1929-30

p52

REPORT OF THE PRESIDENT

OF THE UNIVERSITY OF BRITISH COLUMBIA

FOR THE ACADEMIC YEAR ENDING

AUGUST 31st., 1930.

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THE REPORT OF THE PRESIDENT.

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 ending August 31st., 1930.

Information relative to registration, attendance, graduation, and other related subjects has been prepared by the Registrar. The reports of the Deans appear in full. All other reports have been considerably condensed.

Respectfully submitted,

L. S. KLINCK
President.

December 12th, 1931.

TEACHING STAFF:

President	1
Deans and Heads of Departments	3
Professors and Heads of Departments	18
Professors	19
Associate Professors	30
Assistant Professors	18
Dean of Women and Assistant Professor	1
Instructors	18
Assistants	32
Research Assistants	5
Honorary Lecturer	1
Lecturers in Public Health (Part-time)	15
Lecturers in Social Service (Part-time)	3
Lecturers in Teacher Training (Part-time)	5
	169

Substitutes for members of Faculty on leave	9

PROMOTIONS:

G. G. Moe, B.S.A., M.Sc., Ph.D., from Associate Professor to Professor and Head of the Department of Agronomy.
A.F.B.Clark, B.A., Ph.D., from Associate Professor to Professor of French.
H.T.Logan, M.C., B.A., M.A., from Associate Professor to Professor of Classics.
Blythe Eagles, B.A., Ph.D., from Assistant Professor to Associate Professor in Dairying.
H.F.G.Letson, M.C., B.Sc., Ph.D., from Assistant Professor to Associate Professor in Mechanical Engineering.
John Davidson, F.L.S., F.B.S.E., from Assistant Professor to Associate Professor in Botany.
D.C.B.Duff, M.A., Ph.D., from Assistant to Instructor in Bacteriology.
Miss Helen Mathews, B.A., M.A., from Assistant to Instructor in Bacteriology.

PROMOTIONS -(continued

E. E. Delavault, L.en D. from Assistant to Instructor in French.
Madame G. Barry, from Assistant to Instructor in French.
Madame D.Darlington, from Assistant to Instructor in French.
Miss Dorothy Dallas, B.A., M.A., from Assistant to Instructor in French.
Miss Wessie Tipping, B.A., from Assistant to Instructor in French.

NEW APPOINTMENTS:

W.A.Carrothers, B.A., Ph.D., D.F.C., Professor of Economics, Sociology and Political Science.
G. F. Drummond, M.A.,M.Sc., Assistant Professor of Economics.
William G. Black, B.A., M.A., Associate Professor of Education.
A.C.Cooke, B.A., M.A., Assistant Professor of History.
W. B. Coulthard, B.Sc., Assistant Professor of Electrical Engineering.
H. Grayson-Smith, M.A., Ph.D., Assistant Professor of Physics.
Miss Jean M. Auld, B.A., Instructor in Classics.
Frederick J. Brand, B.A., B.Sc., Instructor in Mathematics.
Miss Margaret E. Kerr, B.A.Sc., M.A., Instructor in Nursing.

LEAVE OF ABSENCE

O. J. Todd, Ph.D., Professor of Greek.
Thorleif Larsen, B.A., M.A., Associate Professor of English.
V. S. Asmundson, B.S.A., M.S.A., Ph.D., Associate Professor of Poultry Husbandry.
D. G. Laird, B.S.A., M.S., Ph.D., Assistant Professor of Agronomy.
Miss Janet T. Greig, B.A., M.A., Assistant Professor of French.
G. M. Weir, B.A., M.A., D.Paed., Professor and Head of Department of Education (for four months).
G. A. Gillies, M.Sc., Associate Professor of Mining (for four months).
Frank Dickson, B.A., Ph.D., Associate Professor in Botany.
John Allardyce, B.A., M.A., Instructor in Chemistry.

SUBSTITUTES FOR MEMBERS OF FACULTY
ON LEAVE OF ABSENCE:

Martin Peacock, B.A., Ph.D., (Substitute for Dr. S.J. Schofield).
E. Owen, M.A. (Substitute for Dr. O.J.Todd).
Cecil Lamb, B.S.A., M.S.A. (Substitute for Dr. D.G.Laird).
Jacob Biely, B.S.A. (Substitute for Dr. V.S.Asmundson).
D.E.Calvert, B.A., M.A. (Substitute for Mr. T. Larsen).
Madame D. Darlington (Substitute for Miss J. Greig).
Mr. L. M. Black, B.S.A. (Substitute for Dr. Dickson).
Mr. R. H. Fleming, B.A. (Substitute for Mr. Allardyce).
Miss F. L. Fowler, B.A. (Substitute for Mr. Allardyce).

RESIGNATIONS:

P. A. Boving, Cand. Ph., Cand. Agr., (Resigned Headship of the Department of Agronomy but retains Professorship).

Leonard B. Stacey, B.A.Sc., Assistant Professor of Electrical Engineering.

P.A.Child, B.A., M.A., Ph.D., Assistant Professor of English.

REGISTRATION

FACULTY OF ARTS and SCIENCE

	Women	Men	Total	
First Year	243	362	605	
Second Year	170	187	357	
Third Year	149	122	271	
Fourth Year	109	92	201	
				1434

FACULTY OF APPLIED SCIENCE

Second Year	-	118	118	
Third Year	-	55	55	
Fourth Year	-	55	55	
Fifth Year	-	35	35	
				263

FACULTY OF APPLIED SCIENCE (NURSING)

First Year	10	-	10	
Second Year	7	-	7	
Third Year	4	-	4	
Fourth Year	8	-	8	
Fifth Year	6	-	6	
				35

FACULTY OF AGRICULTURE

First Year	-	14	14	
Second Year	-	7	7	
Third Year	1	8	9	
Fourth Year	1	6	7	
Partial	2	7	9	
				46

GRADUATES

Arts and Science	24	28	52	
Applied Science	-	3	3	
Agriculture	-	4	4	
				59

TEACHER TRAINING COURSE	46	21	67	
				67
		T O T A L		1904

REGISTRATION (cont'd.

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

Summer Session, Arts (1930)	(Degree Course)	458
Late Afternoon and Saturday Morning Classes	(Degree Course)	105
Public Health Nursing	(Diploma Course)	1
Occupational Course in Agriculture	(Diploma Course)	9
Short Courses in Agriculture		124
Evening Class in Botany		40

- - - - - - - -

NATIONALITY OF STUDENTS

American	72
Austrian	3
British	1714
Chinese	6
Croatian	1
Czecho-Slovakian	2
Danish	1
Dutch	2
East Indian	4
Finnish	2
French	2
Greek	1
Hebrew	18
Icelandic	3
Italian	6
Japanese	21
Norwegian	5
Polish	2
Russian	17
Swedish	19
Swiss	2
Syrian	1
Total	1904

POINTS FROM WHICH STUDENTS COME.

Vancouver 1161

Points in British Columbia outside of Vancouver:

Abbotsford	6	Erie	1
Agassiz	4	Esquimalt	1
Alberni	1	Fernie	7
Aldergrove	1	Fort Fraser	1
Alert Bay	2	Galiano	1
Alexis Creek	1	Gibson's Landing	1
Allenby	1	Gifford	1
Anyox	2	Golden	1
Armstrong	4	Grand Forks	6
Arrowhead	1	Grantham's Landing	1
Ashcroft	2	Hagensborg	1
Barnet	1	Hammond	2
Bella Coola	2	Haney	1
Bonnington Falls	1	Hatzic	4
Bowen Island	1	Hazelton	1
Brighouse	2	Headquarters	1
Britannia Beach	2	Hedley	2
Burnaby	27	Heffley Creek	1
Burquitlam	1	Hilliers	1
Capitol Hill	1	Hollyburn	5
Cassidy	1	Kamloops	4
Castlegar	2	Kaslo	4
Chapman Camp	1	Kelowna	5
Chilliwack	11	Kimberley	2
Clayburn	1	Kincolith	1
Clinton	1	Kitchener	1
Cloverdale	7	Ladner	11
Coldstream	1	Ladysmith	1
Copper Mountain	1	Lavington	2
Courtenay	4	Lynn Creek	2
Cowichan Station	1	Mara	1
Cranbrook	12	Matsqui	2
Crescent Beach	1	Mayne Island	1
Creston	2	Merritt	1
Cumberland	9	Midway	1
Deanshaven	1	Milner	2
Dewdney	2	Milne's Landing	1
Duncan	6	Mission City	3
Dundarave	2	Mount Lehman	2
East Kelowna	1	Mount Tolmie	1
Enderby	1	Murrayville	1
Erickson	3	Nakusp	3

Points in British Columbia
outside of Vancouver:

Nanaimo	12
Naramata	1
Nelson	2
New Denver	5
New Hazelton	1
New Westminster	109
Nicola	1
North Bend	1
North Bulkley	2
North Vancouver	49
Ocean Falls	2
Okanagan Centre	1
Okanagan Mission	1
Oyama	2
Oliver	2
Osoyoos	1
Peachland	2
Penticton	8
Port Haney	1
Powell River	3
Prince George	4
Prince Rupert	12
Princeton	1
Qualicum Beach	3
Revelstoke	13
Riondel	2
Rocky Point	1
Royston	1
Ruskin	1
Rosedale	1
Rossland	7
Saanichton	2
Salmon Arm	5
Sandal	1
Sandon	1
Sandwick	2
Sardis	2
Shawnigan Lake	3
Sidney	3
Silverdale	1
Smithers	1
Squamish	1
Steveston	9
Stewart	3
Sugar Lake	1
Summerland	4
Surrey Centre	1
Taghum	1
Terrace	1
Trail	14
Ucluelet	1
Upper Capilano	2
Upper Lynn	1
Van Anda	2
Vanderhoof	2
Vavenby	1
Vernon	15
Victoria	107
Waldo	1
Wellington	2
Westholme	1
West Summerland	5
West Vancouver	5
	1840

(c)
From points in Canada outside British Columbia:

Alberta	12	
Saskatchewan	11	
Manitoba	6	
Ontario	4	
Nova Scotia	1	
Yukon Territory	3	
		37

(d)
From other countries:

United States	7	
England	3	
Ireland	1	
Scotland	2	
India	1	
China	10	
Japan	1	
Austria Hungary	1	
Mongolia	1	
		27

T O T A L 1904

OCCUPATIONS OF THE PARENTS OF THE STUDENTS ENROLLED
(Not including the students in the Teacher Training Course).

Accountant	39	Confectioner	1
Agent	9	Contractor	51
Animal Pathologist	1	Customs Official	11
Architect	5	Dairyman	6
Artist	4	Deceased	82
Assistant Superintendent	2	Decorator	6
Auditor	4	Dental Technician	1
Assessor	1	Dentist	16
Automobile Dealer	9	Department Manager	2
Baker	5	Doctor	65
Banker	2	Draftsman	2
Bank Messenger	1	Driver	2
Barber	2	Druggist	16
Blacksmith	6	Dry Cleaner	1
Boat Captain	4	Editor	1
Boiler Maker	3	Electrical Engineer	10
Bond Dealer	1	Electrician	10
Bookkeeper	6	Employee	7
Bricklayer	4	Engineer	47
Brickmaker	1	Engineer's Assistant	2
Broker	40	Farmer	96
Builder	9	Factory Owner	2
Bulb Grower	1	Filer	1
Business Man	24	Fishdealer	1
Business President	6	Fisherman	2
Butcher	5	Florist	1
Buyer	5	Foreman	11
Cabinet Maker	2	Fruit Dealer	1
Canneryman	1	Fruit Grower	6
Caretaker	3	Fuel Dealer	1
Carpenter	25	Funeral Director	1
Chauffeur	1	Furniture Dealer	1
Chassis builder	1	Gardener	1
Chemical Engineer	2	Garage Owner	3
Civil Engineer	31	Garage Proprietor	1
Civil Servant	14	Green-keeper	1
Claims Investigator	1	Government Liquor Vendor	2
Clergy	40	Grocer	7
Clerk	21	Government Service	19
Coal Dealer	2	Harbour Commissioner	2
Collector	1	Hairdresser	1
Clothier	3	Hop Grower	1
Commercial Artist	2	Hotel Proprietor	4
Compositor	3	Horticulturist	2
Comptroller	1	Importer and Exporter	5

OCCUPATIONS OF PARENTS (Continued)

Inspector	14
Insurance	24
Janitor	3
Jeweller	6
Journalist	3
Junk Dealer	3
Labourer	6
Laundry Owner	2
Lawyer	34
Librarian	2
Lineman	1
Lithographer	1
Logger	1
Lumberman	35
Machinist	15
Manager	40
Managing Director	2
Manufacturer	10
Manufacturer's Agent	12
Marine Engineer	7
Mason	2
Master Mariner	5
Mechanic	12
Mechanical Engineer	4
Member of Parliament	4
Merchant	81
Metal Worker	1
Mill Employee	1
Millman	1
Mill Owner	4
Mill Wright	3
Mining Engineer	19
Mining Operator	1
Miner	6
Missionary	7
Motion Picture Operator	1
Musician	1
Music Dealer	1
Navy	2
Newspaperman	1
Notary Public	1
Night Watchman	1
Operator	1
Optician	1
Packer	1
Painter	1
Paymaster	1
Photographer	3
Plasterer	2
Plumber	1
Police	5
Postman	2
Postmaster	11
Powder Man	1
Printer	12
Prison Guard	2
Property Owner	2
Proprietor	4
Projectionist	1
Purchasing Agent	1
Rancher	12
R. R. Employee	53
Real Estate	19
Restaurant Owner	3
Retailer	1
Retired	88
River Pilot	1
Salesman	27
Sales Manager	3
Salvor	1
Sanitary Engineer	1
Scaler	4
Sculptor	1
Secretary	11
Seedsman	2
Sheet Metal Worker	1
Shift Boss	1
Shingle Weaver	1
Ship Builder	1
Shipper	4
Shipping Merchant	3
Shoeman	2
Sign Writer	1
Smelterman	2
Stationer	2
Steam Engineer	2
Steamship Manager	1
Steel Worker	1
Stone Mason	1
Structural Engineer	3
Superintendent	9
Surveyor	7

OCCUPATIONS OF PARENTS (continued)

Tailor	1
Teacher	43
Telegrapher	2
Timber Cruiser	1
Tool Maker	1
Traffic Manager	1
Transfer	4
Truck Driver	3
University Faculty	11
University President	1
University Registrar	1
Unspecified	182
Vancouver City Employee	9
Watchmaker	1
Welding Engineer	1
Wholesaler	7
Y. M. C. A. Secretary	2
T o t a l	1837

Comparative statement of attendance at the University

1915-16 to 1929-30.

REGISTRATION BY FACULTIES

Session	Arts and Science	Applied Science	Double Course	Nursing	Agriculture	Teacher Training Course	Total, Winter Session	Summer Session	Short Courses	Grand Total
1915-16	318	61		-----	-----	-----	379	----	----	379
1916-17	321	48		-----	-----	-----	369	----	65	434
1917-18	371	38	----	-----	7		416		258	674
1918-19	467	54	----		17	-----	538	----	379	917
1919-20	681	164	----	-----	45	-----	890	----	640	1530
1920-21	696	209	6	-----	51	-----	962	127	550	1639
1921-22	724	200	1	16	73		1014	134	83	1231
1922-23	890	191	----	28	85	-----	1194	208	157	1559
1923-24	969	183		32	69	55	1308	292	152	1752
1924-25	1119	184		36	59	53	1451	294	121	1866

Comparative statement of attendance at the University

1915-16 to 1929-30 continued)

REGISTRATION BY FACULTIES

Session	Arts and Science	Applied Science	Nursing	Agric-ulture	Teacher Training Course	Total Winter Session	Summer Session	Short Courses	Grand Total
1925-26	1124	196	33	53	57	1463	394	127	1984
1926-27	1219	209	35	52	67	1582	438	158	2178
1927-28	1349	242	33	55	62	1741	487	171	2399
1928-29	1316	259	41	52	62	1730	402	220	2352
1929-30	1486	266	35	50	67	1904	427	279	2610

DEGREES CONFERRED

1916 to 1930

Year	M.A.	B.A.	M.Sc. or M.A.Sc.	B.Sc. or B.A.Sc.	B.A.Sc. Nursing	M.S.A.	B.S.A.	Total	Grand Total.
1916		40						40	40
1917		34	-	1	-		-	35	75
1918		34	-		-		-	34	109
1919	2	47		1	-			50	159
1920	9	50	1	9		-		69	228
1921	3	84	-	13	-		8	113	341
1922	9	77	1	27	-	-	10	124	465
1923	14	106	6	34	3	1	12	176	641
1924	9	99	1	39	5	2	11	166	807
1925	11	133	7	27	4	1	17	200	1007
1926	16	145	4	26	3	0	9	203	1210
1927	10	156	1	37	5	2	6	217	1427
1928	17	188	1	22	5	1	7	241	1668
1929	15	160	1	31	6	1	9	223	1891
	1	34	-	5	-	1	1	42	1933
1930	10	175	B.COM. 1	1 27	6	1	7	228	2161

HONORARY DEGREES CONFERRED

	LL.D.
1925	7
1929	1
1930	1

LOCATION OF GRADUATES

Number in Vancouver	1003
Number in other parts of British Columbia	511
Number in other Provinces	93
Number in United States of America	145
Number in British Isles	15
Number in Australia	1
Number in India	2
Number in South Africa	4
Number in France	3
Number in South America	1
Number in China	2
Number in Japan	5
Number in other countries	5
Number deceased	28
Number whose address is unknown	214

TOTAL NUMBER OF GRADUATES..... 2032

SCHOLARSHIPS, FELLOWSHIPS and BURSARIES AWARDED TO GRADUATES.

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

Name	Award	Value.	Subject	Where Tenable.
Aspinall, Thos.E.	Scholarship in Nutrition	$ 800.	Poultry H.	Univ.of Illinois
Campbell, Mildred H.	National Research Council Studentship	1000.	Zoology	
Cassidy, Eugene H.	H.R.MacMillan Scholarship	1000.	History	Japan
Daniells, J.Roy	Western Fellowship	500.	English	Toronto Univ.
Dauphinee, James A.	Ellen Mickle Fellowship	1500.	Medicine	Toronto Univ.
Davidson, Jean	University Fellowship	500.	Botany	Univ.of Michigan.
Dorley, Wilfred G.	Teaching Fellowship	750.	Economics	Univ.of California.
Freeman, Phyllis M.	Trustee Fellowship	600.	History	Smith College.
Gold, Norman	Teaching Fellowship	750.	Economics	Univ.of California.
Hickman, Walter H.	Fr.Government Scholarship	10,000 fr.		Paris
Liersch, John Edward	Anderson Fellowship	600.	Forestry	Univ.of Washington.
Grant, Margaret	Teaching Fellowship	500.	English	Univ.of Toronto.
Hovlett, Leslie E.	National Research Council Fellowship	1200.		Toronto Univ.
Hull, Ralph	Fellowship	1000.	Mathematics	Univ.of Chicago.
James, Ralph D.	Fellowship	1000.	Mathematics	Univ.of Chicago.
Johnston, A.Elizabeth	Scholarship		Economics	Univ.of Washington.
Laing, Lionel H.	International Law Scholarship	1000.	History	
Lucas, Verna Z.	Demonstratorship	300.	Zoology	Toronto Univ.
McKellar, Andrew	Teaching Fellowship	600.	Physics	Univ.of California.
McLean, J.Beattie	Teaching Fellowship	600.	English	Univ.of Washington.
McPhail, Murchie	National Research Council Studentship	1000.	Zoology	
Madigan, Stephen	Teaching Fellowship	800.	Physics	Purdue University.
Morrison, Edmund	Teaching Fellowship	1000.	English	Univ.of California.
Morrison, Hugh M.	American Antiquarian Society Scholarship	350.	History	Clark University.
Oberg, Kalervo	Teaching Fellowship	1000.	Economics	Univ.of Chicago
Ormsby, Margaret A.	Canadian Pioneer Problems Committee Scholarship.	500.	History	
Preston, Shirley G.	Graduate Assistantship (2 yrs.)	2100.	Agronomy	Univ.of Alberta.
Purdy, H.L.	Teaching Fellowship		Economics	Univ.of Chicago.
Selwood, Pierce W.	National Research Council Fellowship	1800.	Chemistry	Princeton Univ.
Stedman, Cecil K.	Paul Williams Research Fellowship	1000.	Physics	Purdue Univ.
Stevenson, John S	Scholarship (2 yrs.)	1000.	Geology	Mass.Inst.of Tech.
Underhill, Fabian	Teaching Fellowship	750.	Economics	Univ.of California.
Watson, Donald S.	Teaching Fellowship	750.	Economics	Univ.of California.
Weld, C.B.	Research Associate			Univ.of Toronto.
Wilby, George V.	Demonstratorship	300.	Zoology	Univ.of Toronto.

Value of scholarships, fellowships, and bursaries won by our graduates in other Universities and in Institutes in 1930 .....$ 27,050.00

PUBLICATIONS

FACULTY OF ARTS AND SCIENCE.

DEPARTMENT OF BACTERIOLOGY:

"A Modification of the Orskov Simple-Cell Technic".
By - Duff, D.C.B.
Journal of Laboratory and Clinical Medicine,
XV, No. 2, p. 186, Nov. 1929.

"A Physiological Study of Certain Parasitic Saprolegneaceae."
By - Duff, D.C.B.
Contributions to Canadian Biology and Fisheries,
N.S., Vol. No. 7, 1929.

"An Improved Pipette Manipulator".
By - Duff, D.C.B.
Journal of Laboratory and Clinical Medicine.

DEPARTMENT OF BOTANY:

"The Specific Effects of Monochromatic Light on the Growth of Paramoecium."
By - Hutchinson, A. H., and Ashton, M.R.
National Research Council of Canada.

"Effect of the Fraser River on the Waters and Phytoplankton of the Strait of Georgia."
By - Hutchinson, A. H., and Lucas, C.C.
(Reprint from the Proceedings Fourth Pacific Science Congress, Java, 1929).

"Seasonal Variations in the Chemical and Physical Properties of the Waters of the Strait of Georgia in Relation to Phytoplankton."
By - Hutchinson, A.H., Lucas, C.C., and McPhail, M.
(Transactions of the Royal Society of Canada, 3rd Series, Vol. XXIII, Section V, 1929).

"An Oceanographic Survey of the Surface Waters of the Strait of Georgia."
By - Hutchinson, A.H., Lucas, C.C., and McPhail M.
With four charts. A summary was presented before the Society of Western Naturalists at Pacific Grove, December, 1929, as part of a symposium and the complete account is presented for publication in the Canadian Research Journal.

DEPARTMENT OF BOTANY continued)

"The Economic Effect of the Fraser River on the Strait of Georgia."
By - Hutchinson, A. H. - Published in Progress Reports of the Pacific Biological Stations, 1929.

"The Specific Effects of Monochromatic Light upon the Growth of Yeast."
By - Hutchinson, A. H., and Newton, D.
Canadian Research Journal.

DEPARTMENT OF CHEMISTRY:

"Extraction of Commercial Rare Earth Residues with a view to the Concentration of Illinium."
By - Ball, R. W. with Harris, J.A.
J. Am. Chem. Soc. 51, 2107.

"A Comparison of Methods for the Extraction of the Rare Earths from Gadolinite."
By - Pearce, D.W., with Harris, J.A.
Trans. Royal Society, Canada, XXIII, 61.

Iodine Numbers of Lubricating Oils before and after use in Automobile Engines."
By - Seyer, W.F., and Allen, J.S.
J. Ind. & Eng. Chem. Aug. 1929.

"The Effect of Temperature on the Molecular Surface Energy of Binary Mixtures."
By - Seyer, W.F., Peck, W.S.
J. Am. Chem., Soc., 52, 14, 1930.

Solubility of Sodium Carbonate and a Method of Determining Solubilities at High Temperatures."
By - Seyer, W.F., and Todd, E.E.
Trans. Royal Society, Canada, XXIII, 1929.

"Radioactive Platinum Concentrates of British Columbia."
By - Seyer, W.F.
Trans. Royal Society, Canada, XXIII, 1929.

"The Physical and Chemical Differences Between Eastern and Western American Lubricating Oils."
By - Seyer, W.F., in "Petroleum Equipment Exporter" - Vol. 1, 2, 1930.

DEPARTMENT OF CHEMISTRY (continued)

"The Critical Solution Temperature of Sulphur Dioxide and Normal Paraffin Hydrocarbons."
By - Seyer, W.F., and Todd, E.E.
(Presented by Clark, R.H.)
Royal Society, Canada, Section IV, 1930.

"A New Compound of Cyclohexene Peroxide and Sulphur Dioxide."
By - Seyer, W.F., and King, E. G.
(Presented by Clark, R.H.).
Royal Society, Canada, Section IV, 1930.

"A Further Investigation of the Two Electromers of 2 Pentene".
By - Clark, R. H., and Hallonquist, E. G.
Royal Society, Canada, Section IV, 1930.

"The Addition of Hydrogen Bromide to Allyl Bromide in Magnetic and Electrostatic Fields."
By - Clark, R. H., and Gray, K.R.
Royal Society, Canada, Section IV, 1930.

"The Nitration of Benzoic Acid in Magnetic and Electrostatic Fields."
By - Clark, R. H., and Archibald, R.M.
Royal Society, Canada, Section IV, 1930.

"The Determination of Cholesterol in Blood."
By Allardyce, John.
(Presented by Clark, R.H.).
Royal Society, Canada, Section IV, 1930.

"Blood Normals for Cattle."
By - Allardyce, J., Fleming, R.H., Fowler, F.L with Clark, R.H.
Royal Society, Canada, Section IV, 1930.

"Haematuria Vesicalis (Red Water)."
By - Clark, R.H., Fleming, R.H., and Fowler, F.L.,
Royal Society, Canada, Section IV, 1930.

"The Solubility of Sodium Metavanadate and Lead Metavanadate in Water and Nitric Acid, and the Separation of Vanadium from Chromium by Archibald, E.H., and Edwards, H.
Royal Society, Canada, Section IV, 1930.

"The Solubility of Beryllium Hydroxide in Solutions of Sodium Bicarbonate and the Separation of Beryllium from Vanadium - Chromium and Uranium".
By - Archibald, E.H., and Rendle, F.
Royal Society, Canada, Section IV, 1930.

DEPARTMENT OF CHEMISTRY (continued)

"The Molecular Surface Energy of Binary Mixtures Water and Nicotine."
By - Seyer, W.F., and Gallaugher, A.F.
J.Am. Chem. Soc., 52, 1448, 1930.

"The Heat of Adsorption of Oxygen on Charcoal"
By - Marshall, M.J., and Bramston-Cook, HE.
J. Am. Chem. Soc., 51, 2019, 1929.

"A Test of the Radiation Hypothesis of Chemical Reaction."
By - Ure, Wm., and Tolman, R.C.
J. Am. Chem., Soc., 51, 974, 1929.

"A Systematic Study of the Preparation of Alkyl Chlorides from the Corresponding Alcohols."
By - Clark, R.H., and Straight, H.R.L.
Trans. Royal Society, Canada, XXIII, 77, 1929

"The Reduction of the Nitro Group as a Function of its Polarity."
By - Clark, R.H., and Hallonquist, E.G.
Trans. Royal Society, Canada, XXIII, 71, 1929.

"Cathodic Halogens - The Electrolysis of Halogenyl Amides."
By - Straight, H.R.L., and Hallonquist, E.G., with Clark, R.H.
Journal American Electric - Chemistry Society LVI, 485, 1929.

"A New Method for the Preparation of Rare Earth Bromates"
By - Harris, J.Allen. (Presented by Clark, R.H.
Royal Society, Canada, Section III, 1930.

"A Study of the Absorption Spectra of various series of Rare Earth Double Nitrates."
By - Pearce, D.W., with Harris, J. Allen.
(Presented by Clark, R.H.).
Royal Society, Canada, Section III, 1930).

"The Kinetics of the Intramolecular Transformation of Ammonium Thiocyanate into Thiourea."
By - Ure, William and Edwards, B.
(Presented by Clark, R.H.).
Royal Society, Canada, Section IV, 1930.

DEPARTMENT OF CHEMISTRY: continued)

"Experiments with the Parathyroid Hormone. Cat Method of assay, potency factors in preparation."
By - Allardyce, W.J.
Royal Society, Canada, Section III, 1930.

DEPARTMENT OF ECONOMICS:

"Canadian Penal Institutions"
By - Topping, C.W.
Am. Ed. Pub., March, 1930.
(University of Chicago Press).

"The Passing of the County Jail in Canada"
By - Topping, C.W.
Pub. in 1930 edition of the American Prison, Association Proceedings.

"The Silver Standard"
By - Drummond, G. F.
Written for the British Columbia Miner.

DEPARTMENT OF ENGLISH:

"Pronunciation"
By - Larsen, T. and Walker, F.C.
Oxford University Press.

"Modern Philology"
By - Larsen, T.
Royal Society, Canada.
(Bibliographical Society's publication).

"Wordsworth, Arnold and Professor Lane Cooper"
By - Sedgewick, G.G.
The Dalhousie Review.

"The Middle Years of George Peele, Dramatist, 1588-1591"
By - Larsen, T. (Presented by Chas. Hill-Tout,)
Royal Society, Canada, Section II, 1930.

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

"Geology and Mineral Resources of the Yalakom Map Area, West Lillooet Block"
By - Schofield, S.J.
With - Brock, R.W., Williams, M.Y., and Turnbull, J.M.

DEPARTMENT OF GEOLOGY AND GEOGRAPHY (continued)

"Report of the Commission on Mineral Resources
of the P.G.E. Land Grants."
By - Schofield, S.J.

"Report on Pacific Great Eastern Land Blocks
(Peace, West Cariboo and West Lillooet)"
By - Williams, M.Y.
With - Brock, R.W., Schofield,S.J. and Turnbull, J.M.

"Report of the Commission on Mineral Resources of the
P.G.E.Land Grants."
By - Williams, M.Y.

"The Pierre Seas of Western Canada"
By Williams, M.Y.
Royal Society, Canada, Section IV, 1930.

"Report on the Pacific Great Eastern Land Blocks"
By - Brock, R.W.
With - Schofield, S.J., Williams, M.Y., and
Turnbull, J.M.

"Report of the Commission on Mineral Resources of the
P.G.E. Land Grants."
By - Brock, R.W.

"A New Coal Age"
By- Brock, R.W.
Western Branch, C.I.M.M., B.C. Miner.

"Japan" (Institute of Pacific Relations Conference)
By - Brock, R.W.
Canadian Papers - 1929.

"Calaverite - A Study of its Crystallography"
By - Peacock, M.A.

"The Geology and Geography of the Modoc Quadrangle, Cal."
By - Peacock, M.A.

DEPARTMENT OF HISTORY

(Publications in the Department of History, exclusive of
newspaper articles).

D.C.Harvey: Review: Polk: The Diary of a President, 1845-1849.
The Canadian Historical Review, March, 1930, pp.67-68.
"The Loyal Electors: The First Political Society in
British North America."
Royal Society, Canada, Section II, 1930.

DEPARTMENT OF HISTORY:(continued)

W.N.Sage:

Articles:

Wrong, G.M., Martin, C., and Sage, W.N., The Story of Canada. Part IV. British Columbia, pp. 301-351.

Howay, F.W. (Ed.) - The Builders of the West. Toronto, Ryerson Press, 1929. (A Chapter on Blanchard and Douglas).

Martin, C.E., and Leebrick, K.C. (Ed.) The Pacific Area, Seattle, University of Washington Press, 1929. The Three British Empires, pp. 101-117.

The Canadian Historical Association Annual Report,1929. John Work's First Journal, pp. 21-29.

Reviews:

Washington Historical Quarterly Vol. XXI, No. 1. (Jan. 1930). The Dixon-Meares Controversy (Ed.F.W. Howay) - pp. 61-62; also in The Canadian Historical Review, March 1930, pp. 56-58.

F. W. Soward:

Articles:

The Outbreak of the World War. The Queen's Quarterly, Kingston, Autumn, 1929 pp. 595-618.

The Election of Canada to the League of Nations Council in 1927. The American Journal of International Law, Washington, D.C., October 1929, pp. 753-766. Also published in Annual Report of Canadian Historical Association for 1929, Ottawa, pp. 31-41.

The Quickening of Canadian Interest in International Affairs. The Educational Survey of the League of Nations. Geneva, January, 1930, pp. 65-71. Also published in the B.C. Teacher, Vancouver, March, 1930, pp. 35-40.

DEPARTMENT OF MATHEMATICS:

"The Problem of Three Bodies"
By - Buchanan, D. (Presidential Address)
Royal Society, Canada, Section III, 1930.

"Periodic Orbits in the Restricted Problem of Four Bodies with Repelling and Attracting Forces."
By - Buchanan, D.
Royal Society, Canada, Section III, 1930.

"An Illustrative Orbit in the Restricted Problem of Four Bodies."
By - Pollock, Miss Mary E. (Presented by D.Buchanan)
Royal Society, Canada, Section II, 1930.

"Tangential Coordinates"
By - Nowlan, F.S., and James, R.D. (Introduced by D. Buchanan) - Royal Society, Canada, Section II, 1930.

"Transformation of Units in a Simple Matric Algebra"
By - Nowlan, F.S. (Introduced by D. Buchanan)
Royal Society, Canada, Section II, 1930.

"Sets of Integral Elements of Certain Rational Dickson Algebras."
By - Nowlan, F.S., and Hull, R. (Introduced by D.Buchanan) - Royal Society, Canada, Section II, 1930.

"On the Direct Product of a Division and a Total Matric Algebra."
By - Nowlan, F.S.
Bulletin of the American Mathematical Society
Vol. XXXVI, No. 4, April, 1930, pp. 265-268.

"The Pendulum Orbit of the Normal Hydrogen Molecule"
By - Buchanan, D.
Trans. Royal Society of Canada.
Vol. XXIII, Series III, 1929, pp. 125-131.

"Second Genus Orbits for the Helium Atom."
By - Buchanan, D.
Trans. Royal Society of Canada.
Vol. XXIII, Series III, 1929. pp. 227-245.

DEPARTMENT OF MODERN LANGUAGES:

"Moliere" (Republic of Letters Series)
By - Ashton, H.
Routledge, London.

DEPARTMENT OF MODERN LANGUAGES (continued

"La Princesse de Cleves"
By - Ashton, H.
Scribner, New York.

"Le Roman Social Sous La Monarchie De Juillet"
By - Evans, D.O.
(Picard)

"Rostand versus Gross - an alleged plagiarism by the former.
By - Ashton, H.
(For the Modern Language Review - England)

"Garibaldi's French Writings"
By - Ashton, H.
(French Quarterly - England).

"Critical Text of Rostand's Cyrano de Bergerac."
By - Ashton, H.
(For Scribner - New York).

"Literary Scholarship in Canadian Universities"
By - Clark, A.F.B.
(Article published in Canadian Forum, April, 1930).

DEPARTMENT OF ZOOLOGY:

"Some Free-Swimming Copepods of the Vancouver Island Region"
By - Campbell, Miss Mildred H. (Presented by C. McLean Fraser).
Royal Society, Canada, Section II, 1930.

"The Razor Clam, Siliqua Patula (Dixon) of Graham Island Queen Charlotte Group "
By - Fraser, C.McLean.
Royal Society, Canada, Section II, 1930.

"Some Cumacea of the Vancouver Island Region."
By - Hart, F.L. (Presented by C.McLean Fraser)
Royal Society, Canada, Section II, 1930.

"Spawning and free swimming larval periods of Saxidomus and Paphia."
By Fraser, C.McLean.
Trans. Royal Society, Canada, Sec. V, 1929, pp.195-198.

DEPARTMENT OF ZOOLOGY continued

"The Necessity in Marine Biological Investigation for data regarding physical and chemical oceanography and plankton content and distribution."
By - Fraser, G. McLean.
(Fourth Pacific Science Congress, Java, 1929).

"Another Household Pest Arrives in Vancouver"
By - Spencer, G. J.
Proceedings B.C. Ent. Soc. 1929.

"The Fire Brat, Thermobia Pack, in Canada."
By - Spencer, G. J.
Can. Ent., Jan. 1930.

"The Status of the Barn Swallow Bug - Oeciacus vicarius Horvath"
By - Spencer, G.J.
Can. Ent., Jan. 1930.

G. J. Spencer:

"Beetles emerging from prepared Timber in Buildings"
"Notes on Phalacrocera vancouverensis Alexander, an aquatic Crane fly."
"Insects of the season in Vancouver district, 1929."
"Insect pests and insect allies that have recently arrived in Vancouver district, British Columbia, 1928-1929."

Josephine F.L.Hart:

"Some Decapod Crustacea of the Southern Vancouver Island Region."
"Work on the taxonomic and distributional study of the Cumacea of the Vancouver Island Region."
Royal Society, Canada, 1930.

FACULTY OF APPLIED SCIENCE

DEPARTMENT OF CHEMISTRY - reported in Arts

DEPARTMENT OF GEOLOGY reported in Arts

DEPARTMENT OF MINING and METALLURGY:

"Developments at Owens Lake"
By - Turnbull, J.M.
"Flotation Practice at the Duthie and Silver Cup Mills"
By -Gillies, G.A.

FACULTY OF AGRICULTURE

DEPARTMENT OF DAIRYING:

"An Alleged Feed Flavour in Milk Caused by Specific Bacteria."
By - Sadler, Wilfrid, Irwin, M.Lenora and Golding, N.S.
The Milk Dealer. Milwaukee, 1929

"Flavour Defects in High Grade Milk"
By - Sadler, Wilfrid.
Scientific Agriculture, Vol. X, No. 2. Ottawa, 1929.

"Is All Milk Equally Suitable as a Medium for the Preparation of Starters?
By - Kelly, C.D. 1930.
Scientific Agriculture, Vol. X, No.5, Ottawa.
(Work done in co-operation with Professor Sadler in the University Laboratory).

"The Effect of Ammonium Salts on the Growth of P.Roqueforti in Cheese".
By - Golding, N.S.
RoyalSociety, Canada, 1930.

"Feed Flavour or Stable Odour in Milk Caused by a - typical strain of Aerobacter oxytocum."
By - Sadler, Wilfrid and Irwin, M.Lenora, 1930.

DEPARTMENT OF HORTICULTURE:

"Tree-Fruit Farming in British Columbia"
By - Clement, F.M. and Wilcox, J.C.
An Economic Study of Five Hundred and Twenty-six Farms. (A Five Year Summary).
Province of British Columbia Department of Agriculture, Bulletin No. 105: 1-54, 1929.
(College of Agriculture Bulletin, No. 13.)

"The Influence of Top on Root as Determined by Root Respiration of Young Fruit Trees."
By - Harris, G. H.
Proc. Amer. Soc. Hort. Sci. 26: 329 - 334.
Figs. 1, 2, 1929.

DEPARTMENT OF HORTICULTURE continued

"Studies on Tree Root Activities"
An Apparatus for Studying Root Respiration and Factors which influence it."
By - Harris, G. H. Scientific Agric. 9: 553-565.
Fig. 1. Plates 1-15. May 1929.

"Studies on Tree Root Activities"
Part II. "Some Factors which influence Tree Root Respiration."
By - Harris, G. H.
Scientific Agriculture 10 - 564 - 585: Fig. 1
Charts 1-6. (May 1930).

DEPARTMENT OF POULTRY HUSBANDRY:

"Inheritance of Plumage and Skin Colour in the Ancona"
By Asmundson, V.S. and Milne, Helen I.
Scientific Agriculture, Vol. 10, Jan. 1930.

"Farm Survey Records and Flock Management Problems in British Columbia".
(World's Poultry Congress).
By - Lloyd, E.A. and Riley, W.J. - Feby. 1930.

"Master Breeder's Guide"
By Lloyd,E.A.
(Written for the R.O.P. Assoc.).

"Fish Oils as Sources of Vitamin D. for Poultry"
By - Asmundson, V.S. and Allardyce, W.J. and Biely, J.
Scientific Agriculture, Vol. 9, May 1929.

REPORT OF THE DEAN OF THE FACULTY OF ARTS AND SCIENCE

New Courses.

Commerce.

A course leading to the degree of Bachelor of Commerce was approved by the Faculty, Senate and Board and arrangements were made to offer the work in the various years. There is a close relationship between the work required for Commerce and for Arts and Science. The first two years of Commerce may count as the first two years of Arts and Science and, of the 30 units required for the last two years in Commerce, a minimum of 15 units and a maximum of 21 units consist of subjects which carry credits in Arts and Science. Provision is made for a candidate to complete the work for the two degrees B.A. and B.Com. in five years.

Social Service.

The course outlined in the session 1928-29 for the Diploma of Social Service was expanded, particularly in the more technical subjects of Social Service.

Home Economics.

A year ago a tentative First Year Course for Home Economics was drawn up. This spring the course was extended to cover the First two years. The work consists of two full years in Arts and Science with emphasis upon the Science subjects. None of the technical courses in Home Economics has been included. When a Department of Home Economics is established and provision is made for housing and equipping this Department, an extension will no doubt be made in this course. It may then be found advisable to alter the work prescribed for the earlier years. In the meantime, candidates who complete the course as outlined will receive credit for two years in Arts and Science and may proceed to the B.A. degree, should it be found impossible to make the necessary arrangements for extensions in Home Economics.

REPORT OF THE DEAN OF ARTS AND SCIENCE (continued)

Failures.

While the question of failures has occupied much of the time of the Faculty and of the Dean during the last session, we have not been unmindful of the fact that among our undergraduates and graduates of 1930 are scores of really brilliant students to whom may be safely entrusted the high reputation of the University which has been won by graduates of preceding years. As in the family so in the University - it is the weaker no doubt, who receive more of the paternal care, at any rate who cause more paternal anxiety.

The low marks of First Year students at Christmas with the resultant large number who were asked to withdraw at that time were a decided disappointment. During the Fall Term an extra effort had been made by the various Instructors of First Year students and by the Dean to "check up" on delinquents both as to attendance and to work. The Christmas Examinations, however, showed that about 10% of the First Year had made an average under 40% and were therefore required to discontinue attendance for the remainder of the session. Of those who withdrew 82% were men and of those in Class 1 80% were women. A special committee of Faculty considered the question of failures and made certain recommendations which were adopted by Faculty and, with slight alterations, accepted by the various student organizations such as the Students' Council, Athletic organizations, Fraternities, etc. The report of the Committee has already been submitted in full. With the co-operation of the student organizations, an effort will be made next year to limit the student activities of First Year students who have "fallen down" in their academic work.

Exchange of Undergraduates.

At the close of the 1928-29 session certain regulations were drawn up pertaining to exchange of undergraduates with other Canadian Universities. One of our students took his Third Year at McGill, and a McGill student took his Third Year with us. Two of our graduates were recommended as exchange students at the University of Toronto last fall, but while they could not be admitted on the basis of exchange they were given scholarships.

Exchange Professors.

There is a strong feeling that while good arises

from the exchange of professors with the other Western Universities a modification of the present plan can be made to much advantage. It is suggested that the Public Lecture be held late in the afternoon instead of at 11 a.m. At the latter hour the majority of the students are at lectures and even when these are cancelled only a very few attend the Public Lecture. While probably only a few would attend the lecture in the late afternoon, they would nevertheless be those who were interested in the lecturer's subject and there would be no loss of time from the regular lectures.

Accommodation

Classrooms and offices are urgently needed. Certain large classes like Biology 1 and English 2 have from 300 to 350 students with classroom provision for 275.

The large numbers in the First Year always present difficulties. It is of course advisable to divide the classes into sections but the number of sections is limited by the number of Instructors and by the classrooms available. On the other hand when the number in a section is large the classrooms are too small. The Second Year classes are increasing in numbers and more sections are required. While the number who completed their First Year in April was somewhat smaller than usual, there were several with supplementals which will no doubt be removed and there will be several others who will qualify from the Senior Matriculation classes in the High Schools.

The arrangements made last year for Commerce students to use draughting tables in Applied Science were not satisfactory. Through the kindness of Dean Clement a small room in the Agriculture Building is to be made available next year for students in Statistics and Accounting. This will accommodate only about 25 students.

More offices are needed in the Arts Building and no more Common Rooms are available.

Certain of the laboratories are filled to capacity. From physical necessity we shall soon be bound to limit numbers and limit options (certain classes are more crowded than others). Let us hope that in the immediate future a NEW ARTS BUILDING and an extension to the Science Building will arise, where now

REPORT OF THE DEAN OF ARTS AND SCIENCE (continued)

the "gardens smile", either through public or private generosity or both.

Researches and Publications

A great many researches were carried on by various members of the staff and by various graduate students working under the direction of staff members. Numerous papers were presented by members of the University of British Columbia at the Royal Society and at other learned societies and a very creditable showing was made. Appreciation was expressed by various Eastern University men of the high type of work undertaken and accomplished by our University and by our graduates.

Conclusion.

I wish to express my sincere appreciation of the cordial cooperation of the various members of the Faculty and Staff throughout the session.

Respectfully submitted,

D. Buchanan

Dean.

REPORT OF THE DEAN OF THE FACULTY OF APPLIED SCIENCE

I. Attendance and Distribution of Students.

To the figures of students registered in Applied Science should be added about 130 first year Applied Science students who must register in their first year in Arts.

	Session 1928-29		Session 1929-30	
Engineering		259		266
Nursing and Health		47		36
Total registered in Applied Science		306		302
Total registered in First Year Arts		130	about	130
Total in Applied Science	about	436	about	432

Registered by Departments

	Fourth Year		Fifth Year	
	1928-29	1929-30	1928-29	1929-30
Chemical Eng.	4	3	6	5
Chemistry	-	-	1	-
Civil Eng.	3	6	6	2
Electrical Eng.	13	13	9	10
Mechanical Eng.	7	16	3	6
Forest Eng.	1	4	3	1
Geological Eng.	8	8	2	8
Mining Eng.)	8	6	3	2
Metallurgical Eng.)			1	1
Nursing	7	8	6	6

The Department of Nursing and Health does not show much growth. The reason seems to be that this course is not known to most students until after they are in attendance at the University and cannot switch into Nursing without spending an extra year at the University, which few are willing to contemplate in their first or second years, or, if they do know of it, they

are too young to enter Nursing. It is hoped that the Double Course referred to later will meet these difficulties to some extent.

It is desirable to have more students avail themselves of the course as it provides not only a very suitable education for women students, but also entrance into a profession that stands in need of more properly educated practitioners.

2. General Policy.

The general policy remains unchanged from that outlined in last year's report. It is summarized in the Calendar (page 171).

Having found that students who fail in Second Year Science are students who enter this year poorly prepared, especially those who are weak in English as well as in Mathematics and Physics, a regulation has been introduced that a fifty per cent mark will be required in each subject of the First Year instead of the 40% in English and a language which was accepted as a passing mark provided 50% was made on the total year's work. Furthermore they may not proceed with Second Year work if they have a supplemental outstanding.

3. New Courses.

The new courses in Electrical and Mechanical Engineering mentioned in the report of last year were given during the past session. In addition in Mechanical Engineering new courses in Mechanics of Materials and Prime Movers have been introduced.

A course in Health Education was given to the students of the Social Service Course, and the coming session a course in Public Health will also be given to this class. These Health courses might be open to other students of Arts or Agriculture if it should be considered desirable.

4. More Important Changes in Courses

Mining 6 is being changed from a Draughting course to

a Seminar in the second term.

In Nursing and Health the courses given by members of the permanent staff are being lengthened with a corresponding shortening of courses given by certain part-time lecturers.

5. Double Course Leading to the Degrees of B.A., and B.A.Sc. in Nursing and Health.

In conformity with the practice that has been followed in Engineering of granting the double degree by taking an extra year in Arts, a six year double course is now offered in Arts and Nursing, that it is hoped will prove attractive to women students. The brightest students come to the University too young to enter Nursing, and having started in Arts naturally wish to secure the Arts degree. Heretofore if they wished to secure the Nursing training four or perhaps five more years were required, which few undertake. It is hoped that many of the students may now take this double course, and also that students who come to the University for Nursing may be induced to broaden their education by entering for the Arts degree as well, as this will greatly benefit the profession.

6. Researches under Way.

Chemical Engineering - reported in Arts

Electrical and Mechanical Engineering.

Increment Losses in Direct Current Machines.

The effect of armature reaction with the brushes in the neutral position on the compounding of D.C. generators.

Limiting value of the slip for pulling into step in the synchronous induction machine and also its other characteristics.

Mechanism of explosion in gaseous mixtures with an attempt to settle the question of afterburning and variation of specific heats using the Cathode Ray Oscillograph.

Rectification of dry contacts by the oscillograph

Commutation in polyphase commutation motors

Regenerative braking in A.C.motors generally.

Forest Engineering.

In cooperation with Eddy Tree Breeding station in Forest Nursery.

A test of various species of pine trees, various other species, mulches, fertilizers and weed killers are being tried.

Geological Engineering. reported in Arts.

Mining Engineering - general research in ore dressing.

7. Increased Accommodation.

The number of students in Applied Science is 48% greater than when the present accommodation was planned. It allowed for an increase of 25% except in one or two instances, when a 50% increase was anticipated. In Mechanical and Electrical Engineering the increase in the numbers of students is 100%.

Accommodation is taxed almost all along the line, except where it has been possible to subdivide classes. The possibilities of such subdividing seems to have been exhausted due to time table limitations.

NEEDS

I. Immediate

(a) Class Rooms.

Lecture Room for Applied Science Second Year to seat 150.

202, the present room, has seating for 112 but the class has numbered 124 at the beginning of the session. If a larger room is provided Room 202 will be available for Third Year Science whose present room seats 72 only, whereas the class last year numbered 77.

An extra class room is needed for Electrical and Mechanical Engineering and a small classroom for Nursing.

Laboratories.

A draughting room to accommodate about 45 students is required by the Department of Electrical and Mechanical Engineering.

A new laboratory for the Junior Class in Electrical Engineering is required. This would enable the present Junior Laboratory to be used by the Senior Class, which with its present laboratory would provide it with sufficient accommodation. Both these laboratories are at present badly overcrowded.

The Hydraulic and Testing Laboratory of the Department of Civil Engineering is too small. About 25 feet should be added to it.

The Department of Electrical and Mechanical Engineering asks for an aeronautics Laboratory, and a Department reference library and reading room.

(c) Offices

A small office is required for the Assistant to the Dean. At present he has no place for his work but has to rendezvous with the student at my office and then find a classroom or laboratory that is for the moment free, where they may work together. It is becoming increasingly difficult to find such a room and if successful the chances are that in a short time they are driven out by an assembling class.

An office is required for the Instructor in Nursing.

An additional office is required for the Department of Electrical and Mechanical Engineering.

Anticipated Needs - 1935

Needless to say it is impossible to foresee the developments in Applied Science in half a decade. It depends first upon the industrial expansion of the Province,

second upon the continuation of the drift of male students from pure Arts to Professional courses, and thirdly upon whether the newly constituted Commerce Course attracts many students into commerce who formerly came into Applied Science.

At the moment it seems probable that the rate of growth during the coming five years will not be so rapid as during the past five years, in which event the accommodation mentioned above as urgent may be sufficient for 1935 except as noted below:

Two additional class rooms - one for Nursing and one for Electrical.

A High Tension Laboratory. This is wanted now.

A laboratory and museum for Nursing about double the present one.

Two offices, one for Nursing and one for Electrical.

8 Other Matters:

(a) A full time employee is required for the Forest Laboratory and Nursery. The Forest on the Campus is a priceless asset from educ ational, aesthetic and recreational standpoints, but it requires constant care and never-ceasing work to preserve it and to develop its full potentialities.

(b) The Departments of Civil Engineering and Electrical and Mechanical Engineering are anxious for facilities to enable graduate work leading to the M.A.Sc. to be offered in these Departments.

9. Publications (See list of Publications).

Respectfully submitted,

R.W.Brock.
Dean.

REPORT OF THE DEAN OF THE FACULTY OF AGRICULTURE

The work of the year has been carried on in the same general way as in former years. Some changes in detail should however be noted.

The immediately previous report drew attention to the changing emphasis in Agriculture. While all teaching has received and must receive prompt and careful attention, the tendency has been to lay a still greater emphasis on research. There are certain pressing problems and an endeavour has been made to bring the best information, ability and energy that the science departments can offer to bear on them. This principle of departmental cooperation and coordination can well be exemplified by reference to two examples:

(I) Fowl Paralysis -- where the Departments of Poultry Husbandry, Bacteriology and Zoology are cooperating.

(2) Plant Genetics -- where the Departments of Agronomy and Botany are cooperating -- in both teaching and research.

Other examples are to be found in the Animal Husbandry, Chemistry and Horticulture Departments.

The tendency seems to be that while departmental integrity is still maintained, the men in the departments work in steadily improving cooperation.

The most far-reaching changes in teaching policy are to be found in the 1930-31 Calendar. These are the results of discussions held throughout the whole of the academic year. In principle the courses are now more fluid and are so arranged that the requirements and needs of the individual student can be met. In addition to the options previously referred to in the Calendar, Agronomy, Animal Husbandry, Dairying, Horticulture, Poultry Husbandry, Plant Pathology and Entomology, some emphasis can now be laid on Plant and Animal Genetics, Plant and Animal Nutrition, Soil Bacteriology, Dairy Bacteriology, Agricultural Economics and Marketing and other subjects specifically in the field of Agriculture. A student can now take a general course in preparation for farming or "District Agriculturist" work or can take a more specific pure science course in preparation for post graduate work in the highly specialized fields of study.

It might be of interest at this point to note that all students of the senior class-- both those who completed and those who did not-- were either placed in technical positions or had decided on their future course, before the date of congregation. There is a marked demand for good men in the several fields of Agriculture.

Special reference should be made to the grant of $2,000,00 for Research Equipment. The whole amount was used to equip a plant nutrition laboratory in the Department of Horticulture. For this purpose Room 104 and the adjoining preparation room in the Agriculture Building were reconstructed and are now being used for the purposes planned. Dr. Harris, Assistant Professor of Horticulture, devotes practically his whole time to research. Special mention is made of this work elsewhere.

The construction of a seven compartment greenhouse during the year marks a definite step forward in the research and teaching programmes. This "Laboratory" might be considered a joint enterprise in that rooms are being used by the Departments of Zoology, Botany, Agronomy, Horticulture and Plant Genetics. Each room has separate controls for electric appliances, light, heat, humidity and temperature. It should also be stated that while a number of departments work in these houses, the technical management is under the Department of Horticulture. This saves considerable expense to the University as a whole but cuts rather heavily into the budget of the Department of Horticulture.

The construction of a hard surfaced road north of the Farm Buildings has proved a great convenience and has made all farm buildings more readily accessible besides reducing the fire hazard to a large degree.

In the Department of Poultry Husbandry four small breeding houses were constructed to permit of the extension of the work in Genetics. These houses are satisfactory.

The Faculty has been particularly fortunate in receiving grants for special researches. Mention only is made of these at this point as some are dealt with more specifically in the department reports.

REPORT OF THE DEAN
OF AGRICULTURE (continued)

Empire Marketing Board - For research into Cheese Ripening Processes	$3,500.00
Powell River Company - For research in Pulp and Paper	5,000.00
National Research Council - For research into an Alleged Feed Flavour in Milk	3,000.00
National Research Council - For research in Poultry Paralysis.	2,000.00
	$13,500.00

Toward the close of the year a very definite attempt was made to put the Farm Survey work on a more efficient basis. Hitherto this work has been directed by three departments and the Dean. The items in the Budget for this work have now been brought together and the work of two departments coordinated under the direction of one man, Professor Hare of the Department of Animal Husbandry. Mr. Hare is directly responsible to the Dean of the Faculty for this work.

I wish to record also my regret at the necessary retirement because of ill health of Professor P.A.Boving as Head of the Department of Agronomy. Mr. Boving came to British Columbia in 1916 and rendered excellent service as Head of the Department from 1919 to 1929. He is continuing as a Professor in the Department. Since the retirement of Professor Boving, Dr. G. G. Moe has carried on as Professor and Head of the Department.

The student registration has remained approximately the same during the past few years. The number of degree grade was fifty. While this appears low when compared to the registration in Arts and Science, it nevertheless compares very favourably with the other agricultural faculties in Canada. The registration decreased steadily for a number of years, but during the last few years has remained practically constant. I believe an increase in registration can be looked for next year, especially in the First and Second Years.

A few words on the general principle of organization I feel would not be out of place. Over a period of more than ten years an effort has been made to bring together a staff of competent men who would supplement and complement each other. The soil is basic to all work and we now have an experienced man in soil bacteriology and chemistry; the interrelations of plants and soils are considered in the laboratory in the Department of Horticulture (Plant Nutrition or Plant Chemistry and Plant Physics); the improvement of the plants and animals is provided for in the Departments of Poultry Husbandry and Agronomy (Plant and Animal Genetics); a small beginning has been made in Animal Pathology (Fowl Paralysis); and special studies in Dairy Products are being made in the Department of Dairying (Bacteriology and Bio-Chemistry); Plant Pathology is in the Department of Botany, Faculty of Arts; the economic aspects are given some consideration (Agricultural Economics). An attempt has been made to give consideration to all the main points of an efficient organization.

The $2,000.00 annual grant for research equipment which I hope it will be possible to continue will permit of the better equipment for research of one department each year. The grant is fundamental to the progress of the work.

THE SHORT COURSES

The Short Courses have proved to be popular. During the past year three have been held, one each in Poultry Husbandry, Horticulture and Animal Diseases and Nutrition. The tendency in the Short Courses is toward the more definite and specific topics. The students are demanding more accurate information. General discussions seem to be less popular. A feature of the courses was the hearty cooperation of the Provincial and Dominion officials for which our sincere thanks and appreciation are hereby expressed. The registration was 124.

THE EXTENSION SCHOOLS

The Extension Schools were first organized in 1919 and carried on for five years with assistance from funds voted under the Agricultural Extension Act. They were discontinued in 1924. Last Winter an attempt was made to revive them and

courses were held at Invermere and Nakusp. They proved to be popular and I believe some good was done. It is planned to continue this work.

Special needs are dealt with by the departments but I wish to emphasize the advisability of further consideration of the requests that are made from time to time for more clerical and technical assistance. The estimates for this year will further emphasize this point.

Respectfully submitted

F. M. Clement

Dean.

REPORT OF THE DEAN OF WOMEN

As Dean of Women I beg to submit the following report of the work of my Department for the year 1929-30. As usual, this report must be somewhat general and informal in character and may be summed up under the following general headings: Academic, Housing, Student Organizations, Employment, Social, Vocational, General.

ACADEMIC: I have conferred with students and their parents and with professors who have asked for information and advice about many matters such as the student's lack of ability in certain courses, lack of interest generally in college work, lack of sufficient money to continue in college, etc.

HOUSING: I have inspected boarding houses for out-of-town students, have advised regarding the housing of the women students and of a number of the men, have kept closely in touch with house-holders to ensure that, as far as possible the discipline and conditions of a well-conducted home prevail in their houses.

STUDENT ORGANIZATIONS: As Honorary President of the Women's Undergraduate Society, the Panhellenic Council, the International Club, the Studio Club, and the Women's Literary Society I have attended meetings and have advised in the arrangement of programs and in other matters, and have spoken at numerous student meetings. The new system of "bidding" for sororities which was initiated last year by which the announcement and the acceptance of "bids" are made through the office of the Dean of Women has worked out satisfactorily and the students have voted to continue it. Progress during the year has been made also in the direction of the reduction of the number of social functions in connection with "rushing". After many conferences and much informal discussion the disadvantages inseparable from the sorority system seem to have been reduced to a minimum.

Early in the autumn I assisted with the organization of a Public Speaking Course in the second year and acted as Judge and Critic at the weekly meetings.

EMPLOYMENT: Although the new Employment Bureau has shown some activity, the majority of persons who will give work to women students, and probably all of the women students who wish to obtain work during the college term or during the vacation, apply for assistance at my office. I have placed students who have given light services for room and board, taken care of

children, tutored backward or delicate children, and who have performed other services by which they earned the whole or part of their way through college. I have also placed a number of girls for the summer in summer hotels and camps, housework, in stores, in the Y.W.C.A. and in other work which will make possible their return to the University next fall.

SOCIAL: In the capacity of chaperon I have attended practically all of the functions organized by the students under the name of the University and have been consulted by them in their preparations.

Complaints are voiced, sometimes, about the excessive social life in our University, but, as a matter of fact, there are more unsocial or socially inexperienced girls than oversocial. A special effort has been made to interest such girls in one of the student activities, and also to bring them together under conditions which will break down the inhibitions caused by timidity, supersensitiveness, lack of money and other causes. It need not be recorded that due care has been taken in this connection not to encroach upon the study time of the students concerned.

At Thanksgiving and at Christmas, arrangements were made that all the out-of-town women students who could not go home had an invitation for part of the vacation from some place in the city. In this work I was assisted by the Convener of the Student Welfare Committee of the Faculty Women's Club and by the President of the Women's Undergraduate Society.

I have kept in touch withstudents who have been ill, or in financial or other distress.

I have also assisted in securing loans for women students and have placed gifts of money, clothing and text books from the University Women's Club, McGill Women's Association and other sources with deserving students who were not entirely successful in their efforts to earn their way through, and others who were unexpectedly in need.

VOCATIONAL: Much time has been spent in advising a large number of the women students in their choice of a vocation, giving them literature, information regarding the number of openings, the necessary preparation and where it can be obtained, the demands of the work, the financial and other rewards, the promotional possibilities etc.

REPORT OF THE DEAN
OF WOMEN (continued)

GENERAL: During the year I have been consulted about their teaching and other problems by a large number of graduates of the University, have served on two national and on a number of local committees and have been the President of the Vancouver University Women's Club. I have delivered a number of addresses to various organizations, among them the Women's Canadian Clubs of Vancouver, Victoria and Nanaimo, Teachers Conferences, etc.

Since the presenting of my last report I have represented the Canadian Federation of University Women on the Council of the International Federation of University Women at their triennial conference in Geneva, have attended as a delegate the biennial conference of the World Federation of Educational Institutions and have spent some weeks in college residences chiefly in Oxford and London.

I am asked by the Executive Committee of the Second Pan-Pacific Women's Conference to head the delegation of women from Canada at the meeting of the Conference in Honolulu next August.

Respectfully submitted,

Mary L. Bollert.
Dean.

REPORT OF THE DIRECTOR OF THE SUMMER SESSION OF 1930.

I beg to submit herewith a copy of the report of the Summer Session of 1930:

PREPARATORY READING EXAMINATIONS.

Number of students registered for examinations	73	
Number of students who wrote examinations and passed in all papers		28
Number of students who wrote examinations and passed in some papers only		3
Number of students who withdrew - giving notice	-	10
Student deceased	-	1
Number of students registered who did not write examinations, but changed courses to 4 1/2 units of work		26
Number of students not in attendance - did not give notice of withdrawal		5
		73
Number of supplementals		10

ENROLMENT, NUMBER WRITING EXAMINATIONS, ETC.

YEAR	ENROLLED	WROTE EXAMINATIONS	COMPLETED YEAR	WITHDREW
Partial	32	27	-	-
First	164	157	31	2
Second	135	130	17 (1 by supplemental)	2
Third	47	45	10	-
Fourth	28	27	8 (and 1 from Second Year)	-
Graduates	49	38	-	3
Social Service	3	3	3	-
Totals	458	427	69	7

Of the 9 who completed the Fourth Year, 3 took all their work in Summer Sessions and late afternoon classes.

ENROLMENT AT SUMMER SESSIONS 1926-1930

Year	Total Enrolment	University Courses	Commercial Work
1926	438	385	53
1927	487	448	39
1928	402	357	45
1929	427	383	44
1930	458	(Commercial work no longer taken in connection with University - all students enrolled for University work).	

PUBLIC LECTURES

July 9 "Naturalism and Spiritualism"
Dr. J. M. McEachran.

July 16 "The Problem of Three Bodies"
Dr. D. Buchanan.

July 23 "Exhibit of Reproductions of Famous Paintings
President L. S. Klinck.

July 30 "Modern Literature and the New Universe"
Dr. L. A. Stevenson.

Aug. 6 "As Custodians of our Traditions."
Professor D.C.Harvey.

With the exception of No. 3, the lectures were not very well attended. These lectures were held on Wednesdays from 4 to 5 p.m. so as not to interfere with the regular lectures and laboratory periods.

SEQUENCE OF COURSES

The arrangement of courses into Constants (chiefly required courses of the first two years) and Variables (chiefly Third and Fourth Year courses, offered in alternate years) seems to be working satisfactorily. The registration for certain courses, however, did

not warrant the offering of these courses. Instructors had been engaged in March and it did appear to be unsatisfactory to inform them in July that their services would not be required. To prevent the heavy charge upon the finances of the Summer Session of giving courses for fewer than 18 (or 10 ?) students, it is suggested that certain courses for which a small registration is anticipated be marked in the Announcement with an asterisk and a note added to the effect that unless at least 18 (or 10?) candidates notify the Director on or before April 1 (or some other specified date in the spring) of their intention of taking this course, the course will not be offered. Unless some such arrangement as this is made it will be exceedingly difficult to put into effect, the ruling of the Board that no courses be given to fewer than 18. In view of the fact that such courses are mainly of the Third and Fourth Years and are to be offered in alternate years, and, further, since these courses have frequently fewer than 18 students in the winter session, it is respectfully suggested that the minimum be changed from 18 to 10.

PREPARATORY EXAMINATIONS AND REGISTRATION

As already noted, very few students (31) took the preparatory reading examinations. An outline of the preparatory readings for each course appears in the Summer Session Announcement and no "extra-mural" work is given in connection with these readings. The candidate prepares his work by himself and writes the examinations at the opening of the Summer Session. In view of the fact that there is no extra-mural assistance given during the winter, it does not seem necessary to require registration for these courses by November 30th (later extended to December 31st). It is therefore proposed that the last day for registration for preparatory reading examinations be May 15 and that a fee of $2 be charged at the time of registration. If the candidate attends the Summer Session immediately following, this fee will apply towards his fees for that session whether he writes the preparatory examinations or not. In no case is the $2 fee returnable or carried over for a later session.

OPENING

Two days at the beginning of the session were devoted to the preparatory and supplemental examinations. Since so few wrote these examinations it is proposed that they be held on the first Saturday after the opening. This will permit the

lectures to begin on July 2 (or the opening date) and to close two days earlier than formerly.

LIBRARY

Fewer students than were anticipated made use of the Library for the preparatory readings. At present there is a collection of over 200 volumes marked and reserved for "Preparatory Readings". Last year the total number of these volumes loaned was 17 and only 7 different books were taken out. It is suggested that the $500 set aside for such books be turned over to the Library Committee for the general book-appropriation and that the volumes already marked for Preparatory Readings be placed in general circulation.

CONCLUSION

In conclusion the Director for the year 1930-31 desires to record his appreciation of the splendid spirit of cooperation manifested by all the teaching staff and others connected with the Summer Session; and not least is his appreciation of the harmonious spirit prevailing among the student body.

Respectfully submitted,

D. Buchanan,

Director

REPORT OF THE LIBRARY COMMITTEE

The Report of this Committee was printed and distributed to members of the Senate and to members of the Board of Governors shortly after the beginning of the 1930-31 academic year.

REPORT OF THE UNIVERSITY EXTENSION COMMITTEE.

The period covered by the Report submitted by Dr. W.L.MacDonald, Secretary of the Committee, is from April 1st, 1929 to March 31st, 1930.

During this period the number of lectures reported was 207, of which 62 were arranged through the Committee. The total attendance reported was 18,608, or an average of about 90 persons per lecture.

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

I have the honour to present herewith,

My Report on the University Health Service for 1929-30, including:

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

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

Respectfully submitted,

H. W. Hill,
Acting-Head.

The year 1929-30 was satisfactory in the progress that was made in the Office Records, through a whole-time stenographer, financed by special grant; in the establishing of a regular budget for this service; in the relative smoothness and promptness of the service given, due to the earnest work of the Public Health Nurse and her increased office facilities, and finally, in the degree of success achieved in the main objective of this service - the good health of the students- which was dependent, at least in part, on the previously recited factors.

No serious epidemic outbreak occurred; although several infectious students were discovered. They were promptly isolated, and correlative precautionary measures were taken with the other students thus being exposed.

Of the recommendations I wish to make or which have been made to me, those not yet arranged for and which I wish to call to your attention are as follows:-

(I) That the question be reopened of establishing a "caution-money" fund from "conscientious objectors", for the care of smallpox cases arising amongst them.

(2) That consideration be given,(in conference with Dr. Young) to the triple position still held by Mrs. Lucas as Public Health Nurse of the University Health Service, of the Medical Health Office of the University Endowment Lands, and of the Medical Inspection Service of the University Hill School. This with a view to relieving her of the rapidly increasing work of the latter, which makes it increasingly difficult for Mrs. Lucas to cover satisfactorily all her numerous duties without grave danger of physical injury to herself. I therefore renew my previous suggestion that an assistant nurse be secured to act under her in all her capacities; or that Mrs. Lucas be definitely and entirely relieved of the School work. The former of these alternatives is to my mind much the better, since while sufficiently freeing her, it would also permit her to keep the run of the health conditions in the school and therefore also in the University Endowment Lands. This latter work is part of her duties as Public Health Nurse to the Medical Health Officer of the University Endowment Lands, and it is the latter work which is the source of the major part of her income, i.e. that part supplied by the Provincial Health Office.

(3) That in view of the future needs of the University in Physical Education, a Committee be appointed to draw up a plan into which developments as they become possible may be fitted. Data in considerable quantity has been collected by me from other Universities and could readily be compiled forour own guidance if authorization be granted.

(4) In our one case of diphtheria in a University student who had exposed many others, an attempt to take cultures of the student contacts failed of efficient results from the difficulty of securing the students promptly for examination.

Wholesale culturing of students under the above circumstances is not as practical in the University as it is in a school, nor is it as much called for, except under special circumstances, since 90% of adults are immune.

Should diphtheria again similarly appear at some future time, examination of all sore throats by inspection, with cultures from suspicious ones, and warning of all contacts should be substituted for wholesale cultures; the latter to be done only if required by the Medical Health Officer.

(5) That the Medical Certificates presented to Deans after return of students from absences during term be filed immediately thereafter by the student with the University Health Service.

Respectfully submitted,

H.W.Hill
Acting-Head.

REPORT OF THE MEDICAL EXAMINER OF STUDENTS

I beg to submit the annual report upon the physical examinations of students entering the University for the first time, women participating in major athletics, and certain students whose physical condition was unsatisfactory last year

The most striking fact brought out by examination this year as in former years, was that as the term's work proceeded the physical condition of the students receded. In discussing this fact with the individual students the inevitable conclusion was reached that not enough time is devoted to physical education, an important part of a broad education.

Another striking fact brought out, was that large numbers of students are using to the limit of endurance, - eyes that are very defective, and unrelieved by the use of lenses, here in the city, where relief may be so easily obtained.

A few are attending lectures with defective hearing, undoubtedly a great handicap.

Many, chiefly those from outlying districts have defective teeth which are undermining their health.

Careful account was kept of the localities where students having the above mentioned defects had received their preliminary education, and it was noted that comparatively few had attended the Vancouver city schools where a constant health service is maintained.

Hernia was found in a considerable number who had not known the fact -one of these had been playing rugby. Organic disease of the heart was found in five students or .75 per cent of those examined. The usual number of such cases found in school children is one per cent. Two cases of albuminuria were found.

In cases of heart and kidney trouble the students were told as little as possible - some students were not told at all, but in each of the above mentioned conditions, the parents or family doctors were notified by telephone or letter.

It is satisfactory to note that 76 per cent of the men and 78 per cent of the women have been successfully vaccinated at some time during their lives.

In most cases of those re-examined this year, considerable improvement was noted, but as usual only a small percentage of those found decidedly unfit physically last year had returned for their second year at the University.

The new system of notifying each student of his time for examination and of obtaining his presence at that time worked admirably; a great improvement upon conditions obtaining in former years.

Through the kindness of Dr. F.C.Bell, General Superintendent of the Vancouver General Hospital, we were again allowed to use the Out-Patient rooms at the Hospital, which are well suited to our purpose.

Respectfully submitted

Harold White,
Medical Examiner of Students

REPORT OF THE PUBLIC HEALTH NURSE

In presenting the third annual report covering the work of the 1929-30 session, as part-time Public Health Nurse in the University Health Service of the University of British Columbia, I must first make brief reference to the study made of the University Health Service throughout Canada, during last July.

I am very much indebted to President Klinck whose introductions made the study possible and pleasant, and secured for me a cordial reception from the various officials, who placed themselves unreservedly at my disposal, and gave me all the time necessary to cover the requirements of the study. This study, a copy of which you have, shows three points of interest to this University, namely: (I) Physical Education is compulsory and non-credit in all of the Universities under survey. (2) Vaccination is a compulsory law in the provinces of Quebec and Ontario, thus, employees and students entering the Universities of these provinces must be vaccinated, and no time is wasted by the University Health Officials in argument; people entering are merely required to conform to the Provincial Law. (3) The University of British Columbia is the only University in Canada providing a Public Health Nursing Service.

I. First Aid Department. (All chronic treatments have been eliminated from the service.)

Eighteen hundred and forty-one interviews and consultations were held, including members of the Faculty, Staff and Workmen.

Seven hundred and eighteen students sought advice about health and various physical defects. Of this group, (a) one hundred and fifty-seven were referred respectively to: the Family Physician, Specialists, or to Dentists. The remaining group, (b) coming within the province of the University Health Service were given advice and the usual "follow-up", where this procedure was indicated. Approximately twenty-two students received injuries at Rugby which involved minor dislocations and fractures, and were referred to Physicians. All other injuries received attention at the Department. Three students have had Appendectomy performed as a result of being referred to Physicians.

Follow-up of Defects found by Medical Examiner.

Seven hundred and thirty-six students were sent to the Medical Examiner for the purpose of having their Medical Physical Examination.

Supervision of Infection.

A very strict supervision of all contacts has been observed throughout the session. A glance at the Statistical Report under the heading "Communicable Diseases", will show the gratifying results of this supervision.

IV. Vaccination.

There are still a number of students who do not treat the Vaccination Questionaire with the respect it merits; this number, however, is decreasing each year. Attached hereto, and for your information, we have prepared a special report on the numbers of students who have been vaccinated at any time. The report shows that eighty-six point two- eight percent. of all first year students have been vaccinated. Among this group are included nine students who, although not vaccinated, have had Smallpox at some time, and who have been listed among those considered to be immune, in order to facilitate statistics.

The above plan obtains with regard to second year students, eighty-nine point nine - one percent.of whom are vaccinated. Four of this group have had Smallpox at some time.

As my efforts have been directed chiefly to first and second year students, the percentage, eighty-five point three-nine percent. of vaccinated students for all years must be taken as approximate, since many of the senior students failed to fill in the Vaccination Questionaire and time has not permitted further investigation. I think that the showing is very satisfactory and I must draw your attention to the fact of this report being based on the full registered student population, numbering one thousand nine hundred and four.

Students of all years filing Affidavits of Conscientious Objection number one hundred and seventy-five; of these, one hundred were received this year.

V. Health Education.

Two hundred and forty students have registered for

Health Education.

Sanitary Inspection.

Cafeteria inspection shows no hand-washing facilities adjacent to the toilet used by the Waitresses; this is at variance with our recommendations of previous years. May I suggest that an additional room be added to this Department for the use of the women workers?

Improvements made in U.H.S. Offices.

The appointment of a stenographer for the full session has simplified the work and has allowed a full time service to function.

The removal of wash-basins from two offices has given us a little more room, and the addition of a fixture of wood and glass on the lower part of the office windows has improved the ventilation conditions appreciably.

Recommendations.

1. That the Medical Card have additional data, as suggested in my recent discussion with you on the subject.

2. That some means be established, perhaps through the registration card of ascertaining what, if any, employment the student intends to take up during the course of the University Year.

3. That if possible, the Health Service be notified of the withdrawal of a student from the University during the first half of the session, in order to facilitate appointments for the Medical Examiner.

Respectfully submitted,

C. A. Lucas.
Public Health Nurse

REPORT ON THE MAINTENANCE AND DEVELOPMENT OF THE CAMPUS.

This report on campus development briefly reviews the progress made with respect to the following subjects:

1. Acreage cleared, graded, manured and seeded to either temporary or permanent lawns.

2. Acreage cleared for "the Playing Fields"

3. Amount of sprinkler and watering systems installed

4. Amount of crushed granite paths, stepping stone walks and cinder roads built.

5. Quantities of trees and shrubs used.

6. Drainage systems laid, etc.

There is submitted also a third "folio of plans" consisting of 20 plans making a total of 47 plans prepared from the date of the inception of the work in 1927.

The work of campus development on its present basis commenced in the Spring of 1927, although a small amount of work was done around the "Science Building" the previous Autumn. The first report covered campus development which took place during the year 1927, the second report covered work accomplished during 1928 and this report accounts for the 1929 work.

There are logical reasons for these reports and special reasons for the preparation of the "plans" which are submitted as appendices to the reports. These plans are prepared (for several reasons) first to enable each individual problem to be studied carefully and executed in the most economical and efficient manner.

Also the plans provide a complete record of the dates of planting trees and shrubs, the dates of seeding the lawns and the grass mixtures used for them, and they naturally aid in the acquisition of other data necessary for a systematic development of this work.

Further at the present time these plans constitute the only record of the many interesting varieties of trees, shrubs and flowers used on the University campus, since, owing to lack of funds, it has been found impossible to institute, as yet, any system of labelling the plants. For this last reason in particular, it is most desirable to have deposited in another building, to that in which the originals are filed, a duplicate set of these plans as a safeguard against the possible loss of the data through fire, etc..

It should be stated that the collections of plants on the University campus already include species and varieties not found elsewhere in Canada or the North-Eastern States, since they are not hardy except in these warmer parts of British Columbia. For that reason they are of great interest to visitors to our Province who take an interest in flowering plants, and it is most desirable to preserve a record with respect to the history of these plants.

1. ACREAGE IN LAWNS

Permanent Lawns	$11\frac{3}{4}$ acres
Temporary Lawns	$3\frac{1}{2}$ "

The temporary lawns will be dug up and reseeded to permanent mixtures just as soon as funds are available. In the meantime the purpose is to encourage a good growth in order to dig in as much sod as possible to save manure. Our lawn experiments are already furnishing valuable data which is capitalized in supplying answers to many enquiries from the general public.

2. ACREAGE CLEARED FOR THE PLAYING FIELDS $13\frac{1}{2}$ acres

This work has been dealt with in detail in another connection.

3. AMOUNT OF SPRINKLER AND WATERING SYSTEMS INSTALLED

Linear feet of galvanized iron pipe of $\frac{3}{4}$. $1\frac{1}{4}$ and 2 inch diameters	11,836 feet
Wooden stave pipe 4 inch diameter	1,250 "

The plans indicate the extent to which the lawn areas

have been provided with watering services. A copy of this plan and of several others relating to services are also filed in the office of the Superintendent of Buildings and Grounds.

4. LINEAR FEET OF CRUSHED GRANITE PATHS 1,496

Linear feet of stepping stone walks 355

These walks and paths are in all cases much cheaper than concrete walks and in some cases are more desirable. They have been built out of campus development funds.

5. QUANTITIES OF PLANTING MATERIAL USED

Trees (to the Fall of 1929)		300
	Varieties	109
Shrubs		3,055
	Varieties	193
Vines		150
	Varieties	6

Over 80 per cent. of these materials have been propagated and grown by the Horticulture Department of the University and this Department now has several thousand additional shrubs and trees ready for transference to the campus as soon as we are ready to use them.

6. DRAINAGE SYSTEMS

Linear feet of tile drains	1,479
Linear feet of rock drains	137

From now on very little additional drainage will have to be provided on the areas which are now seeded to lawns, since it is expected that the amount now installed will be adequate to meet future requirements. Four inch agricultural tile has been used in most cases.

7 UTILIZATION OF ROCKS

Tons used 488

This last item has reference to the utilization of rocks which otherwise would have cost a considerable sum to haul away and dump over the cliffs. They have been used to good purpose in the construction of rock walls, rock banks and "rockeries". In addition to these rocks, many hundred additional tons have been used in fills and in road-bed base courses. Two very good serviceable roads have been built to give access to the new Gymnasium. These roads are across a former swamp area and they have a base of about 18 inches of heavy rock where they cross this swamp area. They have been surfaced with gravel and cinders. The walks and paths also have been provided at a low cost.

Photographs to illustrate some of the types of rock construction, etc., will be filed with the plans at some later date.

Respectfully submitted

F.E.Buck

Associate Professor of Horticulture.