spanish offered under the auspices of the Department of University Extension was given at the University rather than at the Normal School, as it was the previous year. The enrolment was half that of the year before, and consequently did not appear to justify repetition of the experiment.

Under the able guidance of Dr. Jack Parker, a small but active Spanish Club was started, which met monthly during the Session at members' houses.

Dr. Brooke was appointed Visiting Professor from Canada at the Summer School of the University of Havana for the summer of 1946, where he lectured on "Canada—Its Political, Economic, and Social Development".

## DEPARTMENT OF ZOOLOGY

The Department of Zoology has continued to have an increasing number of students in both the undergraduate and graduate years and has been able to meet the situation fairly satisfactorily by careful organization, by an additional staff appointment, and with the assistance of graduate students. The greatest difficulty was experienced in space requirements though some relief was provided by the use of an army hut.

The course in General Zoology was given in the Winter and Spring Sessions to returned men and in Comparative Anatomy during the Summer Session. For the latter course, the University was fortunate in obtaining the services of Dr. E. Home Craigie, of the University of Toronto.

The staff is unanimous in expressing appreciation of the enthusiasm, earnestness and maturity of thought of the great majority of the men from the armed forces.

One student continued with research work in fulfilment of requirements for the degree of Doctor of Philosophy through an arrangement with McGill University. Eleven graduate students were registered for the Master's degree and one continued with the preparation of a thesis although not in attendance. Two students graduated with Honours and presented theses.

### OUTSIDE ACTIVITIES

During the year members of the staff gave public addresses as follows: Dr. Clemens, 2; Professor Spencer, 8; Dr. Cowan, 7; Dr. Hoar, 1.

Dr. Clemens, as the representative of the University on the Fisheries Research Board, attended the annual meeting of the Board in January and a meeting of the Executive Committee in May, both in Ottawa. He also attended several sub-Executive Committee meetings in Vancouver. He has continued as a member of the Marine Plant Committee and the Fisheries Technical Committee of the British Columbia Research Council. He has also acted in an advisory capacity to the International Salmon Commission and the Provincial Game Commission. During the summer of 1946, he was Chairman of a Royal Commission of Fisheries in the Province of Saskatchewan.

Professor Spencer continued to deal with innumerable enquiries concerning insect pests. Throughout the period there was the usual flow of enquiries from citizens in British Columbia, but chiefly from Vancouver and the Lower Fraser Valley, concerning insects, mostly those of the household. These enquiries show the spread throughout the city of the Varied Carpet beetle which attacks clothing and furs and also wheat kernels and whole wheat flour; the result is assuming the proportions of a minor plague in dwellings. A mimeographed outline of its life history and control is being prepared for enquirers.

Dr. Cowan was elected a Fellow of the Royal Society of Canada and also Regional Representative for the newly established Canada and Alaska Division of the American Wildlife Society. In late March, he attended the annual convention of the Alberta Fish and Game Association at Lethbridge, took part in their technical sessions and gave the banquet address.

Dr. Hoar organized a series of special lectures for fishermen through the co-operation of the Department of University Extension and the Fisheries Experimental Station.

### FIELD WORK

Dr. Clemens directed a field party consisting of Dr. D. C. G. MacKay and Mr. Harold Nordan in a study of conditions in Paul Lake, B. C., preliminary to an experimental introduction of an artificial fertilizer. This study was carried out during July and August under a co-operative arrangement with the Provincial Game Commission. In late summer he made a brief trip through the Okanagan area in connection with certain fish cultural problems of the Provincial Game Commission.

Professor Spencer continued his field studies of the lesser migratory locust in the Kamloops area, under the auspices of the Dominion Division of Entomology.

Dr. Cowan spent three months during the summer of 1946 in Jasper, Banff, Yoho and Kootenay National Parks, under the auspices of the National Parks Bureau, studying the predatory animals, the large game and the ecology of the parks' ranges. Mr. E. W. Pfeiffer, a graduate student, was

his assistant in the Jasper Park program. He also directed four field studies. A long-contemplated study of the natural history of the Queen Charlotte Islands was instituted. Mr. Charles Guiguet spent from May to September on the Islands and was joined by Dr. Cowan for the last month. Results obtained were most gratifying and it is hoped that it will be possible to continue this study through the forthcoming summer. As part of a co-operative activity of the Department and the Provincial Game Commission, three field projects were undertaken under Dr. Cowan's direction. Mr. David Munro in May began a study of the waterfowl of Burnaby Lake. Mr. James Hatter instituted an investigation of the moose in British Columbia. He plans to be in the field until late November and will continue the laboratory phases of the work at Washington State College as his Doctoral research. Miss Iola Musfelt continued her studies of muskrats in the Province.

Dr. Hoar was associated with the Pacific Biological Station during part of the summer. He also made an extensive trip along the coast to observe various fishing activities and travelled over the Skeena River watershed to become acquainted with the field investigations being carried out by the Fisheries Research Board.

## RESEARCH

Dr. Clemens continued his study of the materials and data obtained during the survey of Teslin Lake in 1944. The usual annual analyses of the data on the salmon runs to Rivers Inlet and the Skeena and Nass rivers were carried out for the Provincial Fisheries Department.

Professor Spencer, from June 4th to September 4th, continued working for the Dominion Division of Entomology, winding up research on the parasites of the lesser migratory locust which this year fell to almost negligible proportions in most of its territory, owing to the attacks of its natural enemies. This research is being written up this winter in conjunction with Mr. E. R. Buckell of the Federal Laboratory at Kamloops and will constitute the first work in field studies of its kind in Canada. The majority of the two-winged parasites in question, the Sarcophagidae, will come to the University collections; the rest go to the National Collection at Ottawa. This summer, he initiated a new phase of attack against locust outbreaks in British Columbia, that of applying several kinds of commercial fertilizers on the cattle ranges, especially on the egg beds of our most widespread species, *Camnula pellucida*, with a view to so stimulating growth as to render the grass leaves too tough for newly-emerged hopper nymphs so that they will starve in the midst of plenty, and to provide the tall dense growth which afford optimum conditions for the development of *Empusa fungus*, a highly effective natural control of these insects. Of a number of fertilizers tried, he found that ammonium nitrate at the basic rate of 400 lbs. per acre best answers these requirements and produces an unparalleled growth of all range vegetation. The grass thus stimulated is more acceptable to horses and cattle than anything surrounding it. If this project succeeds, it will mean that cattle growers need only fertilize the egg beds of *Camnula* which are very clearly delimited, instead of treating them with repeated sprays of oil emulsion and poisoned baits as is now the recognized procedure, and will have in addition better pasture on these areas than they have ever had before. In addition, he tried out applications of DDT against grasshoppers on the ranges but found that this chemical, even as a three per cent dust mixture, kills every insect except grasshoppers and that its lethal effect lasts for two weeks at least. It apparently requires applications of ten to fifteen per cent DDT to kill hoppers and at this rate, the cost is too great to be considered.

Dr. Cowan directed his research during the year primarily towards completing the review of the Avifauna of British Columbia that is being undertaken in collaboration with Mr. J. A. Munro. The manuscript of this study is now complete except for certain maps and it is hoped that the current year will see publication. Preliminary work on a Handbook of the Mammals of British Columbia involved studies of the systematics of certain groups of the rodent genera *Ochotona* and *Eutamias*. Brief systematic papers on the results of these studies are in press. Much data in connection with the field investigations in the National Parks and on the Queen Charlotte Islands is being worked up.

Dr. Hoar carried out an extensive study of the statistics of the chum and pink salmon catches in British Columbia waters over the whole period of official record. A detailed report has been submitted to the Fisheries Research Board. He also carried out observations on the effects on fish life of DDT used in an area on the west coast of Vancouver Island for the control of forest insect pests.

## MUSEUM

During the year the vertebrate collection in the Museum of Zoology continued to expand. The mammal collection was augmented by 634 specimens and currently stands at 1846 catalogued specimens. The bird collection received but few additions during the year—however, there are extensive

uncatalogued series still to be studied and entered in the departmental catalogues. Thirty amphibians and reptiles were identified and catalogued.

A major accomplishment during the year was the organization of the reference catalogue of the mammal collection. This was completed through the assistance of Mr. James Hatter. Similar reference catalogues of the birds and amphibians and reptiles are urgently needed and it is hoped that some advance in this direction will be possible during 1947.

It is a pleasure to acknowledge a large amount of volunteer curatorial assistance through the year from Mr. J. Yarwood and Mr. Chas. Guiguet.

Professor Spencer continued to add to the insect collections, contributing eight Schmitt boxes of material, two of which consisted of bumble bees.

## CONCLUSION

The year under review showed the largest registration in the history of the University. The opening of the first post-war session found this University, as well as most other universities on the North American continent, with a dearth both of instructors and of places in which to give instruction. We were exceedingly fortunate in meeting the double demand for instructors and for buildings. Competent instructors were obtained by impressing into service certain of the faculty wives and other wives with academic qualifications, although submerged more or less recently in the domestic rather than in the scholastic field. Also the services were obtained of certain retired high school teachers and a few of our professors whose retirement was postponed for the emergency.

Places of instruction were provided by moving on to the campus, either in toto or in part, by truck and by scow, abandoned army huts from near and far and fitting them up for lecture rooms, laboratories, reading rooms, etc. A splendid job was done, and is still being done in this respect. In fact the huts, with their commodious halls (the Great Outdoors), are proving so satisfactory that they may unconsciously be for another quarter of a century some of the "Buildings for the Future" of which the inhabitants of the Fairview Huts sang and for which they worked a quarter of a century ago.

Scarcity of text-books and reference books, and lack of laboratory equipment impeded the work of certain classes even after an instructor was obtained and a class room assigned. On the whole, however, the work of the session was carried out exceedingly well and my thanks are here recorded to staff and students alike for the cheerful and willing way in which all co-operated.

Attention is directed to the Special Winter Session (January to April) and the Special Spring Session (May and June) for ex-service personnel. These Special Sessions, together with the regular Summer Session, enabled a veteran to begin his work in January, in May or in July if he was unable to start in September. Thus very little time was lost between the time of discharge and the time to begin study. Further, the special sessions, particularly in the Spring and the Summer, enabled the veteran to make up for the time lost while he was in the services. From an academic point of view much may be said against the policy of crowding instruction into too short a period, but to a veteran who has already lost from two to six years out of his academic life and particularly to one with a wife and family, the urgency of obtaining a degree seems to be paramount. And at this point it would seem to be appropriate to record the high appreciation expressed by the staff for the excellent standard of work accomplished by the veterans.

At the time of writing this report, I should like to extend a welcome to our colleagues who have returned after leave of absence in various fields during the war and to the new members of the Faculty.

In conclusion, I wish to pay tribute to the staff who carried unusually heavy burdens with large classes and long hours and in particular to my Assistant, Mr. W. H. Gage, and to my Secretary, Miss Vera E. Bell, who carried on the work of my office during my enforced absence in the Fall of 1945.

My thanks are also due to the President for the way in which he met every request for more assistance and supplies expeditiously, amply and cheerfully.

Respectfully submitted,

DANIEL BUCHANAN,

*Dean, Faculty of Arts and Science.*

Report of

## The Dean of The Faculty of Applied Science

The increased enrolment in all classes laid a heavy additional burden on all members of the teaching and administrative staffs. This was especially true in the Department of Civil Engineering on whose staff falls the greater portion of instruction given to the first and second years in this Faculty. In addition to the increased teaching loads during the regular autumn and winter sessions, several members of the staff gave instruction in the special classes provided for veterans throughout the spring and summer months. The second year was so large that it was found impossible to provide sufficient equipment for the course in field surveying in the month of May. It is proposed to give some instruction in this subject to this group during the succeeding autumn and winter terms.

Nearly all the members of the staff gave freely of their time and advice in the preparation of plans for the first unit of the proposed permanent applied science building which it is hoped will be ready for occupancy in September, 1948. In the intervening period, the large number of army huts brought to the campus will provide some space for drafting rooms, laboratories, class rooms and offices. The Board of Governors has been generous in supplying additional instructors and equipment.

In the Department of Forestry important changes were made in the curriculum. The courses leading to double degrees in Forestry and Commerce, Forestry and Botany, and Forestry and Economics were discontinued, and a new course in general forestry leading to the degree of Bachelor of Science in Forestry (B.S.F.) was introduced. The course in Forest Engineering is continued without material change in content.

A real start was made on the development of the University Forest Reserve at Haney. Two miles of road from the Forest entrance to the proposed main camp site at Loon Lake were completed. The camp site was partly cleared and plans were made for the erection of some of the camp buildings. Field work can now be conducted effectively. Work authorized by the British Columbia Research Council in 1945 was continued, permanent sample plot measurements were made, and studies of re-stocking logged areas completed. Dr. Allen continued his work on the embryogeny and anatomy of Douglas fir. He completed a comprehensive study of embryogeny and the development of the apical meristems of shoot and root in *Pseudotsuga*. It is hoped that this work will provide a foundation for future investigations of the genetics of Douglas fir and for physiological studies of the factors which affect growth and reproduction in this important timber tree.

All members of the forestry staff were engaged on research and investigative work during the summer. Professors Liersch and Wright were engaged by the Powell River Company Limited to examine and report on the conditions of the Company's logged-off lands on the lower coast; Dr. Griffith continued his work with Mr. C. D. Schultz, Consulting Engineer; Dr. Allen was engaged in teaching during the summer session; and Professor Knapp was in charge of the road development in the University Research Forest.

Professor Liersch was elected to the Council of the Association of Professional Engineers of B.C., was chairman of the Vancouver Section of the Canadian Society of Forest Engineers, B. C. representative on the West Coast Forestry Procedures Committee, and vice-chairman for British Columbia on the Puget Sound section of the Society of American Foresters. Professor Knapp continued on the Council of the Association of Professional Engineers of B. C. as past president and as secretary of the Forestry Advisory Committee of the British Columbia Research Council. Dr. Griffith continued as secretary of the Vancouver Section of the Canadian Society of Forest Engineers and was their representative at the annual meeting held at Regina.

In the Department of Mechanical and Electrical Engineering the enrolment showed a heavy increase. In September, 1945, 58 students were registered for the fifth year and 71 students for the fourth year. Over 500 students were taking Mechanical Drawing in the second year. In addition, 12 graduate and honours students in Physics and Chemistry took certain courses in the Department.

During the year the curriculum for the senior years of Mechanical and Electrical Engineering was carefully considered and certain changes were made, which have received the approval of Senate. In common with all departments of the Faculty, the numbering of the years, following senior matriculation or first year Arts, has been changed to first, second, third, and fourth.

A full year course in Aeronautics has been included in the fourth year of Mechanical Engineering. This course is optional with the two courses, Power and Plant Design and Heating, and Heating, Ventilating, Air Conditioning and Refrigeration. Thus students interested in Aeronautics can obtain some knowledge of the subject before proceeding to other universities for special study in this field.

The demand for more work in Electronics has been met by a new course in this subject in the third year of Electrical Engineering. This will be followed in the fourth year by a course in Electrical Communication, somewhat more advanced than the one formerly given. There have been requests for a degree in Electronics, but the Department is in agreement with the present trends which do not favour narrow specialization in undergraduate work.

The completion of the new Electronics laboratory relieved the pressure on the Electrical laboratories and also provided space for classes in problem work. Equipment in all laboratories limits the number of students which can be accommodated at one time to not more than twenty-five. By dividing classes into two sections and by repeating most laboratory courses the work was carried on in a very satisfactory manner. With the larger classes expected in 1947 and to a greater extent in 1948, laboratory accommodation will become a serious problem. This situation may be relieved to some extent by the purchase of certain pieces of equipment which will be useful even when classes return to normal size.

Contacts with the profession and industry are considered important. Most members of the Department are active in various technical institutes and societies in the city. Three members are on the Board of Examiners for the Association of Professional Engineers of British Columbia. Four members were employed during the summer by engineering and architectural companies in the province. All these contacts give added experience and tend to increase an instructor's value as a teacher. The Department has also assisted industries in the solution of a number of their problems and in some design work.

To meet the requests of several graduate instructors, arrangements were made in the summer of 1946 to offer post-graduate courses in Mechanical and Electrical work. In a few cases these courses will lead to research work. Plans are being made to encourage more postgraduate work as soon as the undergraduate classes return to normal size.

I record, with deep regret, the death on August 1st, 1946, of Captain John F. Bell, O.B.E., R.N., a former member of the teaching staff in the Department of Mechanical and Electrical Engineering. At the outbreak of war in 1939, he was granted leave of absence so that he might return to the Royal Canadian Navy. After the close of the war, he returned to his old Department and served as Assistant in Mechanical Engineering during the session 1945-46. As instructor and friend he endeared himself to students and colleagues who mourn his passing.

This year marks a period of transition in the Department of Mining and Metallurgy, occasioned by the retirement of Professor J. M. Turnbull and Professor G. A. Gillies. Reference was made to Professor Turnbull's retirement in a previous report. Professor Gillies, who would have reached the age of retirement in 1946, was compelled by ill health to tender his resignation in December, 1945. For twenty-six years, as assistant professor, associate professor and professor of Metallurgy, and by his researches on flotation reagents, he made valuable contributions to the work of the University. The good wishes of his colleagues follow him in his retirement.

There were no important changes in policy in the Department of Mining and Metallurgy, though it should be mentioned that the addition of a fourth member of the staff, Dr. C. S. Samis, provided the opportunity to examine and revise the courses in Chemical Metallurgy. Also, the employment of a part-time assayer proved particularly valuable in conducting the laboratory courses in Chemical Metallurgy and Mineral Dressing.

The enrolment in Mining, Metallurgy and Geology was not large (35 in fourth and fifth years), but the large class (38) in Mechanical Engineering, and graduate students (10 taking one or more courses given by the Department) provided a total (83) higher than that of previous years.

Three members of the staff carried out activities in the field of public relations, comprising active participation on technical and professional committees, several public lectures, attendance at technical meetings, plant visits with classes, travel to out-of-town mines and plants, and consulting work.

The research work of the Department of Mining and Metallurgy was carried out in two different ways: by students and by collaboration with the B. C. Research Council. Three graduate veteran students commenced work on research projects in physical metallurgy, which were to require two years to complete. Unfortunately, each of the three students obtained permanent employment, and there is little prospect that any of them will return to the University to complete the work. The co-operative research project with the B. C. Research Council was carried out by Dr. C. S. Samis in the laboratories of the Department of Mining and Metallurgy. This extensive investigation was concerned with the treatment of a nickel silicate ore for the Freeport Sulphur Company. Dr. Samis' records and reports were turned over to the Research Council.

The facilities of the Department were used by the staff of the Research Council throughout the year for conducting their investigations in metallurgy and mineral dressing, as the Council had no

laboratories of its own until May, 1946. This arrangement did not prove very satisfactory, and, with the greatly increased undergraduate enrolment for the session 1946-47, it has been found necessary to discontinue the co-operative plan with the Research Council.

In the Department of Nursing and Health a still further increase in the enrolment of final year students was experienced, a total of 55 completing the course in Public Health Nursing and 11 the course in Teaching and Supervision. Of the former group, 17 were awarded the degree of B.A.Sc. and 38 the certificate; while in the latter group, 4 received the degree and 7 the certificate.

It is gratifying to record a still further increase in the number of nurses enrolling for the Teaching and Supervision course. The shortages in the nursing profession are nowhere more marked than in regard to the senior appointments in schools of nursing. Until larger numbers of well-qualified nurses favour assuming the responsibilities of such teaching and supervisory posts, it will be difficult to raise the standards of the nursing profession still further, or even to maintain them at the present level; while the problem of recruitment to the staffs of nursing departments in universities will also remain very acute. Great credit is due to Miss Mallory, who has carried a heavy lecturing and administrative load in connection with this course.

The 55 students who graduated in Public Health Nursing represent a very large contribution to the public health services of this and other provinces. This total represents three times the average graduating class of this department in pre-war years. The public need and demand is for yet more health units, with larger numbers of public health nurses. Difficulties of providing adequate field work prevent us from at present expanding this class still further. A more cogent reason is that the quality of applicants must be maintained. To date the department has not rejected the application of any candidate of sound academic background and good health.

Those agencies which had participated in the field work programme in previous years continued to manifest an excellent spirit of co-operation. However, the provision for satisfactory field work experience for students remains one of our biggest departmental problems, and inevitably becomes more acute with increasing size of classes. The major difficulty lies in the lack of personnel in the local health units who are trained and experienced enough to plan and assist with a good student programme. The junior staff in these health units is constantly changing, so that the senior members of such units have little time for attention to the teaching needs of the students we may send to them. Largely arising out of this dilemma is the growing conviction among the agencies that they are entitled to some financial return for the time and effort devoted to students. Some universities are already making at least a token payment for field work facilities. There would seem to be a sound principle involved in such payment for services, since this evades the difficulties of having to be critical of a service provided free.

Contacts with our degree course students enrolled at the Vancouver General Hospital have been almost nil during the year. This is greatly regretted, but has been unavoidable during our present staff shortages and high enrolment. The only feasible solution of this problem would be the appointment of an additional staff member, whose major responsibility would be the supervision of our students during their period of hospital training.

All members of the Department of Nursing and Health participated in the giving of extra-mural lectures to professional and lay groups. Miss Mallory held the office of Honorary Secretary of the Canadian Nurses Association until June, 1946, when she was elected Second Vice-President. She is also President of the Registered Nurses' Association of British Columbia. Miss Mallory also attended a meeting of the Provisional Council of University Schools and Departments of Nursing held in Toronto on July 1st, 1946. Miss Capell is Vice-president of the Greater Vancouver District, Registered Nurses' Association of British Columbia. She has also been Chairman of a Committee of Public Health Nurses which made a study of the adequacy of provincial legislation in Canada for the control of tuberculosis.

Towards the end of the year under review, plans were being completed for transfer of the Department of Nursing and Health to two army huts. This will alleviate the appalling problem of inadequate accommodation which the department has suffered from for the past several years.

During August, the organization and work of this department were reviewed by Dr. John B. Grant, member of the International Health Division of the Rockefeller Foundation, in the course of a survey relating to the provision of training facilities for public health and related personnel. The outline of departmental objectives and activities presented to him, which was compiled by Miss Mallory, was described by him as by far the best he had received from any nursing school or department in Canada.

Respectfully submitted,

J. N. FINLAYSON,

*Dean, Faculty of Applied Science.*

## Report of

# The Dean of The Faculty of Agriculture

As in previous years, this Report is compiled in the main from individual departmental reports. There are, however, several general statements pertaining to the Faculty as a whole which I would stress first of all.

Although we are extremely grateful for the additional laboratory space provided during the year as material and labour became available, the crying need of the Faculty of Agriculture is still accommodation. There are few purely lecture courses offered in this Faculty. The new laboratory space has eased conditions somewhat where the larger lower-year classes are concerned, but senior and graduate students are still working under a tremendous handicap.

One of the most outstanding features in the increased registration in the Faculty has been the number of ex-service men registered in the Occupational Course. Previously, this course normally had a registration of less than half-a-dozen; now the number is around fifty. The general increase in the lower-year courses is, of course, common to the whole University.

Before dealing with each Department separately, there are a few points which apply in general:

(a) A great deal of extension work outside the University and co-operative work within and outside the University has, as in other years, been carried on. This work consumes a great deal of time and effort on the part of nearly all members of the Faculty of Agriculture, but except in a few cases no special mention of it has been made in this Report.

(b) Service work conducted by telephone, correspondence, and visits to the University and at the farms of those seeking assistance is carried on by each Department. This work also makes tremendous inroads on the time of the staff.

(c) At present, the major portion of the time and energy of staff members is devoted to teaching and this, combined with additional demands made upon them, leaves little or no place for the individual and vital research problems in which these men are interested or for the publication of scientific papers.

(d) During part of the year full-time assistants were employed as instructors of ex-service personnel. These men worked very hard and rendered excellent service in the emergency. Their names are as follows:

Department of Agronomy—Mr. Stuart W. Turner (Crops); Mr. E. J. Fennell (Soils).

Department of Animal Husbandry—Mr. R. D. Twiss (Fall Term); Mr. C. W. Vrooman (Spring Term).

Department of Dairying—Miss Jean Campbell, B.A.

Department of Horticulture—Mr. John B. Teir; Miss Jean McMullan.

Department of Poultry Husbandry—Mr. Milton Narod, B.S.A., M.S.A.

Except as otherwise noted, these assistants had all obtained the degree of Bachelor of Science in Agriculture from this University.

## DEPARTMENT OF AGRICULTURAL ECONOMICS

For the first time in its history, the Department consisted of more than one man. Mr. E. D. Woodward, who did very acceptable work as halftime assistant for eight months in the Session 1945-46, has been appointed full-time instructor for the session 1946-47.

### PUBLICATIONS

Two bulletins were published:

"Some Factors that Influence Poultry Farm Incomes" by E. D. Woodward.

"An Income Analysis of a Sample Farming District with Particular Reference to the Importance of Self-Sufficiency" by Milton C. Taylor.

These were mimeographed and distributed to co-operators in the surveys and other interested parties. Mr. Woodward's publication is now in the hands of the King's Printer and will be re-issued by the Provincial Department of Agriculture.

## CO-OPERATIVE PROJECTS AND SURVEYS

Mr. W. J. Anderson of the Dominion Department of Agricultural Economics, working in co-operation with this Department, completed a study in Central British Columbia entitled: "A Study of Land Settlement in the Prince George-Smithers Area". This will become a Dominion Department of Agriculture publication.

The Provincial Department of Agriculture, the Vancouver Milk Distributors' Association, and the Victoria Pasteurized Milk Distributors' Association contributed \$5,000.00 with which to make a *Study of the Cost of Milk Production*. Records were obtained from about three hundred farms on the Coast during the summer and a report is in the course of preparation.

Safeway Stores Limited made a substantial gift of money with which to conduct a *Small Fruit Farm Survey*. Records have been secured from about eighty farms, and a report is in the course of preparation.

## DEPARTMENT OF AGRONOMY

No changes were made in courses during the year. Owing to lack of staff, the offering of three courses had to be held in abeyance. The course, Agronomy II, was offered during the Spring Session.

### RESEARCH

Such research as was carried out was by undergraduate and graduate students on long-term departmental projects. The following studies were furthered during the year:

Hydrolysis of Casein by Actinomycetes.

Boron Content of B. C. Soils.

The Organic Fraction of Central Interior Soils.

Alsike Clover with Special Reference to Some Experiments conducted in British Columbia.

Field Root Breeding.

The Utilization of a B. C. Fishery Waste as an Agricultural Fertilizer.

Work on the Neubauer studies had to be postponed this year because of the pressure of teaching duties.

### ALFALFA PROJECT

Arrangements were completed with Mr. Alfred Needoba in the Salmon River Valley, North Okanagan, for the growing and multiplication of the new alfalfa strain. Twenty acres were seeded at the beginning of May and inspections during the summer showed that an excellent stand had been obtained.

Progress was continued with what has been called the "second selection" material, in which thirteen strains of exceptional promise have been isolated. These are now being multiplied for further testing purposes. Under a re-organization of material carried out this Spring, this project is enjoying the active support and interest of the Dominion Experimental Farm at Agassiz. The dual check and consequent possibility of more rapid multiplication will mean that this work will proceed much more quickly than has been possible heretofore.

During the summer of 1946, Dr. G. G. Moe visited the United States to see the work of alfalfa breeders there. It is to be noted that the alfalfa material at the University is particularly suited to the application of *heterosis*, which principle the most advanced breeding workers in the United States are endeavouring to apply to alfalfa varieties and strains. A great deal of interest was shown there in our material, which has been advanced from the original cross made by Dr. P. A. Boving, Professor Emeritus, in 1917, to a point where a new variety is almost ready for introduction.

### CO-OPERATIVE SEED PROJECT

Under the co-operative seed project carried on with the Provincial Department of Agriculture, the following quantities of seeds were produced and shipped to the order of that Department:

Victory Oats . . . . .	3,193 lbs.
Eagle Oats . . . . .	847 "
Alaska Oats . . . . .	266 "
Red Bobs Spring Wheat . . . . .	620 "
Prolific Spring Rye . . . . .	722 "
Jones' Fife Wheat . . . . .	195 "
Dawson's Golden Chaff Fall Wheat . . . . .	1,222 "
Ridit Fall Wheat . . . . .	1,100 "
Storm Fall Rye . . . . .	1,259 "
Kharkov Fall Wheat . . . . .	474 "

## POTATO INDEX WORK

The usual assistance was given to the Export Potato Growers in the testing of Tuber Index Seed. This work is vital to the development of seed stocks, disease-free, for purposes of export to the United States markets.

## SOIL TESTING

Although this service is carried on under considerable difficulties caused by lack of time and laboratory space, some two hundred samples were examined and reported upon.

## OUTSIDE DEPARTMENTAL ACTIVITIES

As during the past five summers, Dr. D. G. Laird was associated with the Dominion-Provincial Soil Survey. It might be stated here that this work is carried on at the expense of holidays and the research in which he is so much interested.

Dr. V. C. Brink initiated the Pasture Studies and Potato Fertilizer Studies assisted the Potato Growers with various problems, and continued to build up the departmental Herbarium for instructional purposes in the Range, Pasture and Weeds courses.

# DEPARTMENT OF ANIMAL HUSBANDRY

Courses were given as usual in the Department of Animal Husbandry, and Animal Husbandry 15 was offered during the Summer Session.

Departmental association was continued and developed during the year with the B. C. Research Council, Breeders' Associations, Veterinary Associations, Feed Standards Board, Junior Farmer Clubs, Fairs and Exhibition Associations. An exhibit of Ayrshires was made at the Red and White Show, Langley Prairie, in June, 1946. A separate report on this matter was presented at the time.

## AYRSHIRE LINEBREEDING PROGRAMME

The breeding plan, outlined in some detail in last year's departmental report, was continued during the year. Most of the younger animals are now linebred. Very creditable production records have been made, butterfat percentage showing a marked improvement, and type, as measured by classification and by the show ring, is of a high standard.

## RESEARCH PROJECTS

An investigational study of *Calfhood Vaccination* is being continued with the college herd of cattle. Because of the nature of the study, this is a long-term project.

A *Mastitis* research project, under the auspices of the B. C. Research Council, was continued. The investigational and laboratory work of this study is divided jointly between the Departments of Dairying and Animal Husbandry.

Studies of problems associated with *meat quality* and feeding steers, lambs and bacon hogs were continued. This work was again supported by Safeway Stores Limited and other organizations listed in last year's departmental report.

## HEALTH OF ANIMALS

(a) *Cattle*. The entire herd was tested during the year and Certificate No. 7495 received declaring the herd *Tuberculosis-free*.

Calfhood vaccination against *Bang's disease* continued to prove satisfactory in the control of this disease in the herd. Premature births in the herd since 1940 represent only 4.2 percent of all gestation periods. This figure is well below the recognized 6 per cent loss due to causes other than disease.

Only four clinical cases of *Mastitis* occurred, all of which made good apparent recoveries.

*Sterility* in the herd continued to be somewhat of a problem, but only one animal had to be disposed of. Only thirteen cows required veterinary attention because of obstetrical and parturition trouble.

(b) *Laboratory and Clinical Work*. This service, utilized by the Province at large quite extensively, included the following tests during the year:

Blood specimens . . . . .	22
Fecal specimens . . . . .	2
Tissue specimens . . . . .	7
Post mortems . . . . .	11

(c) *Poultry Diseases.* A total of 577,329 blood tests was conducted in the field and laboratory during the year for *Pullorum disease*. Several hundred laboratory examinations of chicks, poults and growing birds were made. A 5-day course for twenty-two testers was conducted at the beginning of the season.

Because of fewer outbreaks of disease and greater familiarity therewith on the part of the poultrymen, less vaccination work in the control of infectious diseases was carried out than in 1944-45. The pathologist vaccinated 54,000 birds to control Infectious Laryngotracheitis.

## RECORD OF PERFORMANCE

The whole Ayrshire herd continued on test.

## DEPARTMENT OF DAIRYING

The usual courses were offered in the Department. The lack of laboratory space, although greatly ameliorated towards the end of the year, still constituted somewhat of a problem in the larger classes. The Department continued to utilize certain facilities of commercial firms for instructional purposes in the technological aspects of the teaching work. Dairying 3 was offered during the Summer Session.

## LABORATORIES

Additional laboratory space (one hut) provided during the year has proved eminently satisfactory for course work and given some relief to the needs of senior students. However, the lack of a laboratory for instruction in the practical and technological aspects of the Dairy Industry has still made it impossible to develop this phase of the Department's work in the training of students and meeting the needs of the Industry.

In this connection, it might be stated that although requests have been received (a) to provide facilities for the Dairy School provided by the Provincial Department of Agriculture in connection with the granting of Testers' and Cream Graders' licences, and (b) to institute a short course for the training of men to be employed in Dairy plants, we cannot be of any assistance until adequate facilities for instruction in the technological aspects of the Dairy Industry are available.

## RESEARCH

Work was continued on problems associated with the development of the Dairy Industry throughout the Province.

Studies relating to the problems of *cheese-making* in the North Okanagan Valley were continued. As a part of this study and in co-operation with the Department of Dairying at the University of Manitoba, the Department has carried out work on problems concerned with the manufacture of Cheddar cheese from pasteurized milk.

Work was continued on *flavour defects in butter*. Closely related to this problem is the work carried out under a grant from the National Research Council on "A Study of the Genus *Pseudomonas*".

Work was also carried out on the influence of ionic balance on the heat stability of evaporated milk and on the application of microbiological assay methods to the determination of various items in Dairy Products.

The Department has continued to provide laboratory accommodation for work of the B. C. Research Council on *Mastitis*.

The arrangements made with the Provincial Dairy Commissioner whereby the Department undertakes to supply standard alkali solution to dairies throughout the Province were continued.

The emergency budget made possible the purchase of laboratory supplies and equipment adequate for the increased number of students, but the provision of equipment for the course work in Dairy Technology is a problem still awaiting solution.

## DEPARTMENT OF HORTICULTURE

The usual courses were offered in the Department of Horticulture during the Session 1945-46. The major emphasis in the activity of staff members was on teaching and such investigational work as could be conducted as a phase of teaching, with the exception of the following four projects which, incidentally, provided class material and practical experience for students:

- (a) Vegetable Seed Trials (in co-operation with the Dominion Government)—10th year.
- (b) Foundation Stocks of certain Vegetable Varieties (by arrangement with the Canadian Seed Growers' Association).
- (c) Flower Trials (commenced in 1946).
- (d) Food Values of British Columbia Fruits and Vegetables and Factors which affect them (under the B. C. Research Council).

The regular professorial staff of two was increased by the appointment of one part-time lecturer and two full-time emergency assistants. As well as carrying the normal teaching load, Dr. A. F. Barss supervised campus development and maintenance, Dr. G. H. Harris was in large measure responsible for student problem work in the Department, and Mr. F. E. Buck served as Consulting Landscape Architect for the campus.

#### DIPLOMA COURSE IN HORTICULTURE

During the year a course leading to a Diploma in Horticulture, first urged by the B. C. Professional Gardeners' Association, was approved in principle by Senate and the Board of Governors. Final details have yet to be arranged.

#### LEASE IN HORTICULTURE (Greenhouse)

The lease of the Greenhouse to Mr. Frank Garnish was cancelled as of April 1, 1946, and Mr. Garnish was appointed Foreman in the Department of Horticulture. The Greenhouse is now being used for class-room and laboratory purposes.

#### FOUNDATION SEED WORK

Work was resumed during the year on foundation stocks of one variety each of five different vegetables. This was first started in 1940 with financial assistance from the Agricultural Marketing Bureau, Vancouver. At the request of the Canadian Seed Growers' Association, this number will be increased to ten varieties in all in 1947.

#### FLOWER SEED TRIALS

For the first time in fifteen years, because of the increasing importance of Floriculture, tests were carried out using eighty-three annual flowers, to which were added a number of Chrysanthemum and Dahlia varieties, making a total of ninety-eight lots in the Flower Trials.

#### VEGETABLE SEED TRIALS

This was the tenth consecutive year during which the Department conducted a series of vegetable seed trials in co-operation with the Plant Products Division of the Dominion Department of Agriculture. Three hundred and forty-five samples were on test and, as in other years, the Department supplied general supervision, land, and part of the materials and labour required for preparation. Labour costs were cared for by grants made up as follows:

Dominion Department of Agriculture . . . . .	\$1,000.00
Provincial Department of Agriculture . . . . .	125.00
The B.C. Co-operative Seed Association . . . . .	125.00
The Brackman-Ker Milling Company (New Westminster) . . . . .	100.00
	\$1,350.00

This work constitutes a definite contribution towards the country's effort to produce high quality seed for export and also furnishes material and experience for students.

#### EXTENSION WORK

Extension work during the year took the form of lectures given out in the Province as reported by the Department of University Extension and also two short courses offered for Seed Growers and for Fruit and Vegetable Cannerymen.

Three short courses were held, one in Vancouver on Amateur Gardening, one at Cloverdale and one at Langley Prairie.

## RESEARCH

The following researches were conducted, mainly in the form of graduating essays:

- (a) Studies with Plant Growth Promoting Substances
  - (i) Vitamin B1
  - (ii) Ortho-chlorophenoxyacetic Acid
- (b) Studies in Nitrogen Fertilizer Levels
- (c) A Study of Vinifera Grape Growing and Wine Making in British Columbia.

The following graduate researches were carried on during the year:

- (a) The Influence of Growth Stimulants on Propagating Cuttings.
- (b) The Evaluation of a new Fish-waste Fertilizer Product.
- (c) The Extraction of a Low-Sugar Pectin from B. C. Apples.
- (d) Concerning the Food Value of B. C. Apples.

Studies are also being carried out in connection with Hydroponics and Photoperiodism.

## FOOD VALUES OF B. C. FRUITS AND VEGETABLES

Under a grant from the B. C. Research Council, two years of work have now been completed in assaying the nutritive value of small fruits and vegetables in the Coastal Area and Vancouver Island, together with the soils on which they were grown. Analyses have also been made of competing imported produce, comparison showing calcium and phosphorus deficiencies prevalent in the local product, with iron comparatively high.

In rat feeding experiments, some apples were found to contain a growth-promoting, activity-increasing substance, and an attempt is now being made to isolate this "vigor" factor.

## DEPARTMENT OF POULTRY HUSBANDRY

The usual courses were offered in the Department during the year, and Poultry 12a and 12b were offered during the Spring Session.

It may be noted that the possibilities of rehabilitation of ex-servicemen have been demonstrated in a number of cases of returned men who are already on the way to establishment in commercial poultry or turkey farming enterprises after six months' training at the University.

## POULTRY PLANT

Improved laboratory facilities with the re-conditioned hut have permitted more adequate practice and training in judging and selecting poultry and eggs. Increased flocks afforded better selection material for students as well as the adoption of the new Dominion Government policy of extending progeny testing.

## R.O.P. PULLETS

The largest number of individually pedigreed pullets bred so far were entered during the past year as follows:

200 White Leghorns  
100 Rhode Island Reds  
200 Barred Plymouth Rocks  
80 New Hampshires

In addition to aiming for high egg production, great attention is being given in the breeding policy to early feathering, rapid growth, meat type, and inheritance of resistance and susceptibility to disease.

## RESEARCH IN BREEDS

### (a) *New Breeds—Redbar and Cambar*

From a study of Redbar chicks, a technique for the classification of male and female down colour has been established which permits a baby-chick sexing accuracy of over 95 per cent.

Both Redbar and Cambar breeds are now in the final stages of grooming for admission to the American Standard of Perfection. It might be noted that the Department of Poultry Husbandry is being urged by Dominion Government Inspectors to enter these breeds in R.O.P.

### (b) *Rhode Island Reds and Barred Plymouth Rocks*

As a result of an extensive breeding programme all Rhode Island Reds on the Poultry Plant are now early fast feathering. However, further research is needed to bring this quality up to the best standards in other breeds.

## DISPOSAL OF STOCK

The development of research and R.O.P. Certification has brought about an increase in the sale of breeding stock to poultrymen in British Columbia, the Prairies, the United States and Mexico.

A ready market has been found locally for surplus meat birds and poultry products.

## NUTRITION

### POULTRY FEEDING PROJECT (Surrey Co-operative Association)—

This study, sponsored by the Surrey Co-operative Association, Cloverdale, from March 16, 1944 to March 15, 1946, dealt with substitutions in rations for products which were high priced and scarce during the war years. The results of the experiments were of particular value to the poultry farmers in the Province. The Board of Directors of the Surrey Co-operative Association, following favorable consideration of a report on the feeding project, made a further grant of \$1,000.00 to continue the research.

The following researches were also carried on:

- (a) The use of *Stickwater* (fish solubles), a by-product of the fishing industry, as a supplement in corn-soyabean meal and wheat-soyabean meal rations.
- (b) At the request of the Canadian Fishing Company, Vancouver, a biological study of the stability of *Vitamin A* in herring meal.
- (c) An attempt to discover suitable vitamin carriers or a vitamin-mixture of the B-G complex which would satisfactorily supplement a basal diet of wheat, oats, fishmeal, mineral-mixture and fat-soluble vitamins.
- (d) The effect of Diet on Hatchability.
- (e) In co-operation with Dr. William Chalmers of Western Chemical Industries, Limited:
  - (i) on the relative stability of blended *Fish Oils*.
  - (ii) on the preservation of *water solutions of Vitamin D* (stability).
- (f) Studies with female hormones in fattening cockerels for market.
- (g) A preliminary study of loss of carotene and *Vitamin A* in poultry rations.
- (h) Studies on causes of poultry disease.

## SHORT COURSES

The usual Fall and Spring Term short courses were offered by the Department at the University as well as courses at Haney and Armstrong. These courses were well attended, especially by returned servicemen.

The B. C. Poultry School of the Air, conducted during December, 1945, and January and February, 1946, with the University and Provincial and Dominion Departments of Agriculture co-operating, was a new feature developed by Mr. Arthur Renney of the Department of University Extension. It might be mentioned that Mr. Renney's assistance with requests for information from poultrymen in the Province was invaluable during the year.

Respectfully submitted,  
F. M. CLEMENT,  
Dean, Faculty of Agriculture.

*Report of*

## The Dean of The Faculty of Law

This was the first year of the Faculty. The Senate, on August 24th, and the Board of Governors, on August 27th, 1945, gave approval to the recommendations of the General Advisory Committee of a month earlier which provided for the establishment of a Faculty of Law at the University. Time for organizing was short, but with the co-operation of all concerned it was possible to commence lectures on September 24th.

The curriculum is based on the standard curriculum adopted by the Canadian Bar Association for instruction in the common law system with modifications that have been made from time to time. Two courses are provided. The five-year course consists of two years work in Arts and Science followed by three years in Law and leads to the degree of Bachelor of Laws. The six-year combined course consists of three years in the Faculty of Arts and Science, followed by three years in the Faculty of Law. In this latter course the degree of Bachelor of Arts is granted on completion of the second year in Law and the degree of Bachelor of Laws on completion of the final year in the Faculty of Law.

A much heavier enrolment than had been anticipated took place with nearly eighty students registered in the First Year. The majority of these were returned men. They had a marked keenness for their work and took the somewhat "pioneer" conditions of the early months in their stride.

The Law Society of British Columbia co-operated closely with the University in setting up the Faculty. For many years the Society had maintained the Vancouver Law School for the instruction of law students in Vancouver and the vicinity. With the appearance of the Faculty of Law, arrangements were made whereby the facilities of the Faculty were extended to Law Society students then in process of qualifying for the Bar, and these students, in addition to those regularly registered, received instruction from the Faculty during the year.

Soon after the opening of term two army huts were made available to house the Law Library and the administrative offices and they served their purpose well. As the year went on it became clear that larger quarters would be necessary in view of the heavy enrolment. Early in the summer of 1946 two larger army huts were converted into a law building and the books and equipment moved to the new location during the summer vacation.

The assembling of an adequate Law Library presented an acute problem. Because of the war law books had become in very short supply. Many of the English works had been destroyed by enemy action, and labour and paper shortages handicapped publishers gravely. Nevertheless, during the year it has been possible to accumulate a working library in excess of five thousand volumes, containing the principal law reports, periodicals and text books. Substantial gifts of books were made by members of the public and the legal profession and this generosity greatly assisted the Faculty.

In October, 1945, the Faculty joined with the Law Society in providing a Refresher course for men returning from war service to their practices. Lectures were given from October to the end of February, and were held three times a week from five to seven in the evening. They were well attended and are believed to have been of considerable assistance in helping servicemen re-establish themselves in their profession. The approach was essentially a practical one, and the bulk of the lectures were given by practising members of the Bar with the President, Professor Read and Dean Curtis giving lectures in their own fields.

In January, the University was host to the members of the profession in the province and to others at the Formal Opening of the Faculty. After inspecting the two law huts, the guests gathered in the Brock Memorial Hall under the chairmanship of the President. The Chancellor of the University introduced the Chief Justice of British Columbia, the Honourable Gordon McG. Sloan, who declared the Faculty formally opened. Felicitations were extended by the Attorney-General of the Province, the Treasurer of the Law Society and others and the Chief Justice of the Supreme Court, the Honourable Wendell B. Farris, delivered an address on "The New Era in International Affairs".

During the year the members of the Third Year constituted themselves a Moot Court Committee and each member of the First Year argued a case before the Moot Court.

The Faculty has enjoyed the warmest support of the legal profession. In particular, a large number of the members of the Judiciary and the Bar lent their assistance by acting as Lecturers in Law. Those who gave their services in this way are as follows:

Mr. D. T. Braidwood—Executors.  
Mr. H. R. Bray, K.C.—Wills.  
Mr. C. W. Brazier—Procedure I.  
The Honourable Mr. Justice J. M. Coady—Evidence.  
Senator J. W. deB. Farris, K.C.—Constitutional Law.  
Mr. A. W. Fisher—Conflicts.  
Mr. J. S. Maguire—Landlord and Tenant.  
Mr. S. J. Remnant—Criminal Law.  
Mr. F. A. Sheppard—Equity.  
The Honourable Mr. Justice Sidney Smith—Shipping.  
The Honourable Mr. Justice J. O. Wilson—Procedure II.

In addition, a number of special lectures were given during the session. Chief Justice Farris gave the opening lecture of the term on the subject of the "Legal Profession". Later, Mr. R. W. Lane lectured on "The Workmen's Compensation Act"; Mr. R. H. Tupper on "Corporate Finance"; Mr. R. D. Guy on "Land Registry Practice"; Mr. W. A. Shultz on "Homicide"; The Honourable Mr. Justice Bird on "Court of Appeal Procedure". In December, 1945, Mr. E. K. Williams, K.C., President of the Canadian Bar Association, visited the University and addressed the First Year on the work of the Association. Another member of the Bar, who contributed valuable services to the Faculty, was Mr. Alfred Watts, who acted as liaison Secretary and assisted in the organizing work.

Respectfully submitted,  
GEORGE F. CURTIS,  
*Dean, Faculty of Law.*

*Report of*

## **The Dean of Women**

The work of the Dean of Women's Office for the session 1945-46 naturally reflected the increased registration of the University.

Fortunately, the conclusion of hostilities brought to the end the responsibility of the Office for the Women's War Work. The University Detachment of the Women's Red Cross Corps which, under the leadership of Dr. Hallamore had given unselfish service through the war, was disbanded during the year. Sewing and knitting were continued by the women on a volunteer basis. With the aid of Mrs. Muir and her committee who directed their efforts, the students continued to make a valuable contribution to the work of the Red Cross.

The greatest problem of the year continued to be the housing question. Students had to depend for accommodation on the generosity of the average citizen and adequate accommodation was not offered until the very beginning of the college session. Students who found it necessary to move during term prolonged the housing problem all year. Moreover, before leaving the campus at the end of the Spring Session, students hastened to secure all rooms that would become available the following September, thus leaving nothing for the new students expected in the autumn. The present dependence of students on the offer of accommodation from private homes makes this a definite University problem. Since the average citizen awakes to the need only at the last moment, the student is kept too long in uncertainty, and accommodation is offered at a time when the Dean of Women is not free to visit the homes since she is needed in her Office for consultation.

The University's first attempt to assume responsibility for women's housing was made this session when fifty-three women were given rooms at Acadia Camp. About half of these had been in the Women's Auxiliary Forces, and all accepted the conditions of camp living in fine spirit. Miss Isobel Clay represented the Dean of Women in the Camp and acted in an advisory capacity on the student committee. The girls in residence all reported, that although they might have lived under more luxurious conditions elsewhere, they much appreciated the good fellowship of community living.

Increased registration also entailed a multiplication of student activities. It is no longer possible for one person to attend the many social events of the University year. Close contact, however, is maintained with the student officers who keep the Office informed of the various activities planned by each executive.

The work of the Office is twofold, and consists both in maintaining happy relations with student organizations and in being available for individual counselling at need. There was a marked increase during the year for this latter service. Probably one reason for asking advice at this time is a realization of the changing conditions in the post-war world for which the student is preparing.

Respectfully submitted,

DOROTHY M. MAWDSLEY,

*Dean of Women.*

## Report of

# The Librarian to The Library Committee of The Senate

During these twelve months the Library has felt the full impact both of the arrival on the campus of thousands of returned veterans, and of the rapid broadening of the University's curriculum. Indeed, it operated throughout the year in something not far short of a state of emergency.

A special session for veterans was held in May and June, with the result that University classes met during all but five of the fifty-two weeks under review. Registration for the regular summer school was approximately 2500, and while it was in session demands on the Library's service departments were appreciably heavier than they were in the winter session only a few years ago. The staff had only the briefest of respites between terms, and this not only frayed nerves, but made it impossible to attend to the innumerable small jobs that must be done sooner or later, but have to be put aside when reading rooms and stackrooms are crowded. In former years service demands could be counted upon to drop sharply during May and June, and this provided time in which to plan changes, make advance preparations, consider book needs and book orders, bring files up to date, and so on. Careful work of this kind during the slack months added much to the quality of the service the staff was able to give during the rest of the year, and it is to be hoped that the University will soon be able to revert to its regular schedule of sessions.

The new demands made upon the Library have seemed to be virtually endless. The new Faculty of Law appeared on the scene with little more than a fortnight's notice, and its need for books was naturally immediate and pressing. In the summer of 1946, Pharmacy, Architecture, Music, Slavonic Studies, and Agricultural Engineering were added to the list, to mention only entirely new departments. In addition, new courses and revisions of courses have appeared in virtually every department, and the teaching staff has at least tripled in size.

As a result, in addition to an imperative necessity to expand the book collection and facilities of the Library *quantitatively*, to keep pace with the vastly increased student registration, the Library has been under great pressure to expand into new fields and improve the *quality* of its collections. This latter pressure has been most welcome, but unfortunately it has come at a time when conditions in the book market make careful and systematic book-buying an extremely difficult task.

It would seem, for example, that it should be a simple matter to secure additional copies of the books selected by the teaching staff for "required reading". Many of them are familiar titles that have been used, in successively revised editions, for a good many years. At the moment, however, many of them are unobtainable. Hundreds are out of stock, and the scarcity of paper makes it impossible for the publishers to say when they will be available, and in what quantity. The commonest of classics—books that we have always been able to take it for granted that we could buy at a moment's notice—have dropped out of print. Standard reprint collections such as the Everyman and Modern libraries have had hundreds of titles temporarily out of print. Of 18 books ordered recently from a third well-known series, only two could be supplied. For a time dictionaries were so scarce that they were rationed, and a routine order for two large Merriam-Websters was not filled for nearly a year. In addition, many books printed in England have been issued in such small numbers that even an air-mail order sent off immediately after publication was announced, has not arrived in time to secure a copy. Time and again the Library has had to turn to the second-hand market—which today is coming more and more to coincide with the rare book market—to secure additional copies of the most familiar standbys.

As a result of all this, the Library has not been able to expand its book collection quickly enough to keep pace with new demands. Money has not been the difficulty, for the Board of Governors have been able and willing to provide funds for any reasonable requirement. The books themselves have simply been unobtainable. Fortunately conditions are now improving; but it will be a year at least before the Library will even be able to place in its "required reading" and reference rooms the number of titles and the number of copies that should be there.

## THE H. R. MACMILLAN COLLECTION IN FORESTRY

The outstanding gift received during the year came from Mr. H. R. MacMillan, who offered to make available to the University sufficient funds to enable the Library to acquire a comprehensive collection of books, periodicals, pamphlets, etc., relating to Forestry. Early in the New Year the Librarian

ian discussed the project with Mr. MacMillan, who responded by making an immediate gift of \$3,000.00, earmarked for two purposes: first, to make it possible for the Library to secure for two months the services of an experienced Forestry library specialist, who could advise on matters of policy, and, secondly, to permit the Library to commence the purchase of periodical sets.

Under the terms of this grant Miss Ina Rankin, of the Library of the University of Michigan, spent July and August in Vancouver, and helped plan the acquisition of the projected collection. By the end of her visit the scheme had been worked out in all but its lesser details, and the Library was ready to go ahead with book buying on a considerable scale. Mr. MacMillan thereupon most generously agreed to make a further sum not exceeding \$10,000.00 available, and this will be paid over in instalments of \$2,000.00 as the money is required and previous expenditures are accounted for.

Mr. MacMillan's gift will enable the Library to build up a really outstanding collection of material not only in Forestry, but also on any related fields that are important to the forest industries in British Columbia. Let us hope that it is only the first of a series of such collections, each closely related to some phase of the economic life of Western Canada, that the Library will be able to place on its shelves.

Mr. MacMillan's generosity to the Library was not confined to the field of Forestry. In the course of the year he presented two collections of general literature, consisting in all of more than 100 volumes, and in July he gave to the University a most interesting original water-colour sketch of the Spanish village at Nootka Sound. The sketch, which was probably painted in the autumn of 1792, is beautifully executed, and in perfect condition.

#### THE A. T. TAYLOR ARCTIC COLLECTION

The other outstanding gift of the year was presented by Mrs. A. J. T. Taylor, who gave to the Library the fine collection of books on the Arctic, and to a lesser degree the Antarctic, that had been assembled by her late husband. The 500 volumes are worth at least \$4,000.00. Many of them were purchased with the help of Stefansson, the explorer, who was a close personal friend of Mr. Taylor's. The most interesting item in the collection is probably a copy of the quarto edition of Samuel Hearne's *Journey to the Northern Ocean*. This bears the book-plate of Samuel Wegg, Governor of the Hudson's Bay Company, and the man who instructed Hearne to make his great trek to the Arctic. The book later passed into the hands of Thornton W. Townsend, a noted collector of Arctic literature, and it bears both his book-plate and note in his handwriting. In 1933 the volume was purchased for Mr. Taylor by Stefansson, who commented upon its value and history in an autograph note. Finally, some previous owner has laid in a brief signed note by the famous French explorer, La Perouse.

Special book-plates have been prepared for both the Taylor Collection and the MacMillan Collection in Forestry.

#### OTHER NOTABLE GIFTS

A number of other gifts deserve more than passing notice.

Mr. P. R. Pettipiece presented the files of many of the Socialist newspapers that he had edited in Vancouver and elsewhere during a lifetime devoted in great part to working-class journalism. Very few copies of these papers are known to be in existence, and it is entirely possible that some of the volumes are unique.

Through the good offices of Mr. Gordon Bell, the B. C. Underwriters' Association was persuaded to give to the Library a set of the fire underwriters' maps of the City of Vancouver. Possession of these maps, which are probably the most detailed ever made for the city as a whole, is a rare privilege, which the University greatly appreciates.

Last autumn, Major-General H. F. G. Letson, M.C., formerly a member of the staff of the University, presented his personal library in the field of electrical and mechanical engineering. During the summer, he also placed in the Library, on deposit, his valuable collection of military and naval books and periodicals.

In April, the Library received from Dr. A. H. A. Henderson, of Aberdeen, Washington, a first instalment of a substantial personal library that she intends to give to the University. This initial gift consisted of 190 volumes, largely relating to British and American Colonial history, and including such outstanding sets as Winsor's *Narrative and Critical History* and 17 volumes of the *Original Narratives of American History* series. The extra copies of many standard works that were included were specially welcome at this time, when demands upon the Library are out of all proportion to the book supply.

Mr. A. E. Miller of Penticton, permitted the Librarian to select nearly 400 volumes from his personal library, which he was dispersing before moving to the Coast. The books relate mostly to art and literature, and include many volumes filled with fine colour reproductions, as well as a first edition of Dickens' *Christmas Carol*.

In July, Mr. H. Mortimer Lamb gave the Library a number of books and magazines and a fine painting of totem poles by the local artist, Jack Shadbolt. The same month, Mrs. Lucy Edwards Crittenden, a member of the class of Arts '25, presented an interesting collection of books, pamphlets, etc., relating to John Ruskin, who was an intimate friend of her mother and grandfather. Several of the items are autographed by Ruskin.

In August, the Library received, through the Prime Minister, the Rt. Hon. W. L. Mackenzie King, copies of Field Marshall Montgomery's two volumes, *Normandy to the Baltic* and *El Alamein to the River Sangro*. Use of the books is restricted, in accordance with Viscount Montgomery's positive instruction, but they may be consulted by any responsible person within the Library building.

During the summer, the Department of Forestry placed in the Library the complete set of the proceedings of the Sloan Commission on Forestry that had been presented to it after the publication of the final Report. This invaluable record posed somewhat of a problem, for its thousands of pages contained much material that would be of great use to students of Forestry, but the typescript was in a highly perishable form. A solution was found when it was discovered that the B. C. Lumber & Shingle Manufacturers' Association had had the greater part of the evidence mimeographed for the use of its members. The Association has promised to do its best to assemble a number of sets for the Library, and it is hoped that half a dozen copies may be obtained in this way. The original copy is accompanied by three boxes of briefs and exhibits, extremely few copies of which will be available elsewhere.

Thanks to the generosity of the *Vancouver Sun*, the Library will shortly possess a large Recordak microfilm reader. The order was placed early in the summer, and delivery is expected in October. Equipment of this kind is now essential, and the use of so fine a reader will be greatly appreciated by the staff and research students.

Other donors who deserve much more than the passing reference here possible include the following:

Mrs. J. Kaye Henry, who presented several hundred volumes of general literature; Mr. William Dorbils, who from time to time has sent the Library interesting items of Canadiana, with the request that they be added to the Howay-Reid collection; Mr. Cecil Killam, for a beautiful set of Balzac's complete works; Miss C. J. DeV. Van Steenwyck, for a gift comprising 28 volumes, including several titles by T. S. Eliot in fine editions; Miss Lucille Malkin, who presented 100 volumes of general literature; the Victoria Committee of France-Canada, for books in the field of French art and literature; to the Henry George Club of Victoria, for a 12-volume set of the life and works of Henry George; Dr. Sylvia Thrupp, who presented a fine 21-volume run of the *British Magazine*; Dr. P. A. Boving, for a large collection of miscellaneous agricultural books and bulletins, many of which filled gaps in the Library's files; Miss Julia C. Stockett, who presented a number of new novels with the request that they be included in the libraries supplied to the University's two residence camps; Mrs. E. G. Sutcliffe, who gave a most useful collection of musical scores, both instrumental and vocal; Rev. W. T. Kelling, who presented a copy of the famous *Mappa Mundi* in Hereford Cathedral that he himself had drawn many years ago; Dr. L. M. Greene, of Smithers, who presented a run of the *British Medical Journal*; the Red Cross Superfluities Shop, which gave the Library an extra set of the *Encyclopedia of Canada* and other works; Mrs. R. C. W. Lett, who sent the Library a dozen books on spiritualism; Dr. G. M. Ehlers, of the University of Michigan, who presented a fine copy of Rominger's now rare work on *Fossil Corals*; Mrs. L. W. Peel, who presented a run of the *Illustrated London News*; the Eastman Kodak Company, which added to the Library's material on calendar reform; Prof. T. Larsen, who presented a most useful collection of texts and works on Anglo-Saxon, Old English, and Middle English; Mr. J. S. Garrett, who sent to the Library 35 volumes from his late father's library, including a run of the minutes of the conferences of the superintendents of insurance 1914-41; Mrs. P. W. Barker, who presented a number of medical books from her late husband's library; Mr. H. S. Fowler, who presented a number of volumes of the *Mining and Scientific Press* and other periodicals lacking from our files; Mrs. R. H. Mullin, who gave a set of the *Studies in the Psychology of Sex*, by Havelock Ellis; Mrs. Gordon Bell, who presented several German sets from her father's library; the Vancouver Medical Association, the Vancouver General Hospital and Mrs. G. W. Knipe who donated valuable collections of medical books and periodicals; Mr. E. W. Eastham, who presented a number of yearbooks, etc., and many pamphlets in his own field of plant pathology; the Provincial Library, for two valuable sets of legal periodicals; the Library of the University of Western Ontario, which has from time to time sent us most useful items from its duplicate files; the Royal Institute of International Affairs, the Canadian Institute of Inter-

national Affairs, the Carnegie Institution of Washington, the Huntington Library, the James F. Lincoln Arc Welding Foundation, and scores of other institutions and corporations that have made their publications freely available.

Other donors who must be noted include Mr. J. Duff, of Sidney; Mrs. F. A. Lovick, of Ladner; Sir Thomas White, of Toronto; Mr. Thomas E. Donnelley, of Chicago; Mr. John Helders; the *Vancouver Daily Province*, for copies of B. A. McKelvie's *Maquinna the Magnificent*; Dr. W. H. Burnett; Mr. H. C. Palmer, of Duncan; Dr. J. C. Webster, of Shediac, N.B.; Mr. L. W. McLennan, of Oleum, California; Dr. Basil Mathews; Mr. G. S. Roe; the estate of the late R. A. Wilson; Dr. C. W. Vrooman; Mr. Charles J. Woodsworth, of Ottawa; Prof. Marcus L. Ward, of the University of Michigan; Dr. R. A. Wilson; and Mrs. Jonathan Rogers, who presented a facsimile of the original letter from Captain Vancouver that she gave recently to the Vancouver City Archives.

Finally, a special word of thanks is due to the staff of the University, who, now as always, have been most generous in their gifts. Names not included in the above lists, but which must on no account be omitted, include President MacKenzie, Dr. I. M. Cowan, Dr. W. N. Sage, Dr. I. MacInnes, Dr. A. P. Maslow, Dr. G. B. Riddehough, Dr. Vynér Brooke, and Dr. T. J. Oleson.

The Library's general book fund received two gifts during the year—a cheque for \$200.00 from the students attending the special veterans' Spring Session, and \$100.00 from the Summer Session Association. In addition, the class of Agriculture '21, which last Spring celebrated the 25th anniversary of the graduation of the first class in the Faculty, gave Dean Clement the sum of \$175.00, to be spent on books for the Library that would be of special interest to the Faculty of Agriculture.

## THE BOOK COLLECTION

The number of books accessioned in the regular series was 9,301. In addition 3,778 volumes in the Howay-Reid Collection were accessioned in a special series, as were 539 volumes from the Pound Collection. In all no less than 13,618 volumes were thus accessioned during the year. This is much more than double the rate of growth that was considered the Library's normal rate of expansion only a year or so ago.

While it is true that many of the books accessioned had been received before September 1, 1945, so many of the books presented to the Library since that date had not yet been accessioned at the end of the academic year that the one total roughly balanced the other.

The number of volumes in the Library, including uncatalogued material, now certainly exceeds 170,000. When the new stackroom is completed, and the book stock is arranged in proper order, it will not be difficult to count the books and ascertain the exact total. In the meantime, the estimate given must suffice.

## STAFF ADDITIONS

The Library staff has doubled in number during the year. On September 1, 1945, it consisted of 16 full-time persons; a year later the list included 32 full-time people, plus a trained librarian who was working half-time. Three additional appointments were pending at the end of the year, and it is probable that the staff will number 40 by the time the addition to the Library building is completed and fully staffed.

All departments have shared in this expansion. The Reference, Cataloguing, and Circulation Departments each added an additional trained librarian, and a fourth trained person is working half-time in the Order Department. Three more trained librarians are very badly needed, but it has been impossible to secure them up to the present.

Three sub-professionals—that is, persons who have graduated from a university but have not attended library school—were also added to the staff. Two of these are in the Reference Department, and one in the Order and Periodicals Department. These are the first appointments of the kind that have been made in the Library.

The number of clericals employed has increased from 5 to 11, and will increase still further. Most of the additions have been in the Cataloguing and Circulation Departments.

The Stackroom Attendant added to the staff on September 1, 1945, has proven invaluable, and deserves great credit for the marked improvement in the orderliness and appearance of the books on the shelves. Owing to the vastly increased use being made of the Library, however, his task is now beyond the capacity of any one person. For the present part-time student assistants are being employed, but a full-time assistant will undoubtedly be essential in the enlarged building.

## CIRCULATION

So far as the main loan desk and the reserve desk were concerned, circulation practically doubled in volume in 1945-46 as compared with 1944-45. It would undoubtedly have been higher still if more copies of many books in great demand had been available, and if the Library building had been capable of serving more people.

Study groups, evening course students, and other readers registered with the Department of University Extension borrowed a total of 10,053 volumes, or about 500 more than in 1944-45. Of this total, plays sent to 130 drama groups scattered all over the Province accounted for 4,364.

## CIRCULATION STATISTICS

	1944-45			1945-46		
	General	Reserve	Total	General	Reserve	Total
September	2669	1602	4271	2136	976	3112
October	5033	5472	10505	7998	9341	17339
November	5789	5791	11580	9043	11673	20716
December	2756	2651	5407	3579	5213	8792
January	5591	3643	9234	9164	7702	16866
February	6537	4305	10842	9667	8841	18508
March	5836	5423	11259	9482	10384	19866
April	2255	3143	5398	6029	9564	15593
May	1506	350	1856	4260	2946	7206
June	1065	313	1378	2670	3351	6021
July	2671	2352	5023	5999	7358	13357
August	1915	1258	3173	2726	3160	5886
	46633	36303	82936	72753	80509	153262
Extension			9534			10053
Nursing			3010			3200
<b>TOTALS</b>			<b>92470</b>			<b>166515</b>

## RENTAL COLLECTION

It will be recalled that a rental service was started on a small scale by the Circulation Department in October, 1944. Although it has not grown greatly, the books are appreciated and the service is paying its way. The number of titles available is usually about fifty, and it remains at that figure because books are transferred to the general collection relatively quickly. When other duties do not press as heavily on the staff as they do at the moment, the collection can undoubtedly be expanded to advantage and developed considerably.

Rental rates continue to be three cents per day, with a minimum charge of five cents, and, as already noted, the collection carries itself without difficulty.

## REFERENCE DEPARTMENT

The hordes of students in attendance in 1945-46 vastly increased the work of this Department. The strain on the staff has been terrific, here as elsewhere, particularly as the special Spring Session swallowed up the slack months that are usually spent in preparing for the winter rush. Additions were made to the staff, and the Library was most fortunate in the people it was able to secure; but even so, months must pass before any new staff member, no matter how capable, can become sufficiently familiar with the Library, its book stock, and the special needs of student and faculty groups, to carry a full share of any department's burden.

During the fall of 1945 an effort was made to continue the policy of offering instruction in the use of the Library to students interested in special subject fields. Talks were given to Social Work, Civil Engineering, Public Health Nursing, and Forestry students, as well as to the freshman class in Agriculture, but routine duties at the Reference Desk have become so heavy that for the present this most important service will have to be curtailed. A special classroom and other facilities for this type of instruction will be provided in the addition to the Library building, and it is hoped that many more talks may be given in 1947 and succeeding years.

Miss Mary Henderson was in charge of displays during the year, and she contrived to produce a very interesting series in spite of the difficulty in obtaining materials. Mrs. Edward Lipsett again very

graciously placed her remarkable collections at our disposal, and a number of striking exhibits were arranged in the autumn term. A travelling display of publications loaned by the Canadian Institute of International Relations attracted much attention, and so did the displays of large photographs—a dozen or more to the series—that were furnished by the British Information Office, in Ottawa.

The Reference staff has had very little time to devote to the map collection; nevertheless, most of the maps owned by the Library before 1940 have now been accessioned. A considerable number of large dissected wall-maps, specially designed for classroom use, have been added to the collection, and the demand for these, coupled with the expressions of appreciation the service has inspired, show that this type of service fills a distinct need.

While in Chicago in December, 1945, Miss Smith investigated the possibility of having the Library placed on the list of institutions to share in the distribution of World War II maps that is now under way in the United States. Nothing came of this directly, but eventually, in June, 1946, Dr. Luther Evans, Librarian of Congress, wrote to inquire if the Library would care to receive a series of from 3000 to 8000 maps to be distributed by the United States Office of Strategic Services. The offer was accepted with alacrity, and several hundred maps have already been received.

### INTERLIBRARY LOANS

It may be well to recall the statistics of loans in the last few years:

	Borrowed	Loaned	Total
1941-42 - - - -	.....	.....	178
1942-43 - - - -	.....	.....	185
1943-44 - - - -	122	100	222
1944-45 - - - -	137	130	267
April-August, 1945	48	65	113
1945-46 - - - -	138	172	310

Two or three conclusions may be drawn from these figures. First, the number of loans made is increasing slowly but steadily. Secondly, no effort is being made to "push" the service on our own campus; on the contrary, owing to the pressure of routine work, the Reference staff has been compelled almost to discourage loans, and to limit them to items that are vitally necessary. Thirdly, other libraries are looking to us more and more frequently for material. In part this is clearly due to the Bibliographic Centre in Seattle, which acts as a clearing house for thousands of inter-library loan requests, and can forward promptly an inquiry about books we possess that are not available elsewhere.

### THE LIBRARY CATALOGUES

The Cataloguing Department worked throughout the year at a pace that cannot possibly be maintained for long, but thanks to their tireless efforts it is once again possible to say that all books acquired by purchase have been catalogued and placed on the shelves. Many books given to the Library have also been dealt with and placed in circulation, but the pressure of work was so great that many volumes not urgently required have been put to one side until more time and staff are available to deal with them. Towards the end of the year it was found necessary to resort to some temporary (meaning thereby incomplete) cataloguing, notably in the case of many books for the Faculty of Law, which for the moment is not interested in complete entries in the standard form.

When Miss Doreen Woodford returned to the Department in November the cataloguing of Canadiana was placed in her charge. Remarkable progress has since been made with the Howay-Reid Collection, but in recent months ordinary library demands have become so great that Miss Woodford has been devoting a good deal of time to general cataloguing. Some comfort may be drawn from the fact that the Howay-Reid books can be handled much more comfortably and efficiently when they are housed in an adequate room, as they will as soon as the addition to the Library is completed.

A total of 72,331 cards were added to the Library of Congress Depository Catalogue this year. These brought the total number of cards in the file that supplements the printed edition of the catalogue proper to 324,254. As noted in a previous report, several plans are under consideration whereby the supplement to the printed set can be kept up-to-date in printed form, and the probability is that one or other of them will take effect within a few months.

The complete printed edition of the Library of Congress catalogue, consisting in all of 167 volumes, has now been received, and this serves as a reminder that the Library's collection of catalogues is becoming somewhat notable. Many years ago the Library subscribed to the printed edition of the great General Catalogue of the Bibliotheque Nationale, in Paris, and the volumes issued in

France during the war years were received recently. This great set is now within a dozen volumes or thereabouts of completion, after having been in progress for nearly 70 years. Within a few months the Library should also possess a facsimile copy of the old edition of the British Museum Catalogue, which has been described as the greatest single bibliographic tool in existence. The revised edition of this Catalogue has progressed no further than the letter "C", owing both to the stupendous labour involved in recataloguing so enormous a library, and the depressions and wars that have occurred since the project was started. It is to be hoped that it will soon be appearing at least as fast as in 1938, which was at the rate of three or four volumes per annum.

During the year the Library also completed its sets of the facsimile reprint editions of Evans' *American Bibliography* and its successor, the *American Catalogue*.

## PERIODICALS

The addition of a new Faculty, several new Departments, and many new courses has occasioned an immense amount of work for the Periodicals Department. Much of this has had to be done personally by Mr. Lanning, as no assistant was available who was qualified to carry on the complicated negotiations now necessary to secure subscriptions to new periodicals, back files of established titles, and so on.

A list of the principal new acquisitions will best indicate the great scope of the development that took place in the Library's periodical collections this year.

Important new sets acquired included the following:

*Canadian Poetry Magazine*, v. 1, 1936, to date.

*Econometrica*, v. 1, 1933, to date.

*Arnold Arboretum Journal*, v. 11, 1930, to date.

*Hispania*, v. 1, 1918, to date (lacking a few numbers).

*Japan Society, Transactions*, v. 1-38, 1892-1939.

*Madrono*, v. 1, 1916, to date.

*Medical Library Association Bulletin*, v. 17, 1927, to date (lacking a few numbers).

*University of Michigan, Museum of Palaeontology, Contributions*, v. 1, 1924, to date.

*University of Montreal, Institut Botanique, Contributions*, v. 1, 1922, to date.

*North Central (Education) Association Quarterly*, v. 1, 1926, to date.

*Royal Canadian Mounted Police Quarterly*, v. 1, 1933, to date (lacking a few numbers).

*Shoulder Strap (B. C. Police)*, v. 1, 1939, to date.

In addition, the first of the periodicals purchased for the H. R. MacMillan Collection in Forestry arrived before the end of August. These included:

*American Botanist*, v. 1, 1901, to date.

*American Fern Journal*, v. 1, 1910, to date.

*Morton Arboretum Bulletin*, v. 1, 1925, to date.

*Rhodora*, v. 1, 1899, to date.

*Sargentia*, v. 1, 1932, to date (lacking a few numbers).

*Torrey Botanical Club, Memoirs*, v. 1, 1889, to date (lacking a few numbers).

*Torreya*, v. 1, 1901, to date (lacking two numbers).

The Library subscribed to fifteen new periodicals that commenced publication in 1945-46. As the titles indicate, they covered a surprisingly wide variety of subjects:

*British Columbia Digest*

*Canadian Digest*

*Canadian Education*

*Index to Current Hospital Literature*

*International Journal*

*International Nursing Bulletin*

*Journal of Colloid Science*

*Journal of Documentation*

*Journal of Gerontology*

*Journal of Polymer Science*

*Northern Review*

*Paru*

*Science Illustrated*

*World Reports*

*World's Poultry Science Journal*

Subscriptions have also been placed to the following 54 established journals, and the probability is that it will be necessary eventually to acquire back files of many of them. (Titles prefixed by the symbol "\*" were gift subscriptions.)

*Advertising Age*

*Agricultural Institute Review*

*Alberta Folklore Quarterly*

*Hollywood Quarterly*

*Horizon*

*Horticulture*

American Fur Breeder  
 Breeders' Gazette  
 Canadian Bookseller  
 \*Camsi Journal  
 Canadian Grain Journal  
 Canadian Horticulture  
 \*Canadian Scientist  
 Cariboo Digest  
 Channels  
 Coal Technology  
 Commerce Journal (University of Toronto)  
 Contemporary Verse  
 Engineers' Digest  
 Everybody's Poultry Journal  
 Farm Economist  
 Feed Bag  
 Financial Post  
 Fruit Products Journal  
 Fur Trade Journal of Canada  
 Gants Du Ciel  
 Gardeners' Chronicle of America  
 Technical Book Review Digest  
 Theatre Notebook  
 Trollopian

Index Society  
 Jewish Centre Worker  
 Journal of Physical Education  
 Journal of Social Hygiene  
 Junior Historical Journal  
 \*Library Chronicle  
 Marketing  
 Metallurgia  
 Mississippi Valley Historical Review  
 National Federation of Settlements  
 National Fur News  
 National Horticulture Magazine  
 Nulaid News  
 Occupational Psychology  
 Oil and Gas Journal  
 Poetry (Australia)  
 Poultry Tribune  
 Printers' Ink  
 Prison World  
 Public Administration Review  
 Souterly  
 Turkey World  
 Western Producer  
 \*Wood Preserving News

Finally, the Library has substantially increased its holdings of the following fifteen titles:

Agricultural Engineering  
 American Journal of Psychiatry  
 Architectural Record  
 Arnoldia  
 Bibliographical Society (London)  
 University of California, Publications in Geology  
 University of California, Publications in History  
 Commonweal  
 Comparative Psychology Monographs (now complete)  
 Curtis's Botanical Magazine  
 Hoard's Dairyman  
 Imperial Institute, Bulletin  
 Journal of Aesthetics  
 Progressive Education  
 Wood Preserving News

## FRENCH PERIODICALS

As soon as it was possible to communicate freely with booksellers in France, the Library set about the task of filling in the periodical sets that had been interrupted by the war. As the following report indicates, the Library has been fortunate in its contacts, and there is reason to hope that most of the important sets can be completed in time.

The war-time gap has been filled completely in the case of the following titles:

Journal de Chemie Physique	Le Lait
Societe Chimique de France, Bulletin	Annales de Chemie
Annales de Physique	l'Institut Pasteur, Annales
l'Institut Pasteur, Bulletin	

We have secured some of the missing numbers of the Annales de Geographie, the Revue de Paris, and the Revue Horticole, and a large part of the missing file of the following:

Academie des Sciences, Comptes Rendus  
 Journal de Mathematique  
 Revue Historique  
 Revue Horticole

The back numbers of the *Annales d'Histoire Social* and of *Biblio* have been ordered, and it is probable that all of them will be forthcoming in time. No report has been received as yet regarding the following:

*Larousse Illustré Mensuel*  
*Mercure de France*  
*Revue de Littérature Comparée*  
*Revue des Etudes Grecques*  
*Revue d'Histoire Littéraire de France*

Periodicals formerly received, but which ceased publication during the war include *l'Europe Nouvelle*, *l'Illustration*, *Nouvelle Revue Française*, and *Revue des Deux Mondes*.

A considerable number of new French periodicals have made their appearance, and after a careful investigation as circumstances permitted the Library has placed a number of subscriptions. These will be reported in detail in the next annual report.

## GERMAN PERIODICALS

The position as regards German periodicals remains obscure, and it may be some time before it clarifies to any considerable extent. Meanwhile the Library has suffered one serious disappointment. Some time ago the National Research Council made elaborate plans to secure for Canadian libraries a share of what remained in the warehouses of the German periodical publishers, and our Library submitted a detailed list of its requirements. Unfortunately nothing seems to have come of the scheme, possibly because bombing damage was found to be more extensive than anticipated. As the months slipped by, it was decided that it would be prudent to secure from Edwards Brothers all volumes of scientific titles that they have reprinted, under license from the Custodian of Enemy Property in the United States. Unfortunately a few important titles are not included in their list, but the volume of material available is nevertheless substantial. Most of the reprinted files commence in 1940, and not in 1939, owing to the later entry of the United States into the war. Costs will be about 25 per cent higher than pre-war subscription rates, but the material simply must be secured if at all possible. Deliveries commenced in August, and will continue for some time.

## OTHER FOREIGN PERIODICALS

The Library has been able to complete its files of *Hereditas* and *Acta Mathematica*, both of which are published in Sweden, and to fill in the war years of *La Cellule* (published in Belgium), and *Genetica* and *Bibliographica Genetica* (published in Holland). *Neue Rundschau*, which ceased publication in Germany during the war, has resumed in Sweden, and the Library has secured this new series from number one. Little has been learned as yet about two Italian periodicals, *Circolo Matematico di Palermo*, *Renidconti*, and the *International Institute of Agriculture*, nor has any report on periodicals yet been received from Japan.

## LAW PERIODICALS

The Library and Faculty are currently receiving twenty-one of the periodicals indexed in the *Wilson Index to Legal Periodicals*. In addition, subscriptions have been placed for a dozen or fifteen series of law reports, etc. Long runs of about half these serials have already been secured. A more detailed report is planned for next year.

## NEW DEPARTMENTS

Additional periodicals will obviously be necessary for the new departments of Architecture, Pharmacy, and Slavonic Studies, and for such new courses as that devoted to American Literature. A good many of these were being arranged for, and one or two had actually been received by the end of August, but the details properly belong in next year's report.

## BINDING

Binding details, like other data relating to finances, are best tabulated by the financial rather than by the academic year. The figures here given therefore apply to the financial year 1945-46 (April 1, 1945 to March 31, 1946).

It will be recalled that Mr. H. W. Brooks, who had done the Library's work for a good many years, found it necessary to retire in May, 1945. With the help of Mr. Brooks a satisfactory contract

was negotiated with his successor, Mr. M. I. Sochasky, and this became effective in August. In order to safeguard the Library's position the University purchased Mr. Brooks' stock of buckram and other supplies that had been acquired specifically for use in binding the Library's books, and this stock was turned over to Mr. Sochasky when he commenced doing our work. Owing to the fact that practically no binding was done in the months of June and July, the Library's schedule was badly upset, and extraordinary circumstances, such as the sudden demand for a great deal of work for the new Faculty of Law, made it impossible to catch up quickly with the old routine. Difficulties of this sort will evidently continue for a time, as the volume of work now required is greater than Mr. Sochasky has been able to handle steadily to date.

Binding costs have risen, but in view of the upward movement of almost all prices, the Library is still faring exceptionally well.

Sixteen long sets were included in the work done in 1945-46, and this enabled the Library to take advantage of quantity discounts. Much the most important of these was a long run of Spanish classics, amounting in all to 117 volumes.

## GRAMOPHONE RECORDS

The circulation of recordings has soared with the student registration, and the number of records handled at the Library's loan desk in 1945-46 was more than double the total for 1944-45. Individual students in particular have taken advantage of the service, which now makes a highly important contribution to the cultural life of the University. So many concerts were organized by groups of students that it is certainly correct to say that on the average a concert was held every week-day throughout the year.

A total of 237 records was added to the Carnegie music set, and more than a hundred more were placed in the supplementary collection maintained by the Department of University Extension. It has been found necessary to duplicate many of the more popular symphonies, suites, etc., and it will soon be essential to have many of them in triplicate.

Circulation through the Extension Department decreased somewhat, owing to the closing of many of the Army, Navy and Air Force stations that formerly received recordings regularly, but it is apparent that demand from other quarters will quickly restore and probably increase the total. No less than 115 listening groups borrowed records during the year, some of them as often as once a week. Programmes for children continued to be so popular that a number of new records were secured specially to meet their needs.

Statistics covering the five academic years in which individual students have been permitted to borrow records follow.

## GRAMOPHONE RECORD LOANS

	Academic year				
	1941-42	1942-43	1943-44	1944-45	1945-46
To individual students - - -	1605	2932	3367	3075	7740
To student groups - - -	472	38	396	205	474
For instructional purposes - -	232	258	243	58	} 1124
To University staff - - -	224	1413	1246	788	
To Canadian Broadcasting Corporation	330	378	383	395	399
To Extension Department - - -	650	1120	3960	4947	3877
Special loans - - -	27	2	31	11	
Total - - -	3540	6141	9626	9479	13314

## ART LOAN COLLECTION

The Library embarked upon an interesting experiment a year ago when, at the suggestion of Miss Anne Smith, Head of the Reference Department, steps were taken to assemble an Art Loan Collection, and make it available to the students. A group of local artists was asked to loan original works to the Library, and the response was most generous. President MacKenzie very kindly arranged for insurance to cover the inevitable fire risks involved, and the pictures were then offered on loan to any registered student. The response was encouraging, and demand soon outstripped the supply of watercolours and oils. A number of prints from the Carnegie Art Set were thereupon added to the loan collection, and proved most popular. In all, 37 original works and 14 prints were made available, and at one time or another pictures were in the hands of 40 borrowers. Three watercolours and one oil painting were sold during the year, so that some of the artists at least received some slight financial recompense for their kind cooperation.

This first experimental year has shown that the Art Loan idea has great possibilities, but these cannot be developed to any extent until the Library has room in which to expand its activities. Meanwhile, it is hoped that it will be possible to increase the number of paintings and prints available to some extent during the current year.

An informal Art Loan Committee was formed to act as an advisory body and, generally speaking, supervise the experiment. The members were: Mrs. C. Vyner Brooke, Mrs. Lawren Harris, Mrs. N. A. M. MacKenzie, Mrs. C. E. Dolman, Miss Anne M. Smith, Mr. John Creighton, and the Librarian.

## UNIVERSITY PUBLICATIONS

A more complete report on this subject should be possible in another year. Meanwhile three points of interest may be noted.

First, the Library has terminated the series of *Reprints* that were distributed as exchange material over a period of seven or eight years. The Librarian felt quite definitely that this distribution was most wasteful, as the money expended could be used to much greater advantage in assisting in the publication of original material.

Secondly, the *Calendar*, the *Announcement of the Summer Session*, and the *Requirements for University Entrance*, all serial publications, now constitute a "General Series" of the "Publications of the University of British Columbia". This notation first appeared on the *Calendar* for the session 1945-46, and as it was felt that the volume number of this series should coincide with the sessional number, the 1945-46 *Calendar* became Volume 31, Number 1, of the new "Publications".

Thirdly, the Library is making an effort to secure copies of all publications issued on the campus, classify them in four series, and issue them as "Publications" in the Biological Sciences, the Physical Sciences, the Social Sciences, or Language and Literature. The three titles distributed to date are all in the Biological Sciences series:—

No. 1—University Research Forest.

No. 2—Some Factors that Influence Poultry Farm Incomes.

No. 3—Report on a survey of Medical Education in Canada and the United States, by C. E. Dolman.

An Editorial Committee has been appointed by the President, and it is hoped that plans to develop these series may be under way shortly.

## NEW BUILDING

The completing of plans for the large addition now being made to the Library building took a great deal of the Librarian's time during the last year. Consultations were held with representatives of Snead & Company, who installed the stackroom in the present building, in Toronto in March, and at the Company's factory at Orange, Virginia, in May. Following these talks it became apparent that it might be possible to redesign the stackroom in the wing on the new "modular" principle. This was found to be practicable, and in June Snead & Company sent one of their engineers to Vancouver to work out details with Messrs. Sharp & Thompson, the University's architects, and the Librarian. The advantages gained by the use of the "modular" construction are tremendous, as it makes it possible to use what would normally be stackroom space for a great variety of purposes, including offices, sorting rooms, small reading rooms, service desks, seminar rooms, etc. This being so, the delay occasioned by the change in plans was well worth while.

An additional advantage of the change is that a much higher proportion of the materials required for the stackroom can now be purchased locally, as little more than the shelves themselves and miscellaneous equipment will have to be manufactured in the United States.

Tenders for the addition were invited before the end of the year under review, and it may be permissible to add that the contract for the building was actually awarded before the end of September.

It is a great pleasure to express our thanks to Mr. C. J. Thompson, of Sharp & Thompson, for his untiring efforts to give the Library as nearly as possible precisely the accommodation and facilities the staff felt were essential; to the President and Board of Governors for the freedom they accorded the architects and the Librarian within the limits of the appropriation available; and, finally, to the University community as a whole for the friendly support they have given to the entire project.

## LIBRARY COMMITTEE

The Committee appointed by Senate in October, 1945, was composed as follows:

Dr. J. C. Berry, representing the Faculty of Agriculture.

Dr. A. E. Hennings, representing the Faculty of Applied Science.

Prof. T. Larsen, Dr. I. M. Cowan and Dr. M. Y. Williams, representing the Faculty of Arts.

At the first meeting held after these appointments, Prof. Larsen was unanimously elected chairman for the year 1945-46.

## CONCLUSION

In closing, I wish to express my great indebtedness to the Library Staff, and my equally great appreciation of the way in which they rose to the occasion this last year, and wrestled successfully with the hundred and one problems posed by the immensely increased student registration. The senior members in particular have put in a great deal of extra time, and have worked virtually without respite throughout the year. I think it can be said that they enjoyed the work, and certainly considered it well worth doing; but there is a limit to human endurance, and more than one member of the staff is now, in my opinion, approaching it. Fortunately several of the persons added to the various departments have now been here sufficiently long to be reasonably well acquainted with the institution, and the responsibilities carried by some of the staff should decrease somewhat on that account.

To the Library Committee the Librarian is once again much indebted for help and advice, and in particular for a freedom of action that has eased many of the difficulties inevitably met with in a very unusual year.

Finally, the Librarian, like everyone else on the campus, owes much to Dr. N. A. M. MacKenzie, President of the University. His willingness to devote time and attention to Library problems, sometimes at very short notice, and the sympathy with which he has presented the Library's needs and problems to the Board of Governors, has meant a very great deal to all concerned.

Respectfully submitted,

W. KAYE LAMB,

*Librarian.*

Report of

The Director of The Department of University Extension

INTRODUCTION

In many ways, the past year has been one of transition. During the war period, the needs of the armed forces stationed in British Columbia demanded considerable attention from the Department. With demobilization, this phase of the work has been greatly reduced. However, as if to compensate, there has been a marked increase of interest in educational and recreational activities among the civilian population. Could it be that many developed habits of regular study and other purposeful activities during the war? Whatever the reason, people seem to be eager to take evening classes, to join in discussion groups, to find satisfying forms of recreation — in short, to get more out of life! In response to this encouraging enthusiasm, the Department has expanded its regular facilities, ventured into new fields, and experimented with new methods of adult education.

It is interesting to note that over seventeen hundred students attended Evening Classes offered by the Department and another eleven hundred registered for short courses, institutes and conferences. Nearly forty thousand persons attended Extension lectures given by members of the University staff and over 460,000 attended showings of educational films provided by the University. The activities of the Department were used by over 1200 organizations in 350 communities in the Province. However, in spite of this record there are many people who have no educational contact with the University. It is hoped during the coming year to offer courses to workers engaged in the primary and secondary industries of the Province. If this can be done on a large scale, the University may be able to make a valuable contribution towards the welfare of both the industrial worker and industry as a whole.

EVENING CLASSES AND EXTENSION LECTURES

Eighteen evening classes were offered for residents of Vancouver. The majority were given, as usual, in the Vancouver Normal School; a few were held at the University; and "How to Look at Pictures", a very popular new Course arranged in co-operation with the Women's Auxiliary of the Vancouver Art Gallery, was given in the Art Gallery. The following is a complete list of the courses offered, and the enrolment in each:

How to Look at Pictures (two classes) -	286
Modern Poetry -	51
The Development of Instrumental Music -	48
Public Speaking (two classes) -	54
Elementary Journalism -	47
Photography (two classes) -	125
General Psychology -	144
Elementary Russian -	32
Practical Spanish -	22
The United Nations -	33
Amateur Gardening and Horticulture -	103
General Botany -	53
Bee Keeping -	54
Poultry Husbandry (two classes) -	89
Electricity and Vacuum Tubes -	48
Electronics (for the B. C. Projectionists Society) -	80
Electronics (for Electrical Workers' Union — two classes) -	80
What Steel Shall I Use? (for the American Society for Metals) -	44
Total -	1393

Continuing the policy initiated last year, evening classes were arranged whenever possible at the request of communities near Vancouver. The following classes were given:

Horticulture (Cloverdale)	Soils and Horticulture (Langley)
Livestock Raising (Cloverdale)	Home Economics (Langley)
Poultry Raising (Haney)	The United Nations (North Vancouver)
Bee Keeping (Langley)	How to Look at Pictures (Victoria)

The University is greatly indebted to the members of the teaching staff and other instructors for their generous contributions to this programme. It is realized that their participation entailed considerable personal sacrifice. However it is evident that this broadening of the University's area of service is much appreciated by the communities served. Unfortunately, the very great increase in enrolment in the undergraduate courses has made it increasingly difficult for members of the staff to participate in the evening class programme.

As usual, the Extension Department arranged the winter lecture programme for the Victoria University Extension Association.

In spite of heavy campus teaching loads, members of the University faculty gave a total of 330 "off-campus" lectures, which were attended by some 39,000 persons.

## DISCUSSION GROUP PROGRAMME

Discussion courses, kits and pamphlets on a wide variety of topics have been kept in stock and supplied on request to groups and individuals throughout the Province. Courses on child psychology and family life have again been in greatest demand, and plans were made to extend the material available in this field. During the year, owing to the increased interest in co-operative play groups, the B. C. Parent-Teacher Federation organized a committee to study the possibilities of giving assistance to these groups. As a result of the findings of this committee, the Extension Department has undertaken to prepare packets of printed material which will provide suggestions on organizing and operating co-operative play schools.

It is interesting to note that discussion materials published by the Department have gained considerable recognition in other parts of Canada and in the United States. For example, more than 700 sets of the course "Child Psychology for Parents", well over 400 sets of "Marriage and Family Life", and 70 sets of "Public Speaking" have been purchased by adult education agencies in other provinces.

## RADIO FORUMS

The Extension Department again served as Provincial Headquarters for the radio discussion programmes, National Farm Radio Forum and Citizens' Forum. For each of these programmes, discussion bulletins were mailed to local forums each week. Forums then sent their reports on the topics to the Department, and these reports were summarized weekly over the air by the provincial secretaries. Mr. Arthur Rennie served as secretary of Farm Radio Forum, Miss Marjorie V. Smith as secretary of Citizens' Forum.

## DRAMA

An outstanding feature of the past year has been the growing recognition of the importance of the theatre in the cultural development of the individual and in the life of the community.

In this connection, the drama section of the Extension Department took part in the following community programmes: Community Centres Institute held at the University in the winter; the preparation and presentation of the Vancouver Community Arts Survey; Group Work Institute conducted at Gordon House in August; panel discussion on art and education which was part of the "Friendship with Russia" week.

In December, 1945, the University officially recognized the importance of the theatre by granting credits to one full course in dramatics. This step forward received the active support of the Rockefeller Foundation, which granted a three months' travelling bursary to enable the Instructor in Dramatics to study the work being done in the drama departments of five American universities.

During the year the Department provided its regular theatre services to groups and individuals. Short drama courses and lectures were given to drama groups and other organizations both in and outside Vancouver. The Department's discussion course, "Acting for Juniors" is increasingly popular and is now being used in many places outside the Province. Professor F. G. C. Wood again conducted his correspondence course for students interested in playwriting. The two most popular services continue to be the Play Lending Library and the Theatre Advisory Service. Two hundred groups and individuals borrowed plays and texts from the library, 130 of them being regular, registered borrowers. Circulation for the year was 4,364.

The Extension Department cooperated with the Western Canada Theatre Conference in helping to arrange for a Vancouver production of original Canadian one-act plays. It also assisted in organizing the B. C. Eliminations for the Western Canada Drama Festival. The Eliminations were held in

the University Auditorium in May. At the annual meeting of the Western Canada Theatre Conference, held in Banff in August, Miss Dorothy Somerset, Instructor in Dramatics, was elected president.

The Instructor directed a Christmas play for the University Players' Club, organized the "Christmastide" ceremonies for the Vancouver Art Gallery and, with the assistance of Mr. Osborne, arranged the University's entry in the Vancouver Jubilee Pageant. As in previous years she also gave a course in School Dramatics for the students of the Teacher Training Course.

## MUSIC AND ART

During the year the Phonograph Record Loan Service distributed recordings to 115 registered groups. Circulation for the year was 3,877 recordings. The decreased demand for recordings from army camps was compensated for by the increased interest among rural community groups and children's groups. Reports indicate that the recordings belonging to the Carnegie Music Set and to the Special Extension Collection are providing a very valued service to groups throughout the Province.

Two courses in Music Appreciation were given by Dr. Ida Halpern, one in the Winter Evening Class series, the other during the Summer Session.

In the realm of art, the Extension Department has had the busiest year in its history. The series of Evening Class Lectures on "How to Look at Pictures", offered in conjunction with the Women's Auxiliary of the Vancouver Art Gallery, was so successful that it had to be repeated twice — once in Vancouver and once in Victoria. The classes in "Painting for Pleasure" offered during the Summer Session likewise proved so successful that it became necessary to form two sections.

During the year the Extension Department co-operated with the Canadian Federation of Artists, B. C. Region, to send three travelling art exhibitions to about a dozen centres in the Okanagan, the Kootenays, Vancouver Island and the Fraser Valley. It is hoped that this first co-operative venture will be the beginning of a very valuable art service to the Province.

## AGRICULTURE

With the appointment of Mr. Arthur Renney as full-time Assistant in Agriculture, it has been possible to expand considerably the activities of the Department in this field.

As might be expected this has been a year of exploration, of finding out what services were already being provided to the various areas of the Province, and determining the ways in which the Extension Department could make the most effective contribution. Close contact has been maintained with Provincial and Dominion Government officials, and with local bodies. Considerable aid has been given to Junior Clubs in coaching, judging teams and in preparing for field days.

One of the new developments was the Poultry School of the Air. This was an experiment in agricultural education by radio, arranged in co-operation with the Dominion and Provincial Department of Agriculture and the CBC Farm Broadcast. Talks given over the air by various authorities were supplemented with written materials and questions sent from the Extension Department. Many favourable comments were received about this course.

## HOME ECONOMICS

Owing to the growing demand for short courses and advice in the field of home economics, a Home Economist was appointed to the staff in May. It is interesting to note that the greatest number of requests has come from rural areas, particularly for information on handicrafts, home decoration and methods of freezing fruits and vegetables.

During June, a demonstration was given at Cedar, Vancouver Island, to the local Women's Institute. Here the chief emphasis was on handicrafts, glove-making and leather work. In July, the Home Economist made a tour of Illustration Stations on Vancouver Island with Mr. R. Hall, of the Dominion Experimental Farm, Agassiz. The centres visited were Cherry Creek, Courtenay, Duncan and Fairbridge Farm. The general interest at these points was in handicrafts and home decoration, particularly in the making of upholstery and slip covers.

## INSTITUTES, CONFERENCES AND SHORT COURSES

*The Community Centres Institute: January 21-22, 1946*

During the Fall of 1945, there came to the Department a steadily increasing flow of requests for information and advice on community centres and on recreational activities in general. It was discovered that the Department of Social Work, too, was becoming concerned about the rapid growth

or interest in community recreation. As a result, a community centres institute was announced, sponsored jointly by the Departments of Extension and Social Work. Proof of the need for assistance felt by volunteer "Organizers" as well as by paid recreation workers was evident in the registration of 110 people, representing about 30 communities in the Province.

After two days of concentration on basic principles of community centre organization, members elected the Interim Community Centres Committee to assist the University authorities in planning a longer summer conference, and to look into the possibilities of forming an association of those interested in community centre activities in B. C.

#### *The Community Centres Conference: June 24 - 27, 1946*

Many of those who attended the first Institute were able to return to take part in this "follow-up" conference, planned by the Departments of Extension and Social Work, in co-operation with the Interim Committee. In all, 77 persons attended, again representing many areas of the Province.

Miss Marjorie V. Smith served as general co-ordinator of the Conference. Most of the organizations in B. C. which are interested in group work and community recreation were represented at the meetings, and gave freely of their experience and specialized knowledge. In this connection, mention should be made of the whole-hearted co-operation of the Secretary of the Group Work Division of the Greater Vancouver Welfare Council, and of the Provincial Director of Physical Education and Recreation.

It is felt that the Conference served a very important purpose in giving direction and assistance to the developing community centre movement. Besides providing opportunity to those who attended to find practical aid on their particular problems, the sessions proved conclusively the need for some co-ordinating organization to enable joint consultation and action on the part of those interested in community recreation. As a result, on the third day of the Conference, the B. C. Community Centres Association was formally established. It is expected that close contact will be maintained between the University and this new organization.

#### *Vancouver Parents' Institute: June 19 - 20, 1946.*

Held in cooperation with the B. C. Parent-Teacher Federation, the Vancouver Parents' Institute proved as popular as ever with almost 200 in attendance at various sessions. Among this year's speakers were Dean Buena Maris, Oregon State College; Dr. C. H. Gundry, Director, Mental Hygiene Division, Metropolitan Health Committee; and Dr. Elda Lindenfeld, psychiatrist. Two panel discussions, one entitled "Teen-Agers Today", the other, "Co-operative Play-Schools", served to air topics which have been gaining increasing attention among parents and educators.

#### *Victoria Parents' Institute: May 9 - 10, 1946.*

About 75 parents registered for the Institute held in Victoria. Fortunately, it was possible to secure Dr. S. R. Laycock, internationally known psychologist, for two of the sessions; Dr. R. F. Hawk, Director of Campus Schools and Student Teaching at the Western Washington College of Education, gave an outstanding lecture on "Modern Trends in Education"; and to meet the interest in community recreation, Miss Donaldia McRae led a session on this topic.

#### *Short Course for Seed Growers: January 29 - February 1, 1946.*

Arranged in co-operation with B. C. Seed Growers' Association and the Provincial Government, this course again drew students from practically all the seed-producing areas of the Province. Total registration was 41.

#### *Short Course for Fruit and Vegetable Canners: February 18 - 22, 1946.*

A continuation of last year's course, this series of lectures, discussions and demonstrations was attended by 97 men and women from the canning industry.

## LIBRARY AND PAMPHLET SERVICES

The chief expansion in the Extension Library Service during the past year was in the number of readers registered with the Library. Four hundred persons registered and borrowed some 5,000 books on a wide variety of subjects. The demand was still great for fiction and travel books. About 250 new titles were added to the collection, among them a number on interior decoration and home building, to be used with the new study material on Home Decoration.

Members of Extension study groups and Citizen Forum groups were supplied with books and pamphlets. Sample parcels of books also went to approximately 60 people during the year.

The pamphlet collection was in constant use. Especially noticeable was the demand for material on community recreation activities and child psychology.

## VISUAL INSTRUCTION SERVICE

Since September, 1945, there has been no shipment of motion picture films to the armed services. However, the increased circulation to schools, churches, and other organizations has more than compensated for this loss. In the past year the division has served 138 schools, and 589 other organizations. This is a total increase of 115 over the previous year. Some groups, which have acquired their own projection equipment, are now arranging for regular programmes.

The inventory of the library now stands at 90 sets of lantern slides, 950 film strips, and 750 motion picture titles. There has been a heavy demand upon the projection equipment which the Division has available for rental.

Late in 1945, the Extension Department agreed to act as the co-ordinating agent for the B. C. Co-operative Film Library Exchange. Under this plan, initiated and organized by the representatives of the National Film Board, any community in British Columbia which has an active film council may become a member. Each centre receives approximately 15 films from the National Film Board, which it retains for a period of two months. At the end of this time the films are exchanged with the deposit at another centre. In this way each centre receives from 75 to 90 films per year. Since the inception of the plan in October, 1945, the membership has grown from seven to fifteen centres.

The Director continued to serve as Regional Agent for the National Film Board rural circuits in British Columbia. During the major part of the year, six circuits were in operation, covering the following areas: Vancouver Island and the Lower Mainland; the North Thompson; the South Okanagan; the West Kootenays; the East Kootenays, and the Prince George-Prince Rupert territory. Owing to the increasing emphasis on adult education in the Film Board program, the field representatives were called in periodically to attend conferences at the University. In informal sessions they learned something of the technique of community organization, acquired practice in public speaking, became more fully aware of the facilities available to the people in their territory through the University Extension Department, and met with government officials and others whose interest and experience had a bearing on their work.

## SUMMER COURSES

### *Summer School of the Theatre.*

The Summer School of the Theatre offered both a senior and junior course. For the first time credits in dramatics were given properly qualified undergraduate students. Guest director for the school was Mr. Theodore Viehman, well-known university professional and community director in the United States. Other guest instructors in charge of classes were Mrs. Elsie Graham, Mrs. Vivian Ramsey, Mrs. Jessie Richardson and Mr. Jack McCance.

Sixty-five students registered for the School, seven of them from provinces or states other than British Columbia. Three plays were produced. Two one-act plays: "Interior", by Maurice Maeterlinck, and "Mr. Fothergill Joins the Angels", by William Dinner, were presented during a noon-hour period to the students of the Summer Session. "I Remember Mama", by John Van Druten, was presented at the close of the School in two public performances.

The School was most successful. Two needs, however, became apparent while it was in progress: the duration of the School should be extended to seven weeks; a full time Summer Session instructor in scenery and stage-crafts is needed to ensure efficient operation.

### *Summer Course in Radio Writing*

This course was offered under the direction of the well-known Canadian radio-writer and actor, Mr. Lister Sinclair. It was given in co-operation with the Vancouver studios of the Canadian Broadcasting Corporation, students of the course taking production classes for three or four hours each week at CBR. Personnel and facilities of the CBC were placed at the disposal of the course.

The course was very successful. Forty-one students were accepted, some coming from other provinces and some from the United States. Because of a limitation on numbers, many students had to be refused admission. Over a dozen of the scripts produced in the course have been recommended by Mr. Sinclair for production over the CBC network.

### *Summer Course in Music Appreciation.*

In view of the many musical attractions offered on the Campus during the summer, it was decided to discontinue the free noon-hour lectures on music appreciation previously arranged by the Department in co-operation with the Director of the Summer Session and the Summer Session Stu-

dents' Association. Instead, Dr. Ida Halpern gave a short course on "What is Modern Music?" Fifty students were registered.

#### *Summer Course in Painting for Pleasure*

This course was an innovation on the campus. It consisted of picnic sketching parties under the supervision of two Vancouver artists, Mr. B. C. Binning and Mr. Jack Shadbolt. Because of the great popularity of the course it had to be divided into two sections, with twenty-five students in each. Even then students had to be turned away.

At the conclusion of the course an exhibition of students' work was hung in the foyer of the University Auditorium.

#### *Workshop in International Relations.*

While the registration for this second Workshop was comparatively small — a total of nineteen students attended the full course — there was cause for satisfaction in the variety of background of those enrolled and in their serious approach to the work. Seven students came from the United States — Massachusetts, Indiana, New Jersey and California, two came from other Canadian provinces, and the rest from B. C. Nine were teachers, five were students, and the others of varying occupations.

Dr. Warren E. Tomlinson, head of the Department of History and Political Science at the College of Puget Sound, Tacoma, was again director this year. He was assisted by specialists in various fields who were present for the regular Summer Session.

Workshop sessions were held each morning for five weeks and, in addition, considerable outside study was essential. Several students gained university credit for the course.

#### *Workshop in Intercultural Relations.*

This new Workshop, conducted on an experimental basis, was an outstanding success. Late last spring, the Vancouver Institute for Inter-Racial Friendship suggested that the University sponsor a course in intercultural relations. The Institute itself, interested in educational work in this field, agreed to subsidize the course if necessary.

Dr. Melville Jacobs, professor of anthropology at the University of Washington, was engaged as Workshop Director, and he in turn secured the assistance of three outstanding authorities on race relations: Mr. Edwin C. Berry, Negro director of the Urban League of Portland; Mr. Lawrence I. Hewes Jr., of the American Council on Race Relations; and Professor Elmer Smith, of the University of Utah.

Expecting a registration of not more than 30 people, the Department was pleased when 110 enrolled as regular students for the two-week course. The class itself was rather unusual: it was composed of people of all colours, representing about twenty-five nationalities. For many of these, the Workshop was their first contact with the University.

Classes took the form of lectures on the scientific background of knowledge on race, and on immediate problems in race relations. Discussion and questions came freely.

A rather remarkable development was the impact of the Workshop upon the community as a whole. During the session, the lecturers spoke to various clubs and other organizations, gave newspaper interviews and radio talks. Comment on the Workshop itself and on our local race problems was wide-spread throughout the City.

## EDUCATIONAL PROGRAMME FOR BRITISH COLUMBIA FISHERMEN

The field workers employed under the grant from the Federal Department of Fisheries have continued to play their part in the steady development of the co-operative movement on the Pacific Coast.

An outstanding feature of the year's work has been the close working relationship between the field workers and the various co-operative organizations. A practical example of this was the series of six weekly talks on fish handling and preservation, which was arranged in co-operation with the United Fishermen's and Allied Workers' Union, the Fishermen's Co-operative Federation, the Pacific Fisheries Experimental Station, and the International Pacific Salmon Fishery Commission. The lectures were attended by a total of 200 fishermen and their subject matter was made available to many others through the medium of *The Fisherman*. The field staff has also worked closely with the Co-operative Union of B. C., and with the B. C. Credit Union League.

Films, charts and pamphlets have been the chief educational media used. Lectures and meetings with co-operative executive groups have been held in many coastal communities, and a continuous advisory service maintained.

Mr. Breen Melvin, who left the Department in June to accept a position as Secretary of the British Columbia Co-operative Union, was replaced by Mr. Douglas Clark, an honours graduate in History from the University of British Columbia.

## PUBLIC RELATIONS

The year has seen a steady expansion of the work in public relations. Mr. Arthur Sager, the assistant in Public Relations, who was appointed in July of last year, divides his time between the Extension Department and the President's Office.

Continuing its former practice, the Department prepared a monthly News Sheet, which has been sent this year to approximately 1100 people, on their specific request. Letters and appreciative comments testified to the value of this means of keeping those interested in touch with new developments at the University. The News Sheet's second page, highlighting some aspect of university work, was often reprinted in local papers.

Regular daily press releases were issued to the three local newspapers, and releases of more general interest were sent to all the B. C. daily and weekly newspapers. In all, 90 publications in the Province were in receipt of regular releases about the University. Every attempt was made to prepare stories of particular interest to the locality in which the paper was published. In addition, all B. C. radio stations, the Alumni Association, Canadian university newspapers, and several national magazines received releases. Special stories were also sent to many trade journals which requested information about university work in their particular field. *The B. C. Teacher, Country Life, B. C. Digest, B. C. Journal of Commerce, Construction World, Electrical News, Western Miner,* and the *Canadian Food Packer*, were only a few of the publications in which articles on the University appeared. Altogether, about fifty such articles were prepared.

An offer of radio time from the B. C. Parent-Teacher Federation resulted in a series of weekly, fifteen-minute radio programmes, broadcast over CJOR during the 1945-46 Summer Session. These gave publicity to the various summer courses sponsored by the Department, and featured special lecturers and visiting professors.

Following correspondence with the editors of *Time Magazine*, a representative visited the campus to prepare an article for this periodical. This article, which appeared in the Spring of this year, was printed in the international edition of the magazine and attracted considerable attention. Assistance has also been given to other writers for national publications. It is expected that articles about the University will appear this Fall in *MacLean's*, the *National Home Monthly*, and the *Montreal Standard*.

The Department has given full support to the Alumni-Student campaign for a U.B.C. War Memorial Gymnasium. The Public Relations Assistant acted as Chairman of the Publicity Committee during the first six months of the drive.

Full publicity through news releases and advertising has been given to all special university events during the year. The Assistant was responsible for the preparation of the University float in the Vancouver Diamond Jubilee Parade. By means of publicity given to the need for housing for student veterans, the serious shortage of accommodation has been considerably eased. Vancouver newspapers have given their utmost co-operation in this regard.

Other members of the Department have maintained close relationships with a great variety of organizations and government agencies. The Director himself has been associated with the following adult education bodies: the Vancouver Institute; the Adult Education Committee of the Vancouver Y.M.C.A.; the Regional Committee, Canadian Legion Educational Services; National Farm Radio Forum; the National Council of Citizens' Forum; the Canadian Association for Adult Education; and the National Film Board. The national conference on "Planning Community Programs", called by the Canadian Association for Adult Education last May, was attended by the Director and two Assistants.

## STAFF

There have been two major developments with respect to staff this year.

Mr. Robert J. Boroughs, honours graduate of history (U.B.C.), was appointed Assistant to the Director, to replace Mr. Robert T. McKenzie, who resigned to accept a position as Assistant Director of the Canadian Association of Adult Education.

To meet the need for assistance in the field of handicrafts and home economics, Miss Eileen Cross was appointed to take charge of this section of the Department's activities.

## ACKNOWLEDGMENTS

The Director wishes to express his appreciation to all who have contributed so generously towards the Extension programme of the University.

New and expanded programmes have been made possible only through the persistent and enthusiastic effort shown by all members of the staff of the Department.

Respectfully submitted,

G. M. SHRUM,

Director, Department of University Extension.

*Report of*

## **The Director of The Special Winter and Spring Sessions**

During the academic year 1945-46 two special sessions were conducted. In each of these, attendance was restricted to ex-service personnel and ex-members of the Merchant Navy.

Although the Special Winter Session, which extended from January 7th to May 1st, 1946, overlapped the second term of the Regular Session, a separate group of classes was organized. Instruction was given in the Faculties of Arts and Science, Applied Science and Agriculture, and twenty-seven courses were offered. A few special students registered for Law Courses. In the Faculty of Applied Science, courses were so arranged that, by attending the Special Winter, Special Spring, and Summer Sessions, students were able to complete the Second Year (old numbering). In the Faculties of Arts and Science and Agriculture, students were permitted to register for not more than nine units. The total attendance was approximately 2000.

The Special Spring Session extended from May 6th to June 28th, 1946. In Applied Science, the Second Year subjects were continued, and in the Faculties of Arts and Science and of Agriculture thirty courses were offered. In the latter two Faculties, students were permitted to register for not more than six units. Registration was slightly in excess of 2000.

In both sessions results were very gratifying. In the Spring Session, however, the strain of continuous attendance and relatively concentrated courses began to be evident.

This brief report would not be complete without a word of appreciation for the instructors and the members of the Administration, who, by their cooperation, overcame many difficult problems.

Respectfully submitted,

WALTER H. GAGE,

*Director, Special Winter and Spring Sessions.*

*Report of*

**The Director of The Summer Session**

The twenty-seventh Summer Session ran from July 2nd to August 16th, 1946. The enrolment was much the largest in the University's history, as indicated in the following tabulation:

*Summer Session Enrolment*

	1946	1945	1944
Partial - - - - -	—	—	15
First Year - - - - -	688	260	53
Second Year - - - - -	794	278	145
Third Year - - - - -	445	132	59
Fourth Year - - - - -	240	81	64
Graduates - - - - -	198	110	105
Auditors - - - - -	13	17	8
Total	2,378	878	449

In addition, three students enrolled for occupational courses in Agriculture.

The offering was made up of 50 full (3 unit) courses and 4 half (1½ unit) courses, as compared with 31 full and 4 half courses in 1945. In addition, large enrolments made necessary the division of several courses into sections, so that instruction was provided in a total of 69½ units, not including courses in Applied Science to which no unit value is assigned.

The popular policy of inviting professors from other universities to lecture was continued. The following institutions were represented in the Summer Session of 1946: Boston University; University of California; University of Southern California; Columbia University; University of Minnesota; University of Saskatchewan; Victoria College; University of Toronto; University of Western Ontario; College of Puget Sound.

An important change in the method of administering the Summer Session was inaugurated for 1946, with the establishment of the Summer Session Committee. This Committee consists of the President, the Deans of the Faculties offering courses in the Summer Session, the Assistant Dean of the Faculty of Arts and Science, the Registrar, the Director of the Department of University Extension, the Director of the Summer Session, and other members of the staff chosen from time to time. The Committee formulates policy and considers all important administrative matters. It has already proven to be a valuable aid to the operation of a useful and efficient Summer Session, and gives promise of becoming even more valuable in the future.

The programme of the Summer Session was, as usual, enlivened by a number of special features. The Department of University Extension offered courses in Dramatics, Radio, Art, Music Appreciation, and a Workshop in International Relations. The Summer Session Students' Association sponsored a number of noon-hour entertainments.

The successful operation of such a large Summer Session would not have been possible without the willing and efficient co-operation of a large number of members of the staff. In particular the contributions of the Registrar and the Assistant Dean of the Faculty of Arts and Science are greatly appreciated.

Respectfully submitted,

M. A. CAMERON,  
*Director, Summer Session*

*Report of*

## The Chairman of The Joint Faculty Committee on Prizes, Scholarships and Bursaries

In no single academic year, probably, has the University received more donations in the form of new prizes, scholarships, bursaries and fellowships than it did during 1945-46. To the donors of these awards we are deeply indebted, but to none more than the Vancouver Men's Canadian Club which, under the guidance of Mr. J. A. Campbell, K.C., conducted a campaign resulting in the establishment of 26 new awards having a total annual value of \$5,250.

The following is a brief summary of new awards established during 1945-46. Donations received through the Vancouver Men's Canadian Club are marked with an asterisk.

### FELLOWSHIPS

- The Candian Industries Limited Fellowship—open to graduates in Agriculture, Chemistry, Chemical Engineering, Forestry, Forest Engineering, Mining and Metallurgy.  
Annual value - - - - \$750
- The Standard Oil Company of British Columbia Fellowship—open to graduates in Chemistry or Chemical Engineering.  
Annual value - - - - \$1,100
- The Shell Oil Fellowship for Research—open to graduates in Chemistry, Chemical Engineering, Geology, Geophysics, Mechanical Engineering, Physics.  
Annual value - - - - \$925

### SCHOLARSHIPS

- The Dorothy and William Dorbils Scholarship—open to graduates in the humanities and pure science for three years of graduate study. First award to be made every four years, beginning May, 1950.  
Value - - - - \$2,000
- The Shanahan's Limited Scholarship—open to graduates in Chemistry or Chemical Engineering for research in colloidal chemistry.  
Annual value - - - - \$500
- The British Columbia Sugar Refining Company Limited Scholarships—open to undergraduates in their final year or graduates in the fields of Agriculture, Bacteriology, Biology and Botany, Chemistry, Fisheries, Home Economics, and Zoology.  
Total annual value - - - - \$2,500
- \*The John Inglis Company Limited Scholarships—two scholarships for students in second year Applied Science, who intend to specialize in Mining or Metallurgical Engineering.  
Total annual value - - - - \$250
- \*The Vancouver Daily Province Scholarship—an award for proficiency in the study of Government, open to third year students.  
Annual value - - - - \$250
- \*The Burbidge Scholarships, donated by Mr. P. W. Burbidge—two scholarships open to students taking honours in Mathematics and Physics and proceeding to the fourth year in the Faculty of Arts and Science.  
Total annual value - - - - \$250
- \*The Woodward Scholarships, donated by the Honourable W. C. Woodward—two awards open to third year students in Commerce for proficiency in Advertising and Marketing.  
Total annual value - - - - \$250
- \*The Hogarth Scholarships—two awards donated by Major-General D. M. Hogarth, Toronto, for proficiency in the third year of Agriculture.  
Total annual value - - - - \$250

*The Lambert Scholarship, the gift of Brigadier Noel D. Lambert—an award for proficiency in the third year of Civil Engineering.	Annual value	-	-	-	-	\$200
*The Canadian Forest Products Limited Scholarships—two scholarships for proficiency in the third years of Forest Engineering.	Total annual value	-	-	-	-	\$300
The Cunningham Scholarship, the gift of Mr. George T. Cunningham—an award for general proficiency in the third year of Pharmacy.	Annual value	-	-	-	-	\$100
*The Norgan Scholarships, the gift of Mr. George C. Norgan—three scholarships in the first year of Law and three in the second year of Law, awarded for general proficiency.	Total annual value	-	-	-	-	\$900
*The General Construction Company Limited Scholarships—						
(a) Graduate scholarship for Civil Engineering.	Annual value	-	-	-	-	\$300
(b) Proficiency scholarship for the second year of Applied Science.	Annual value	-	-	-	-	\$200
The Alaska Pine Company Limited Scholarships—						
(a) a scholarship for highest standing in the third year of an Honours Course in Economics.	Annual value	-	-	-	-	\$150
(b) a scholarship for proficiency in the third year of an Honours Course in Chemistry.	Annual value	-	-	-	-	\$150
(c) a scholarship for general proficiency in second year Commerce.	Annual value	-	-	-	-	\$150
(d) a scholarship for general proficiency in the third year of Forestry (B.S.F. Course).	Annual value	-	-	-	-	\$150
*The B. C. Drugs Limited Scholarship for general proficiency in the second year of Pharmacy.	Annual value	-	-	-	-	\$100
The Pharmaceutical Association of the Province of British Columbia Scholarship—an award for the student obtaining the highest standing in the practical examination for admission to the second year of Pharmacy.	Annual value	-	-	-	-	\$100
The R. J. Pop Scholarship in Zoology—an award for proficiency in the third year of the Honours Course in Zoology.	Annual value	-	-	-	-	\$150
The Summerland Scholarship, donated by the citizens of Summerland—an award for a student of Summerland High School who is proceeding to the University.	Annual value	-	-	-	-	\$250
The Crofton House Alumnae Scholarship—an award for a student of Crofton House School who is proceeding to the University.	Annual value	-	-	-	-	\$175

## BURSARIES

*The Pattison Bursaries, donated by Mr. J. W. Pattison—two awards available for students entering, or intending to enter, the Social Work Course.	Total annual value	-	-	-	-	\$200
*The Teamsters' Joint Council No. 36 Bursary—available for the son or daughter of a member of the International Brotherhood of Teamsters in B. C.	Annual value	-	-	-	-	\$250
*The Lauder Mercer and Company Limited Bursary—available for a male student entering the final year of Commerce.	Annual value	-	-	-	-	\$250

*The Robert S. Day and Son Limited Bursary—available for a student completing the third year of Commerce.	Annual value	- - - -	\$150
The United I.O.O.F. Bursaries, donated by the Grand Lodge of B. C., the Grand Encampment, and the Rebekah Assembly—six awards available for students in various parts of the Province.	Total annual value	- - - -	\$1,200
The Nat Bell Bursary, the gift of Mrs. Angela Bell—available for a student in any year of any Faculty.	Annual value	- - - -	\$150
The W. D. Shaffer Bursary, the gift of Miss Marion Shaffer—available for students in the Teacher Training Course.	Annual value	- - - -	\$200
The Kiwassa Club Bursaries—four awards open to students proceeding to the course in Public Health Nursing or the Professional Course in Social Work.	Total annual value	- - - -	\$600
The Provincial Council of British Columbia, Canadian Daughters' League, Bursary — a second bursary offered by this organization for students entering Teacher Training or Social Work.	Annual value	- - - -	\$100
The R.C.A.F. Veterans' Bursary Fund—an annual bursary provided from the sum of \$10,000 donated to the University by the Wartime Convalescent Homes, War Charity Funds, Incorporated, Vancouver Division—available for R.C.A.F. Veterans.	Annual value	- - - -	\$300
The Jack Cohen Bursary, the gift of Mr. S. J. Cohen — available for a student entering the fourth year of Commerce.	Annual value	- - - -	\$150
The McLean Bursaries—four awards donated by Mr. and Mrs. J. S. McLean of Toronto, and available for students whose homes are in remoter parts of the Province. For the Session 1946-47 only.	Total value	- - - -	\$1,000

## PRIZES

*The Northern Electric Company Limited Prize—an award for proficiency in the final two years of the Course in Electrical Engineering.	Annual value	- - - -	\$100
*The Canadian Forest Products Limited Prizes—two prizes for general proficiency in the final two years of the course in Forest Engineering.	Total annual value	- - - -	\$200
*The Cunningham Prize in Pharmacy, the gift of Mr. George T. Cunningham—an award for proficiency in all years of the course in Pharmacy.	Annual value	- - - -	\$50
*The Norgan Essay Prize, the gift of Mr. George C. Norgan—an award for the best essay submitted by a student in the third year of the Law Course.	Annual value	- - - -	\$100
The Pharmaceutical Association of the Province of British Columbia Prize—an award for proficiency in the graduating year of Pharmacy.	Annual value	- - - -	\$50
The Carswell Company Limited Prizes—three book prizes, one in each year of the Law Course, for general proficiency.	Total annual value	- - - -	\$60
The H. R. MacMillan Export Company Limited Prizes—three first and three second prizes for the best reports on topics in Forestry.	Total annual value	- - - -	\$750

The Essay Prize in International Relations—an award provided from the income of a trust fund, established by an anonymous donor; the prize to be given for the best essay submitted in the Faculty of Arts and Science on a topic dealing with International Relations.	Annual value	\$30
The Ingledow Prizes, donated by Mr. T. Ingledow — two awards for proficiency in third and fourth year laboratory courses of Electrical Engineering.	Total annual value	\$100
The Llewellyn Jones Prize in Zoology, donated by Mr. J. R. J. Llewellyn Jones, Cobble Hill, B.C.—an award for proficiency in Zoology.	Annual value	\$50
The Dr. D. A. McKee Memorial Prize—an award provided by the income from a trust fund donated by Mrs. D. A. McKee, and given for proficiency in the third year of Agriculture.	Annual value	\$30
The British Columbia Packers Limited Prizes in Fisheries—four prizes offered during the Session 1945-46 for essays dealing with phases of the fishing industry.	Total value	\$300
The W. Dafoe Foundation Prizes—two prizes offered during the Session 1945-46 to undergraduates registered in the third or fourth year in Economics or History.	Total value	\$200
The Canadian Institute of Mining and Metallurgy (British Columbia Section) Prize—an award offered during the Session 1945-46 for the best Master's Thesis in the field of Mining, Geology, or Metallurgy.	Value	\$100

#### INCREASE IN VALUE OF EXISTING AWARDS

The Mary C. Lipsett Bursary, the gift of Mrs. Mary C. Lipsett—increased from \$250 to \$300.	An annual increase of	\$50
Bursary for Proficiency (Special Award), the gift of an anonymous donor—the original donation of \$1,000 increased to \$1,500.	An increase of	\$500

## OUTSIDE AWARDS

During the year several scholarships, awarded by outside institutions and discontinued during the period of the War, were re-established. Among these are the Rhodes Scholarship, the Imperial Order of the Daughters of the Empire War Memorial Scholarship (Overseas), and the French Government Scholarships. In addition, several new awards, including the Imperial Oil Graduate Research Fellowships, and the Law Scholarships provided by the Viscount Bennett Trust Fund, were made available for students in Canadian Universities.

## STUDENT AID

As in previous years, financial assistance for deserving students was provided by the various "named" bursaries and scholarships, the Special Bursaries Fund, and the Dominion-Provincial Student Aid and Provincial Loan Fund. Approximately 50 students, representing 15 different centres of the Province were given Special Bursary awards totalling \$6,600. Over 180 students, from 60 different centres of the Province, received aid from the Dominion-Provincial Fund, amounting approximately to \$23,000 in bursaries and \$15,000 in loans. It should be mentioned, that of each award from the Dominion-Provincial Fund, 60 per cent was given as a bursary and 40 per cent as a loan. Repayment of the loan is not required until one year after the student enters gainful employment, and until then, no interest is charged.

## CONCLUSION

The Committee wishes to take this opportunity of expressing to Colonel F. T. Fairey, Deputy Minister of Education, its gratitude for his generous assistance, especially in regard to the Dominion-Provincial Student Aid Funds. In spite of his heavy duties, Colonel Fairey found time to be present at all the interviews with applicants for this aid. His sympathetic consideration of the needs of worthy students is greatly appreciated.

The Committee also wishes to thank the President, the Board of Governors, the Senate, and the Members of Faculty, for their cooperation. Special acknowledgment should be made of the efficient assistance given by the staffs of the Registrar's and Bursar's offices.

Respectfully submitted,

WALTER H. GAGE,

*Chairman, Joint Faculty Committee on Prizes,  
Scholarships and Bursaries.*

## *Report of*

# **The Director of The University Health Service**

In October, the Health Service moved into a hut which was quickly renovated and equipped to accommodate the increased number of students appearing for examination, consultation, etc. Our programme calls for the physical examination of all new students and the re-examination of second year students for compulsory physical education. Ex-service personnel are not required to have a medical examination on entrance but are required to fill out the Health Card and in certain instances such students are called in for special examination or consultation. However, after nine months at the University, ex-service students are asked to report for routine check-up and this programme developed during the spring months of the session. As in previous years the professional staff of the Metropolitan Health Department, Vancouver, assisted in the medical examination of new students during the fall term. We were also very glad to have the services of Dr. E. H. Cooke as a full time physician during the last three months of the regular session. In January, 1946, Miss D. Ladner was appointed full time Assistant Public Health Nurse and Mrs. Jean Worrall continued during the regular session as Sessional Public Health Nurse. Miss Ladner also took over the duties of Public Health Nurse to the University Hill School which comes under our jurisdiction.

We are also glad to welcome back Dr. C. H. Gundry, Mental Hygienist of the Metropolitan Health Department and Director of School Medical Services, who had been on leave of absence for war service. Dr. Gundry resumed his work in the Health Service to interview students referred for personality and psychiatric problems.

Mrs. K. Farstad carried a heavy load as clerical assistant most acceptably and we were pleased to have the services of Mrs. Helen Seman in the office during the visit of the Mobile Chest X-ray Unit.

The President's Health Committee functioned this year and several meetings were held. Together with Dr. C. E. Dolman, head of the Department of Bacteriology and Preventive Medicine, a survey of eating places in the area was carried out and recommendations regarding sanitary measures were presented to the Committee. We are very pleased to report that many of the essential points in the recommendation have been carried out. At the end of the year there are seven eating establishments in operation and it is to the credit of the operators and the Building Department that although the buildings in some cases were hurriedly constructed yet the overall sanitary pattern and performance was not neglected.

The rapid housing development in the area, especially Acadia Camp causes some concern. Sewage disposal, although temporarily taken care of by septic tanks, should be serviced by trunk sewers as soon as possible. We are pleased to learn that such installations should be available before the fall.

During the summer months the Health Service established a Child Health Centre at Acadia Camp for mothers with babies and young children. This clinic will operate at monthly intervals and we are grateful to the voluntary service given by ladies of the University Area.

The professional staff of the Metropolitan Health Department gave 37 lectures and talks to students in the Departments of Nursing and Health, Home Economics, Social Service and Physical Education. Students in the Department of Nursing and Health receive field instruction with the Metropolitan Health Department.

Apart from routine physical examinations students report to the office for first aid and emergency treatment, students sick on the campus also report and students absent because of illness report before going back to class. Sick students may also be excused from physical education classes. Students, contacts of communicable disease at home or elsewhere, report to the office before admission to class, and various biological tests and immunizations are offered as a protection against communicable diseases. At the request of private physicians, students are also given various tests and injections as a convenience to the student. Sick students requiring treatment are referred to practicing physicians or to hospital and in this connection we have cooperated with Shaughnessy Hospital and the Department of Veterans' Affairs in the examination and referral of ex-service students. One of our major problems is the boarding home care of sick students, who do not require active hospitalization but do require a few days in bed and some medical and nursing attention. In this connection an infirmary service on the campus is badly needed.

During the winter session the D.V.A. established a Dental Office at the University with a full time dentist and staff for the convenience of ex-service students. This is a real service and saves considerable time for students requiring dental attention.

Altogether there were 24,936 office visits to the Health Service during the year, a one hundred per cent increase over the number last year.

Highlighting the year's activities was the visit of the Mobile Chest X-ray Unit provided by the B. C. Tuberculosis Society and the Division of T. B. Control, Provincial Board of Health—this service begun and carried out through purchases of Christmas Seals. Residents of the University Area and University staff and employees were also invited to have a chest X-ray. Altogether 4745 were examined during the survey of which 4222 were students. This represents a very good response, particularly as many of the students are ex-service recently registered and with a discharge chest X-ray. Even so, many of these students appeared for an X-ray. No fewer than 5 ex-service students were found to have active tuberculosis before the visit of the unit in February, 1946, and a yearly X-ray will be carried out for all students if facilities and time permit. A great deal of the success of this campaign is due to the students themselves through their organizations and University papers. Many students gave part time voluntary assistance.

In March, 1946, a virulent smallpox epidemic struck in the State of Washington. Special vaccination clinics were held in Vancouver, and at the University all but emergency work stopped for a week or so to accommodate persons appearing for vaccination. Altogether 1714 vaccinations were done and in this connection we must thank Dr. L. Ranta of the Department of Bacteriology and various student public health nurses of the Department of Nursing and Health for their assistance, generously given at this time.

In conclusion, the Health Service desires to express its appreciation to the President, Faculty and staff members and the various Divisions of the Provincial Board of Health for valued assistance and guidance.

Respectfully submitted,

J. S. KITCHING, M.D.,  
*Director.*

M. UPSHALL, B.A.Sc.,  
*Public Health Nurse in Charge.*

## Report of

# The Director of Physical Education for Men

For the first time in the history of the University a physical education activity programme of two hours per week was required of all first and second year students with the exception of ex-service-men and members of military units operating on the campus.

Although compulsory physical education was not officially authorized until September 24, 1945, the attitude of the students in general was surprisingly good with the result that a varied programme was soon put into effect.

The following classes were available for men:

1. Physical Training—16 sections.
2. Beginners' Games and Sports—2 sections.
3. Beginners' Gymnastics—1 section.
4. Square and Ballroom Dancing—2 sections.
5. Tumbling and Apparatus—2 sections.
6. Volunteer Instructors Corps—2 sections.
7. Swimming—2 sections.
8. Boxing—2 sections.
9. Fencing—2 sections.
10. Archery—1 section.
11. Golf—2 sections.
12. Body Building (Weight Lifting)—1 section.
13. Badminton—1 section.
14. Track and Field—1 section.

Number of men satisfying regulations—740.

Number of men passed conditionally—16.

Number of men excused for medical reasons—87.

Number of men excused medically but taking modified work—40.

Number of men excused for special reasons—5.

The lack of desired facilities was to some extent obviated by using the Crystal Pool for swimming classes and the Armoury for badminton, archery, and fencing, and by enrolling large numbers in certain classes.

To assist the instructional staff to cope with the large numbers, part-time instructors were employed for golf, fencing, and some of the physical training classes.

## INTRAMURAL SPORTS

The Men's Intramural Programme which was organized and directed by the Physical Education Department, enjoyed a successful year of active, keen participation.

A summary follows:

Number of teams competing—26.

Number of faculty groups—3.

Number of fraternities—12.

Number of other groups—11.

Number of different sports in which competitions were held—11.

Approximate number of competitors—650.

Since the intramural programme is capable of providing desirable recreation and athletic competition for such a large number of students, the Director feels that it ought to be expanded. Therefore, in 1946-47 he proposes to delegate the responsibility of directing the intramural athletic program to a member of the Physical Education Staff as a part of his assigned duties. It is expected that as the facilities are increased, the number of men participating can be doubled.

## ATHLETICS

Entrance into the Pacific Northwest Intercollegiate Athletic Conference has necessitated a close liaison with the student leaders in order to assist the Athletic Directorate with its expanding programme of intercollegiate athletics.

## TEACHER TRAINING

Three hours per week (one hour lecture and two hours practical) of instruction were given to five women and twelve men of the Teacher Training class. Arrangements were made with the Department of Education in Victoria to credit successful students with three units towards the Specialist's Certificate in Physical Education.

## SPRING AND SUMMER SESSIONS

Because of the large numbers attending the above sessions, it was considered desirable to keep the gymnasium open all summer and to make equipment available to meet the recreational needs of the many servicemen.

An experienced student was hired to supervise equipment and to assist the student organizations with their recreational programme.

## RECOMMENDATIONS

It is recommended that consideration be given to the desirability or necessity of having a Physical Education fee to provide for the following:

1. Locker and towel service.
2. Swimming and special activity privileges.

Respectfully submitted,

R. F. OSBORNE,

*Director of Physical Education for Men.*

*Report of*

## **The Director of Physical Education for Women**

A milestone of vital importance to the Department of Physical Education was passed during the session 1945-46 with the inauguration of two hours required physical activity for every first and second year woman student. This necessitated the services of two full time instructors—a director and an assistant—and two part time instructors. It also entailed a greatly extended programme to accommodate not only those students who were judged completely fit as a result of their medical examination, but also that large group of students who were not able to take part in a regular programme of physical activity.

Classes were organized to give instruction in the popular team games of grass hockey, basketball and volleyball, and in such individual sports as archery, fencing, badminton, tennis, table tennis, golf and swimming. In the last mentioned, opportunity was given and students were encouraged to take the examinations of the Royal Life Saving Society and so to qualify themselves for bronze, silver and instructor's awards. A small but enthusiastic number of women joined with the men for instruction in advanced tumbling and apparatus. It is hoped that this group will continue to work together during 1946-47 and will improve to the point where they will be able to represent the University in inter-collegiate competition. As rhythmic activity is particularly attractive to women, several forms of dance were offered, namely, folk, modern, old time square and couple dances, and ballroom. There was also a class in basic rhythmic using such small hand apparatus as clubs, balls and skipping ropes. Only one class was organized for keep-fit or traditional gymnastic exercise. This was done purposely to overcome the rather rampant antipathy to this type of physical activity which had developed as a result of the required War Work Programme in operation on the campus during the previous three years.

The total enrolment of first and second year students was 677. The vast majority attended their chosen classes regularly and participated with enthusiasm. 60 registered, but for one reason or another, failed to attend the required number of classes and so received a condition pass. Only a very few, 18, did not cooperate, failing to register for, or attend any classes whatsoever.

On the basis of the above figures, and from the general enthusiasm of the women students as they participated in their various activities, it would seem safe to say that two hours of physical education for first and second year students has been happily accepted as a requirement towards obtaining a degree from the University of British Columbia.

Besides the afore-mentioned classes, assistance was given by the staff in the organization and conduct of an extensive intramural sports programme. Round robin tournaments were played between faculty teams in the major sports of volleyball, basketball, tennis, badminton and table tennis. Knock-out tournaments were conducted in golf, archery, bowling and football. Further, successful meets were held in swimming and indoor and outdoor track.

Although student athletics comes largely under the direction of the Women's Athletic Association the women's director was consistently consulted on all matters of importance and the assistant director coached one of the hockey teams. It is hoped that, as a result of new appointments to the department, it will be possible to meet the student request that both basketball and hockey teams for 1946-47 be directed and coached by members of the physical education staff.

With regard to the teacher training students, as the number of women (5) was too small a group to work with alone, they joined with the men students for two hours of physical activity every Saturday morning. For the first time, arrangements were made with the Provincial Department of Education whereby the successful students in this class were able to receive three units credit towards their Specialist's Certificate in Physical Education.

In submitting this report I should like to state that the happy conclusion of this year's programme was achieved as a result of the wonderful cooperation received from all those whom it involved, students and staff alike, and particularly from the close harmony with which my assistant and I were able to work with the director and associate of the men students.

Respectfully submitted,

JEAN SLEIGHTHOLME,

*Director of Physical Education for Women.*

*Report of*

## The Director of The Veterans' Bureau and University Employment Bureau

The Veterans' Bureau was first established in the University on October 1st, 1945. Its purpose was to act as an advisory and counselling service for all veterans attending the University. This service had previously been under the guidance of Dr. G. M. Shrum, Director of the Department of Extension. Its activities were augmented in the beginning by the handling and disbursements of payments made under P.C. 5210, by checking attendance and academic standing of all student ex-service personnel and by keeping a close liaison with the Department of Veterans' Affairs. The staff of the Bureau consists of two full-time counsellors, two part-time counsellors, plus secretarial and stenographic help.

The offices along with the University Employment and Placement Bureau are now situated at the far end of the parking lot near the southwest corner of the Armouries.

During the year, every ex-service man and woman was personally interviewed by a counsellor before or soon after registration at the University.

### *Initial Interviews*

Regular Session and Winter Session Interviews - - - - -	3,192
Summer Session Interviews - - - - -	160
Special Spring Session Interviews - - - - -	552
Regular Session—September 1946, interviews as of October 1 -	1,200

### *Request Interviews*

October 1, 1945—October 1, 1946 - - - - -	6,000
Number requested to report because of poor attendance or academic standing - - - - -	450

Total number of interviews - 11,554

In cooperation with the Department of Psychology, the Bureau has carried out a testing program. Students whose academic record has been questionable, have been tested for interest, aptitude and achievement to the approximate number of 700. In addition, all veterans entering in the spring session and the summer session have been tested for general ability and for achievement in Mathematics, Physics, Chemistry and English. The value of this program in follow-up work has been such that it was decided to test all first year ex-service personnel entering the University in September 1946. This program has now been carried out and results are being tabulated.

Attendance and progress have been checked by securing reports from certain instructors in various faculties and years at four different periods in the regular session. This method has not proved entirely satisfactory because instructors have found it difficult to give an accurate report. This difficulty, it is hoped, will be overcome in the coming session through the cooperation of the Registrar's office. All students whose attendance or progress has been reported to be unsatisfactory have been interviewed individually and an effort has been made to help students in difficulty. This has been done by arranging for special tutorial classes, giving advice on how to study, arranging for more suitable living accommodations where possible, or in some cases advising students to take up occupational instead of educational training. Of students who found it necessary to withdraw, ninety per cent were either allocated to special training along vocational lines through the cooperation of the Department of Veterans' Affairs or were placed in Affairs or were placed in jobs.

The Bureau has handled and disbursed all cheques for students under allowances. The total number of cheques disbursed between October 1, 1945 and October 1, 1946 — 23,700.

## THE EMPLOYMENT AND PLACEMENT BUREAU

The Employment and Placement Bureau was established on March 1, 1946. At that time it took over from the Student Employment Bureau which had been in operation for some years. The efforts of the Bureau were at first directed to making all possible efforts to secure summer-time employment.

Figures are quoted below:

	<i>Male</i>	<i>Female</i>	
Total registrations for Summer Employment - - -	1,865	358	
Total registrations for Part-time Employment - - -	480	75	
Total registrations for Permanent Employment - - -	71	12	
Number of firms contacted by mail, telephone or personal visit — approximately - - - -			3,000
Number of jobs listed—Summer Employment - - -	1,793	281	
Number of jobs listed—Part-time Employment - - -	333	60	
Number of jobs listed—Permanent Employment - - -	84	34	
Permanent jobs filled - - - - -	28	19	

The following observations are noted:

(1) Registration for summer employment was much lower than expected. Lack of a central place for registration, large number of students attending Special Spring Session, and the difficulty of reaching the offices in the Armoury while examinations were in progress, were probably the main reasons here.

(2) Registrations and placements for graduates have been relatively small. In the early stages the Bureau concentrated entirely on vacation employment, but it is now in a position to handle permanent graduate employment, relying as formerly on the advice and consent of the various departments concerned.

(3) In cooperation with the Alumni Association, the Bureau has now undertaken to enter registrations and positions for former graduates of this University who may wish to make an advantageous change of position. To date 27 former graduates have taken advantage of this service.

Respectfully submitted,

JOHN F. McLEAN, *Director,*  
The Veterans' Bureau and  
University Employment Bureau.

## Report of

# The Commanding Officer, University Naval Training Division

### GENERAL

The ending of the War and the resultant changes in the policies of the universities, the Selective Service and the Naval Service, made the organization of the U.N.T.D. very difficult.

No peace-time policies had been formulated, and not only was it impossible to offer the members and prospective members any definite plans, but there was no assurance that the U.N.T.D. would be established on a permanent basis.

Under these conditions the numbers of members remaining in the Unit as well as the numbers of new entries were drastically reduced.

During the Session the Naval Service established the U.N.T.D.s as permanent peace-time officer Training Units. Men who successfully complete the four year training syllabus and pass the Officer Selection Board are commissioned as confirmed Sub-Lieutenants in either the Royal Canadian Navy or in the Royal Canadian Navy (Reserve). Comparatively few men will be selected for the R. C. N. and the remainder will enter the Reserve Group of qualified Naval Officers.

Assignment of Bounty Pay for parades during the University session was discontinued this year, so each man received the full amount earned by attending parades.

In February, a U.N.T.D. dance was held in the Officers' Mess of the U.B.C. Armories.

In March, Commander K. C. McRae, Commanding Officer of H.M.C.S. "Discovery", inspected the Unit and expressed complete satisfaction with the results of the Training.

The co-operation and assistance of the University Authorities and of the C.O.T.C. throughout the session was greatly appreciated.

### TRAINING

The Naval Service fixed the training during the session at 60 hours which was divided into 20 three-hour evening parades. All parades were held in the U.B.C. Armories as H.M.C.S. "Discovery" was fully occupied as a Naval Discharge Center. The Naval Service paid rental for the use of the Armories.

All men received the same training regardless of the University Course in which they were registered. The special training is given during the Spring Training period.

Most of the instruction was given voluntarily by two ex-Naval Officers who were students at the University.

The two-weeks' Spring Training period is compulsory in the U.N.T.D. and consisted this year of a cruise on H.M.C.S. "Charlottetown". The ship made three cruises in May and June and one in September to accommodate the U.N.T.D.s of the four Western Universities. On each cruise the ship visited Ketchikan, Alaska, and three or more Canadian ports.

Three men took advantage of the opportunity to remain on service for the full summer and served on H.M.C.S.s "Ontario", "Crescent" and "Charlottetown" in turn, thus obtaining experience on a cruiser, destroyer and frigate.

### RECORD OF ENLISTMENTS AND DISCHARGES

Old Hands on strength, September, 1945	-	-	-	14
New-entries, September, 1945	-	-	-	16
Total strength, September, 1945	-	-	-	30
Discharges during the session	-	-	-	4
Active Service with R.C.N., May, 1946	-	-	-	2
Total strength, May, 1946	-	-	-	24

### OFFICER CANDIDATES

At the end of the second year of U.N.D.T. Training, each man appears before a Preliminary Officer Selection Board and, if accepted, is rated as Officer Candidate with higher rates of pay for Spring and Summer Training.

This year, seven men out of eleven applicants were selected. The remainder are eligible to appear before a Board another year. In this way, immature men may develop with further training.

In May, two men were selected for the R.C.N. when they received their Degrees at Congregation.

Respectfully submitted,

LIEUT. CDR. (SB) H. M. McILROY, R.C.N. (R),

Officer Commanding, U.N.T.D., U.B.C.

## *Report of*

# **The Commanding Officer, Canadian Officers' Training Corps**

## GENERAL

This report covers the activities of the University of British Columbia Contingent of the Canadian Officers' Training Corps for the first year of peace following the Second World War.

The strength of the Unit on the 31st of March, 1945, was 27 Officers and 1019 Other Ranks. When training was made voluntary on September 24th, 1945, the strength of the Unit was reduced to 17 Officers and 73 Other Ranks. The University Naval Training Division continued throughout the year with ratings.

The detached company of the C.O.T.C. at Victoria College was disbanded on January 1st, 1946.

On the 19th of February, 1946, N.D.H.Q. authorized a change of command. Lt. Col. G. M. Shrum, M.M., who served as Commanding Officer from March 18th, 1937, to February 18th, 1946, was succeeded by Major R. W. Bonner on the 26th of February, 1946. Col. C. C. Ferrie, E.D., inspected the Unit and presented the Bren Shield to the winning team in the 39th (R) Brigade Skill at Arms competition.

On April 13th, 1946, Major R. W. Bonner was promoted to A/Lt. Col. and appointed to command the C.O.T.C.

On the 29th of January, 1946, a luncheon was held in the Officers' Mess in honour of General H. D. G. Crerar, C.H., C.B., D.S.O.

The Representative of the Director of Military Training, Major Murray MacDonald, visited the C.O.T.C. A number of Officers of the C.O.T.C. and Veterans attending U.B.C. were present at a luncheon with the representative of the Director of Military Training. An informal discussion of future Military Training was held after the luncheon.

## TRAINING

Parades were held on Tuesday nights when Officers and Cadets spent three hours on basic and advanced training. In addition to the regular Tuesday parades, a number of Officers and Cadets spent considerable time on the miniature range which was open daily, an instructor of the A. & T. Staff being present at all times. Sunday practices were held at Blair Range for the 39th (R) Brigade Group Skill at Arms competition and for the G.O.C.'s Skill at Arms competitions.

Teams were entered in the Dominion of Canada Rifle Association shoot (small-bore) for the months of February and March.

A Motor Transport course was conducted by the 39th (R) Brigade Group, and the 10 Cadets who enrolled for the course were qualified as Drivers, Class III (wheeled).

Twenty-nine Cadets enrolled for a winter training Ski Course, conducted by the 39th (R) Brigade Group. This course was held on Sundays, Hollyburn Ridge being the training area.

## STAFF

The authorized Administrative and Training Staff for the year was reduced to 1 Officer and 3 Other Ranks.

Capt. W. J. D. Heffernan acted as Training Officer until the 3rd of January, 1946, when Lieut. J. L. McCulloch was appointed in his place. Capt. S. E. Walmsley, whose appointment as Adjutant terminated on the 22nd of September, 1946, continued to act as Adjutant on Reserve Status.

## DISCIPLINE

No breaches of discipline occurred during the year.

## ACKNOWLEDGMENTS

Acknowledgment is here recorded of the splendid contributions of service to this Contingent made by the Officers whose retirements are noted elsewhere in this report. In particular, the Service of Lt. Col. G. M. Shrum, M.M., commencing the 17th of December, 1928, and terminating in retirement on February 18th, 1946, is especially noted. In the nine years during which Lt. Col. Shrum was in

command, his initiative and energy contributed largely to the success of the Contingent, and through his efforts permanent quarters were provided.

The Service rendered by Major C. W. Topping from the 26th of September, 1939 to the 10th of January, 1946, until retirement as second-in-command of the Contingent, is also noted with appreciation at this time.

In addition to the particular acknowledgments just made, evidence of valuable service rendered by all who staffed the Contingent during the recently concluded war, and whose retirements are referred to here, may be seen in the facts, that, during the war the U.B.C. Contingent, C.O.T.C., furnished 1452 men to the Navy, Army and Air Force, the majority of whom served as Commissioned Officers.

Respectfully submitted,

R. W. BONNER, LT. COL.,

*Officer Commanding,*  
*U.B.C. Contingent, C.O.T.C.*

# Publications

## FACULTY OF ARTS AND SCIENCE

SESSION 1945 - 1946

### DEPARTMENT OF BACTERIOLOGY AND PREVENTIVE MEDICINE

DOLMAN, C. E.

Report on a survey of medical education in Canada and the United States. Vancouver, University of British Columbia, 1946. 53 p.

RANTA, L. E.

The crossroads of human and veterinary medicine. Canadian journal of comparative medicine 9:321-4 December 1945.

A hopeful meditation in discontentment. Canadian Hazen conference. Interaction between the universities and society in a changing world—an account of the fourth Canadian Hazen conference, June, 1946. p. 15-17.

Too late and too little (whooping cough and scarlet fever immunization). Canadian nurse 41:943-6 December 1945.

### DEPARTMENT OF CLASSICS

GRANT, W. L.

Review: Durant, Will. Caesar and Christ. Classical journal 41:349-50 April 1946.

MacKAY, L. A.

The earthquake horse. Classical philology 41:150-4 July 1946.

RIDDEHOUGH, G. B.

Queen Elizabeth's translation of Boethius *De Consolatione Philosophiae*. Journal of English and Germanic philology 45:88-94 January 1946.

### DEPARTMENT OF ECONOMICS, POLITICAL SCIENCE AND SOCIOLOGY

ANGUS, H. F.

The Canadian constitution and the United Nations charter. Canadian journal of economics and political science 12:127-35 May 1946.

The future of immigration into Canada. Canadian journal of economics and political science 12:379-86 August 1946.

Immigration. International journal 1:64-7 Winter 1945-46.

Japan—our problem. Toronto, Canadian institute of international affairs, 1946. Behind the headlines vol. 6 no. 3.

Review: Tsang, Chih. China's postwar markets. International journal 1:175-6 Spring 1946.

CRUMB, J. A.

Future price of gold. Western miner 19:35-7 January 1946.

JAMIESON, STUART

Improvements in the conditions of labour. British Columbia. Board of health. Health education group of Vancouver vol. 12 no. 1 p. 1-12 [n. d.]

Labor unionism in American agriculture. Monthly labor review 62:25-36 January 1946.

Labor unionism in American agriculture. Government printing office, Washington, D.C. 1945 457 p. United States. Bureau of labor statistics. Bulletin 836.

### DEPARTMENT OF EDUCATION

CAMERON, M. A.

Report of the Commission of inquiry into educational finance. King's printer, Victoria, 1945. 108 p.

## DEPARTMENT OF ENGLISH

AKRIGG, G. P. V.

Middleton: an allusion to the Shakespere first folio? Shakespeare association. Bulletin 31:25-6  
January 1946.

The renaissance reconsidered. Queen's quarterly 52:311-19 Autumn 1945.

BIRNEY, EARLE

Canada calling. Canadian forum 36:31-2, 59-61 May, June 1946

## DEPARTMENT OF GEOLOGY AND GEOGRAPHY

WILLIAMS, M. Y.

Notes on the vertebrates of the southern plains of Canada 1923-1926. Canadian field-naturalist  
60:47-60 May-June 1946.

WILLIAMS, M. Y.; BROCK, R. W.; SCHOFIELD, S. J.; and PHEMISTER, T. C.

The physiography and igneous geology of Hong Kong and the New Territories. Royal society  
of Canada. Transactions ser 3, 39, sec. 4:91-119 1945.

OKULITCH, V. J.

Intervallum structure of *Cambrocyathus amourensis*. Journal of palaeontology 20:275-6 May  
1946.

WARREN, H. V.

Mineralogical notes. Bismuth tellurides from the White Elephant claim, B. C. Toronto. Uni-  
versity. University of Toronto Studies. Geological series no. 50:75-7 1946.

Mineralogy of the ores of the Highland-Bell mine. Western miner 19:38-43, 54-8 May, June 1946.

Minerals from the Highland-Bell silver mine, Beaverdell, B. C. Toronto. University. University  
of Toronto studies. Geological series no. 50:27-33 1946.

## DEPARTMENT OF HISTORY

SAGE, W. N.

Review: Dee, H. D., ed. The journal of John Work. Beaver outfit 277:48 June 1946.

Review: Maloney, Alice Bay, ed. Fur brigade to the Bonaventura, John Work's California ex-  
pedition, 1832-1833. Canadian historical review 27:63-4 March 1946.

Robie Lewis Reid (1866-1945). Royal society of Canada. Transactions ser 3, 39, Appendix  
B:109-10 1945.

Vancouver—sixty years of progress. British Columbia journal of commerce year book 1946:97-  
115 1946.

COOKE, A. C.

Review: Parkin, Raleigh. India today; Jesse, F. Tennyson. The story of Burma. International  
journal 1:268-9 Summer 1946.

OLESON, T. J.

Review: Eylands, V. J. Lutherans in Canada. Canadian historical review 27:71-2 March 1946.

SOWARD, F. H.

Canada's growth in external status. Canada year book 1945:74-9.

Review: Brebner, J. B. North Atlantic triangle, Canadian historical review 27:58-60 March 1946.

Review: Clokie, H. McD. Canadian government and politics. American historical review  
51:154 October 1945.

Review: Corbett, P. E. Britain, partner for peace. International journal 1:270 Summer 1946.

## DEPARTMENT OF MATHEMATICS

BUCHANAN, DANIEL

A six-body problem. Royal society of Canada. Transactions ser 3, 39, sec. 3:1-20 1945.

NOWLAN, F. S.

Analytic geometry. Third edition. McGraw-Hill Book company, New York and London, 1946. 355 p.

University programs for ex-service personnel in Canada. American mathematical monthly 52:592-8 December 1945.

#### DEPARTMENT OF MODERN LANGUAGES

PARKER, J. H.

An intensive language programme. Canadian modern language review 2:14-16 September 1945.

#### DEPARTMENT OF PHILOSOPHY AND PSYCHOLOGY

CHANT, S. N. F.

University education for veterans. Canada. Department of veterans' affairs. Veterans affairs 1:3 December 1945.

The veteran's adjustment to his job. Personnel proceedings 3:1, 5-8 August 1945.

#### DEPARTMENT OF PHYSICS

BELINFANTE, F. J.

On the longitudinal and the transversal delta-function, with some applications. Physica 12:1-16 April 1946.

On the vanishing of div.—4 in quantumelectrodynamics. Physica 12:17-32 April 1946.

BLUH, OTTO

German education. Journal of education (London) 78:80, 82 February 1946.

CLARK, A. R.; HAWLEY, J. E.; FRITZSCHE, K. W.; and HONEYMAN, K. G.

The Aldermac Moulton Hill deposit. Canadian institute of mining and metallurgy. Transactions 48:367-401 1945.

MacKENZIE, K. R.

Frequency modulated cyclotron. Physical review 69:669-70 June 1 and 15, 1946.

VOLKOFF, G. M.

Atomic energy. Blueprint p. 4-9 November 1945.

Explaining the atomic piles. Montreal Standard. Into the atomic age. p. 51-5 (Reprinted from Montreal Standard's series of articles in the spring of 1946.)

The scientific aspects of atomic energy. Canadian association of scientific workers. Atomic energy p. 1-13. Montreal, 1946.

#### DEPARTMENT OF ZOOLOGY

CLEMENS, W. A.

Contributions to the life history of the sockeye salmon. Paper 30. British Columbia. Department of provincial fisheries. Report 1944: M32-M43 1945.

COWAN, I. McT.

Antlered doe mule deer. Canadian field naturalist 60:11-12 January-February 1946.

The free-tailed bat, *Tadarida macrotis* in British Columbia. Canadian field naturalist 59:149 July-August 1945.

Notes on the distribution of *Spizella breweri taverneri*. Condor 48:93-4 March-April 1946.

Parasites, diseases, injuries and anomalies of the Columbian black-tailed deer, *Odocoileus hemionus Columbianus* (Richardson) in British Columbia. Canadian journal of research 24 sec D:71-103 June 1946.

Report of wildlife studies: Jasper, Banff and Yoho national parks in 1944; and parasites, diseases and injuries of game animals in the Rocky Mountain national parks, 1942-44. Canada. National parks bureau. Ottawa, 1946. 84 p.

COWAN, I. McT. and CARL, G. C.

The northern elephant seal (*Mirounga angustirostris*) in British Columbia waters and vicinity. Canadian field naturalist 59:170-1 September-October 1945.

- COWAN, I. McT. and CLARKE, C. H. D.  
Birds of Banff national park, Alberta. Canadian field naturalist 59:83-103 May-June 1945.
- COWAN, I. McT. and MUNRO, J. A.  
Birds and mammals of Revelstoke national park. (Part 2) Canadian alpine journal 30:237-56  
1946.
- SPENCER, G. J.  
Mental insect attacks. Entomological society of British Columbia. Proceedings 1945 42:15-16  
December 8, 1945.  
On the incidence, density and decline of certain insects in British Columbia. Entomological  
society of British Columbia. Proceedings 1945 42:19-23 December 8, 1945
- SPENCER, G. J. and BUCKELL, E. R.  
A preliminary list of the flesh flies of British Columbia (*Diptera; Sarcophagidae*). Entomological  
society of British Columbia. Proceedings 1945 42:6 December 8, 1945.

## FACULTY OF APPLIED SCIENCE

### DEPARTMENT OF NURSING AND HEALTH

- MALLORY, H. E.  
The administration and the head nurse. Canadian nurse 41:29-32 January 1945.  
The time for action is now. (Guest editorial) Canadian nurse 42:201-03 March 1946.

## FACULTY OF AGRICULTURE

### DEPARTMENT OF ANIMAL HUSBANDRY

- WOOD, S. N.  
Control of infectious laryngotracheitis of fowl. Pacific coast poultry producers' association. Bul-  
letin February 1945.  
The use of live virus vaccines in control of fowl pox and infectious laryngotracheitis. Family  
Herald and Weekly Star, Montreal, March, 1946.

### DEPARTMENT OF DAIRYING

- EAGLES, B. A.  
Mastitis—laboratory tests and their interpretation. B. C. Jersey bulletin 2:14-18 March 1946.

### DEPARTMENT OF HORTICULTURE

- HARRIS, G. H.  
Malnutrition and the micro-elements. C.I.L. Oval p. 5 January-February 1946. (Reprinted in  
Food world, March 1946.)

### DEPARTMENT OF POULTRY HUSBANDRY

- LLOYD, E. A. and HILL, A. T.  
Autosexing redbars. Poultry science July, 1946.
- BIELY, JACOB; GASPERDONE, H.; and NAROD, M.  
Female hormones; their place in fattening poultry. Canada poultryman vol. 33 no. 6, June 1946.
- BIELY, JACOB; NAROD, M.; and McMILLAN, R.  
Grains; their place in the poultry ration. Canada poultryman vol. 33 no. 5, April 1946.
- BIELY, JACOB and STEVENS, JOAN  
Carotene in dehydrated green feed. Canada poultryman vol. 33 no. 7 and 8, July, August 1946.